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# CONTENTS

Abstract ........................................................................................................ iii
Introduction ...................................................................................................... 1
Acknowledgements ........................................................................................ 8

## PART ONE

**Occurrences**

<table>
<thead>
<tr>
<th>County</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams</td>
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</tr>
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<td>Alamosa</td>
<td>72</td>
</tr>
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<td>73</td>
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<td>74</td>
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<td>96</td>
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<td>137</td>
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<td>143</td>
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<td>154</td>
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<td>159</td>
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<td>167</td>
</tr>
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<td>178</td>
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<td>181</td>
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<td>645</td>
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**PART TWO**

**Bibliography**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>463</td>
</tr>
<tr>
<td>Serials List</td>
<td>466</td>
</tr>
<tr>
<td>BIBLIOGRAPHY</td>
<td>471</td>
</tr>
<tr>
<td>CROSS INDEXES</td>
<td>567</td>
</tr>
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<td>County</td>
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<td>764</td>
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<td>Host Rocks</td>
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</tr>
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<td>Sandstone, Siltstone</td>
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</tr>
<tr>
<td>Spring Deposits, Groundwater</td>
<td>931</td>
</tr>
<tr>
<td>Colorado Plateau</td>
<td>933</td>
</tr>
<tr>
<td>Front Range</td>
<td>999</td>
</tr>
<tr>
<td>Thorium</td>
<td>1024</td>
</tr>
<tr>
<td>Appendixes</td>
<td>1037</td>
</tr>
<tr>
<td>Appendix 1 - AEC Domestic Uranium Raw Materials Program</td>
<td>1039</td>
</tr>
<tr>
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<td></td>
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<tr>
<td></td>
<td></td>
</tr>
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<tr>
<td>Appendix 2 - Chemical Classification of the Uranium and Thorium Minerals</td>
<td>1049</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ILLUSTRATIONS

FIGURES

1. Uranium and Thorium Districts in Colorado ........................................... 2
2. Generalized Stratigraphy in the Uravan Mineral Belt ............................... 3
3. Cross-sections of the Uranium Roll Fronts ............................................. 4
4. Mineral Distribution of Roll Fronts ...................................................... 4
5. Diagram of In-situ Solution Mining ...................................................... 5
6. Colorado Stratigraphic Correlation Chart .............................................. 9
7. Map of Colorado showing counties, cities and highways ....................... 10
8. Map of Colorado showing counties and 1° x 2° quadrangles .................. 11
9. Radioactive Mineral Occurrences in Bent County, Colorado ................... 78
10. Radioactive Mineral Occurrences in Cheyenne County, Colorado .......... 94
11. Radioactive Mineral Occurrences in Clear Creek County, Colorado .... 97
12. Radioactive Mineral Occurrences in Crowley County, Colorado .......... 116
13. Radioactive Mineral Occurrences in Elbert County, Colorado ............. 138
14. Radioactive Mineral Occurrences in part of Garfield County, Colorado .... 155
15. Radioactive Mineral Occurrences in Gilpin County, Colorado ............ 160
16. Radioactive Mineral Occurrences in part of Las Animas County, Colorado .... 213
17. Radioactive Mineral Occurrences in Logan County, Colorado ............ 219
18. Radioactive Mineral Occurrences in part of Mesa County, Colorado .... 222

TABLES

1. Uranium and Vanadium produced in Colorado 1948 to January 1, 1978 . 1
   Explanation for Tables 2 and 3 ......................................................... 18
2. Correlation of current DOE lease unit numbers, locations and property names with former AEC reserve block and lease numbers .... 20
3. Former AEC Mining leases, their production properties and location with information on annual production and grade (to 1962) of uranium-vanadium ore ................................................................. 24

PLATES
(in book sleeve)

1. Radioactive Mineral Occurrences of the Greeley 1° x 2° quadrangle, Colorado
2. Radioactive Mineral Occurrences of the Craig 1° x 2° Quadrangle, Colorado
3. Radioactive Mineral Occurrences of the Vernal 1° x 2° Quadrangle, Colorado
4. Radioactive Mineral Occurrences of the Leadville 1° x 2° Quadrangle, Colorado
5. Radioactive Mineral Occurrences of the Denver 1° x 2° Quadrangle, Colorado
6. Radioactive Mineral Occurrences of the Pueblo 1° x 2° Quadrangle, Colorado
7. Radioactive Mineral Occurrences of the Montrose 1° x 2° Quadrangle, Colorado
8. Radioactive Mineral Occurrences of the Moab 1° x 2° Quadrangle, Colorado
9. Radioactive Mineral Occurrences of the Cortez 1° x 2° Quadrangle, Colorado
10. Radioactive Mineral Occurrences of the Durango 1° x 2° Quadrangle, Colorado
11. Radioactive Mineral Occurrences of the Trinidad 1° x 2° Quadrangle, Colorado
12. Radioactive Mineral Occurrences of the Uravan Mineral Belt, 1:100,000
Introduction

The primary objective of this report is to provide in one document as complete a listing as possible of all radioactive occurrences in Colorado with a cross-indexed bibliography. This publication summarizes widely scattered data, much of which had been classified or was not generally available to the public. The report, therefore, should be invaluable to government agencies for planning and impact studies, and to geologists, explorationists, industry, students, landowners, and developers, and all citizens of the state. We believe it is the most comprehensive and complete report of its kind for Colorado.

This project, funded by the Grand Junction Office of the Department of Energy (DOE) under Contract EY-76-C-13-1674, is presented in two parts. Part 1 lists all known radioactive occurrences with their locations and a brief account of the geology, mineralogy, radioactivity, host rock, production data and source of data. The occurrences are plotted on U.S. Geological Survey 1° x 2° topographic quadrangle maps (scale 1:250,000), with a separate 1:100,000-scale base map for the Uravan mineral belt. Part 2 includes the bibliography of literature on radioactive mineral occurrences in the state with cross-indexes by county, host rock, and the special categories of "Front Range", "Colorado Plateau", and "thorium".

A customized computer program was developed to handle the occurrence and bibliographic data as it was gathered. This made possible the retrieval of a wide variety of types of data by county or area, or the creation of cross-indexes of bibliographic or subject data.

The bibliography drew references from many sources, with the beginning base being the GEOREF bibliography for Colorado (Colorado Geological Survey Bulletin 37) prepared for the Colorado Geological Survey by the American Geological Institute. Additional reference lists from the U.S. Geological Survey, U.S. Atomic Energy Commission, U.S. Energy Research and Development Administration, U.S. Department of Energy, and other published and unpublished sources were incorporated into the bibliography. The bibliography was assembled with keywords so that cross-indexes by county, host rock, "Front Range", "Colorado Plateau", and "thorium" could be pulled from the computer storage and printed separately.

HISTORY AND BACKGROUND

The development of uranium mining in Colorado reflects the natural association, development of knowledge, and demand through the years for three metals: radium, vanadium and uranium. Uranium was first discovered in the United States in 1871 at the Wood Mine in the Central City district (Sims and others, 1963, p. 5). It became important because of its association with radium, which was in great demand as a result of the work of Marie and Pierre Curie. Production from the Central City district totalled about 36 tons of U$_{308}$ by 1900 and most of that was hand-sorted high-grade ore. In the Roc Creek area of Montrose County uranium ore (containing radium) was discovered in 1881. From this district, 10 tons of carnotite ore was mined and shipped to Marie and Pierre Curie in 1896. This small Roc Creek district was the beginning of the Uravan mineral belt, the largest uranium-producing area in Colorado today.

Colorado ranks fourth among the states in production of uranium and first in production of vanadium recovered from sandstone uranium ores. The table below summarizes salient statistics on uranium and vanadium produced and recovered from 1948 to January 1, 1978. The majority of that production was from sandstones, but production figures from other types of deposits are also included.

The first two producing districts mentioned above, the Central City (Front Range) area and the Uravan mineral belt, represent the two major, geologically distinct, uranium-producing areas in Colorado (Fig. 1).

| TABLE 1 | Uranium and vanadium produced in Colorado 1948 to January 1, 1978 |
|---------|------------------|----------------|-----------------|
| Tons of ore | Pounds recovered | Grade % | $ US total |
| Uranium (U$_{308}$) | 17,260,000 | 84,832,300 | 0.25 | 13.45 |
| Vanadium (V$_{205}$) | 15,834,900* | 364,275,400 | 1.15 | 74.18 |

*This tonnage of ore is included in the tons of uranium ore.

Source: C. H. Noweth, pers. comm., 1978
Figure 1. Uranium and Thorium Districts in Colorado (After Morse, J.G., and Curtin, M.S., 1977, Colorado Energy Resources Handbook, Volume 3 - Uranium: Colorado School of Mines, Golden, Colorado.)
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<td>Jurassic(?)</td>
<td>Kayenta</td>
<td></td>
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<tr>
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<td>0-50</td>
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</tr>
<tr>
<td></td>
<td>Owl Rock</td>
<td></td>
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<td>0-400</td>
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<tr>
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<td>Petrified Forest</td>
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<td></td>
<td>0-700</td>
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<tr>
<td></td>
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<tr>
<td></td>
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<tr>
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<td>Shinarump</td>
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<td>Moenkopi</td>
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<td>Moab Back sandstone</td>
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<td>Limestone; absent in northeastern part of area.</td>
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<tr>
<td></td>
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<tr>
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<td>Organ Rock</td>
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<td>White Rim</td>
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<td>0-230</td>
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Figure 2. Generalized Stratigraphy in the Uravan mineral belt area (from Poni and Williams, 1956.)
GEOLOGY OF COLORADO URANIUM DISTRICTS

Western Colorado (Fig. 1), lying west of the Continental Divide, is the site of the oldest uranium mining area in the United States. The Uravan mineral belt, as it is known, is an arcuate belt extending from western Montrose and San Miguel Counties through southwestern Mesa County and into eastern Utah. It produces vanadium-uranium ores contained in sandstones—predominantly the Salt Wash Member of the Morrison Formation (Fig. 2).

Ore bodies are contained in continental sandstones with the mineralized rock forming elongate podlike masses and irregular bodies called "rolls". Roll ore deposits lie generally near the base of thick sandstone units where thin but well-defined mudstones are interbedded with thin sandstones (D. R. Shawe, 1956). Rolls commonly show C, S, and socket shapes in cross section but may be complicated by splits, bulges, loops, flattening or transition into tabular deposits (Fig. 3).

Figure 3. Cross-sections of Uranium Roll Fronts (From Shawe, 1956).

Minor elements are usually asymmetrically distributed across an ore body (Fig. 4). In the Salt Wash Member of the Morrison Formation, layers rich in hematite or limonite, calcite, and selenium are commonly found concentrically arranged on the concave side of roll ore deposits. Where numerous and well developed deposits tend to lie in clusters, generally elongated in a common direction nearly perpendicular to the trend of the belt. Ore in these deposits may range in size from less than a ton to several hundred thousand tons. The grade ranges from a trace to several percent uranium oxide ($U_3O_8$), generally averaging 0.2 to 0.3 percent $U_3O_8$.

Figure 4. Mineral Distribution of Roll Fronts (From Shawe, 1956).

The Uravan mineral belt contains about 1200 mines, some active and many inactive. Since 1948 the Colorado portion of the belt has produced 12,742,000 tons of ore averaging 0.25 percent $U_3O_8$ and containing 63,336,400 lb of uranium oxide ($U_3O_8$) with 331,778,000 lb of vanadium oxide ($V_2O_5$) recovered as a co-product. The average uranium-vanadium ratio has been about 1:5, but it varies considerably. This production from the Uravan mineral belt represents 89 percent of the total uranium production in western Colorado.

Other deposits of the type found in the Uravan mineral belt occur in the Salt Wash Member of the Morrison Formation on Coal Creek Anticline east of Meeker in Rio Blanco County.

Large uraniferous vanadium deposits occur in the Entrada Sandstone northeast of Rifle in Garfield County, near Placerville in San Miguel County, and
north of Graysill Mountain in San Juan County. Smaller similar types of deposits occur in the Lightner Creek area in La Plata County. Some ore also occurs in the Jurassic (?) Navajo Sandstone at Rifle. These uraniferous vanadium deposits are referred to as the "roscoellite-type" because of the vanadium mica that is always associated with them. This belt appears to be continuous from the La Plata Mountains to the area near Rifle.

Another uranium mining district is found near Maybell on the south flank of the Sand Wash Basin in Moffat County. There, the Browns Park Formation, a fluvial, arkosic, locally tuffaceous sandstone of Miocene age serves as the host for uranium deposits. These deposits are roughly tabular, consisting of groups of lenticular, discontinuous ore bodies distributed within a limited stratigraphic interval. Relatively large amounts of low-grade ore occur in the upper part of the Browns Park Formation. Currently, Union Carbide Corporation is producing approximately 200,000 lb of U₃O₈ annually from this locality by a heap leach method.

Vein-type deposits in western Colorado are subordinate in size and numbers to those deposits in sandstone but are represented by two significant areas. Marshall Pass, the first area, straddles the Gunnison-Saguache County line just west of the Continental Divide. Geologically, it consists of an exposed remnant of Paleozoic rocks bounded on the east by the Chester Fault, a high-angle reverse fault. Precambrian granites, schist and gneiss from the east were pushed over these Paleozoic rocks. Ore bodies at the Pitch Mine, the largest uranium producer in the area, consist of numerous pods and lenses in brecciated, steeply dipping limestones and dolomites in the Belden Formation, in the hanging wall of the Chester Fault. The surface trace of the fault is undulatory, but strikes generally in a north-south direction. The eastward dip varies from about 40° to nearly vertical. Displacement is believed to be at least 1,400 ft and possibly as much as 2,000 ft. Uraninite is the primary ore mineral. Development is currently under way to bring this mine back into production.

The Cochetopa district, the second principal area of vein-type deposits in western Colorado, is located on the northern margin of the San Juan Mountains and was discovered in 1954. The deposits in the area consist of nearly vertical tabular bodies in brecciated and silicified Morrison sandstone and siltstone along the east-west-trending Los Ochos high-angle, normal fault. The principal ore is uraninite.

Small amounts of uranium have been produced in western Colorado from numerous localities outside these major areas in a variety of sedimentary, meta- morphic and igneous host rocks. Production from all western Colorado areas, exclusive of the Uruvan mineral belt, totals 2,847,100 tons of uranium ore, yielding approximately 7,806,000 lb of U₃O₈ with an average grade of 0.137 percent U₃O₈. The total production for western Colorado is 757,589,000 tons of ore yielding 71,132,400 lb of U₃O₈ (Table 2, Chenoweth, 1977).

The second major producing area in the state is the Eastern Slope, defined very broadly as all of the area between the Continental Divide and the Great Plains (Fig. 1). The major districts within the Eastern Slope are the Front Range district and the Tallahassee Creek district. In general, less is known about uranium resources in the Eastern Slope than in western Colorado, simply because there has not been as much interest in exploring for Eastern Slope deposits until recently. This is because the uranium ores from sandstone-type deposits have produced about 95 percent of all the uranium found in the United States.

Large areas of sandstone-type deposits such as the Uruvan mineral belt, the Grants mineral belt in New Mexico, and the Powder River Basin in Wyoming have been explored and mined intensively for the past 25 years. The fact that such a large proportion of mined uranium has come from sandstone, combined with the ease of exploration and mining, and the generally conservative nature of mining companies have all made sandstone-type deposits the most sought after. Consequently, exploration for uranium in other geologic environments such as the Front Range has been minimal. Today, however, more time is being spent examining "other" geologic environments for possible uranium resources. This has caused more activity in relatively unexplored areas of the state and on the Eastern Slope.

To date, most uranium in the Eastern Slope has been produced from veins of pitchblende found in small bodies associated with sulfide minerals. In most of the occurrences the veins have been mined chiefly for their precious- or base-metal content. The discovery and importance of uranium in the veins was secondary.

The Schwartzwalder Mine, about 8 miles north- west of Golden in Jefferson County, is the largest uranium mine in Colorado, and the most notable exception to the statement that uranium is secondary to base and precious metals. The Schwartzwalder produced approximately one-seventh of the total amount of uranium in the state in 1977. Total production for the mine to May 1978 is reported as 10,500,000 lb of U₃O₈ (Cotter Corp., personal comm., 1978). The uranium is found in pitchblende and uraninite within veins and breccia fillings along a major fault system in Precambrian metamorphic rocks. Uranium, the major element found, has some associated copper mineralization. The Schwartzwalder Mine typifies the major type of uranium occurrence that is being sought in the Front Range district. This mine is a prime example of vein-type uranium deposits in North America.

The Tallahassee Creek area contains different types of deposits than those generally found on the Eastern Slope. There the uranium occurs in Eocene and Oligocene conglomerates, deposited primarily in ancient stream channels totally different from present drainage systems. Reports in the news media indicate that the Tallahassee Creek has more than 30,000,000 lb of recoverable U₃O₈ at Cyprus Mines' newly discovered Hanson ore body. Uraninite is the principal ore mineral.
A similar but smaller deposit in High Park has a pilot open pit from which ore was graded and stock­piled for various testing purposes. This deposit will probably be worked simultaneously with the Tallahassee Creek deposit to provide supplemental feed to a new mill that is being planned near that site.

On the eastern Great Plains one other important district lies in Weld County. One important deposit here, the Grover deposit, is being developed for production. The Grover uranium deposits in Weld County, 3 miles southwest of Grover, were discovered in 1970. Uranium occurs in sandstones of the upper Fox Hills and Laramie Formations. Deposits in these formations, although generally small and low grade, contain reserves varying from a few thousand to 1,000,000 lb of U3O8 and have become commercially significant due to price increases for uranium. The average grade of the Grover deposit is estimated at 0.14 percent U3O8 for a 1,000,000 lb ore body (H. L. Reade, Jr., 1976). Exploration and in-situ development (Fig. 5) of these deposits are joint ventures of Wyoming Mineral Corporation and Power Resources Corporation. They conducted extensive pilot and monitoring studies and are presently planning a commercial recovery operation.

These deposits are very similar to those found along the Gulf Coast in Texas. Mining is to be carried out by the in-situ leach-mining method, which was developed for the Texas uranium deposits. The development of these deposits will make this area an important new uranium district in Colorado.

Uranium is a polyvalent element with values of +3, +4, and +6. The hexavalent (+6) form is one of the more common forms and is soluble in both dilute acid and dilute basic solutions. Four probable naturally occurring oxides, UO2, U3O8, UO3, and UO, are known, but pure UO is definitely established only as a thin surface layer on the native metal, which does not occur naturally. U3O8, an olive-green uranium-uranyl oxide, contains 84.8 percent uranium. It is used as a unit of measurement when uranium content is discussed.

"Yellowcake" is the concentrate produced at mills and is generally considered to be ammonium diuranate, (NH4)2(U3O8), or sodium diuranate, (Na2U3O8). The exact composition depends on the conditions of precipitation. Refinery specifications, first established by the Atomic Energy Commission, require a minimum of 75 percent U3O8 in yellowcake.

The most common uranium mineral is uraninite [(UO2)1-x(4+x)1/2+x] or (U4+, U6+)O2-6. Uraninite is a primary mineral of uranium found throughout the world and is concentrated in sedimentary deposits, granitic rocks, pegmatites and in primary vein deposits. It is commonly referred to as "pitchblende", a term that has had many meanings but is currently used to describe the sooty, fine-grained, colloform variety of uraninite.

The uranium silicate, coffinite, occurs in oxidized sedimentary ores of the western states. Secondary (oxidized) uranium minerals include an assortment of hydrated oxides, sulfates, phosphates, vanadates, silicates, and carbonates. Carnotite, a hydrated potassium uranium vanadate, is perhaps the best known secondary uranium mineral. The term "carnotite" is often used to include any of a number of similar yellow-colored minerals, including tyuyamunite and meta­tuyuyamunite.

Uranium is frequently a minor constituent of such complex oxides as uranophanite and the fergusonite-formanite, samarskite-ytrotantalite, and euxenite-polycrase series. These contain such elements as thorium, the rare earths, columbium, and tantalum. Quadrivalent uranium is isomorphous with thorium, zirconium, and the rare-earth elements.

Most of the uranium ores in Colorado, represented by the deposits in the Uravan mineral belt and Tallahassee Creek area, occur in sandstones and conglomerates. Tyuyamunite and uraninite, the most important uranium ore minerals, occur as interstitial fillings, grain coatings, and replacements of organic or carbonaceous materials within these deposits. The ore bodies are in irregularly shaped tabular, lenticular, or roll-type deposits. Important vein-type uranium deposits are represented by the Schwartzwalder and Pitch mines, in which pitchblende is the important ore mineral.

Monazite concentrations occurring in paleo-placer beach sands and containing ThO2 are the principal sources of thorium in the world. Additional sources of thorium include veins and deposits in sedimentary
rocks (conglomerates or quartzites enriched in thorium, and uranium). Thorianite (ThO₂), thorite (ThSiO₄), and monazite ((Ce, La, Y, Th)PO₄), are the main thorium-bearing minerals.

Vein-type deposits are the most important sources of thorium in Colorado. Thorium, principally in the form of thorite, occurs both in the Powderhorn district in southern Gunnison County near Lake City, and in the Wet Mountain district in Fremont and Custer Counties. Uranium is associated with the thorium in these areas but only as a minor element. The occurrences are in Tertiary veins that cut Precambrian gneisses, and ultrabasic rocks. These veins are not closely associated with any recognized intrusives. Paleo-placer beach sands are found in small deposits in Elbert, La Plata, and Montezuma counties. Their potential for development is not as favorable as that of vein-type occurrences.

USES AND TECHNOLOGY

Uranium became important during World War II when it was used in the development of the atomic bomb. Development of uranium resources after the war became the responsibility of the U.S. Atomic Energy Commission (AEC), who required large quantities of uranium for its weapons and for nuclear research and development programs. During this time a commercial nuclear power industry, using uranium as a fuel, has slowly developed into the principal civilian use for uranium. Small amounts are also needed for medical research and other technology.

Uranium is also useful after it has been depleted in the fissile isotope and subsequently not suitable for nuclear use. It is one of the most dense metals that will alloy readily with other metals. Through alloying it forms stable compounds that are easily fabricated and useful in numerous specialized nonenergy applications. Depleted uranium is better than lead and other less costly dense metals for gamma-ray and X-ray shielding and for containers for radioactive materials. The density and ease of fabrication make depleted uranium castings suitable for missile ballast, for control surface balancing and counterweights in aircraft and space vehicles, and for payload simulation in test space vehicles. The structural and mechanical properties of depleted uranium make it particularly useful in alloys with molybdenum and titanium for a wide range of military applications—equipment parts, ammunition, and special-purpose artillery shells.

Early uses of uranium are still important and include a uranium-antimony oxide catalyst used in the plastics industry to produce acrylonitrile, a colorant in glass and ceramics, and in steel and nonferrous metallurgy. It is important in the electrical industry where it is used for targets in X-ray tubes, for electrodes in ultraviolet lights, and for resistors in incandescent lamps.

Thorium is used principally for making compounds of oxides, nitrates, and chlorides. The main nonenergy use is in the fabrication of incandescent gas mantles. Varying percentages of thorium in magnesium-base alloys are used for aircraft and aerospace applications. Small quantities are used to produce certain high-strength, corrosion-resistant metals. Thorium oxide is the most stable of the refractory oxides but is expensive and has poor resistance to shock. Both the metal and the oxide are used in radiation detectors, electric discharge tubes, and computers.

The use of high-temperature gas-cooled reactors (HTGR), such as the one at Fort St. Vrain, would create a substantial market for thorium. These types of reactors use thorium and uranium in the feedstock. The fuel elements consist of thorium and uranium carbide-coated ceramic particles. In the fuel cycle, highly enriched U²³⁵ serves as the initial and make-up fissile material, Th²³² as the fertile material, and U²³³ as the converted material.

Theoretical studies of the light-water breeder-reactor (LWBR) program will use the pressurized-water reactor (PWR) to convert Th²³² to fissile mass. This system, under development by Westinghouse, uses thorium as the major fuel component. If successful, it would permit conversion of PWRs to LWBR cores without extensive or costly changes. Utilizing thorium as the principal fuel component would drastically reduce the increasing demand for dwindling uranium resources.

Much research is directed toward large-scale production of thorium as a nuclear fuel. Standardization of HTGR parts to speed licensing, and the development of HTGR gas-turbine powerplants could eliminate conventional steam systems. The symbiotic relationship between the gas-cooled fast-breeder reactor (GCFR) and the HTGR is an important factor in the conversion to thorium fuels, as the GCFR breeds U²³³ from Th²³², with the U²³³ then used to fuel the HTGR. Possible applications of heat resulting from the high operating temperature of the HTGR include coal gasification, oil production from oil shales and tar sands, and hydrogen generation (water splitting).

CONCLUDING REMARKS

The prime objective of this project was to compile a reference data base for uranium and thorium exploration, for land-use planning and impact studies by government agencies, and as general information on radioactive occurrences for students, landowners, developers, and all citizens of the state.

Every effort has been made to ensure that the report is as complete and accurate as possible within our time and budget constraints, but we anticipate some errors and omissions. We also recognize that new uranium occurrences not included in this report are being located through industry exploration and as a result of favorability evaluations conducted by subcontractors to Bendix Field Engineering Corporation as part of the NURE program. Data on radioactive occurrences and bibliographic citations have been entered into a mini-computer diskette storage system in such a way that additions and corrections can be made and data retrieved with minimum effort. We therefore welcome comments from users of this report and request that information on new occurrences or corrections be sent to the Colorado Geological Survey, 1313 Sherman Street, Denver, Colorado 80203 so that our records on radioactive occurrences and bibliographic citations may be kept current.
Acknowledgments

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COLORADO STRATIGRAPHIC NOMENCLATURE CHART

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**COLORADO STRATIGRAPHIC NOMENCLATURE CHART**

Compiled by Richard H. Pears
COLORADO GEOLOGICAL SURVEY

**METAMORPHIC AND INTRUSIVE ROCKS**

SOURCE OF DATA: CROSS SECTIONS, ATLAS OF THE ROCKY MOUNTAIN REGION (HAGG. 1972) AND OTHER PUBLICATIONS

FROM ROCKY MOUNTAIN ASSOCIATION OF GEOLOGISTS SPECIAL PUBLICATION NO. 2, 1977, FIGURE 2, WITH PERMISSION.
Figure 7. Map of Colorado showing counties, cities, and highways.
Figure 8. Map of Colorado showing counties and 1° x 2° quadrangles.
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PART ONE

Occurrences
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Introduction

The following list of occurrences and their descriptions is the most comprehensive set of data on natural radioactive occurrences in Colorado to date. An occurrence for this project was defined as any site with radiation over twice the background rate, or a concentration of uranium or thorium at 0.015 mg/g or more. The compilation was carried out from every source of data that could be accessed. The list is as complete as possible to January 1978. The information was arranged to be as useful as possible to all types of readers—geologists, planners, landowners, government agencies, and students.

DESCRIPTION OF COMPILATION METHODS

There were five major sources for compiling the occurrences:

- U.S. Atomic Energy Commission Preliminary Reconnaissance Reports (PRR’s).
- Personal and Company Communications.

The Preliminary Reconnaissance Reports (PRR’s) are a series of one-page documents describing all sites that were examined for possible radioactive occurrences in the United States. These were visited by U.S. Atomic Energy Commission and U.S. Geological Survey personnel from 1945 to 1960. All of the individual examinations made in a county were released as a single county report. These documents are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Paper copies of all reports on the counties in Colorado are available for inspection at the Colorado Geological Survey. and the Colorado Division of Mines has microfiche copies of these reports for the entire United States. The reports are now outdated, and the reliability of some are questionable. However, they do describe most of the major occurrences in the state, except those in the Uravan mineral belt on the Colorado Plateau. As such, they are a good base from which to begin compiling occurrences.

The second major source of information was the U.S. Atomic Energy Commission’s Production Records, on file at the Grand Junction Office of the Department of Energy. A computer printout of a condensed version is also on file at Colorado Geological Survey. The production records list producing mines in the United States with information on the number of tons and the grade of the ore mined. The information is cumulative from January 1, 1946 to January 1, 1971. Government purchasing of uranium ended on December 31, 1970. Certain properties controlled by the Cotter Corporation and Climax Uranium began production for sales to private industry as early as 1967. Before 1971 all purchases of uranium ore were made primarily by the U.S. Atomic Energy Commission; hence, any of that tonnage and grade information is now public information. These records were kept on all producing properties; therefore, when a mine dump was later reworked and sent to a mill, it received a new production record. As a result, many mine dumps in the Uravan mineral belt are listed as producers. There was even a production record of the cleanings from barrels that contained yellowcake.

The third source of information was the Department of Energy’s Lease Tract Records. The lease tracts are areas of land that have been withdrawn at various times from mineral entry or claiming and later leased by competitive bids for uranium and vanadium production. All of the lease tracts in Colorado are within the Uravan mineral belt. The records are kept current and contain the number of tons mined, the grade of the ore, and the number of pounds of uranium and vanadium produced. Over a period of years, these tracts have changed boundaries, names, owner, etc. They have been known by various names, including “Reserve Blocks”, “Lease Tracts”, “Mining Leases”, “Lease Units”, and “Mineral Leases”. Occasionally some of these areas have been restored for standard mineral entry. Following this introduction are tables containing information on the Colorado leased areas, relating former lease units to the current lease unit numbers. The production figures are complete only to 1962. For more up-to-date production numbers, the individual property occurrence listings should be consulted.

The fourth source for compilation was the Computerized Resource Information Bank (CRIB) of the U.S. Geological Survey. This computer data base is currently being operated by the University of Oklahoma at Norman for the Geological Survey. It is a data base containing information on all commodities, their occurrences, reserves, mineralogy and other pertinent data. All of the uranium data had been entered into the data base during 1972 and 1973. It was not possible to check the dates of the information entered, however, it was entered into the CRIB on a per-lease basis. The Defense Minerals Exploration Assistance Program (DMEA) entered into CRIB. We had early access to the DMEA material and used it as a source for compiling our occurrences. The DMEA program was intended to provide assistance to individuals and companies in the exploration and development of strategic minerals, including uranium. Many properties in Colorado were explored with DMEA funds for uranium and other metals. The reports on the properties are confidential, and only the owner of the property and the U.S. Geological Survey have copies. These reports are very accurate and useful if they are available to an occurrence evaluator.

The fifth source of information was personal interviews and company communications. During the period of this project we contacted every major company and individual that had at some time explored for uranium or investigated uranium or thorium in the state. Many people contacted were very helpful and some even opened their submittal files to us.
A computer printout from the U.S. Bureau of Mines Mines Availability System (MAS), another computer data base, was also used for compiling occurrence records. The information for the MAS file had been researched in 1975. We found that the information differed from the U.S. Geological Survey and the U.S. Atomic Energy Commission's information in many instances. As a result, we used the MAS data only as a secondary source of information. When using any occurrence data where the U.S. Bureau of Mines is the only reference, it should be used with discretion.

Other sources of information for compiling the occurrences included published and unpublished literature on uranium, thorium, and radioactive occurrences in the state. References to most of this literature can be found in the accompanying bibliography.

DESCRIPTION OF INFORMATION HEADINGS

When researching the occurrences, we looked for the following 17 types of information. In most cases, all the information was not found and most occurrences will have less than the complete set of data shown below. The four-letter headings used in the occurrence records are mnemonic codes for the information listed below.

NAME---Name. Primary name and any aliases under which the primary occurrence may be found.

LOCATION---Location. Using the land-grid system, the location is given by section, township, and range.

LCST---Location Status. We used either "unsurveyed", "uncertain", or "unlocatable" if we believed there was any question as to the validity of the location. "Unsurveyed" means that the area where the occurrence is located has not been surveyed into the land-grid system; hence, there is a question as to its exact legal description. This is not of great concern to the user since the township and range lines are projected into the area, and most occurrences can be found. "Uncertain" was used when the location, the directions to the occurrence and/or the described geology did not correlate. This status is a more serious problem for the user than "unsurveyed" because the validity of the location is questionable. "Unlocatable" means either no location was given or the location given is obviously incorrect. This category makes the total validity of the occurrence questionable and its value negligible.

QUAD---Topographic Map Quadrangle. The name of the 7 1/2° or 15° U.S. Geological Survey topographic map quadrangle in which the occurrence can be found.

MAP---1° x 2° Map Quadrangle. The name of the 1° x 2° map in the pocket of this volume on which the occurrence is plotted.

DEVL---Development. A short description of the type of mining or prospecting that has taken place at the site.

PROD---Tonnage and Grade. The tons and grade of ore mined with the number of pounds of U₂O₅ and V₂O₅ produced.

BKG---Background Radioactivity---The normal range of the background radiation, reported in either mR/hr (milliRad per hour) or cps (counts per second) as measured with a radiation detection device.

RNG---Range of Radioactivity. Range of the radioactivity that was found at the occurrence, from normal background to a maximum reading. This, like the background, is reported in mR/hr or cps. In a few cases the range is reported as xbg, which means the range of the radioactivity was recorded as a multiplication of the background rate.

HOST---Host Rock. Rock type in which the occurrence is found.

STRT---Structural Controls. Any structure in the rock that may have helped to localize the uranium mineralization.

ALT---Alteration. Any change in the rock which may be due to emplacement of the uranium or have contributed to the emplacement.

MNZ---Mineralization. The minerals found at the occurrence and any sample analysis data. The analysis is given as a percentage or as parts per million (ppm) of U (uranium or U₂O₅). The symbol for uranium is given as "U", "eU", and "eU". "eU" stands for uranium in its elemental form. "eU" is the symbol for "equivalent uranium" which is the amount of uranium as measured on a radiation detection device such as a scintillation or geiger counter. There is not necessarily any uranium at an occurrence that has "eU". The radiation seen on a counter can be caused by radon, radium, or other daughter products of uranium, or by thorium. "eU" means "chemical uranium", an amount that has been measured chemically and is a true measure of uranium in the sample.

RMKS---Remarks. Any additional pertinent information.
USE OF OCCURRENCES

The following list of occurrences is arranged alphabetically by county and numbered alphabetically by primary name within each county. The numbers are used to plot the occurrence on the 1° x 2° maps in the pocket at the back of this volume. To facilitate finding occurrences, a complete alphabetized list of occurrence names by county follows the introduction. The names are given only up to 60 characters in length.

MAPS

Sixteen 1° x 2° maps that cover Colorado are shown in the figure on the following page. All natural radioactive occurrences were plotted on these maps, which are included as plates in the pocket at the back of this volume. The La Junta, Lamar, Limon, and Grand Junction sheets were not printed, however, because there were very few occurrences on these sheets. Maps of those few occurrences were included as figures with the occurrences in the appropriate county occurrence listing. The opposite situation of too many occurrences for the scale of the map appeared with Clear Creek, Gilpin, Mesa, Montrose, and San Miguel Counties. Clear Creek and Gilpin Counties were plotted at 1:125,000 scale and included as figures with their respective county occurrences. Mesa, Montrose, and San Miguel Counties lie within the Uranium mineral belt and contain about 50 percent of all the occurrences in the state. The area of the Uranium mineral belt within these three counties was printed as one map at a scale of 1:100,000 and included as a plate in the pocket.

Each occurrence within the county is numbered alphabetically, and plotted on the appropriate 1° x 2° map with a symbol to indicate its host rock, and its number. The host rock symbols were arranged within the following generalized host categories:

- Coal, shale, and limestone
- Igneous and metamorphic
- Sandstone, arkose, conglomerate, and siltstone, lake sediments
- Spring deposits and ground water
- Undetermined

This method of plotting the host placed similar rock types together and does not address the question of genesis.

Separate single copies of these maps can be obtained at the office of the Colorado Geological Survey.
EXPLANATION FOR TABLES 2 & 3

HISTORY OF LEASING
(G. C. Ritter, personal communication)

1945-55 Atomic Energy Commission obtained mineral rights on
700 square miles of land, and conducted exploration.

1953-57 660 square miles were returned to public domain.

1948-56 Deposits leased for mining to operators selected by
the Atomic Energy Commission.

1962 By March 31 all leases had expired.

1962- present Atomic Energy Commission held mineral rights on 40
square miles

1970-71 Environmental studies made and impact statement prepared
on withdrawn lands.

1973 Reestablished leasing program under revised Circular
8--rules and regulations for leasing.

mid 1974 Leases awarded
late 1974 Development began
mid 1975 Ore production began

Abbreviations and Definitions

ML-15 Mineral Lease (or Mining Lease) 15
C-AM-20 Colorado-Atkinson Mesa, Uravan District--DOE Lease Tract 20
C-BL-23 Colorado-Bitter Creek and Long Park areas, Uravan
District -- DOE Lease Tract 23
C-CM-24 Colorado-Club Mesa, Uravan District--DOE Lease Tract 24
C-G-26 Colorado-Gateway District--DOE Lease Tract 26
C-JD-9 Colorado-Jo Dandy area, Monogram Mesa--DOE Lease Tract 9
C-LP-23 Colorado-Long Park, Uravan District--DOE Lease Tract 23
C-SM-18 Colorado-Spring Creek Mesa, Uravan District--DOE Lease Tract 18
C-SR-10 Colorado-Slick Rock District--DOE Lease Tract 10
C-WM-17 Colorado-Wedding Bell Mountain, Bull Canyon--DOE Lease Tract 17
U-PM-28 Utah-Polar Mesa--DOE Lease Tract 28

"Withdrawn" An area of land that the Atomic Energy Commission withdrew
from standard mineral entry, later leasing parts of it to
private companies for development.

"Restored" An Atomic Energy Commission withdrawn area that was later
restored to standard mineral entry.
"Reserve Blocks" Tracts of land held by the government that contain known reserves. They were identified by the USGB prefix, indicating U.S. Government Block, the reserve block number, a two digit code for the general location, and a final two digit code indicating the government agency responsible for evaluating the property.

The location codes include:

<table>
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<tr>
<th>USGB</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>USGB-1-JDGS</td>
<td>Jo Dandy area, Monogram Mesa</td>
</tr>
<tr>
<td>USGB-9-JDOR</td>
<td>Jo Dandy area, Monogram Mesa</td>
</tr>
<tr>
<td>USGB-1-LGGS</td>
<td>Legin Group, Slick Rock</td>
</tr>
<tr>
<td>USGB-2-RGGS</td>
<td>Radium Group, Slick Rock</td>
</tr>
<tr>
<td>USGB-3-SPGS</td>
<td>Spud Patch Group, Slick Rock</td>
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<tr>
<td>USGB-5-GTLD</td>
<td>Georgetown Group, Slick Rock</td>
</tr>
<tr>
<td>USGB-6-RGOR</td>
<td>Lower Group, Radium Group, Slick Rock</td>
</tr>
<tr>
<td>USGB-3-SCGS</td>
<td>Spring Creek Mesa, Uravan</td>
</tr>
<tr>
<td>USGB-4-SMGS</td>
<td>Spring Creek Mesa, Uravan</td>
</tr>
<tr>
<td>USGB-1-AMGS</td>
<td>Atkinson Mesa, Uravan</td>
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<tr>
<td>USGB-18-AMOR</td>
<td>Atkinson Mesa, Uravan</td>
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<tr>
<td>USGB-9-LPGS</td>
<td>Long Park, Uravan</td>
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<td>USGB-13-CMGS</td>
<td>Club Mesa, Uravan</td>
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The agency codes are:

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<th>Description</th>
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<td>LD</td>
<td>Block is the responsibility of the Leasing and Development Branch of the AEC</td>
</tr>
<tr>
<td>OR</td>
<td>Block is the responsibility of the Ore Reserves Branch of the AEC</td>
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# TABLE 2

Correlation of current DOE lease unit numbers, locations, and property names with former AEC reserve block and lease numbers
(A. S. J. Taylor, written comm.)

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<th>Current Lease Unit Number</th>
<th>Former Reserve Block Number or Lease Number</th>
<th>General Location</th>
<th>Property Name(s) (not necessarily comprehensive)</th>
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<td>USGB-6-JDGS</td>
<td>Monogram Mesa</td>
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<td>Montrose County</td>
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<td>USGB-4-JDGS</td>
<td>Jo Dandy area</td>
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<td>Montrose County</td>
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<td>USGB-2-JDGS</td>
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<td>USGB-3-JDGS</td>
<td>Monogram Mesa</td>
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<td></td>
<td>USGB-9-JDOR</td>
<td>Montrose County</td>
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<td>Montrose County</td>
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<td>USGB-7-JDGS</td>
<td>Jo Dandy area</td>
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<td>Monogram Mesa</td>
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<td>Montrose County</td>
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<td>USGB-1-LGGS</td>
<td>Legin Group</td>
<td>King, King No. 2, Sam, Frenchy, May, Cowgirl, Block 32 (Black Jack Strip) Eloisa, Otero</td>
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<td>San Miguel County</td>
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<td>Slick Rock District</td>
<td>San Miguel County</td>
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<td>Current Lease Unit Number</td>
<td>Former Reserve Block Number or Lease Number</td>
<td>General Location</td>
<td>Property Name(s) (not necessarily comprehensive)</td>
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<td>USGB-5-GTLD ML-28 ML-30 ML-32 ML-42</td>
<td>Georgetown area</td>
<td>Hawkeye; Little Yolande, Herbert, Vanadium, Ocumpaugh; Ellison, Burrow; Dan</td>
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<td>Slick Rock District San Miguel County</td>
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<td>C-SR-13A</td>
<td>ML-12 ML-17 ML-46</td>
<td>Georgetown area</td>
<td>Veta Mad, Veta Glad, Georgeto</td>
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<td>C-SR-14</td>
<td>ML-21 ML-44</td>
<td>Middle and Upper Groups Slick Rock District San Miguel County</td>
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<td>C-SR-14A</td>
<td>ML-27</td>
<td>Middle and Upper Groups Slick Rock District San Miguel County</td>
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<td>C-SR-15</td>
<td>USGB-6-RGOR ML-6 ML-20</td>
<td>Lower Group Slick Rock District San Miguel County</td>
<td>Cougar, Last Chance, Rainbow, Little Muriel, Chico, Lower Fraction; Knoll, Helen, Cacti, Alice</td>
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<td>C-SR-16</td>
<td>ML-3 ML-4 ML-5 ML-8 ML-9 ML-43 ML-45</td>
<td>Charles T. Group Slick Rock District San Miguel County</td>
<td>Nucleus, Easton B., Michael Bray, Michael Bray 1 &amp; 2, Ann No. 1 &amp; 2 and Fraction adjacent to Ann No. 2, Hawk 2, Frankie 2; Charles T. No. 1, 2 &amp; 4, Sunflower, Fraction No. 1, Fraction No. 5, Summit, Benny T. No. 1 &amp; 2, Neomi D. and Neomi D. Angle</td>
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<td>C-SR-16A</td>
<td>ML-5 ML-7 ML-22 ML-29 ML-45 ML-48</td>
<td>Golden Rod Group Slick Rock District San Miguel County</td>
<td>Pretty Boy, Golden Rod, Golden Rod No. 1 &amp; 2, Lease Block including Golden Rod No. 5, Fraction 3 &amp; 4, Bush No. 6 &amp; 7</td>
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<td>Current Lease Unit Number</td>
<td>Former Reserve Block Number or Lease Number</td>
<td>General Location</td>
<td>Property Name(s) (not necessarily comprehensive)</td>
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<td>Wedding Bell Block</td>
<td>Wedding Bell Mountain and Bachelor Draw Groups Bull Canyon San Miguel County and Montrose County</td>
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<td>Long Park Uravan District Montrose County Reserve Block A (adjacent to TNT No. 3); Lease Block (adjacent to Dusty and TNT No. 1 &amp; 2)</td>
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<td>C-LP-23</td>
<td>USGB-12-LPGS</td>
<td>Long Park and Bitter Creek areas Uravan District Montrose County</td>
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<td>USGB-17-LPGS</td>
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<th>Former Reserve Block Number or Lease Number</th>
<th>General Location</th>
<th>Property Name(s) (not necessarily comprehensive)</th>
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<td>All Fractions between Government claims leased to U.S. Vanadium under Contract AT(05-1)-36</td>
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<td>C-G-26A</td>
<td>AT(05-1)-36</td>
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<td>C-G-27</td>
<td>G-2 &amp; G-4</td>
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### TABLE 3

Former AEC mining leases, their producing properties and location with information on annual production and grade (to 1962) of uranium-vanadium ore. (A. S. J. Taylor, written comm.)

<table>
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<tr>
<th>Former Mining Lease Number</th>
<th>Current Lease Number</th>
<th>Property Name</th>
<th>District(s)</th>
<th>Group Name(s)</th>
<th>Location</th>
<th>Duration of Lease</th>
<th>Calendar Year</th>
<th>Dry Tons</th>
<th>U₃O₈ (%)</th>
<th>V₂O₅ (%)</th>
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<td>Legin Group</td>
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<td>7/1/49 to 3/31/62</td>
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<td>Slick Rock District</td>
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<td>Slick Rock District</td>
<td>Michael Bray Group</td>
<td>E/2 sec. 16, T43N, R19W</td>
<td>7/15/49 to 10/31/59</td>
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<td>Tomboy, Beth Emma Lou, Teller, Mercantile; Independence, Avoca, Ike Nos. 1-6, Sibley, Park, Brighton</td>
<td>Slick Rock District</td>
<td>Mercantile Group</td>
<td>secs. 8, 16, 17, 18, T43N, R19W</td>
<td>7/15/49 to 10/31/59</td>
<td>1949-1958</td>
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<td>Charles T. Nos. 2 &amp; 4,</td>
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<td>10/15/49</td>
<td>1949</td>
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<td>See ML-45. ML-5 terminated 11/12/52 with part becoming ML-65</td>
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<td>C-SR-16A</td>
<td>Pretty Boy</td>
<td>SW/4 sec. 10, and NE/4 sec. 15, T43N, R19W</td>
<td>11/12/52</td>
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| ML-6 | C-SR-15 | Cougar, Last Chance, Rainbow, Little Mariel, Chico, Lower Fraction | Slick Rock District | 12/1/49 | 1949 | 60 | 0.53 |
|------|---------|------------------|--------------------|---------|-------|-----|-----|----------------------|
|      |         | Lower Group | NW/4 SE/4 and NE/4 SW/4 sec. 23, T44N, R19W | 5/31/59 | 1950 | 1,538 | 0.50 |
|      |         |                  | to | 1951 | 2,565 | 0.51 |
|      |         |                  |  | 1952 | 2,574 | 0.48 |
|      |         |                  |  | 1953 | 5,026 | 0.46 |
|      |         |                  |  | 1954 | 2,611 | 0.37 |
|      |         |                  |  | 1955 | 1,897 | 0.35 |
|      |         |                  |  | 1956 | 2,459 | 0.34 |
|      |         |                  |  | 1957 | 2,533 | 0.40 |
|      |         |                  |  | 1958 | 5,360 | 0.31 |
|      |         |                  |  | 1959 | 1,019 | 0.37 |
|      |         |                  | TOTAL |      | 25,638 | 0.42 |

| ML-7 | C-SR-16A | Golden Rod, Fraction 3 | Slick Rock District | 10/23/50 | 1950 | 339 | 0.32 |
|------|---------|---------------------|--------------------|---------|-------|-----|-----|----------------------|
|      |         | Golden Rod Group | to | 1951 | 2,717 | 0.26 |
|      |         |                  |  | 1952 | 2,425 | 0.22 |
|      |         |                  |  | 1953 | 4,415 | 0.23 |
|      |         |                  | E/2 NE/4 sec. 14, T43N, R19W | 10/23/54 | 1954 | 324 | 0.19 |
|      |         |                  | TOTAL |      | 7,220 | 0.24 |

| ML-8 | C-SR-16 | Originally portions of Fraction No. 1 & Summit | Slick Rock District | 10/23/50 | 1950 | 84 | 0.48 |
|------|---------|-----------------------------------------------|--------------------|---------|-------|-----|-----|----------------------|
|      |         | & 2, Fraction adjacent to Ann No. 2, Hawk No. 2, Frankie No. 2 | to | 1951 | 1,415 | 0.40 |
|      |         | Charles T. Group | 3/31/62 | 1952 | 1,150 | 0.34 |
|      |         |                  |  | 1953 | 3,949 | 0.42 |
|      |         |                  |  | 1954 | 1,204 | 0.34 |
|      |         |                  |  | 1955 | 1,137 | 0.39 |
|      |         |                  |  | 1956 | 962 | 0.57 |
|      |         |                  |  | 1957 | 322 | 0.43 |
|      |         |                  |  | 1958 | 633 | 0.32 |
|      |         |                  |  | 1959 | 2,424 | 0.30 |
|      |         |                  |  | 1960 | 2,097 | 0.34 |
|      |         |                  |  | 1961 | 1,720 | 0.29 |
|      |         |                  |  | 1962 | 15 | 0.37 |
|      |         |                  | TOTAL |      | 13,536 | 0.37 |

TOTAL 113,893 0.32 1.33

TOTAL 9,490 0.34 1.44

TOTAL 25,638 0.42 2.44

TOTAL 7,220 0.24 2.43

TOTAL 13,536 0.37 2.15
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<th>Current Lease Unit Number</th>
<th>Property Name</th>
<th>District(s) Group Name(s) Location</th>
<th>Duration of Lease</th>
<th>Calendar Year</th>
<th>Dry Tons</th>
<th>$  V_2O_5</th>
<th>$  V_2O_5</th>
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*Polar Mesa was covered by Lease Unit No. U-PM-28 which was not leased See ML-AT(05-1)-36
| ML-23 | C-LP-22A | Lease Block adjacent to Dusty and TNT No. 1 & 2 Long Park  | 3/1/52 | 1952 | 137 | 0.39 |
|       |          | E/2 sec. 20 and W/2 sec. 21, T47N, R17W to | 12/31/60 | 1953 | 3,997 | 0.32 |
|       |          |                                                   |       | 1954 | 4,637 | 0.32 |
|       |          |                                                   |       | 1955 | 2,784 | 0.24 |
|       |          |                                                   |       | 1956 | 1,707 | 0.34 |
|       |          |                                                   |       | 1957 | 682 | 0.21 |
|       |          |                                                   |       | 1958 | 2,650 | 0.44 |
|       |          |                                                   |       | 1959 | 2,112 | 0.38 |
|       |          |                                                   |       | 1960 | 2,077 | 0.30 |
|       |          |                                                   |       | 1961 | 1,631 | 0.30 |
|       |          |                                                   |       | TOTAL | 22,842 | 0.32 |

| ML-24 | C-CM-25 | Reserve Block No. 6 (NW of LaSalle Mining Company property) Club Mesa | 9/1/52 | 1953 | 2,880 | 0.26 |
|       |          | NE/4 NW/4 sec. 5, T47N R17W to | 10/31/56 | 1954 | -- | -- |
|       |          |                                                   |       | 1955 | 1,486 | 0.32 |
|       |          |                                                   |       | 1956 | 936 | 0.22 |
|       |          |                                                   |       | 1957 | 944 | 0.23 |
|       |          |                                                   |       | 1958 | 137 | 0.22 |
|       |          |                                                   |       | TOTAL | 6,383 | 0.26 |

| ML-25 | C-SR-16A | Lease Block, including Golden Rod No. 5 Slick Rock District | 5/1/52 | 1952 | 1,788 | 0.32 |
|       |          | Golden Rod Group to | 5/1/54 | 1953 | 2,533 | 0.28 |
|       |          |                                                   |       | 1954 | 161 | 0.20 |
|       |          |                                                   |       | TOTAL | 4,482 | 0.29 |

| ML-26 | C-CM-24 | South 67C ft of SE/4 sec. 29, T48N, R17W, with certain lands excepted Club Mesa | 5/1/52 | 1952 | 440 | 0.18 |
|       |          | Near Shamrock Group to | 9/30/52 | 1952 | 4,400 | 0.27 |
|       |          |                                                   |       | 1953 | 435 | 0.20 |
|       |          |                                                   |       | 1954 | 75 | 0.33 |
|       |          |                                                   |       | TOTAL | 4,370 | 0.20 |

| ML-27 | C-SR-14A | Ned Claim Slick Rock District | 6/15/52 | 1952 | 460 | 0.18 |
|       |          | NW/4 NE/4 sec. 1, T43N R19W to | 6/15/54 | 1953 | 435 | 0.20 |
|       |          |                                                   |       | 1954 | 75 | 0.33 |
|       |          |                                                   |       | TOTAL | 970 | 0.20 |

<p>| ML-28 | C-SR-13 | Hawkeye Slick Rock District | 7/1/52 | 1952 | 440 | 0.27 |
|       |          | W/2 SW/4 sec. 32, T44N R18W to | 10/1/53 | 1953 | 1,016 | 0.35 |
|       |          |                                                   |       | TOTAL | 1,456 | 0.33 |</p>
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<td>NE/4 sec. 29 and NE/4 sec. 32, T50N, R17W</td>
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TABLE 3 (Cont.)
## Alphabetical and Numerical List of Occurrences by County

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36
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

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59 Unknown 2
60 Unknown 174
61 Unknown 357
62 Unknown 358
63 Unknown 406
64 Unknown 419
65 Unknown 428
66 Unknown FR-118
67 Unknown FR-75
68 Unknown FR-78
69 Unknown 3 (Mine Dump No. 1)
70 Unknown Mine 4 (Mine Dump No. 2)
71 Urad Mine

Conejos

72 Two Brothers Tunnel
73 Unknown 1
74 Unknown 2
75 Unknown 174
76 Unknown 357
77 Unknown 358
78 Unknown 406
79 Unknown 419
80 Unknown 428
81 Unknown FR-118
82 Unknown FR-75
83 Unknown FR-78
84 Unknown 3 (Mine Dump No. 1)
85 Unknown Mine 4 (Mine Dump No. 2)
86 Urad Mine

Costilla

87 Two Brothers Tunnel
88 Unknown 1
89 Unknown 2
90 Unknown 174
91 Unknown 357
92 Unknown 358
93 Unknown 406
94 Unknown 419
95 Unknown 428
96 Unknown FR-118
97 Unknown FR-75
98 Unknown FR-78
99 Unknown 3 (Mine Dump No. 1)
100 Unknown Mine 4 (Mine Dump No. 2)
101 Urad Mine

Crowley

102 Two Brothers Tunnel
103 Unknown 1
104 Unknown 2
105 Unknown 174
106 Unknown 357
107 Unknown 358
108 Unknown 406
109 Unknown 419
110 Unknown 428
111 Unknown FR-118
112 Unknown FR-75
113 Unknown FR-78
114 Unknown 3 (Mine Dump No. 1)
115 Unknown Mine 4 (Mine Dump No. 2)
116 Urad Mine

Custer

117 Two Brothers Tunnel
118 Unknown 1
119 Unknown 2
120 Unknown 174
121 Unknown 357
122 Unknown 358
123 Unknown 406
124 Unknown 419
125 Unknown 428
126 Unknown FR-118
127 Unknown FR-75
128 Unknown FR-78
129 Unknown 3 (Mine Dump No. 1)
130 Unknown Mine 4 (Mine Dump No. 2)
131 Urad Mine

Delta

132 Two Brothers Tunnel
133 Unknown 1
134 Unknown 2
135 Unknown 174
136 Unknown 357
137 Unknown 358
138 Unknown 406
139 Unknown 419
140 Unknown 428
141 Unknown FR-118
142 Unknown FR-75
143 Unknown FR-78
144 Unknown 3 (Mine Dump No. 1)
145 Unknown Mine 4 (Mine Dump No. 2)
146 Urad Mine

Dolores

147 Two Brothers Tunnel
148 Unknown 1
149 Unknown 2
150 Unknown 174
151 Unknown 357
152 Unknown 358
153 Unknown 406
154 Unknown 419
155 Unknown 428
156 Unknown FR-118
157 Unknown FR-75
158 Unknown FR-78
159 Unknown 3 (Mine Dump No. 1)
160 Unknown Mine 4 (Mine Dump No. 2)
161 Urad Mine

Douglas

162 Two Brothers Tunnel
163 Unknown 1
164 Unknown 2
165 Unknown 174
166 Unknown 357
167 Unknown 358
168 Unknown 406
169 Unknown 419
170 Unknown 428
171 Unknown FR-118
172 Unknown FR-75
173 Unknown FR-78
174 Unknown 3 (Mine Dump No. 1)
175 Unknown Mine 4 (Mine Dump No. 2)
176 Urad Mine

37
### Alphabetical List of Occurrences by County

<table>
<thead>
<tr>
<th>County</th>
<th>Occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eagle</td>
<td>Arrowhead 1</td>
</tr>
<tr>
<td></td>
<td>Blue-Bell (Lady Bell, Ground Hog), Black Eagle Lode, G</td>
</tr>
<tr>
<td></td>
<td>Dorado Claims (Little Spring Claims, Golden Fleece, Gringo</td>
</tr>
<tr>
<td></td>
<td>Dortha 1</td>
</tr>
<tr>
<td></td>
<td>Horse Mountain Uranium Mines</td>
</tr>
<tr>
<td></td>
<td>Lone Tree Claims</td>
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<tr>
<td></td>
<td>Lucky Strike 1</td>
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<td></td>
<td>Rock Hat Claim</td>
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<td>Tipton Ranch</td>
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<td>Unnamed 1</td>
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<tr>
<td>El Paso</td>
<td>17, Airborne Anomaly</td>
</tr>
<tr>
<td></td>
<td>B. F. Reed Claim</td>
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<td>Bluebird</td>
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<td>Burgess Claim</td>
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<tr>
<td></td>
<td>Dorothy O. Claim</td>
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<tr>
<td></td>
<td>Duffields Property (Duffields Deposit, Leyte Claim)</td>
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<tr>
<td></td>
<td>Foibre 2</td>
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<tr>
<td></td>
<td>Mike Doyle Carnotite Deposit (Lucky Ben Lease)</td>
</tr>
<tr>
<td></td>
<td>Mobil Oil Corporation Drill Hole 2</td>
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<tr>
<td></td>
<td>Mobil Oil Corporation Drill Hole 3</td>
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<tr>
<td></td>
<td>Morris Prospect (Antonita Valjean)</td>
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<tr>
<td></td>
<td>Rock View Claim</td>
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<td>St. Peter's Dome 2</td>
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<td>St. Peter's Dome 1</td>
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<td>Unnamed 1</td>
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<td>Unnamed 2</td>
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<tr>
<td>Elbert</td>
<td>Limon Locality</td>
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<tr>
<td></td>
<td>A. E. Jones Claim (Taylor Soda Springs)</td>
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<td></td>
<td>A. Griffin Ranch</td>
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<td></td>
<td>Ant Claims</td>
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<td></td>
<td>Barbara Claims (True Blue No. 1 Claim, Oliver No. 1 Claim)</td>
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<td></td>
<td>Beaver Creek</td>
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<td></td>
<td>Big Bear (Big Hole, Cactus Claims)</td>
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<td></td>
<td>Bill and Bud 2 and 4</td>
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<td></td>
<td>Brandl Claims</td>
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<td></td>
<td>Brown Lava Lode (Pink Lady)</td>
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<td></td>
<td>Cap Rock Claims (Cap Rock 40)</td>
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<td></td>
<td>Claim 2</td>
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<tr>
<td></td>
<td>Colexco No. 1-43 (Red Cliff 30)</td>
</tr>
<tr>
<td></td>
<td>Conac Minerals, Inc. Mining Claims (Wagner-Grape Creek Lode)</td>
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<tr>
<td></td>
<td>Copper Gulch</td>
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<tr>
<td></td>
<td>D-C Claims (Owl Claims, Samargar No. 7 Claim of Karl)</td>
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<td></td>
<td>Deer Ridge Claim</td>
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<tr>
<td></td>
<td>Dickson-Snooper Mine (Ponderosa, Rainbow-Moose Ore Bodies)</td>
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<tr>
<td></td>
<td>Dilley Lease (Dilley Ranch)</td>
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<tr>
<td></td>
<td>East Big Wash (Sputnik No. 1)</td>
</tr>
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<td></td>
<td>Felch Creek 1</td>
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<tr>
<td></td>
<td>First Chance</td>
</tr>
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<td>Good Hope Dreamer (Dreamer Mine, Dreamer, Delano No. 5-12,</td>
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<tr>
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<td>Gunnison School Section Mine (Colorado Lease 519, Section</td>
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<tr>
<td></td>
<td>Hanson Ore Body</td>
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<tr>
<td></td>
<td>Hilltop Prospect</td>
</tr>
<tr>
<td></td>
<td>Homestake 2 &amp; 6 Claims</td>
</tr>
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<td></td>
<td>Hoyt Adkins Ranch Anomaly 3</td>
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<tr>
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<td>James-Taylor Lease (Spring Valley)</td>
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<td>Jesus Lode</td>
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<td>Joan 2 Mine (Seattle Chief Mine)</td>
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<td>Knob Hill Mine (Dippor Mine, Knob Hill 05, Knob Hill Ore</td>
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<tr>
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<td>Last Chance</td>
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<tr>
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<td>Lightning 2 (OAC Uranium, Lightning No. 1-8, Honest John</td>
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<tr>
<td></td>
<td>Little Abner Mine</td>
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<tr>
<td></td>
<td>Mary L. (Mary L. 1-6 Claims)</td>
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<tr>
<td></td>
<td>Misery Mines (Red Hill?, Tanner Boy Group?, Joe &amp; Bob</td>
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<tr>
<td></td>
<td>Navajo (Big Emma)</td>
</tr>
<tr>
<td></td>
<td>Perry DeLellis Claim</td>
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<tr>
<td></td>
<td>Picnic Tree Mine (Picnic Tree Claims - Hail Homestead)</td>
</tr>
</tbody>
</table>
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY:

Fremont
40 Pine Canyon Lode (Southmost Claim Group)
41 Rupp Property (Raup Mine 39)
42 Sand Creek Claims
43 School Section
44 Section 36 Mine (Glen Williams Mine)
45 Sheila 1
46 Smaller Lease
47 Sunrise Claims 1, 2, 3 (Stinkhole Claims)
48 Sunshine Claims
49 Tanner Boy Group (Red Hills Group)
50 Texas Creek
51 Thome Claims (Thome 1-14)
52 Unnamed 1
53 Unnamed 2
54 Unnamed 4
55 Unnamed 5
56 Willis Tuttle

Garfield
1 Atlas Minerals Corporation Property
2 Elk Van Tunnel and UV Claims (UV and Elk Van Claims)
3 End of Trail 1 & 2
4 Enterprise 1, 2, 3
5 Garfield Mine
6 Homestake Mine
7 incorporated 1, 2, 3 & 4
8 Lotti B (Lotti 1-3, Canary, Canary 2 & 3)
9 Marvola Lode 1-14 (Marvol)
10 Revelation Group
11 Rifle Mine (Rifle Creek Mine, Oriole Claims, and North Star
12 Schulte 1 - SW1/4, Test Well
13 Ward Gulch

Gilpin
1 Ashland Mine
2 Big Bertha Prospect
3 Black Hawk 2 Claim
4 Bowman Lease
5 Buckley Mine
6 Bullion
7 Carroll Mine (Carroll, Spur-Daisy Group, Central City,
8 Cherokee Mine
9 Copper Queen (Copper King?)
10 E & H-Jelly Roll Mine
11 Elliot Mine (Wealthy Lode Mining Claim, Wealthy Lode Claim)
12 Flack No. 3 Mine (Kirk Mine)
13 German and Belcher
14 Gold Chief Mine
15 Gold Spring Group
16 Golder - Passarella Claims
17 Iron Mine (Pewabic-iron)
18 J. P. Whitney
19 James Peak Anomaly (Tucker #1)
20 Priscilla Claim (Priscilla Group Claims, Priscilla, Dorothy,
21 Root Ranch Lease
22 Smith Hill Gulch Prospect
23 Spread Eagle (Queen)
24 Telegraph Mine
25 Two Sisters Claim (Two Sisters Group)
26 Unnamed 1
27 Wood Mine (East Calhoun Mine, Calhoun-Wood)

Grand
1 Alaska-Humes Group
2 Corral Creek Occurrence
3 CPJ Claims (Lucky Jack Prospect)
4 Engles-Yust Property (Engals Ranch)
5 First Chance
6 Jerome Claims (Alkalie Flat Spring)
7 Julie Johnson 1
8 Lease #01850
9 Limestone Occurrence
10 Lucky Strike 5
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Grand
11 Lucky Strike Claims
12 Lynn No. 1
13 No Name Claims
14 Philips 1
15 Phillip Stafford Property
16 Pickering
17 Tucker Mine
18 Undecided Claims (Beaver Group 1-20)
19 Unnamed 2
20 Unnamed 3
21 Unnamed 5
22 Unnamed 7
23 Unnamed 8
24 Unnamed 9
25 Unnamed 10
26 Unnamed 11
27 Unnamed 14
28 Unnamed 15
29 Wheeler Basin (Bennett Mine)

Gunnison
1 Atlantic Richfield Drill Hole
2 Badger 1
3 Big Red 22
4 Big Red 39
5 Black Mica Company?
6 Brown Derby Mine
7 Brush Creek Group (Brush Creek Mining Co.)
8 Buzzard's Roost (Pentol)
9 Czar 3
10 Grayjeep Group
11 Jacks Cabin Area (North Star Claims)
12 Jeanie 6 & 2
13 Jenny Claims
14 Lady in Red Shaft (Lady in Red No. 5)
15 Little Indian No. 36
16 Little Johnnie 1 and 2
17 Matchless Group
18 May Queen
19 Mrs. Roberts Deeded Land
20 North Star Group
21 Saverne
22 Silent Friend
23 Sunset Claims
24 Surefire Mining Claims
25 Ten Mile Group (Claims 1, 2, 3, Holman Claims)
26 Wayne Wright Propsect (Adair Group, Dubois Mine)

Hinsdale
1 Bess
2 Beth Group
3 Eagle Claims 1-5 (Eagle, Mary Alice)
4 Golden Fleece
5 Jody Claims 1-5 (Belson-Gibfrey Claim, Ranger No. 2 Claim)
6 Nellie M Mine
7 Rio Grande Claims 1-10
8 Anal No. 1, (Security Exploration Company Claim, Buckhorn,
9 Badiro Cone (Stumbling Stud Mine)
3 Hel Aire Claims (Hel Aire 1-6)
4 Black Jack 2 (Black Jack 1-9)
5 City Slicker Claim
6 Columbine Hills
7 Dallas Dottie
8 Delz Ranch
9 Hall Property (School Section)
10 Independent Claim
11 Isabell Group
12 McGuire
13 McGuire Lode (C.E. Wilson Property)
14 McIntire Property
15 Muleshoe (La Veta Pass)
16 Parks Lode Claim
17 Red Canyon

Huerfano

# ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

| Huerfano | 18 | Santa Rosa Claim |
|          | 19 | Spanish Peaks   |
|          | 20 | Virginia-Verna 1-6 |
|          | 21 | Washout Claim (Price Ranch) |
|          | 22 | Whitecliff 1-26 |
| Jackson  | 1  | Bear Creek Mine |
|          | 2  | Crystal Fluorspar Mine |
|          | 3  | Fielder Prospect |
|          | 4  | Fred Brad's Ranch (Spring Claims) |
|          | 5  | James Bird Prospect |
|          | 6  | Pedad Claims Nos. 1-5 |
|          | 7  | Sample No. 7 |
|          | 8  | Sheep Mountain Prospect |
|          | 9  | Simmons |
| Jefferson | 1 | Appel Lease |
|          | 2 | Ascension Mine (Nair Prospect, Nare Lease) |
|          | 3 | Aubrey Ladwig Mine (Aubrey Ladwig Lease, Gary Mine) |
|          | 4 | Babcock Prospect (Ralston Buttes Uranium Mining Co.) |
|          | 5 | Bankers Lode Claim |
|          | 6 | Billiken Lode |
|          | 7 | Bonzo 1 |
|          | 8 | Borazetti Property |
|          | 9 | Bray Lease |
|          | 10 | Brereton Prospect |
|          | 11 | Buckman Property (Golden Gate Canyon No. 2) |
|          | 12 | Cervi Lease |
|          | 13 | Coors Pegmatite |
|          | 14 | F.M.D. Mine |
|          | 15 | Fork Prospect |
|          | 16 | Gilpin Mine |
|          | 17 | Grapevine Mine (Grapevine 1 and Grapevine Lease) |
|          | 18 | Grosso |
|          | 19 | Hidden Treasure Group |
|          | 20 | Ladwig 1 (Ladwig 2 Prospect) |
|          | 21 | Ladwig 2 & 3 |
|          | 22 | Lindsay Clay Mine |
|          | 23 | Little Patsy (Oregon 1 - 3?) |
|          | 24 | Mann Ranch (Mann Mine, Vanadium Queen) |
|          | 25 | Mena Mine (Hoffmeister Homestead Prospect, Black Judge |
|          | 26 | Morrison Lime |
|          | 27 | Noack Pegmatite |
|          | 28 | North Star Mine |
|          | 29 | Ohman Mine (Nare Lease) |
|          | 30 | Old Leyden Mine (Old Leyden Coal Mine, Leyden Mine) |
|          | 31 | Oregon 1, 2 & 3 (Little Patsy) |
|          | 32 | Pallaora Lease (Morrison Mine, Four Corners) |
|          | 33 | Quatman Lease |
|          | 34 | Schwartzwaldor Mine (Ralston Crack Mine) |
|          | 35 | Shale Prospect |
|          | 36 | Stevenson Prospect |
|          | 37 | Stone Placer (7 Devils Prospect) |
|          | 38 | Sunrise Peak Pegmatite |
|          | 39 | Union Pacific Prospect 2 |
|          | 40 | Union Pacific Shaft (Union Pacific Prospect) |
|          | 41 | Unnamed 1 |
|          | 42 | Unnamed 2 |
|          | 43 | Unnamed 3 |
|          | 44 | Unnamed 4 |
|          | 45 | Unnamed 5 |
|          | 46 | Unnamed 6 |
|          | 47 | Unnamed 7 |
|          | 48 | Wright Lease (Foothills Mine) |
| La Plata | 1  | Black Hawk |
|          | 2  | Cape of Good Hope |
|          | 3  | Good Hope-Nevada Group |
|          | 4  | Lucky Lepracon |
|          | 5  | Schafer Ranch |
|          | 6  | Shorty Lode |
|          | 7  | Texarado Oil Uranium Co. |
|          | 8  | Thunder Mountain (Florida Mountain) |
|          | 9  | Tomahawk Mine |
**ALPHABETICAL LIST OF OCCURRENCES BY COUNTY**

**La Plata Lake**
1. Tripp Gulch Property
2. Eclipse Mine
3. Griffin Mines
4. Huckleberry Mine
5. Josie May
6. Rosse Tunnel
7. Turquoise Chief (Poor Boy)
8. Unnamed 1
9. Unnamed 2
10. Unnamed 3
11. Unnamed 4
12. Unnamed 5
13. Unnamed 6
14. Unnamed 7
15. Unnamed 8
16. Wilkesbarre Mine (Wilkes Barre Tunnels)

**Larimer**
1. A. L. Stein Ranch (Stein Ranch)
2. Batterson Lode
3. Big Boulder Prospect (Boulder Rock)
4. Carter Lake
5. Copper King Shaft (Cherokee Mines, Ismert Property, Black
6. Estes Bell (Hilltop)
7. Eureka Group
8. Hide Above Lode
9. Hyatt Ranch
10. Lucky Strike Claims
11. New Hope Claims
12. Red Head Claim
13. Robinson Ranch and Boy Scout Camp
14. Sheep Creek Prospect
15. Soda Springs Group (1-8)
16. Spring Claim (Revis Claim, Unnamed Claim, Spring 1 Claim)
17. Unnamed Radioactive Spring 1
18. Uranium Queen (Red Hill, Red Hill 1)

**Las Animas**
1. 16, Airborne Anomaly (B-4-1-1954)
2. Booster Claim 1
3. Cliff Martin Claims
4. Dave Welsh Claim
5. Fan Dyke No. 1 (Fan Dyke 1-15, 17-22; Miebuille 1-8)
6. Mike's Mine
7. Morning Star 1
8. Unnamed 1
9. Virginia 14
10. Unnamed 1

**Logan**
1. 31, AEC Mining Lease (Reserve Block 4, Blue Creek Mesa)
2. 34, AEC Mining Lease (C-G-26A, DOE Lease Tract)

**Mesa**
1. Arrowhead 1 & 7 (Arrowhead No. 7)
2. Arrowhead 4
3. Arrowhead 5
4. Arrowhead 6
5. Arrowhead 7
6. Arrowhead 8
7. Arrowhead 9
8. Arrowhead 10
9. Arrowhead 11
10. Arrowhead 12 (Arrowhead No. 25)
11. Arrowhead 13
12. Arrowhead 14
13. Arrowhead 15
14. Arrowhead 16
15. Arrowhead 17
16. Arrowhead 18
17. Arrowhead 19
18. Arrowhead 20 & 20 A
19. Arrowhead 21
20. Arrowhead 22
21. Arrowhead 23
22. Arrowhead 24
23. Arrowhead 25
24. Arrowhead 26
25. Arrowhead 27
26. Arrowhead 28
**Alphabetical List of Occurrences by County**

Mesa

24 Arrowhead 29 (OS)
25 Arrowhead 30
26 Arrowhead 33
27 Arrowhead 34
28 Arrowhead Incline 6
29 Arrowhead Incline 2
30 Arrowhead Incline 12 & 23 (Arrowhead Incline No. 23)
31 Arrowhead Incline 24
32 AT (05-1)-526, AEC Mining Lease (C-G-27, DOE Lease Tract,
33 AT (05-1)-36, AEC Mining Lease (C-G-26A and C-G-27, DOE Lease
34 Atlas 1, 2, 3 (Lone Mesa No. 7, Atlas-Lone Mesa No. 1)
35 Austin Mine (Austin and Austin Adit)
36 Banco 1-7
37 Bar-W-Bar Claims 1-16
38 Belmont 1 & 2
39 Bessie Group (Jerry Kay)
40 Big Indian Lease
41 Big Maverick (Juanita Group)
42 Big Seven (AEC Mining Lease 31, Reserve Block No. 4)
43 Black Mama (Nigger Baby)
44 Black Mesa
45 Black Rock 2 (Black Rock No. 1 - 20)
46 Black Streak (Black Streak - Yellow Bird, Black Jumbo)
47 Blackbird
48 Blue Canyon
49 Blue Creek
50 Blue Mesa View
51 Blue Ribbon 1 Incline
52 Blue Ribbon 3
53 Blue Ribbon #7
54 Blue Ribbon 17
55 Blue Ribbon 32
56 Blue Ribbon Group (Blue Ribbon No. 2)
57 Bluebird (Blue Bird)
58 Bluebird Dump (Blue Bird Dump)
59 Bonanza 2 (Bonanza No. 2 and 4, E 1/2)
60 Bonanza 3
61 Bonanza 5 (Bonanza # 4, 5, 7)
62 Bonanza 6
63 Bonanza Shaft
64 Bonnie
65 Buckhorn Claims
66 Bud 1 (Outside Sales)
67 Buena Vista
68 Bulck (Bujan Mine)
69 Burcar Mines
70 Calamity 1 (AT (05-1)-36), AEC Mining Lease (C-G-26, DOE
71 Calamity 2 (AT (05-1)-36), AEC Mining Lease (C-G-26, DOE
72 Calamity 6
73 Calamity 7
74 Calamity 9
75 Calamity 13
76 Calamity 14 (AT (05-1)-36), AEC Mining Lease (C-G-27, DOE
77 Calamity 15 (AT (05-1)-36), AEC Mining Lease (C-G-27, DOE
78 Calamity 16
79 Calamity 17
80 Calamity 20
81 Calamity 21
82 Calamity 27
83 Calamity Homestead
84 Calamity Mesa Dump (Queen of the Hills Dump) (AT (05-1)-36),
85 Calco (Cedar Cliff Group)
86 Captain Jack
87 Captain Jinks (Lumsden Group)
88 Cave
89 Cave Canyon Linda (Linda, Linda-Cave Canyon)
90 Cedar Pt 3 (Little Chief)
91 Cherie 1 & 2
92 Cherokee Shaft (JWL Fraction No. 1)
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Mesa
93 Chico & Chico Fraction
94 Cliff Dweller (Cliff Dweller 1 & 2; Cliff House 1 & 2;
95 C-G-26, DOE Lease Tract (Contract No. AT[05-1]-36 and 19,
96 C-G-26A, DOE Lease Tract (34, AEC Mining Lease)
97 C-G-27, DOE Lease Tract (AT[05-1]-36, AEC Mining Lease)
98 C-G-27A, DOE Lease Tract (AT[05-1]-326, AEC Mining Lease)
99 Cave No. 1 Adit
100 Climax
101 Climax Residue
102 Coal Town Citation
103 Cottonwood 3 & 5 (Little Girl, Pretty Boy)
104 Crescent
105 Crows Nest (Mineral Channel Group)(Rainbow)
106 Cub
107 Dalliu-Yellowbird
108 Deal Group (Last Chance 1-2, Black Jumbo 1, 2, and 3)
109 Depression Group
110 Depression No. 6
111 Depression No. 2 & 3
112 Depression No. 4 & 5
113 Drum Dust
114 Durango No. 2
115 Economy
116 Elizabeth 17 & 18
117 Elizabeth No. 7, 8, 9, 10
118 Emerson (Blair, Bluebird, Jumbo)
119 Flat Top
120 Ford & Fordo Claim Group (Cat Track) (Fordo 6)
121 Fountain of Youth
122 Fraction
123 G-1
124 Gateway Tailings
125 Gilmore Lode (Lumsden Group)
126 Gladys 1-4
127 Great Hesper (AT[05-1]-36), AEC Mining Lease)(C-G-26A, DOE
128 Hanson-Negus (Hanson Dump)(C-G-27A, DOE Lease Tract)
129 Harvey-Pick & Shovel
130 Hidden Treasure Shaft (AT[05-1]-36, AEC Mining Lease) and
131 Hole 24
132 Homestead Patent
133 Hope 1 to 4
134 Hubbard Homestead and Pack Rat (Shakin Quikie)
135 Humulinger
136 Hummer (AT[05-1]-36), AEC Mining Lease) and (C-G-26A, DOE
137 Incline 1 G 1 (AT[05-1]-526, AEC Mining Lease; now
138 Incline 2 G 2 (Now C-G-27A, DOE Lease Tract)
139 Incline 3 G 3 (Now C-G-27, DOE Lease Tract)
140 Incline 4 G 4 (Now C-G-27, DOE Lease Tract)
141 J. W. Lewis (Larsen 1-13, Sampson 1-9)
142 J.W.L. Fraction 1
143 J.W.L. Fraction 2
144 J.W.L. Fraction 3
145 Jean 1, 2, & 3
146 Jody Group
147 Joe
148 John Brown
149 John Brown 14 & 15 (John Brown Extension, Duffy, Duffy
150 John Brown No. 18 (John Brown 16-19; John Brown Annex)
151 John Brown No. 21
152 Johnnie Mae 2
153 Johnnie Mae 3
154 Ju Dee 1
155 July
156 Jumbo 1
157 Kanarado 3
158 Karns Incline
159 King Solomon
160 Klondike
161 La Piazza 1

44
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Mesa
162 La Sal
163 La Sal Group (La Salle Group)
164 La Sal No. 1 & 2
165 La Sal No. 4
166 La Sal No. 5 & 7
167 Larry & Leslie Claim Group
168 Lavada (Lavada 2-7, Mineral Jack 1-3)
169 Lee 1-6
170 Legal & Lucky Day
171 Liberty Bell
172 Lincoln
173 Little Johnny
174 Little Maverick 1, 4, 5 & 6
175 Locus 1, 2, & 3
176 Lode Claim
177 Log Cabin (Homestead)
178 Lone Peak
179 Lookout
180 Lost Dutchman 17
181 Lost Indian (Last Indian)
182 Lucky Day
183 Lucky Hole
184 Lucky K
185 Lucky Strike
186 Lumsden No. 2 & 6
187 Lumsden 1 (Lumsden 1)
188 Mammoth
189 Mammoth-Lincoln
190 Mark 2
191 Matchless (AT(05-1)-36, AEC Mining Lease)(C-G-26A, DOE
192 Maverick
193 Maverick 6
194 Mesa 8
195 Mesa No. 5 (Outlaw Mesa)
196 Mill Site Lode (June)
197 Mineral Channel 10 & 12
198 Mineral Channel 3
199 Mineral Channel 5
200 Monroe 18
201 Montezuma
202 Neglected (AT(05-1)-36, AEC Mining Lease)(C-G-27, DOE
203 Neilson
204 Neilson Mother Dee
205 New Verde (Horn Group)
206 Newheise
207 October Adit
208 Okan
209 Outlaw-Economy
210 Pack Rat 1 & 2
211 Pay Lode (Pay Rock Group)
212 Payday 1-7
213 Payrock Group (Payrock No. 14 & 16, Payrock Mines)
214 Peach 10 Incline 1 & 2 (Peach 7)
215 Pond & Schubert Group
216 Powder Horn Incline
217 PPT. Concentrate
218 Protector
219 Purple Heart
220 Queen of the Hills (AT(05-1)-36, AEC Mining Lease) (C-G-26A,
221 Radium 7
222 Rae Marie (Rae Marie No. 3)
223 Rae Marie Group
224 Rainbow
225 Rajah 1
226 Rajah 11 & 63
227 Rajah 30 (Rajah 30 Incline) (Rajah 30 Shaft)
228 Rajah 49
229 Rajah 67 & 68, 61, 62, and 63
230 Rajah 72
**ALPHABETICAL LIST OF OCCURRENCES BY COUNTY**

<table>
<thead>
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<th>Mesa</th>
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<td>75 Iron and Copper Claims</td>
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<td>88 Oscar No. 1 Claim</td>
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<td>89 Owl Group</td>
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47
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Moffat
90 Rob Rollo
91 Sage-Buellia
92 Sec. 16, T. 6 N., R. 94 W.
93 Sec. 16, T. 7 N., R. 93 W.
94 Sec. 16, T. 7 N., R. 94 W.
95 September Morn Claims
96 Shell Group (Shell Group, Claim No. 1)
97 Star Prospect (Front Range Star Group)
98 Sugarloaf (Sugarloaf No. 1, 2, 3, 4, 9, Sugar Loaf Claim
99 Three Sisters (Three Sisters No. 11)
100 Trevenen Claims
101 Unnamed No. 1
102 Unnamed No. 2
103 Unnamed No. 3
104 Unnamed No. 4
105 Unnamed No. 5
106 Unnamed No. 6
107 Unnamed No. 7
108 Unnamed No. 8
109 Unnamed No. 9
110 Unnamed No. 10
111 Unnamed No. 11
112 Unnamed No. 12
113 Unnamed No. 13
114 Unnamed No. 14
115 Woodpile No. 1

Montezuma
1 25, Airborne Anomaly
2 26, Airborne Anomaly
3 27, Airborne Anomaly
4 28, Airborne Anomaly
5 29, Airborne Anomaly
6 31, Airborne Anomaly
7 38, Airborne Anomaly
8 39, Airborne Anomaly
9 40, Airborne Anomaly
10 41, Airborne Anomaly
11 42, Airborne Anomaly
12 43, Airborne Anomaly
13 44, Airborne Anomaly
14 45, Airborne Anomaly
15 Broken Bow
16 CB Claims
17 Cliff House
18 Coffin's Prospect
19 Karla Kay
20 Pay Day (?)
21 Roberta Jean
22 Surprise
23 Swallow 1
24 Veach
25 Virginia Ann

Montrose
1 30-30
2 45-90 (Julian Group) (Mineral Survey #20473)
3 10, AEC Mining Lease (C-CM-25, DOE Lease Tract)
4 11, AEC Mining Lease (C-CM-25, DOE Lease Tract) (Reserve
5 13, AEC Mining Lease (Reserve Block 1)
6 14, AEC Mining Lease (C-LP-21, DOE Lease Tract)
7 15, AEC Mining Lease (Reserve Block A) (C-LP-22A,
8 23, AEC Mining Lease (C-LP-22A, DOE Lease Tract)
9 24, AEC Mining Lease (C-CM-25, DOE Lease Tract) (Reserve
10 37, AEC Mining Lease (C-CM-25, DOE Lease Tract)
11 39, AEC Mining Lease (C-AM-19, DOE Lease Tract) (Block
12 41, AEC Mining Lease (C-CM-24, DOE Lease Tract) (Reserve
13 47, AEC Mining Lease (C-AM-19, DOE Lease Tract)
14 Abajo 1-5 (Laura, Mustard)
15 Adak
16 All Stars - Evening Star
17 Alfa
18 Altair Capella Vega
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<td>7 Anna May 1 Dumps (Happy Thoughts)</td>
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<td>Montrose</td>
<td>67 Bobcat</td>
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ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose
88 Bobcat (La Porte, Wild Horse)
89 Bonanza
90 Bonita 1 (Bonito)
91 BP 1
92 Breezy (Wedding Bell Group)
93 Brooke 1, 2 (Brooks)
94 Broomstick
95 Brown Derby
96 Brushy Basin
97 Buckeye 4
98 Buckhorn - Ureka (Applejack, Shuffle)
99 Buckhorn 1
100 Buckhorn No. 2
101 Buckshot (Saucer Basin Group)
102 Buckskin
103 Butterfly
104 Butterfly (Wat Nos. 1, 3, 5, 7, 16; Prayer 13-19)
105 C-AM-19, DOE Lease Tract
106 C-AM-19A, DOE Lease Tract
107 C-AM-20, DOE Lease Tract
108 C-BL-23A, DOE Lease Tract
109 C-BL-23B, DOE Lease Tract
110 C-CM-24, DOE Lease Tract (26, AEC Mining Lease) (41, AEC
111 C-CM-25, DOE Lease Tract (10, AEC Mining Lease) (Reserve Block,
112 C-JD-5, DOE Lease Tract (Jo Dandy Area)
113 C-JD-5A, DOE Lease Tract
114 C-JD-6, DOE Lease Tract
115 C-JD-7, DOE Lease Tract
116 C-JD-7A, DOE Lease Tract
117 C-JD-8A, DOE Lease Tract
118 C-JD-9, DOE Lease Tract
119 C-LP-21, DOE Lease Tract (14, AEC Mining Lease) (Reserve
120 C-LP-22, DOE Lease Tract
121 C-LP-22A, DOE Lease Tract (15, AEC Mining Lease) (Reserve
122 C-LP-23, DOE Lease Tract
123 C-SM-18, DOE Lease Tract
124 C-WM-17, DOE Lease Tract
125 C-WM-17A, DOE Lease Tract
126 Cabin View
127 Calvert 2 (Calvert 3)
128 Camel (Camel Group, Leighton-Camel Group)
129 Canon 4, 5, 7
130 Canon 738 (Canon 1, 2, 5-9; Wilson 1-3)
131 Canopus (Monogram Group, Sirius)
132 Canyon 2 (Sylvey's Pocket Group)
133 Canyon View
134 Carpathia
135 Carpenter Ridge
136 Cashin Mill
137 Cedar Ridge #2 - Brushy Basin Member
138 Cedar Ridge - Brushy Basin Member
139 Cedars Ridge Group (Cedar Ridge Bill 1-3)
140 CFC
141 Checker
142 Chestertield I trespass (Pluto, Saturn)
143 Chipmonk 1
144 Christie
145 Christmas Lode
146 Cliffdweller 2
147 Cliffdweller
148 Club 2
149 Club Group (Club Sandwich)
150 Clyde J. Wright (Pinion and Cedar Groups)
151 Coloradium
152 Columbus
153 Confusion Mine (Angle)
154 Copper Jack (Radium King)
155 Corporation (Lease)
156 Correct
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose
157 Cottonwood 1, 2, 3 (Red Bird Group)
158 Cougar (Cougar 1-11, Bobcat 1-4)
159 Crab Orchard
160 Cripple Creek 2
161 Cripple Creek 2 Dump
162 Cripple Creek (Cripple Creek No. 1)
163 Crown Prince
164 Cue Ball
165 Cycle 3
166 D & D 3
167 D & D 5
168 Dads (Carbon King, Shamrock 1-7, Piper 1-3, Kingpin 1-8)
169 Dan Patch
170 Dawn (Down) (Echo Group)
171 Deer (July, Slim)
172 Deer Shaft
173 Diana (Mitchell-Archer Group)
174 Doctor Mine (Yellowbird)
175 Dola
176 Dolores Mine (Pippy)
177 Donald L
178 Donald L Dump
179 Donna K
180 Dorothy (M.U. #141, Grace Chato)
181 Dorothy E
182 Dorothy Jean No. 1
183 Double Jack
184 Dry Creek Prospect
185 Duchess 2, 3 (Duchess Group, Dutchess, Duke 1-3, Persistence
186 Duggan Adit
187 Dusty Dump
188 Eagle Rock 1
189 Echo 2 & 3 (Hatch 1-8, Echo 1-3)
190 Echo 6 (Echo 4-6, Jackrabbit, Dawn)
191 Eclipse
192 Edith Irene (Gypsy Queen)
193 Eight Ball (Julian Group, Eagle Basin)
194 Eight O Clock
195 Elizabeth Ann 1 & 2
196 Elray Mine
197 Equinox
198 Eula Belle Craig
199 Eva Group (Eva Lode, Yellowbird Group)
200 Evening Star Mine (Lion Creek Group) (Incline 2, Slick Rock,
201 Expectant 1 (Rambler)
202 Fairy Queen (Fairy King & Fairy Queen)
203 Farmer Boy
204 Farmer Girl
205 Fawn Springs 3
206 Fawn Springs 4, 10
207 Fawn Springs 5
208 Fawn Springs 9
209 Fawn Springs 15
210 Fawn Springs 13
211 Fawn Springs 18
212 Fawn Springs 11
213 Fawn Springs 12
214 Fawn Springs 29
215 Fawn Springs 21
216 Fawn Springs 30
217 Fifth National Bank
218 Firebird Mine
219 Firecracker
220 First National Bank
221 Fiat Top
222 Florence Nellie, 75 50, 50 50, 25 50, 10 50
223 Fossil
224 Fourth National Bank
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose

225 Fox (Little Dick)
226 Fox Cistern
227 Fraction (Fraction South)
228 Franklin
229 Franklin 1, 2 (Red Bird Group)
230 Gilbert
231 Gnome
232 Golden Eagle
233 Golden Eagle 14 & 16
234 Golden Eagle 23
235 Good Hope Red Fox
236 Gramlich Group
237 Grand Dad
238 Grass Roots
239 Grass Roots Dump
240 Gray
241 Gray Dump
242 Gray Fox
243 Greager Group
244 Greasy Spoon (Geo No. 7)
245 Great Western Dump
246 Great Western (Mineral Survey 20184)
247 Green Back (Mineral Survey 20233)
248 Ground Hog Mine
249 Groundhog
250 Groundhog #2
251 Guadalcanal Mine (Long Park 17, Tumis)
252 Gyp Lease (Gyp 1-3, Surprise)
253 Happy Jack (Robert Lee #3)
254 Happy Joe (Happy Joe No. 1, Miracle)
255 Happy St.
256 Happy Thought
257 Happy, Happy West, Happy No. 1
258 Hard Luck (Hot Dog, Hard Luck 1-5)
259 Hardrock
260 Harold (Gilbert Claim)
261 Harrison-Burnett and Small-Lee
262 Hatch No. 8 (Echo Group)
263 Henry Clay Dumps
264 Henry Clay Mine
265 Hidden Basin
266 High Bull 5
267 Hobo
268 Homestead
269 Honeymoon (Phonograph)
270 Honeymoon Dumps
271 Horsehair 1
272 Horsehair Group (Horsehair 2-5)
273 Hot Rocks, Boumer and Pole Cat (Hot Rock 1-5)
274 Hot Shot No. 3 (Wedding Bell Group)
275 Hot Spot
276 Howling Coyote
277 Hummer
278 Hummer Dumps (Joe Dandy Dump)
279 Ilene (Mexlco Group)
280 Independence
281 Index
282 Indians
283 Invincible
284 Irene
285 Island View 1-7 (Island View 2)
286 J M
287 J. B. Group
288 J. J.
289 Jack No. 8-13
290 Jack Rabbit (Echo Group)
291 Jackpot Mines No. 2 & 5 (Jackpot Group)
292 Jeep
293 Jitterbug

52
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 294 Joanne Group (Jo Ann 1-7)
295 Joe
296 Joe Ann
297 Joe Dandy Mine
298 Joe Jr.
299 Joe Pete
300 Joe Riverside, Joe (Skalla) Mine, Joe
301 John Z
302 Joker
303 Joker (Black Jack, Log Cabin, West)
304 Joker (Joker 1-3)
305 Judy Ann (Patterson Springs No. 2, Patterson Springs Group)
306 Jumbo
307 Jungle Basin (Lone Cedar, Vanadium Bar, Tip Top)
308 Just Right
309 Keystone Claims
310 King
311 King of Lodes
312 King Solomon #5
313 La Salle Mine, La Salle Group (10, AEC Mining Lease)
314 Lark 7 & 8, 2
315 Last Chance
316 Last Chance 1 (Last Chance #1-10)
317 Last Chance No. 4
318 Last Chance-Long Shot
319 Last Dollar
320 Last Dollar (Doagy 2)
321 Last Hope
322 Last Load (Red Rose Group, Lost Lode)
323 Laura
324 Lazy Three
325 Levi
326 Lilly Love
327 Little Alice
328 Little Basin (Grass Roots)
329 Little Buckhorn Group (Termite 1-12)
330 Little Chief
331 Little Dick
332 Little Dick Dumps
333 Little Jewel (Black Gem Group)
334 Little Joe
335 Little Slip 1
336 Lo High (Loh)
337 Log Cabin
338 Lone Cedar (Jungle Basin 1-14, Vanadium Bar, Tip Top)
339 Lone Pine (Big Spruce 1-2, Golo)
340 Lone Pine No. 2
341 Long John
342 Long Park 1
343 Long Park 2
344 Long Park 3
345 Long Park 4
346 Long Park 5 (Black Dinah Group)
347 Long Park 6
348 Long Park 6 Dumps
349 Long Park 9
350 Long Park 10
351 Long Park 11
352 Long Park 12
353 Long Park 13
354 Long Park 16
355 Lost Horn (Shamrock Group)
356 Lower Valley View
357 Lucky Blunder
358 Lucky Day
359 Lucky Day
360 Lucky Group (Lucky No. 1-14, Wray Mesa)
361 Lucky Marx
362 Lucky Strike 4

53
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 363 Lucky Strike
          364 Lynx
          365 Maggie C
          366 Maggie C Dump
          367 Margie 2
          368 Margie Group
          369 Marjorie Ann Mine
          370 Martha Belle (Martha Belle East)
          371 Mary Ann 4 (Dorothy Jean 2)
          372 Maud Mine
          373 Maybe 1, 2
          374 Maybe 5 & 6
          375 Maybe Dumps
          376 Media (Group)
          377 Merry Christmas (Mesa Creek)
          378 Merry Widow
          379 Mesa
          380 Mesa 2
          381 Mesa 3
          382 Mesa Creek
          383 Midas
          384 Mike 1
          385 Mike 2
          386 Mike No. 1
          387 Mike No. 2 (Mill No. 2 Incline)
          388 Mineral Joe Group (Mineral Joe 1-12)
          389 Mineral Park
          390 Mineral Park 2
          391 Mineral Park 4, 5, 6
          392 Mineral Park 2-6
          393 MLB-C-JD-8, DOE Lease Tract
          394 Modeen
          395 Modeen 2
          396 Monogram 5, Farmer Girl
          397 Monogram 12
          398 Monogram Claim
          399 Moonbeam
          400 Morning Glory 2
          401 Morning No. 2
          402 Morning Star Mine
          403 Morning Star-Moonlite
          404 Movie Star
          405 Muaker
          406 Mum
          407 Mustard
          408 Nat Group
          409 Naturita 4
          410 Naturita 24
          411 Navajo (Lark 7 & 8 Mine)
          412 New Camp Bird (Starlight Group)
          413 Newton (Bull Canyon Group)
          414 Nil No. 2 (and Dump)
          415 Nil Trace
          416 No Name
          417 Noel
          418 Nora L. Claims
          419 North Star Dump (Mineral Survey 19793)
          420 North Star-Unaweep
          421 Nucla (Mineral Survey 19790)
          422 Nucla (VCA)
          423 Old Crow 1 (Greagor Group)
          424 Old Grandad
          425 Old Quaker
          426 Old Salt Lick, (Old Salt Lick Extension, Shamrock Group)
          427 Opera Box
          428 Ophir
          429 Ophir Bluebird (Ophir)
          430 Ophir Dump
          431 Oregon
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 432
Oversight Mine

433 Pablo 4 & 5
434 Pain-Obnoxious
435 Paradox 4, 5 & 6
436 Paradox Belle
437 Paradox C
438 Paradox D (Reserve Block A)
439 Paradox Right Of Way (Doe Lease Tract C-JD-7)
440 Paradox View
441 Patterson Seep
442 Patty 4
443 Patty 5
444 Patty No. 2
445 Pay day
446 Peanut No. 19
447 Peg Leg 2
448 Peggy
449 Picket Corral
450 Pie Face 1
451 Pine Face 1
452 Pine-Cedar Group
453 Pluto (Pluto-Saturn)
454 Point-Empire
455 Pooch & Pooch 1
456 Poor Boy
457 Prayer 11
458 Prayer No. 8 & 9
459 Princess
460 Princess Pat
461 Probable
462 Production Dumps
463 Production West (Production)
464 Prohibition (American Eagle MS 19852)
465 Quarrel Group
466 Quo Vadis
467 R.A.L. 1 & 2
468 R.A.M.
469 R.A.M. Dump
470 Rabbit Foot 2 (Rimrock Blues Group)
471 Radium Cycle
472 Radium Hill 7
473 Radium Hill 10
474 Radium Hill 31
475 Radium Hill Group
476 Radium King (Bitter Creek Group)
477 Radium Queen 13
478 Rainbow
479 Rainy Day
480 Rajah (Big Chief 2) (Mineral Survey 19851A and 20019)
481 Rajah Dump Ore (Roc Creek)
482 Rambler Dumps
483 Ratex
484 Rattler 1
485 Rattlesnake 1 (Lower Group)
486 Rattlesnake (Rattlesnake-David)
487 Rattlesnake Turnover
488 Raven
489 Raven
490 Red Beds
491 Red Bird No. 1, 2
492 Red Bird No. 20
493 Red Cow (Wild Horse Group)
494 Red Head 1
495 Red Hill Group
496 Red Rock
497 Red Rock 2
498 Red Rock 5
499 Red Sox, Yankees
500 Redbird
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 501  Redbird, Yellowbird
502  Remanent 1
503  Renegade Group
504  Republican (Republican-Dusty, Republican and Dusty)
505  Republican Dump
506  Rex Mine
507  Rigel Mine
508  Rim Claims
509  Rim Rock
510  Rimrock 15-17
511  Rimrock Blues 2
512  Rimrock Blues 5
513  Rimrock Blues 6E
514  Rimrock Blues 9
515  Rimrock Blues 12
516  Rimrock Blues 20
517  Rimrock Blues 6, 14
518  Rimrock Group
519  Rimrock No. 5
520  Riverside
521  Rock Raven
522  Rodman No. 8
523  Roosevelt
524  Rosebud
525  Royal Oak
526  Rubadale (Rubadale)
527  Rusty 5
528  Ruth K (Pine Group)
529  Rye (Rye No. 8)
530  Salt Lake Extension
531  Sam
532  Sandy
533  Saturn (Pluto - Saturn)
534  Saucer Basin Group (Rust 3, Peggy)
535  School Marm
536  Second National Bank
537  Sego Lily Lou
538  September Morn
539  Sesmo
540  Shadow
541  Shadow Rock
542  Shamrock
543  Shamrock (Shamrock and Roadside)
544  Sharkey
545  Shooting Star
546  Shriver
547  Slim Chance
548  Smokey (Starlight Group)
549  Socket
550  Soldier Boy
551  Spencer-Fairy Princess
552  Sphinx
553  Sphinx Dump
554  St. Patrick
555  St. Patrick 9
556  St. Patrick No. 7
557  Star 3, 4 (Wright Group)
558  Star No. 3 Dump
559  Star No. 5 (Star No. 5 & 6, Movie Star, Polar Star)
560  Star No. 10
561  Star No. 13, 14 (Wright Group)
562  Starlight
563  Starlight 1
564  Starlight 2
565  Starlight 4
566  Starlight 8
567  Steer 1, 8
568  Straight Arrow
569  Summer Mine
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose

570 Sunbeam Group
571 Sunflower (Sunflower 2, Brammer Group)
572 Sunnyside
573 Sunrise Group (Sunrise No. 2, 3, 4, 5)
574 Sunset
575 Surprise (Joe Jr.)
576 Swindler Dump
577 Sylveys Pocket (Sylvia's Pocket)
578 Tango
579 Teapot Dome 2, 3
580 Terrible
581 Three Jacks (Yellow Bird)
582 Three Musketeers
583 Thunderbolt
584 TNT 1, 2
585 TNT 3
586 Too High Mine 2
587 Top Notch
588 Tornado No. 5 & 6
589 Town House (Dolores Group)
590 Tramp 2
591 Tramp Dumps
592 Triangulation
593 Tripod
594 Tripod Low Grade (Tripod Dumps)
595 Truscott
596 Twilight 1-2
597 Twin Sisters
598 Two Bits (Joker Group)
599 Two Shovel
600 U.S. Grant
601 Uncle Sam
602 Upper Valley View
603 URA
604 Uranium Girl (Emergency Claim)
605 Uranus (Dorothy Jean)
606 Uravan Group No. 5
607 Uravan No. 2
608 Ureka (Carpenter Ridge)
609 Uriah
610 Ute 4
611 Vaden View
612 Valentine
613 Valley View (N. Star)
614 Van
615 Van 1-3 (Tulla 1,3)
616 Vandalend 47
617 Vanadite
618 Vanadium King 1-8
619 Venture Lode (Venture Lode)
620 Vernita
621 Victory 2
622 Virgin Mine 3
623 Vista Grande Mine (Lion Creek)
624 Vonnie 5
625 Wamba
626 Wanda 3
627 Watchman
628 Waterloo
629 Wedge 1
630 Wedge Mine (Pl Warren Mine)
631 Wednesday & Thursday
632 West
633 West Lode
634 West Martha Belle
635 Whang Doodle
636 White Cow
637 White Crow
638 White Face
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 639 Whitney
640 Whiz Bang
641 Wild Cat 2
642 Wild Horse (Adak, Colorado)
643 Wildcat 3
644 Wildcat 8
645 Willie Dee
646 Windy Day
647 Woodchuck
648 Woodward
649 Wray Mesa
650 Wright
651 Yellow Bird 1 (Deer Run)
652 Yellow Bird Mines (Center)
653 Yellow Jacket
654 Yellow Spot Group (New Yellow Spot Mine)
655 Yellowbird D
656 Yip Yip
657 Yucca
658 Zebra
659 Zell Group (Zella Group)

Ouray 1 Bear Creek Falls
2 Bear Creek Mine
3 Campbird Mine
4 Carbonate King Mine
5 Dunmore Mine
6 Genessee Tunnel
7 Guston Mine
8 Larson Property
9 Michael Green Mine
10 National Bell
11 Ouray Hot Springs
12 Pony Express Mine
13 Robinson Mine
14 Yankee Girl Shaft
15 Amrine and Ferrigue Claims (Lady Elk No. 1)
16 Balfour Mines
17 Blue Bull Claim
18 Boomer Mine (Shamrock-Irish Group)
19 Buckskin Joe Mine (Phillips Mine)
20 Carson Mining and Development (Nina No. 7)
21 Champaign Mine (Treasury Vault)
22 Chumway Park
23 Garo Deposit (DuVall Discovery, Shirley May Mine)
24 Gem Dandy (Jim Dandy)
25 Goermer Lease
26 Gold Star
27 Hartsel Ranch (Airborne Anomaly No. 6)
28 Hass 1-12
29 Hill Top Claims
30 Horn Property
31 Kentucky Belle Mine
32 Last Chance
33 London Butte Tunnel
34 London Extension Mine
35 Lone Star Claim
36 Lucky Jim Claims
37 Mud Claims
38 Muley Gulch
39 Orphan Boy Mine
40 Pegmatite Prospect
41 Redskin Claim
42 Redskin Mines (Shawnee No. 1 and Redskin 1A, 1B, 2A, 2B)
43 Rogers Publishing Co. (Katydid Mine)
44 South London House
45 Spring Claim
46 Sweet Home Mine
47 Tedco and MacGeorge (Mac George 4)
48 Two Bit Claims
**ALPHABETICAL LIST OF OCCURRENCES BY COUNTY**

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<td>Unnamed No. 1</td>
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<td>Wheel of Fortune Claim</td>
<td>Willow Claims (Bell Property)</td>
<td>Wyandotte Mine</td>
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<td>Frying Pan Claims 1-16 (Frying Pan Group, Frying Pan Claims)</td>
<td>Silver King</td>
<td>Smuggler Mine, (Nos. 1 &amp; 2 Tunnels)</td>
<td>Tower Durant Tunnel and Dump</td>
<td>Unnamed Dump</td>
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<td>George Avery Ranch (George Avery Mine, Kathryn No. 2)</td>
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<td>Burrell 1, 2 and 3 (Last Day?)</td>
<td>Burrell 5</td>
<td>Butterfly Group (Butterfly No. 1)</td>
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<td>Columbine 1 - 4</td>
<td>Evening Star</td>
<td>Fawn Springs Group</td>
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<td>Iles Formation</td>
<td>Jerry Zochol (Red Doe Claim)</td>
<td>Last Day (Urin Mining Claim)</td>
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<td>Midnight Group (Midnight Mine, Naomi Ann</td>
<td>20 Rio Blanco</td>
<td>21 S &amp; G 4</td>
<td>22 Shylo Group (Brown 2, Brown 5)</td>
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<td>Stealy Claims (Guy Stealy Claims, TB</td>
<td>Twin Star 500</td>
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<td>Ute Group (Blue Dish Group)</td>
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<td>Dead Horse Claims</td>
<td>Dennis D. Claims</td>
<td>E. C. Ellis Property</td>
<td>Fair U Claims (Fish Creek Claims)</td>
<td>Marth Uranesch (Gilpin Falls No. 1 and 2)</td>
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<td>Twenty Mile Park</td>
<td>Willow Creek Claims</td>
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<td>Anna Claim</td>
<td>Apache No. 4</td>
<td>Barium Lode</td>
<td>Beginner's Luck Claim (Beginner's Luck 3)</td>
<td>Belle Lode (Balls Lode, Freeman Claims)</td>
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<td>Big Indian Group of Claims</td>
<td>Bob Cat</td>
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59
### ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

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<td>Bonita Nos. 1 &amp; 2 Claims (Bonita Claim, Bonita Group)</td>
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<td>AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Golden Rod</td>
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Alphabetical List of Occurrences by County

San Miguel

13 28, AEC Mining Lease (C-SR-13, DOE Lease Tract) (Hawkeye)
14 29*, AEC Mining Lease (C-SR-10, DOE Lease Tract) (Login
15 30, AEC Mining Lease (C-SR-13, DOE Lease Tract) [Middle
16 32, AEC Mining Lease (C-SR-13, DOE Lease Tract) (Middle
17 42, AEC Mining Lease (C-SR-13, DOE Lease Tract) (Dan)
18 43, AEC Mining Lease (C-SR-16, DOE Lease Tract) (Charles
19 44, AEC Mining Lease (C-SR-14, DOE Lease Tract) (Canyon
20 45, AEC Mining Lease (C-SR-16, C-SR-16A, DOE Lease Tracts)
21 46, AEC Mining Lease (C-SR-13A, DOE Lease Tract) (Georgetown
22 48, AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Neomie D.,
23 Ada Bell
24 Ajax Lease (Thomas, Richard; Robin 8, 9, 12; Susan 3 and 4)
25 Alchemist (Alchemist #1)
26 April (April 1-13, Rio Grande)
27 Ava Jay Group (Chinnesee, Four Fingers, Lost Dutchman,
28 Babe 1-4
29 Bachelor Mine (Bachelor #3)
30 Bald Eagle (Uran #1, Morning Glory, Keystone #1)
31 Bay Mule
32 Bean 2 and 3
33 Bean 4, 5 (Bean 4, Parker Lease)
34 Bean 6
35 Bean 8, 9 (North Slope #2 [E1/2])
36 Bean 10
37 Bean 15, 16, 17
38 Bean No. 1 (Radium No. 9) (Radium Group)
39 Bean Patch (Parker Lease, Bean Patch Incline 3 and 4)
40 Bear Creek
41 Belle
42 Bench
43 Betty Jane 2
44 Betty Ruth
45 Big Buck 1 (Little Buck, Jackie)
46 Big Chief (Mineral Survey #20580)
47 Big Chief (Spud Patch Group)
48 Big Gyp 1-8
49 Big Medicine
50 Big S
51 Black Fox (Upper Group Claims)(44, AEC Mining Lease)
52 Black Jack (Hot Rock)
53 Black King 5 (Weatherly)
54 Black Spider (Red Ant)
55 Blue Horse & Nancy
56 Blue Moon (Lucky #1, 2)
57 Bluebird (Radium Group)
58 Bluff (Mexico Group)
59 Bobtail
60 Breezy
61 Bratton & Norcott
62 Brown Mule
63 Buck Horn
64 Buckhorn (Lone Star 1 & 2, Canary Bird No. 1, Rim, Humming
65 Bugwine (Empire Group)
66 Bull Moose
67 Bull Snake No. 1 and No. 2 Claims
68 Burro Point
69 Burro Tunnel (Burro 1-10, Jack 1-5)
70 Butterfly
71 C-SR-10, DOE Lease Tract (1, AEC Mining Lease) [King No. 2,
72 C-SR-11, DOE Lease Tract (4, AEC Mining Lease) (Tomboy,
73 C-SR-12, DOE Lease Tract
74 C-SR-13, DOE Lease Tract (28, AEC Mining Lease) (Hawkeye)
75 C-SR-13A, DOE Lease Tract (12, AEC Mining Lease) (Veta Mad,
76 C-SR-14, DOE Lease Tract (21, AEC Mining Lease) (Sunsylde,
77 C-SR-14A, DOE Lease Tract (27, AEC Mining Lease) (Red Claim
78 C-SR-15, DOE Lease Tract (6, AEC Mining Lease) (Lower Group,
79 C-SR-16, DOE Lease Tract (43, AEC Mining Lease) (Nucleus,
80 C-SR-16A, DOE Lease Tract (5, AEC Mining Lease) (Pretty Boy
81 Canyon Group (Snyder Dunning Group)
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San Miguel
82 Canyon View
83 Cape Mairs
84 Cardinal No. 2
85 Carnation Mine (Carnation 1-5, St. Jude)
86 Charles T1 (8, AEC Mining Lease)(C-SR-16, DOE Lease Tract)
87 Charlotte 1
88 Chesta (Mexico Group)
89 Chief 1 & 3
90 Chile 5 (Old Mexico, New Mexico, Breezy)
91 Chinense (Ava Jay Group)
92 Chipmonk
93 Chipmunk
94 Chipmunk 1
95 Civet Cat Group (Vanadium Queen)
96 Clear Creek
97 Clear View
98 Clear View Claims (Horseshoe Group)
99 Cliff Dweller (Cliff Dweller Hall)
100 Colorado Cat
101 Cone 1-6
102 Cone No. 14
103 Cowhand 2
104 Crucible
105 Cub 1
106 Curtis
107 D.U. and Vanderualker Groups
108 Dalpaz
109 Deluxe & Master Deluxe
110 Deremo (Bigler Shaft, Pup No. 1, W. B. Snyder, Bigler,
112 Deremo Dumps
113 Deremo No. 2
114 Dickie 1 & 3 (Dickie Group)
115 Dolores River (Horseshoe Group)
116 Dolores Uranium (Monument Valley, Red Canyon, Deer, Bush
117 Donald Hill
118 Donegan Lease
119 Doss Claim Group
120 Dragon
121 Duncan (Mexico Group)
122 Durango and Las Animas
123 Early Morn Group
124 Fairview Lease
125 Eclipse
126 Edna Mae
127 Empire Group (Tunis, Libia, Sudan, Algiers, Bugwine,
128 Fair View
129 Falcon (Bob Ayla, Bob Incline)
130 Fall Creek Group
131 Faultless (Faultless Group, Blue Bird Fraction, Faultless
132 Federal
133 Fervanite
134 Firefly 3 (Firefly Mine)
135 Five Points (Five Points No. 1-3, 5, 6 and Oneta 2 & 3)
136 Florence (Radium Group)
137 Fort Knox Claims
138 Fox Group
139 Fraction
140 Fraction 1 (one)
141 France
142 Frances (Speed Patch Group)
143 Frazier (Vanadium No. 1-3, Belvedere)
144 Frazier Mine (Fall Creek Mine)
145 Frenchy 2
146 Fuji Property
147 Full Moon Group (Full Moon #4, Full Moon #7)
148 G M D 1 (Little Gyp Group)
149 Gap
150 Gelsinger

62
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San 151
Miguel 152

Gorald T.

Giant (Giant No. 2)
Glen 24 (Dowdy Lease)
GMG (GMG 4-7, 10-13; GMG South 6 & 7)
Goforth Homestead
Golden Eagle No. 14-16
Golden Rod 1
Golden Rod 2
Golden Rod 4
Gopher (Wedding Bell Group)
Governor Mine
Grass Flats (Philura Group)
Grassy Hill
Green Arrow
Ground Hog
Ground Hog Dump
Grub Stake
Gypsum Homestead (Big Gyp Homestead)
Gypsum Valley Claims
Hacket
Halloween
Hangover (Hangover No. 3)
Happy Jack (Gypsy Rose)
Hawk - Frankie
Haymaker - Sunset (Sunset, Susan H.)
Hazel (Hazel #3, 4, and 5)
Hogback
Horseshoe 1
Horseshoe 2
Horseshoe 3
Horseshoe 4
Horseshoe 5
Horseshoe 6
Horseshoe 7
Horseshoe Bend 1
Hot Drill 11
Hot Shot
Hot Spot
Hoyman Lease (Gravy Claims, West Group)
I.V.
Independence (Lower Group)
Inspiration 1 (Lost Group)
Inspiration 15
J V Eavenson Lease
J.J.Z.
Jack Knife (Jack Knife No. 1, Wedding Bell Group)
Jack Knife No. 3 (Wedding Bell Group)
Jack-o-lantern
Jackie L
Jackie Walls 3
Jackknife 3 East E
Jackknife 3 West W
Jackknife No. 2
Jackpot Group (Long Ridge Group, Jackpot No. 1-3)
Jim 2
Joe Dandy Group (Edward, Wesley, Lone Wolf)
Jungle Basin
Jupiter
Kate Meyers
Katie
Keystone
Klondike (Lower Group)
La Salle
Lara's Pengent
Larimer Street
Last Chance
Last Chance
Last Hope
**ALPHABETICAL LIST OF OCCURRENCES BY COUNTY**

San Miguel

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<td>Lee C</td>
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64
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San Miguel

288 Mystery (Mulchoc Group)
289 National
290 Navajo
291 Navejo
292 Neillie Gray
293 New Deal
294 New Discovery (Barbara Jo Claim, White Spur)
295 Nigger Head (Radium Group)
296 Norma Jean No. 1 & 2
297 North Continent Mill (C-SR-13, DOE Lease Tract)
298 North Slope 2
299 Northern 5 & 6
300 Northern Light
301 Old Mexico
302 Omega
303 Owensby
304 Painted Rock
305 Parrot Group
306 Payday
307 Paystreak No. 3
308 Peanut Group (Mines)
309 Pecas No. 1
310 Penigal
311 Penju
312 Phillips 66 1 (one)
313 Phliura Group
314 Pine Bug (Legin Group, Pine Berg)
315 Pinto #1
316 Pioneer
317 Pitchfork
318 Pointed Rock
319 Polaris 1
320 Pond
321 Pour Off
322 Prospectors Fortune Group
323 Queen of Spades
324 R. L. Duncan Mining Property
325 Radar, Early Morning
326 Radio
327 Radium
328 Radium 1 (one)
329 Radium 3
330 Radium 4
331 Radium 5 & 6
332 Radium 6
333 Radium 7
334 Radium 8
335 Radium 9, 10 & 11
336 Radium 12
337 Radium 19
338 Radium 22
339 Radium 24
340 Radium 25
341 Radium 26 & 27
342 Radium GP (Blackbird)
343 Radium Hills
344 Radium No. 29
345 Rainy Day
346 Rainy Day
347 Rambler
348 Rambler
349 Rat Hole
350 Rattlesnake 2
351 Rattlesnake 2
352 Red Ant
353 Red Horse
354 Red Rock 4
355 Red Rock 5
356 Red Snake

65
ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San Miguel
357 Red Top 1 (Horseshoe Group)
358 Red Top 2
359 Red Wing
360 Retribution
361 Rex Claim
362 Rim (Buckhorn, et al)
363 Riverview
364 Robert M
365 Roberta Jean
366 Rosa L
367 Rose June
368 Roy Lee
369 S. B. Group
370 Sage II
371 Saint Jude
372 San Miguel (Radium Group)
373 Santa Maria (Charles T and Golden Rod Group)
374 Sarah Ellen (Muleshoe Group)
375 Sarah Jane
376 Sarah M. (Muleshoe Group, Mystery Group)
377 Schlee (Golden Rod Group)
378 Sibley
379 Silver Chief
380 Single Jack
381 Slick Rim
382 Slick Rock Mill
383 Snyder (Snyder and Peterson)
384 Spring
385 Spud Patch
386 Star
387 Start
388 State Line
389 Strawberry Roan
390 Summit Incline 1 (Summit No. 21)
391 Suncup (Puckett)
392 Sunday Group
393 Sundown
394 Sundown Group
395 Sunnyside
396 Sunrise
397 Sunrise 1 (ona)
398 Sunrise 3, 4 and 5
399 Sunrise and Patented Land
400 Sunshine 6
401 Tailhoit
402 Texas Chief 1
403 Tiny
404 Topaz Group
405 Two Da•
406 Uintah
407 Uintah 2 Lode
408 Uncle Sam 1
409 Uncle Sam 2
410 Valley View
411 Van
412 Vanadium 7
413 Vanadium (Middle Group)
414 Vanadium Queen
415 Vanura Claims
416 Veta Med Mine
417 Victor
418 Victor 2
419 Virginia
420 Wally (Wally 1, Double Jack, Double Buck)
421 Weatherly Claims (Evans Claims, Black King No. 5)
422 Wedding Bell Group (Ground Hog Claims)
423 White Star and Black King Claims
424 Wilson
### Alphabetic List of Occurrences by County

<table>
<thead>
<tr>
<th>County</th>
<th>Occurrences</th>
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<tr>
<td>San Miguel</td>
<td>Windswept, Windy Day (Bell), Wyoming, Yellow Girl, Yellow Girl (Lower Group), Yellowbird (Radium), Yorkton, Zebra Claims AN (Yellow Jacket, D. Hattie Claims)</td>
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<tr>
<td>Summit</td>
<td>Como Claims, Loveland Pass, Unnamed No. 1, April Nos. 2, 6, 8, Carl Claim No. 1, Curtis, Thorpe &amp; Green Lease (Tree No. 3), Fluorine Mine, Genevieve Lode (Phonolite Mountain), High Park Prospect, Hilda May Claim No. 3, Lady Stith Claim (Globe Hill Group), McVey Lease, Rhyolite Mountain, School Section (Park City No. 1), Summit Claims; (Dandy Dollar; McDonough; Breen Extension), SWQ NEQ SEC. 36</td>
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<tr>
<td>Teller</td>
<td>Eastman Basin, Grover Deposit, Indian Creek, King Solomon, Pawnee Buttes N.E., Unnamed No. 1, Unnamed No. 2, Unnamed No. 3, Unnamed No. 4, Unnamed No. 5, Unnamed No. 6, Unnamed No. 7, Unnamed No. 8, Unnamed No. 9, Unnamed No. 10, Unnamed No. 11, Unnamed No. 12, Unnamed No. 13, Unnamed No. 14, Unnamed No. 15, Unnamed No. 16, Unnamed No. 17, Unnamed No. 18, Unnamed No. 19, Unnamed No. 20, Unnamed No. 21, Unnamed No. 22, Unnamed No. 23, Unnamed No. 24, Unnamed No. 25, Unnamed No. 26, Unnamed No. 27, Unnamed No. 28, Unnamed No. 29, Unnamed No. 30, Wildhorse</td>
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67
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Occurrences
ADAMS COUNTY

There has been no production of uranium from Adams County, nor are any occurrences noted in the county.

The county is mostly covered by Quaternary alluvium, with the Cretaceous Laramie and Fox Hills Formations cropping out in the eastern part of the county. The potential for uranium resources to be found in the county is small. The Laramie and Fox Hills do contain uranium ore bodies farther north in Weld County, and the possibility exists that these formations might contain sandstone-type uranium occurrences similar to those in Weld County.
ALAMOSA COUNTY

No occurrences of uranium have been reported in the county.

Almost the entire county is underlain by the late Tertiary Alamosa Formation, which consists of unconsolidated gravels, sands and silts. A small part of eastern Alamosa County consists of Precambrian gneisses and granitic rocks. The county lies astride the San Luis Valley Graben, which is filled with many thousands of feet of gravels and sands similar to the Alamosa Formation.

The potential for occurrences in the county is small. The San Luis Valley sediments show the greatest potential for uranium mineralization, most probably in the form of sandstone-type occurrences.
ARAPAHOE COUNTY

No uranium occurrences have been reported in Arapahoe County. The geology of the county is relatively simple. Quaternary sands and gravels cover the western part of the county, and the Cretaceous Laramie and Fox Hills Formations crop out along the eastern edge. These formations contain uranium in Weld County, and the same type of occurrence may be found in Arapahoe County. However, the potential for resources is small.
Although no production is reported from Archuleta County, one occurrence has been recorded. Archuleta County, located in the southwestern part of the state, is dominated by sedimentary rocks ranging from Pennsylvanian in the northwestern corner to Quaternary in the eastern part of the county. Three major structures dominate the county: the northwest-trending San Juan Basin in the southwest, the Archuleta Anticlinorium paralleling the San Juan Basin in the southwest, and the Chama Basin, which in turn parallels the Archuleta Anticlinorium.

No uranium production has taken place in the county, but some exploration and underground work was carried out on the Sunetha Claim Group (Sunetha Anticline). This is the only known uranium prospect in the county and is located on the Sunetha Anticline southwest of Pagosa Springs. The host for the deposit is reported to be the Jurassic Morrison Formation.

Potential for additional uranium resources in the county is small. Areas in the county that may be favorable for such resources include the northwestern section where sandstone-type occurrences may be found in the exposed Jurassic Morrison Formation.
ARCHULETA COUNTY

Sunetha Claim Group (Sunetha Anticline)

LOCATION: sec. 34, T. 35 N., R. 2 W.
LCRM The CRIB file lists this location as sec. 21, 28, T. 38 N., R. 2 W.
QUAD Pagosa Junction 15'
MAP DURANGO
DVEL Exploration and some underground work has been carried out.
HOST The deposit occurs in beds of the Jurassic Morrison Formation.
MINZ Uranium and vanadium mineralization were detected, and carnite was identified.
RMKS The CRIB reference shows this as being in Archuleta County; however, the location falls in Mineral County. Also there are Tertiary volcanics at the CRIB location and no Morrison Formation.
DOI 1975
No production of uranium and no uranium occurrences have been reported from Baca County.

The rocks exposed in Baca County are primarily of sedimentary origin, ranging in age from Permian to Quaternary. Although the surface geology of the county is largely dominated by unconsolidated Quaternary and Tertiary sediments, some Tertiary dikes and lava flows occur in the southwest. Most of the formations are flat-lying, but small monoclines and anticlines do occur.

Uranium resource potential is limited in the county. Water sampling in the central Great Plains, however, has shown some increase of uranium from the waters in certain parts of the county. Analyses in the county from wells, streams, and springs range from less than 1 ppb to 35 ppb, with most samples ranging between 2 and 20 ppb. Values of the water samples increase near the northwest part of the county on the flank of the Las Animas Arch near Two Butte Creek and Hackberry Creek.

The most favorable formation for uranium resources in the county is the Triassic Dockum Group, which is exposed along Two Butte Creek and in the southwestern part of the county. In the past, minor gold, silver, and copper were mined from the Jurassic Entrada Sandstone, and it may also warrant further investigation for uranium occurrences.
BENT COUNTY

No uranium production has been recorded from this county. Bent County is located in the southeastern part of the state and is underlain by sedimentary rocks ranging in age from Jurassic to Tertiary. The majority of those rocks are the Lower Cretaceous Dakota Sandstone and the Upper Cretaceous Colorado Group. Surficially, the county is dominated by the flood-plain deposits of the Arkansas River.

Although no uranium production has come from the county, several uranium occurrences are known. Probably the most important of these is the Allen Jones Property, which is an old copper prospect in the Jurassic Morrison Formation.

Uranium occurrences are known in the area south of the Arkansas River and in the southwestern part of the county. These are found in facies of the Dakota Sandstone and the Morrison Formation. These formations are also favorable for further discoveries of uranium. Due to the low topography in the county, much exploration is done by sampling wells, springs, and streams. Water sampling done by the U.S. Geological Survey showed higher than average uranium values in the Rule Creek drainage basin, especially in those areas draining the Cheyenne Sandstone Member of the Purgatoire Formation. The highest values come from samples taken on the north flank of the Las Animas Arch. Water from the Ogallala Formation north of the Arkansas River also shows high uranium values, and may warrant further study.
EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE

- 7 OCCURRENCE NUMBER FROM TEXT

Base from U.S.G.S.

Figure 9. Radioactive mineral occurrences in Bent County, Colorado.
Allen Jones Property

LOCATION: sec. 32, T. 27 S., R. 51 W.
QUAD Ninaview 7 1/2
DVEL This is an old copper prospect with a pit. There was also some shallow core drilling carried out. Some copper production occurred in the past, but the mine is not now operational.
BKG .16 mr/hr
RNG .01 to .1% eU
HOST The host is upper Jurassic Morrison Formation. The mineralized horizon is a fine- to medium-grained sandstone member about ten ft thick, underlain by gray shale.
MNZ Probable secondary copper minerals and iron minerals are present. A possible uranium mineral could not be identified. Sample values are as follows: grab sample sandstone - .01 eU estimated; grab selected sandstone - .1 to .3% eU estimated; grab selected sandstone - .01 to .05% estimated; grab selected sandstone - .01% eU estimated (represents approximately 80% to 90% of deposit); grab high grade sample - 1% eU.
DOI 1954

G. R. Acton Property

LOCATION: sec. 31, T. 27 S., R. 52 W.
LCRM Three miles west of Ninaview store.
DVEL There is one prospect pit which is now caved in.
BKG .015 mr/hr
RNG To .028 mr/hr
HOST The host is the Jurassic Morrison Formation and primarily the greenish gray shales near the top of the formation.
ALT Calcium carbonate and iron oxide are present.
MNZ A grab sample of silicified bone registered .01% estimated eU.
RMKS Bone fragments (1 x 1 1/2 ft) contain the mineralization.
DOI 1954

Unknown No. 1

LOCATION: NW1/4SW1/4 sec. 5, T. 23 S., R. 49 W.
LCRM On small scarp on north side of Arkansas River basin just east of John Martin Dam spillway; about 15 yds left of road; FRR location in error.
QUAD Hasty
BKG .008 mr/hr
RNG .032 mr/hr
HOST The host is Cretaceous Dakota Sandstone (?) with a black, carbonaceous shale lens 3 in to 2 ft thick.
MNZ Chip sample up to 4 x b.g.
DOI 1954
BOULDER COUNTY

As of 1971, 22,127 tons containing 188,648 lb of U₃O₈ had been mined in Boulder County, making it one of the major uranium-producing counties in the state. The potential for more reserves to be found in the county is quite favorable.

The county is divided into two different geologic terranes. The eastern part of the county is underlain by sedimentary rocks, ranging from Pennsylvanian to Quaternary in age. The strata are flat-lying except near the mountain front where they are upturned to the east. West of the mountain front the Precambrian metamorphic rocks are most abundant rock type. They are cut by numerous northwest-southeast trending faults or breccia systems. They are also the hosts for the uranium producers. The most important producers in the county were the Fairday Mine and the Victory Mine.

Both of these mines lie in the Jamestown mining district, which produced gold, silver, and fluorite. The Fairday produced 20,934 tons containing 182,679 lb of U₃O₈, and the Victory produced 595 tons containing 1,908 lb of U₃O₈. Both mines produced uranium from Tertiary veins within Precambrian metamorphics and Tertiary intrusives. The uraninite was associated with the primary precious-metal minerals and found in a number of mines. The one exception was the Fairday Mine where only pyrite and quartz were associated with the uraninite.

There is moderate potential for reserves to be found in the county. Vein-type deposits in the crystalline rocks of the Front Range have the most potential for future reserves in the county. The soda granite on Porphyry Mountain north of Jamestown is an example of alkaline rocks that are being studied as possible hosts for uranium. For further information see Murphy, M., and others, 1978, U.S. Department of Energy GJBX-(78)78, 183 p.
Boulder County

Argo
LOCATION: sec. 13, T. 2 N., R. 73 W.
LCRM Occurrence noted in reference as being on south central edge of the section.
QUAD Raymond 7 1/4
MAP GREELEY
DVEL This is a fluorite mine with extensive underground workings.
PROD There has been no production of uranium.
HOST Host is a vein in the Precambrian Silver Plume Granite.
ALT The granite is sericitized and brecciated.
MNZ Uranium, fluorite, gold, clay minerals abundant, galena, sphalerite, pyrite, quartz.
DOI 1972

Bat Claim No. 1 (Corona Mine)
LOCATION: NW1/4NE1/4 sec. 14, T. 3 N., R. 71 W.
MAP GREELEY
DVEL The Corona Mine was a copper producer prior to 1900.
MNZ A selected sample had a value of 0.282% U3O8.
DOI 1974

Bell Group
LOCATION: sec. 1, T. 1 N., R. 71 W.
LCRM Poorman Hill.
MAP GREELEY
HOST Poorman dike (fault zone) in Precambrian Boulder Creek Granite.
STRC Veins cut fractures in the Poorman fault zone which is 20 to 60 ft wide.
ALT Silicified.
MNZ Gold - silver tellurides. Samples range from 0.0006 to 0.041 U3O8.
DOI 1950

Black Cloud
LOCATION: sec. 12, T. 1 N., R. 72 W.
LCRM 2 3/4 miles southeast by road from Gold Hill Village.
MAP GREELEY
DVEL Property is a gold silver mine.
HOST Precambrian Boulder Creek Granite with pegmatites.
STRC Three ft wide shear zone striking N60°E and dipping 75°NW.
MNZ Gold, pyrite, galena, shalerite. Channel sample had a value of 17% U3O8.
DOI 1950

Blue Jay (Mill Tailings)
LOCATION: sec. 30, T. 2 N., R. 71 W.
LCRM Mine is in center of section in McCorkle Gulch, 3,000 ft S20°E of Jamestown.

Brown Spar
LOCATION: NW1/4SW1/4NE1/4 sec. 24, T. 2 N., R. 72 W.
QUAD Raymond 7 1/2
MAP GREELEY
DVEL A past producer of fluorite.
HOST Vein.
MNZ Fluorite, galena, pyrite, uranium.
DOI 1974

Burlington
LOCATION: NE1/4NE1/4 sec. 24, T. 2 N., R. 72 W.
QUAD Raymond 7 1/2
MAP GREELEY
DVEL A past producing fluorite mine.
HOST Tertiary vein in (Precambrian?) granite.
STRC Breccia zone strikes N50°E and dips nearly vertical.
MNZ Fluorite, galena, pyrite, quartz, clay minerals, uraninite?
DOI 1974

Caribou Mines (Radium, Elmer and Nelson Veins)
LOCATION: sec. 8, T. 1 S., R. 73 W.
QUAD Nederland 7 1/2
MAP GREELEY
DVEL The mine is a past producer of gold and silver. No production of uranium noted.
HOST Vein in Precambrian metamorphic and igneous rocks and Tertiary monzonite.
MNZ Uranium content of samples range from 0.001% to 1.45% U. Vein has a quartz, carbonate gangue and ore minerals of silver, galena, pyrite, sphalerite and some uraninite. Pitchblende was produced from the radium vein only. All other veins were noted for only Pb-Ag ore.
RMKS These veins are exposed in the 920 and 1,040 levels of the mine.


Cerite Prospect

LOCATION: NE1/4 sec. 17, T. 2 N., R. 71 W.
MAP GREELEY
HOST Precambrian gneiss and schist.
STRG Vein strikes N30°E and is 1 to 2 ft thick.
ALT Wall rock altered to clay.
MNZ Cerite.

Cloud City (Virginia, Bob, Marilyn)

LOCATION: sec. 29, T. 1 N., R. 71 W.
QUAD Boulder 7 1/2'
MAP GREELEY
HOST Unnamed Precambrian granite.
MNZ Pitchblende or uraninite and scattered sulfides.
DOI 1971

Copper Blush

LOCATION: sec. 17, T. 2 N., R. 71 W.
MAP GREELEY
DVEL An inactive mine with extensive workings.
HOST Tertiary vein in Precambrian Silver Plume Granite.
MNZ Fluorite, pyrite, chalcopyrite, quartz, chalcedony.
DOI 1973

Diamond Group

LOCATION: sec. 34, T. 2 N., R. 71 W.
MAP GREELEY
DVEL Two test pits.
BKG .02 mr/hr
RNG .02 to 4 mr/hr
HOST Precambrian orthogneiss and Boulder Creek Granite.
STRG Vertical shear zone striking N50°W.
MNZ Uranophane.
DOI 1956

Emmet

LOCATION: W1/2NE1/4NE1/4 sec. 24, T. 2 N., R. 72 W.
QUAD Raymond 7 1/2'
MAP GREELEY
DVEL An inactive producer of fluorite. No production of uranium reported.
HOST Tertiary vein in Precambrian Silver Plume Granite.
STRG Vein follows or is part of a breccia zone.

MNZ A high grade fluorite vein with pyrite, galena, chalcopyrite, quartz, chalcedony and minor uraninite, and torbernite.
DOI 1974

Energy

LOCATION: sec. 19, T. 2 N., R. 72 W.
MAP GREELEY
DVEL Pits and trenches.
HOST Vein in (Cretaceous?) granodiorite.
MNZ Fluorite, pyrite, quartz, uraninite?.
DOI 1973

Fairday (Faraday, Colowoa, Overland Mountain Group)

LOCATION: NW1/4SE1/4SW1/4 sec. 23, T. 2 N., R. 72 W.
LORM About 2 miles west of Jamestown.
QUAD Gold Hill 7 1/2(?)
MAP GREELEY
DVEL Adit shown on map.
PROD Prior to 1971, 20,934 tons were mined at a grade of 0.44% U3O8, containing 182,679 lbs of U3O8.
HOST Precambrian Silver Plume Granite and graphic biotite gneiss.
MNZ Uraninite, coffinite, pyrite, galena, quartz.
RMKS Mr. Cazier reported this mine was once owned by the La Salle Mining Co.
DOI 1971

Fox Hills Outcrop

LOCATION: sec. 15, T. 1 S., R. 71 W.
MAP DENVER
DVEL Inactive coal mining district.
BKG .03 - .04 mr/hr
RNG .1 - .25 mr/hr
HOST Cretaceous Fox Hills Sandstone.
MNZ Abundant ilmenite.
DOI 1953

Gibson

LOCATION: sec. 12, T. 2 N., R. 72 W.
MAP GREELEY
DVEL No production reported.
MNZ Uranium.
DOI 1973

Gold Lake Claims
Golden Age

LOCATION: NE1/4 sec. 20, T. 2 N., R. 71 W.  
LCRM 4 miles NE of Ward. Also in the NE1/4NW1/4 sec. 3, T. 1 N., R. 72 W.; and sec. 237, T. 2 N., R. 72 W.  
MAP GREELEY  
DVEL One shaft.  
PROD Grade reported 0.03% to 0.15% and up to 0.5% U3O8.  
HOST Pegmatites intruded in biotite schist of Precambrian Idaho Springs Formation.  
STRC In or near a shear zone in Precambrian Boulder Creek Granite.  
MNZ Uraninite with uranophane. Channel samples had values of 0.15% to 0.73% U3O8.  
DOI 1971  

Goldsmith Maid

LOCATION: sec. 13, T. 1 N., R. 72 W.  
LCRM West of Boulder on Colorado 119, 1/4 mile west of Summerville.  
MAP GREELEY  
DVEL One tunnel 130 ft in length and one shaft 50 ft deep.  
PROD  
RG .03 to .1 Mr/hr  
HOST Precambrian Boulder Creek granite.  
STRC Brecciation or a breccia reef.  
ALT Argillized, chloritized, and pyritized.  
MNZ Sooty pitchblende, pyrite, quartz, galena, sphalerite, tobernite. Chip sample had a value of 0.3% U.  
RMKS Cemented breccia contains small pods of sulfides about 1/2 in. in diameter. All radioactivity is in hanging wall of vein.  
DOI 1953  
Ladybug Claim (Suzebell, Thunderbolt)

**LOCATION:** sec. 20, T. 2 N., R. 71 W.

**LCRM** Mine is on Gold Age Hill 1.8 miles northeast of Peaceful Valley Road. U.S. A.E.C. Production Records show this location as sec. 20, T. 2 N., R. 70 W.

**MAP** GREELEY

**DVEL** Shaft.

**PROD** In 1956 and 1966, a total of 47 tons averaging 0.25% U3O8 and containing 219 lbs U3O8 were mined.

**BKG** .05 mr/hr

**RNG** .05 to 5 mr/hr

**HOST** Precambrian schist in Silver Plume Granite.

**STRC** Mineralization seems to parallel near vertical schistosity, striking N50°E.

**MNZ** Uranium.

**DOI** 1973

**RMKS** Secondary uranium minerals were found along joint planes in both lithologies.

**Lucky Lode**

**LOCATION:** sec. 20, T. 2 N., R. 71 W.

**MAP** GREELEY

**DVEL** No production reported.

**MNZ** Uranium.

**DOI** 1973


**Lease Tailings Pond (Stettendale Dump)**

**LOCATION:** sec. 36, T. 1 N., R. 71 W.

**LCRM** Slag and tailings dump in city of Boulder, 200 ft west of intersection of 3rd Street and Walnut Street.

**MAP** GREELEY

**DVEL** No production reported. Work consists of 67 ft adit.

**HOS1** Vein.

**MNZ** Uranium.

**DOI** 1973


**Lehman Lode**

**LOCATION:** sec. 19, T. 2 N., R. 71 W.

**MAP** GREELEY

**DVEL** No production reported. Work consists of 67 ft adit.

**HOS1** Vein.

**MNZ** Uranium.

**DOI** 1973


**Lewis Lode**

**LOCATION:** sec. 20, T. 2 N., R. 71 W.

**LCRM** Top of Golden Age Hill near Golden Age Mine.

**MAP** GREELEY

**DVEL** An inactive gold mining area.

**BKG** .03 mr/hr

**RNG** .03 to 1 mr/hr

**HOST** Tertiary granite with schist pendants of the Precambrian Idaho Springs Formation.

**Marc 1**

**LOCATION:** SW1/4 sec. 24, T. 2 N., R. 72 W.

**LCRM** Also reported in sec. 13.

**MAP** GREELEY

**DVEL** Prospect tunnel and pits. No production reported.

**BKG** .03 to .05 mr/hr

**RNG** .05 to 1 mr/hr

**HOST** Tertiary granite.

**MNZ** Torbernite, pyrite, bournonite, molybdenite.

**RMKS** Uranium mineralization occurs in talus on hillside. Source has not been determined.

**DOI** 1954


**Marion Mill**

**LOCATION:** sec. 29, T. 1 N., R. 71 W.
Boulder County

Miller Lease (Miller Group, Kipp Property)

LOCATION: sec. 12, T. 2 N., R. 72 W.
LCRM Assumed to be the Miller Group which is reported in the USGS CRIB File.
MAP GREELEY
PROD In 1955, 5 tons were mined at a grade of 0.40% U₃O₈, producing 39 lbs of U₃O₈.
HOST Vein in the Precambrian Idaho Springs Formation. Granite is also reported as a host.
RMKS Au-toruite.
DOI 1971

Miranda A. Johnson Lode

LOCATION: NW1/4 sec. 18, T. 2 N., R. 71 W.
MAP GREELEY
DVEL Small workings with no production reported.
BKG .03 mr/hr
RNG .03 to .5 mr/hr
HOST Precambrian Silver Plume granite with pegmatite.
STRC Fracture surfaces.
ALT Clay minerals.
MNZ Meta-autunite. Grab sample of altered granite had a value of 0.055% U₃O₈.
DOI 1955

Mountain Goat (Mountain Goat Claim No. 1)

LOCATION: NW1/4NW1/4 sec. 2, T. 1 S., R. 74 W.
LCRM On Middle Fork of North Boulder Creek.
QUAD East Portal 7 1/2' DENVFR
PROD In 1956, 4 tons were mined at a grade of 0.11% U₃O₈, producing 8 lbs of U₃O₈.
BKG .02 mr/hr
RNG .02 to 1.0 mr/hr
HOST The host is Precambrian Boulder Creek Granite and Idaho Springs Formation, with pegmatite. The radioactivity is associated with coarse-grained bixoitite in pegmatites and on joints and fractures in a hornblende gneiss.
STRC Fractures and joints helped control ore emplacement.
MNZ Autunite, molybdenite, fluorite, chalcopyrite, and specular hematite are all present. Sample had a value of 0.01 to 0.2% eU₃O₈.
DOI 1954

Nations treasure

LOCATION: sec. 24, T. 2 N., R. 72 W.
MAP GREELEY
PROD No production reported.
HOST Vein in Precambrian Silver Plume granite.
MNZ Torbernite, pyrite, fluorite, galena, quartz, chlorite, clay minerals, chalcedony.
DOI 1975

No Soopi Claim

LOCATION: sec. 20, T. 2 N., R. 72 W.
LCRM From Jamestown, drive 5/8 mile west along Jamestown road. Claim is 1,500 ft south of road.
MAP GREELEY
PROD No production reported.
BKG .04 mr/hr
RNG .7 to 5 mr/hr
HOST Tertiary granite (Monzonite?).
STRC Breccia zone?
ALT Silicification.
MNZ Dark quartz, fine-grained pyrite. An 0.8 ft channel sample had a value of 0.16% U₃O₈.
DOI 1954

North St. Vanadium Uranium

LOCATION: T. 3 N., R. 71 W.
LCST UNKNOWN
MAP GREELEY
MNZ Uranium.
DOI 1975

Orion

LOCATION: sec. 24, T. 2 N., R. 72 W.
MAP GREELEY
PROD No production reported.
HOST Vein in (Cretaceous?) granodiorite.
MNZ Uranium, fluorite, quartz.
DOI 1973

Poorman

LOCATION: NW1/4 sec. 30, T. 2 N., R. 71 W.
LCRM On a low flat ridge 1,200 ft S35°W of Jamestown at an elevation of 7,200 ft.
MAP GREELEY
DVEL No production reported.
HOST Vein in (Cretaceous?) granodiorite.
STRC Vein strikes N25°W and dips 80°NE, width is 2 to 3 ft.
MNZ Uranium, fluorite, gold, galena, pyrite, quartz, carbonate minerals, clay minerals, biotite.

85
Pueblo Belle Mine

LOCATION: SE1/4NW1/4 sec. 31, T. 1 N., R. 71 W.
LCRM Along Black Tiger Gulch.
QUAD Gold Hills 7 1/2'
MAP GREELEY
PROD No production reported.
HOST Vein in Precambrian Boulder Creek Granite.
ALT Wall rock is reported as being altered.
MNZ Iron, ferberite, gold, uranium, quartz, pyrite.
Channel sample 0.008% U3O8 and grab sample - 0.017% U3O8.
DOI 1950

Rose Mary

LOCATION: sec. 4, T. 3 N., R. 70 W.
QUAD Hygiene 7 1/2'
MAP GREELEY
BKG .04 mr/hr
RNG .04 to 17 mr/hr
HOST Cretaceous Dakota Sandstone, conglomerate at base of formation.
STRC Mineralization is in overturned limb of isoclinal fold in and adjacent to small slits.
MNZ Sooty minerals (pitchblende) and limonite. Grab sample had a value of 0.13% U, a one ft channel sample had a value of 0.009% U.
DOI 1954

Terror-Roseberry

LOCATION: sec. 21, T. 1 S., R. 73 W.
MAP DENVER
DVEL 200 ft shaft with 700 ft of drifting.
MNZ Uranium, pyrite, telluride.
DOI 1973

Unknown 1

LOCATION: sec. 7, T. 1 N., R. 71 W.
LCRM Sec. 8 also listed in reference.
MAP GREELEY
PROD No production reported.
HOST Precambrian Boulder Creek Granite.
MNZ Uranium.
DOI 1973

Unknown 2

LOCATION: sec. 18, T. 1 N., R. 71 W.
LCRM Locations 22 and 41 in figure 2 of Campbell, R. H., 1955, USGS TBM 563-A.
MAP GREELEY
DVEL Two mines.
HOST Vein in Precambrian Boulder Creek Granite.
DOI 1973
Boulder County

Unknown 3

LOCATION: sec. 17, T. 1 N., R. 71 W.
LCRM Locations 24 and 49 in figure 2 in Campbell, R. H., 1955, USGS TEM 563-A.
MAP GREELEY
HOST Vein in Precambrian Boulder Creek Granite.
MNZ Uranium.
DOI 1973

Unknown 4

LOCATION: sec. 12, T. 1 N., R. 72 W.
LCRM This is locality 36 in figure 2 of Campbell, R. H., 1955, USGS TEM 563-A.
MAP GREELEY
PROD No production reported.
HOST Vein in Precambrian Boulder Creek Granite.
MNZ Uranium.
DOI 1973

Unknown 5

LOCATION: sec. 13, T. 1 N., R. 73 W.
LCRM Location 87 in figure 2 of Campbell, R. H., 1955.
MAP GREELEY
PROD No production reported.
HOST Vein in Precambrian Boulder Creek granite.
MNZ Uranium.
DOI 1973

Victory

LOCATION: NE1/4 sec. 30, T. 2 N., R. 71 W.
LCRM About 1/2 mile east of Jamestown on southwest slope of Golden Age hill, also includes SE1/4 sec. 19.
QUAL Boulder 7 1/21
MAP GREELEY
PROD In 1955 and 1956, a total of 595 tons were mined at a grade of 0.16% U3O8, producing 1,908 lbs of U3O8.
HOST Veins in a late Tertiary intrusive.
MNZ Uranium, copper, uranium.
DOI 1971
CHAFFEE COUNTY

AEC records show no production of uranium from Chaffee County. Potential for reserves to be found within the county is small.

Chaffee County is situated in the central part of the state. The Arkansas River flows south through the east-central part of the county. Sedimentary rocks of Cambrian to Permian age and Precambrian granites cover the quarter of the county east of the alluvial valley of the Arkansas River. Precambrian gneisses and schists dominate the northwestern, southwestern, and southeastern areas. Later Tertiary (primarily Miocene) extrusives are often found associated with these early Tertiary intrusives. Several base- and precious-metal mining districts are located in the mountainous areas.

Uranium is found in a number of mines in the metal mining districts of the county, but all of the mine production was base- and precious-metals or other products, with none for uranium.

The largest concentrations of radioactive occurrences are located in mines and prospects east of the Arkansas River. Most of the occurrences are clustered in T 14 S, R 77 W (near the Free Gold and Trout Creek districts) and in the Calumet district.

There is some potential for reserves of uranium to be found in the county. The area with the greatest potential for new uranium reserves is the Monarch mining district. Although that part of the district within Chaffee County has had no uranium production, the portions within Gunnison and Saguache Counties have reported some, with new production about to begin. Such basic structures as the Chester Fault, which extends into Chaffee County, may contain mineralization. Any additional areas within the county where Precambrian complexes are intruded by the varied Tertiary intrusives provide favorable areas for prospecting for vein-type uranium deposits.
Clara May Pegmatite Quarry

LOCATION: NE1/4 sec. 11, T. 14 S., R. 77 W.
LCRM "South side of Colorado 285. The quarry is five miles west of Trout Creek Pass."
QUAD Antero Reservoir 15'
MAP PUEBLO
DVEL Feldspar has been produced from open cuts. One cut measures 100 x 40 x 30 ft.
HOST The host is Precambrian Pikes Peak Granite, intruded by pegmatites, and locally cored by Precambrian volcanics and cut by Tertiary dikes.
STRC The pegmatite strikes N85°E., is relatively flat lying, and measures 175 x 70 x 30 ft.
MNZ Euxenite and allamite have been found in highly radioactive pods in the pegmatite. Bismutite and bismutinite are present in the quartz-feldspar, zoned pegmatite, along with garnet and rare earths.
DOI 1953

Cosmo Claims No. 1 and 2

LOCATION: T. 14 S., R. 77 W.
LCST UNLOCATABLE
LCRM The claims are about 10 miles S87°E from Buena Vista.
QUAD Antero Reservoir 15'
MAP PUEBLO
DVEL There are several small prospect pits.
BKGI 15 mr/hr
RNG 2.8 to 3.8 mr/hr
HOST The occurrence is in pegmatites cutting Precambrian granite.
STRC The radioactive zone trends due north for 1,500 ft and is 30 to 40 ft wide.
MNZ The radioactive minerals (not identifiable megascopically) occur as fracture coatings and disseminations in pegmatitic granites. Assays had values of 0.041% to 0.060% U3O8, and 0.034% to 0.040% U3O8.
DOI 1951

Gold Bug Claim

LOCATION: sec. 21, T. 51 N., R. 9 E.
LCRM The claim is 1/2 mile northeast of Turret on the south side of the truck trail.
QUAD Cameron Mountain 15'
MAP PUEBLO
DVEL The Gold Bug shaft was reportedly sunk to a depth of 500 ft. It was originally developed as a gold mine. The underground workings are now caved and abandoned.
BKGI 60 cps
RNG 300 to 950 cps
HOST The shaft is sunk in Precambrian granite.
MNZ Mineralization is in narrow veins of quartz with scant gold-bearing pyrite and limonite. The veins strike N80°W and dip 76°N. A grab sample from the dump shows 0.46% eU, 0.28% U and 0.05% V2O5. Several other samples assay between 0.002 and 0.012% U3O8. However, the radioactivity was found in only a small area of the dump. The anomaly could not be located in 1977.
DOI 1952

Josephine Mine

LOCATION: SW1/4 sec. 35, T. 12 S., R. 79 W.
LCST UNCERTAIN
LCRM "The mine is ten miles north of Buena Vista on U.S. 285, then cross the Arkansas River on the dirt road at the fire station. The mine is 59 yds east of the river."
QUAD Buena Vista 15'
MAP MONTROSE
DVEL There is one tunnel that is 305 ft long.
RNG To 3 x bg
HOST The host consists of Tertiary rhyolite and diabase dikes in gneiss of the Precambrian Pikes Peak Granite. The radioactivity is confined to serpentinized diabase in a 2-ft wide shear zone at the contact between the diabase and the granite.
STRC Minor shear zones also show some radioactivity in the area of the major shear zone.
MNZ The radioactive minerals are unknown, but could be associated with limonite staining in the shear zone.
DOI 1953

Little Jimie 5

LOCATION: NW1/4NE1/4 sec. 6, T. 49 N., R. 7 E.
QUAD Poncha Springs 15'
MAP MONTROSE
DVEL There is an adit bearing southeast into the hill. It is inaccessible, but was reported to be 600 ft long.
BKGI .1 mr/hr
RNG To .7 mr/hr
HOST The mineralization occurs in veins (Tertiary?) cutting Precambrian granite and schist.
STRC The vein appears to strike E to NE, and dips steeply.
MNZ Primary ore minerals include chalcopyrite, galena, and thorite (?). Secondary minerals present are malachite and azurite, with quartz and limonite forming the gangue. The ores and gangue are intergrown and crudely banded.
DOI 1952
Lucky Break Placer (Lucky Break Iron Mine)

LOCATION: SW1/4NW1/4 sec. 2, T. 50 N., R. 9 E.
QUAD Cameron Mountain 15'
MAP PUEBLO
DVEL There is an open pit, roughly 150 ft in diameter and 100 ft deep, with a 75 ft adit.
HOST The host is an undifferentiated limestone composed of Upper Devonian Dyer Dolomite (Chaffee Group) and Mississippian Leadville Limestone.
STRC The deposit lies on a N to NW trending normal fault which dips steeply to the east.
ALT intense alteration has taken place and obscured the fault in the vicinity of the mine.
MNZ Mineralization consists of massive red and black bands of iron oxides (hematite, goethite) replacing the limestone. Grab samples of these iron oxides assayed between 0.002 and 0.069% U3O8, while assay data submitted by the owner to the U.S. A.E.C. showed 0.23 to 0.30% U3O8. The more radioactive samples show small fractures filled with late quartz. The radioactive specimens are also enriched in Cu, Zn, Co, Be, Y, while being depleted in Al, Li, Ca, Mg, Na, K, Ba, Sr, Ga, Zr, as compared to the nonradioactive specimens.

LOCATION: MNZ
DVEL There is an open pit, roughly 150 ft in diameter and 100 ft deep, with a 75 ft adit.
HOST The host is an undifferentiated limestone composed of Upper Devonian Dyer Dolomite (Chaffee Group) and Mississippian Leadville Limestone.
STRC The deposit lies on a N to NW trending normal fault which dips steeply to the east.
ALT intense alteration has taken place and obscured the fault in the vicinity of the mine.
MNZ Mineralization consists of massive red and black bands of iron oxides (hematite, goethite) replacing the limestone. Grab samples of these iron oxides assayed between 0.002 and 0.069% U3O8, while assay data submitted by the owner to the U.S. A.E.C. showed 0.23 to 0.30% U3O8. The more radioactive samples show small fractures filled with late quartz. The radioactive specimens are also enriched in Cu, Zn, Co, Be, Y, while being depleted in Al, Li, Ca, Mg, Na, K, Ba, Sr, Ga, Zr, as compared to the nonradioactive specimens.


Mica Beryl Claims (Falfar, Gray Hen)

LOCATION: sec. 27, T. 51 N., R. 9 E.
QUAD Cameron Mountain 15'
MAP PUEBLO
DVEL The claim was located in 1942, and produced some feldspar and mica.
PROD Twenty-one tons of beryl were mined that brought $203/ton. During 1949-50, the mine produced 5,000 tons of feldspar and 300 tons of scrap mica.
HOST The host rock is a pink, medium- to coarse-grained Precambrian granite with visible flow structures and a prominent joint set. Pegmatite dikes cut the granite.
STRC The joint set possibly controlled the emplacement of the pegmatite dikes. They strike N80°E and dip 70°N.
MNZ Mineralization lies in the zoned pegmatite which consists of extremely coarse-grained quartz (crystals up to 2 ft in diameter) intergrown with a good grade of feldspar and mica. Some beryl is present in crystals up to 6 in. in diameter. Close examination of several areas of abnormal radioactivity revealed small amounts of monazite and samarskite. Assay of three selected samples had values up to 1.29% U3O8.

MADONNA MINE

LOCATION: NNW1/4 sec. 4, T. 49 N., R. 6 E.
LCST UNSURVEYED
LGRM The deposit also extends to sec. 33, T. 50 N., R. 6 E.
QUAD Garfield 15'
MAP MONTROSE
DVEL There are at least 12,000 ft of workings, most of which are inaccessible. The vertical range of the workings is about 1,525 ft.
BGK To .1 mr/hr
RNG To .3 mr/hr
HOST The wallrocks of the mine are Precambrian granite and Ordovician Manitou Dolomite.
STRC The Madonna Fault cuts through the mine, and strikes N25-50°W, dipping 85 to 90°SW. The ore occurs as a replacement in the dolomite along the fault.


Mount Antero Pegmatites

LOCATION: W1/2 sec. 7, T. 51 N., R. 7 E.
LCST UN certain
QUAD Poncha Springs 15'
MAP MONTROSE
HOST The host is Tertiary Antero granite, a stock containing pegmatites and microclitic cavities.
MNZ Brannerite, beryl, phenakite, bertrandite, fluorite, and titanite - rutile are present in the quartz - microcline pegmatite.

CHAFFEE COUNTY

Newett (Trout Creek, View No. 2, Lucky Jack)

LOCATION: sec. 1, T. 14 S., R. 77 W.
LCRM The deposit extends to sec. 2, 3 and 10.
QUAD Antero Reservoir 15'
MAP PUEBLO
HOST Pegmatite.
MNZ Monazite, euxenite, and other rare earth minerals are present in a pegmatite.
DOI 1973

No. 8

LOCATION: sec. 17, T. 14 S., R. 77 W.
QUAD Buena Vista 15'
MAP MONTROSE
DVEL The pegmatite was mined for potash feldspar by a two level open cut and adit.
STRC The pegmatite is 300 x 40 ft, and is shallow and lenticular with two zones. It strikes N85°E.
MNZ Quartz, pink microcline, and sericitized plagioclase are the primary minerals with euxenite, allanite, garnet, and biotite.
DOI 1957

Once Again Claim

LOCATION: SE1/4NE1/4 sec. 31, T. 51 N., R. 9 E.
LCST UNSURVEYED
QUAD Poncha Springs 15'
MAP MONTROSE
DVEL The mine was worked for copper around 1930. The main workings are caved, but there were probably about 200 ft of drifting.
BKG .005 mr/hr
RNG .01 to .015 mr/hr
HOST The host consists of Precambrian schist and gneiss.
STRC Small mineralized fractures parallel foliation of the host rocks, with a strike of 580°E and a dip of N40°W.
MNZ The main vein has gray colored gouge 0.5 to 1.0 ft wide. The footwall is fractured and slightly silicified for a thickness of one ft. Some malachite stain is present in the gouge.
DOI 1954

Pegmatite Quarry

LOCATION: sec. 34, T. 13 S., R. 77 W.
LCST UNCERTAIN
LCRM "South side of Colorado 285. The quarry is two miles west of Trout Creek Pass."
QUAD Antero Reservoir 15'
MAP PUEBLO
DVEL Feldspar has been produced from open cuts.
HOST The host is Precambrian Pikes Peak Granite, intruded by pegmatites and locally capped by Tertiary volcanics and cut by Tertiary dikes.
MNZ Euxenite has been found in highly radioactive pods in the pegmatite. The pods also contain bismutite and bismutinite, with quartz-feldspar in typical zones. Tourmaline is present as an accessory mineral.
DOI 1953?

Pegmatites

LOCATION: sec. 32, T. 15 S., R. 77 W.
LCST UNLOCATABLE
LCRM The deposit is 6 to 7 miles southeast of Buena Vista on the east side of the Arkansas River, on county road #70.
QUAD Buena Vista 15'
MAP PUEBLO
DVEL There are 30 to 50 ft of open-cut workings.
HOST The radioactive pegmatites cut Pikes Peak Granite. There is a local capping of the granite by rhyolite flows.
RMKS The radioactivity appears to be caused by rare-earth minerals concentrated in the pegmatites. Minerals found included allanite and euxenite.
DOI 1953

Ramsey Mines

LOCATION: sec. 2, T. 50 N., R. 9 E.
LCST Also sec. 3.
QUAD Cameron Mountain 15'
MAP PUEBLO
DVEL There is a 35 ft tunnel from the roadside through a small hogback to an open pit where black manganese-iron ore was mined. Probably about 200 tons were shipped.
BKG .02 mr/hr
RNG .04 to .08 mr/hr
HOST The deposit lies in Precambrian schists about 200 yds west from the contact with a Precambrian granite.
MNZ Hematite and pyrolusite were noted.
DOI 1953

Silver Crop Mine

LOCATION: sec. 22, T. 12 S., R. 81 W.
LCST UNSURVEYED
LCRM The mine is two miles northeast of Winfield, 800-1,000 ft above the valley floor.
QUAD Mount Harvard 15'
MAP MONTROSE
DVEL The mine is a past producer of silver. It has approximately 500 ft of workings.
HOST The deposit is of a fissure vein type in a Tertiary monzonite stock.
ALT The wall rock is argillized and silicified.
MNZ Samples collected from a pile of ore on the Silver Crop dump assay 15.22% Ag, 0.11% Pb, 0.00X% Mo, and between 0.026 to 2.99% U3O8. The ore is primarily silver-bearing galena and sphalerite, with small amounts of pyrite and chalcopyrite. Radioactive
minerals occur in the pyritic ore, some of which is brecciated, and all of which shows hematitic alteration. The latter ore is unlike the rest of the ore on the dump. This mine and the Swiss Boy Mine are close to each other and appear to be very closely related. The same information was given for both mines.

**Swiss Boy Mine**

**LOCATION:** sec. 22, T. 12 S., R. 81 W.

**LCST** UNSURVEYED

**LCRM** The claim is 1/2 mile east of Winfield, 1,000 ft above the valley floor on the north slope.

**QUAD** Mt. Harvard 15'

**MAP** MONTROSE

**DVEL** The mine was a producer of gold and small amounts of lead and silver around 1900.

**BGK** 0.3 mr/hr

**RNG** To 20.0 mr/hr

**HOST** The host rock is reported to be a Tertiary intrusive that is probably quartz monzonite cut by a decomposed quartz porphyry dike.

**MNZ** The ore consists of gold-bearing pyrite, some galena, sphalerite and probably argentite and molybdenite. The gangue is quartz, pyrite, with associated pitchblende, chalcopyrite, hematite, and some calcite. Assays show 0.026% to 2.99% U3O8, 15.22 oz/ton Ag, 0.11% Pb, and 0.00X% Mo.

**DOI** 1973, 1952


**Unnamed 3**

**LOCATION:** NW1/4SW1/4NE1/4 sec. 22, T. 13 S., R. 77 W.

**QUAD** Antero Reservoir 7 1/2'

**MAP** PUEBLO

**HOST** Pegmatite.

**MNZ** Monazite, euxenite, and other rare earth minerals are present in a pegmatite.

**DOI** 1973


**Yard Mine**

**LOCATION:** sec. 26, T. 13 S., R. 78 W.

**LCRM** "5 miles east on Colo. 24 from junction of U.S. 24 and Colo. 285, thence north on dirt road at McGee Gulch for about 4 miles."

**QUAD** Buena Vista 15'

**MAP** MONTROSE

**DVEL** Feldspar was produced from an open cut, roughly 200 x 50 ft.

**HOST** The host rock is Precambrian Pikes Peak Granite, cut by pegmatites. The granite and pegmatites are unzoned.

**STRC** The pegmatite strike N43°E with a slight southeasterly dip.

**MNZ** The radioactivity is limited to 2 to 3 ft "pods" at a zoned contact between the feldspar core and the quartz-feldspar zone. Minerals are euxenite and monazite in a microcline-quartz pegmatite.

**DOI** 1973

CHEYENNE COUNTY

There has been no uranium production from Cheyenne County. Cheyenne County is located on the eastern plains of Colorado. The county is both topographically and geologically flat-lying, with Upper Cretaceous Pierre Shale surfacing in the western half and Miocene-Pliocene Ogallala Formation in the eastern half. Upper Cretaceous rocks crop out along the stream beds of Rush Creek and Big Sandy River.

The one small uranium occurrence that has been recorded in the county is located in the Sharon Springs Member of the Pierre Shale.

Due to lack of outcrops within the county, much of the exploration to date has been in the form of water sampling of wells, springs, and streams. Higher than average uranium values have come from samples taken from drainages on the northern flank of the Las Animas Arch. Water from the Ogallala Formation shows higher than average uranium values. Both the Sharon Springs Member of the Pierre Shale and the Ogallala Formation are favorable units for further exploration for uranium resources.
EXPLANATION

- COAL, SHALE, LIMESTONE HOST ROCKS FOR OCCURRENCES
- 7 OCCURRENCE NUMBER FROM TEXT

Figure 10. Radioactive mineral occurrences in Cheyenne County, Colorado.
LOCATION: sec. 29, T. 15 S., R. 46 W.

HOST The host is the Sharon Spring Member of the Upper Cretaceous Pierre Shale.

MINERALS Uranium is present, although the form of mineralization is unknown. A sample assayed .006% U.

DOI 1973

Clear Creek County, located within the Front Range mineral belt, is the site of several famous metal-mining districts that were active during the late 1800's and early 1900's. Precambrian rocks of the Idaho Springs Formation, the Boulder Creek Granite, and the Silver Plume Granite cover much of the county. Sills, dikes, and stocks of early Tertiary age intrude the Precambrian rocks, and many of the county's ore deposits are associated with these intrusive porphyries. Uranium occurs as a localized, minor component of many of these ore deposits.

Of 66 known uranium occurrences within the county, only five have recorded production, and that totalled only 152 tons of ore at an average grade of 0.16 percent $U_3O_8$, producing 518 pounds of $U_3O_8$.

The Highlander Mine and the Spanish Bar Mine produced the largest amounts of uranium ore in the county. The Jo Reynolds and Almaden Mines are reported in some literature as containing the most anomalous radioactivity. These mines are typical of occurrences within the county. They are found in Precambrian metamorphics that have been cut by Tertiary intrusive porphyries and Laramide age veins. These mineralized veins were actively mined in the past for base and precious metals. The uranium present in these veins often occurs as uraninite, associated with chalcopyrite, galena, and sphalerite. Uranium mineralization appears to have occurred both before and after base- and precious-metal sulfide mineralization. Secondary minerals and radioactive hydrocarbons have been reported from a number of mines.

It is unlikely that Clear Creek County will ever be a large uranium producer because the vein occurrences are too small and scattered. If any of the old mines are reopened, or if new mines are developed for base- and precious-metals, then it is possible that uranium could be recovered as a by-product.
Figure 11. Radioactive mineral occurrences in Clear Creek County, Colorado.
Alma-Lincoln

LOCATION: sec. 34, T. 3 S., R. 73 W.
LCRM About 1 mile west of Idaho Springs on south side of Clear Creek at road level.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL This is an inactive gold-silver mine with extensive workings.
BKG 0.05 mr/hr
RNG To .5 mr/hr
HOST The deposit lies in veins and pegmatites in the Precambrian Idaho Springs Formation.
RMKS Radiation was localized near biotite pegmatites.
DOI 1953

Almaden-Blazing Star Tunnel

LOCATION: sec. 17, T. 3 S., R. 73 W.
LCST UNSURVEYED
QUAD Central City 7 1/2'
MAP DENVER
DVEL The Blazing Star Tunnel is reported to be 1,300 ft long, but in places is badly caved and inaccessible.
PROD All production was for gold and silver, and that was small.
BKG 0.1 mr/hr
RNG 0.1 to 10 mr/hr
HOST The host rock is Precambrian Idaho Springs Formation, composed of quartz-biotite schists and gneisses.
STRC Ore deposition was controlled by veins.
ALT Supergene.
MNZ The vein consists of hard, silicified pyritic material, with ore minerals of polybasite, galena, pyrite, chalcopyrite, sphalerite, argentite, proustite in a gangue of quartz, calcite and siderite. Radioactivity is found at 520 and 720 ft from the portal. In those areas, pitchblende is found coated with secondary green and yellow uranium minerals. Chemical assays of samples taken in the radioactive areas range from 0.0867 to 0.96% U3O8.
DOI 1951

Alpine Mine

LOCATION: SW1/4SE1/4 sec. 6, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL Inactive gold-silver mine.
RNG To 3 x bg
HOST Vein in Precambrian Silver Plume Granite.
MNZ Limonite, quartz.
DOI 1952

Argo

LOCATION: sec. 12, T. 4 S., R. 74 W.
LCST UNCERTAIN
LCRM Directions to deposit are as follows: "West from Idaho Springs up Chicago and Ute Creeks approximately 6.5 miles; proceed about 0.3 miles northwest on an abandoned access road.
QUAD Idaho Springs and Georgetown 7 1/2'
MAP DENVER
RNG To 2.5 x bg
HOST Vein in Precambrian Idaho Springs Formation.
MNZ Limonite and an unidentified green mineral.
DOI 1952

Ariadne

LOCATION: SW1/4NW1/4 sec. 5, T. 4 S., R. 73 W.
LCRM The dump is on the south side of the road.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL There is a shaft and several hundred ft of inaccessible workings.
BKG 130 cps
RNG To 275 cps
HOST The host is Precambrian Silver Plume Granite and pegmatite cut by Tertiary veins.
MNZ Ore minerals include pyrite, limonite, torbernite and uranophane (?) or dumontite (?) in a quartz gangue. Assays yield 0.039% eU and 0.032% U.
DOI 1952

Baltic Tunnel

LOCATION: sec. 2, T. 4 S., R. 74 W.
LCST UNCERTAIN
QUAD Georgetown 7 1/2'
MAP DENVER
RNG To 10 x bg
HOST A vein in the Precambrian Idaho Springs Formation contains the occurrence.
MNZ Minerals present include autunite(?), torbernite, galena, sphalerite, and quartz. The autunite-type mineral was fluorescent and occurred in the vein and hanging wall.
DOI 1952
Clear Creek County

Beaver Brook

LOCATION: sec. 23, T. 4 S., R. 72 W.
QUAD Squaw Pass 7 1/2'
MAP DENVER
MNZ Uranium.
DOI 1975

Belle Creole Mine

LOCATION: NE1/4 sec. 6, T. 4 S., R. 73 W.
LCRM From the forks in the road just west of the eastern section line for sec. 6, take the right fork 0.2 miles to mine access road that switches back right, down the slope. Proceed 0.1 miles to the dump.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL The mine consists of at least 540 ft of drift.
BKG 0.14 mr/hr
RNG 0.27 to 0.34 mr/hr
HOST The host rock is Precambrian Idaho Springs Formation and Silver Plume Granite, and is cut by Tertiary veins.
STRC The veins strike N50°E and dip 75 to 85°NW.
MNZ The ore minerals are chalcopyrite, galena, sphalerite, chalcocite and limonite in a gangue of quartz and pyrite. Two chip samples were taken from inside the mine. The one of quartz with disseminated pyrite assayed 0.002% eU and .10% eU, while the one taken of limonitic material assayed 0.033% U and 0.037% U.
DOI 1952

Bellevue-Rochester

LOCATION: sec. 26, T. 3 S., R. 74 W.
LCST UNCERTAIN
QUAD Empire 7 1/2'
MAP DENVER
HOST A vein in the Precambrian Idaho Springs Formation contains the mineralization.
STRC There is a two in. fractured, iron stained zone that strikes N65°E and dips 75°SE.
MNZ Uranium. The mineralization is of the pyritic gold type, with associated pitchblende. The pyrite is both disseminated and fissure-filling in the vicinity of the mine.
DOI 1950

Big Chief

LOCATION: SE1/4NE1/4 sec. 32, T. 3 S., R. 73 W.
LCST UNSURVEYED
LCRM The mine is on the west side of the road up Turkey Gulch.
QUAD Idaho Springs 7 1/2'
MAP DENVER
BKG 80 to 90 cps
RNG 250 to 400 cps
HOST The host is Precambrian Idaho Springs Formation, cut by Tertiary veins.

Bonanza

LOCATION: sec. 18, T. 3 S., R. 73 W.
DVEL There is a mine along the vein, with a shaft and several hundred ft of tunnels.
PROD During 1953, there were 7 tons mined at a grade of 0.54% U3O8 and 0.03% V2O5, producing 16 lbs of U3O8 and 4 lbs of V2O5.
HOST The mineralized zone is in a schist of the Precambrian Idaho Springs Formation.
STRC At least 540 ft of tunneling was found along the vein, with a portal, shows radioactivity of up to 3 x bg.
DOI 1953

Blakeless Mine

LOCATION: sec. 33, T. 3 S., R. 74 W.
LCRM Original directions to deposit are as follows: "Mine on north side of U.S. 6, 1.0 miles west of Junction of U.S. 40 and 6. Two story building on dump 100 ft above road."
QUAD Idaho Springs 7 1/2'
MAP DENVER
HOST The deposit lies in a vein in the Precambrian Idaho Springs Formation.
ALT The wall rock is reported to be argillized and sericitized.
MNZ Pyrite and chalcopyrite in a quartz gangue were identified.
RMKS Part of the vein, about 40 ft inside the portal, shows radioactivity of up to 3 x bg.
DOI 1953

Bonanza

LOCATION: SW1/4 sec. 18, T. 3 S., R. 73 W.
MAP DENVER
DVEL There is a mine along the vein, with a shaft and several hundred ft of tunnels.
PROD During 1953, there were 7 tons mined at a grade of 0.54% U3O8 and 0.03% V2O5, producing 16 lbs of U3O8 and 4 lbs of V2O5.
HOST The mineralized zone is in a schist of the Precambrian Idaho Springs Formation.
STRC At least 540 ft of tunneling was found along the vein, with a portal, shows radioactivity of up to 3 x bg.
DOI 1953

Bonanza

LOCATION: sec. 33, T. 3 S., R. 74 W.
DVEL There is a mine along the vein, with a shaft and several hundred ft of tunnels.
PROD During 1953, there were 7 tons mined at a grade of 0.54% U3O8 and 0.03% V2O5, producing 16 lbs of U3O8 and 4 lbs of V2O5.
HOST The mineralized zone is in a schist of the Precambrian Idaho Springs Formation.
STRC At least 540 ft of tunneling was found along the vein, with a portal, shows radioactivity of up to 3 x bg.
DOI 1953
Cleveland Tunnel

LOCATION: sec. 35, T. 3 S., R. 74 W.
LCST UNCERTAIN
LCRM Original directions are as follows: "From U.S. 40 in Lawson proceed south across Clear Creek on unnumbered county road for 0.3 miles and turn right, thence 0.4 miles and turn right, thence 0.6 miles to small shack, turn right here on poor road and drive approximately 2 miles to the crest of ridge and walk about 1/4 mile northwest down to mine".

QUAD Empire and Georgetown 7 1/2'
MAP DENVER
DVEL One 600 ft adit was driven.
BKG .05 mr/hr
RNG To 10 mr/hr
HOST The occurrence is in a shear biotite schist of the Precambrian Idaho Springs Formation.
STRC The shear zone localizes ore emplacement.
MNZ Pyrite and manganese minerals are the primary mineralization. Pitchblende occurs in a 2 ft wide, 10 ft long zone.
DOI 1956

Conqueror Mine

LOCATION: SE1/4SW1/4 sec. 16, T. 3 S., R. 74 W.
LCST UNSURVEYED
QUAD Empire 7 1/2'
MAP DENVER
DVEL There are several prospect pits and three adits on the property.
HOST Tertiary bostonite dike.
MNZ Assays of up to 0.5% U3O8 from samples of the dike.
RMKS Dike reported to be in the Conqueror Mine.

Crazy Girl

LOCATION: SW1/4NW1/4 sec. 5, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL Incline shaft with 1,200 ft of drifts and stope on two levels.
BKG To 150 cps
RNG To 750 cps
HOST Vein in Tertiary bostonite dike, and Precambrian Silver Plume Granite, and Idaho Springs Formation.
MNZ Limonite, chalcocite, azurite, malachite, pyrite, hematite and quartz. A grab from vein material on dump had a value of 0.026% U.

Diamond Mountain Mine (Glucky)

LOCATION: sec. 5, T. 4 S., R. 73 W.
LCST UNCERTAIN
QUAD Idaho Springs 7 1/2'
MAP DENVER
HOST The host is Precambrian Idaho Springs Formation, consisting primarily of schists and gneisses.
MNZ The mineralization is associated with a bostonite porphyry intruded into the schists and gneisses. Grab samples range from .16 to .30% U3O8, and from .046 to .35% U.
DOI 1950

Elizabeth M. Lode (Daisy Freeze Claim)

LOCATION: sec. 5, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
HOST Vein in the Precambrian Idaho Springs Formation.
STRC Vein occurs in shear zone.
MNZ Uranium.
DOI 1975

Ellie McKinney

LOCATION: sec. 7, T. 4 S., R. 73 W.
LCRM Original directions to deposit are as follows: "West up Chicago Creek and Ute Creek from Idaho Springs approximately 6 miles; the mine is in the rear vicinity of an abandoned house next to the road on the right".

QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL There are two shafts, one above, and one below the road.
BKG 150 cps
RNG To 300 cps
HOST Vein in Precambrian Idaho Springs Formation?
MNZ Limonite and unidentified green mineral.
DOI 1952

Golconda

LOCATION: SE1/4 sec. 17, T. 3 S., R. 73 W.
LCST UNSURVEYED
QUAD Central City 7 1/2'
MAP DENVER
DVEL There was a small production of high-grade gold ore. The tunnel extends more than 1,380 ft, but due to caving is partially inaccessible. Examination of the mine by U.S. A.E.C. geologists in 1954 indicated several hundred tons of rock, approaching ore grade, existed in mine.
RNG
BKG
0.01 mr/hr
0.017 to 0.389 mr/hr
HOST
Vein in Precambrian Idaho Springs Formation, consisting of schists and gneisses with pegmatite intrusions.
STRC
The uranium occurs in two fissure veins located 1,015 ft and 1,190 ft from the portal.
ALT
Supergene alteration is present, with sericitic and clay alteration ranging from moderate to intense.
MNZ
The vein located at 1,015 ft from the portal has been drifted on for 200 ft. It strikes N50°W and dips 75°NE. It is 4 to 8 in. in width, consisting of white and gray quartz, crushed schist, pyrite, chalcopyrite, and thin streaks and blebs of pitchblende. The second vein has been drifted on for 290 ft to the SE. It strikes N68°W and dips 55°NE. It ranges from 1 in. to 2 ft in width. It consists of white an gray quartz, pyrite, chalcopyrite and pitchblende. The pitchblende occurs in black lenses 1/3 to 3 in. wide consisting of fine-grained pyrite and sooty pitchblende. Green and yellow secondary uranium minerals have formed since the vein was opened. Chemical assays of samples range from 0.014 to 0.519% U3O8.
DOI 1951, 1971
BKG 60 to 80 cps
RNG 200 to 300 cps
HOST The host is Precambrian Idaho Springs Formation. It is cut by a Tertiary vein, which contains the radioactive deposit.
STRC The vein strikes N65°E.
MNZ The only mineral visible was a limonitic material, which assayed at 0.003% U; other spectographic data for that sample include: 0.16 oz/ton Ag, 0.015% Pb, and 0.04% Cu.
DOI 1952

Golden Calf Mine
LOCATION: sec. 20, T. 3 S., R. 73 W.
LCST UNCERTAIN
QUAD Central City 7 1/2'
MAP DENVER
DVEL One 300 ft adit has been driven.
BKG .03 mr/hr
RNG .3 to .6 mr/hr
HOST The occurrence lies in a vein in the Precambrian Idaho Springs Formation.
STRC The vein strikes S72°W and dips 47°NW.
MNZ Sooty pitchblende (possibly primary as pitchblende was described as sooty in another property in the county and this characteristic was due to a very fine-grained boytroidal nature), pyrite, chalcopyrite, galena, sphalerite, gold and silver are present. Channel samples had the following values: sample 1, 0.022% eU, 0.021% U, 0.280 oz./Ton Au, 1.86 oz./Ton Ag; sample 2, 0.64% eU, 0.020% U, 0.04 oz./Ton Au, 1.12 oz./Ton Ag; sample 3, 0.017% eU, 0.007% U, 0.62 oz./Ton Au, 18.30 oz./Ton Ag; sample 4, 0.069% eU, 0.047% U, 0.14 oz./Ton Au, 2.56 oz./Ton Ag.
DOI 1952

Golden Glen
LOCATION: SW1/4NE1/4 sec. 8, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL A tunnel was driven on the property.
BKG 110 to 120 cps
RNG To 350 cps
HOST Vein in Tertiary bostonite and Precambrian Idaho Springs Formation.
MNZ Grab sample from dump had values of 0.18% eU, and 0.22% U.
DOI 1952

Gomer Mine
LOCATION: SW1/4NW1/4 sec. 4, T. 4 S., R. 73 W.
LCRM 400 ft east of junction of Spring Gulch road and road going southwest around Alps Mountain, on the south side of the road.
QUAD Idaho Springs 7 1/2'
There is an inclined shaft and drifts.

HOST: The deposit lies in veins in the Precambrian Idaho Springs Formation which consists of biotite schist and gneiss intruded by pegmatites. Ore minerals are galena, sphalerite, pyrite and chalcopyrite in a quartz gangue. The radioactivity appears to be associated with the sphalerite.

DOI: 1951


Highland Lassie Tunnel

LOCATION: Sec. 25, T. 3 S., R. 74 W.

LCST: UNCERTAIN

LCRM: Original directions as follows: "Travel west on U.S. 40/6 through Idaho Springs (5.0 mi.). North on Spring Gulch Road. Travel up road 1.6 miles - park car and follow trail 600 ft uphill. Well defined trail leads to mine. (750 ft east)."

QUAD: Central City 7 1/2'

MAP: DENVER

DVEL: There are several pits and one 20 ft long tunnel.

BKG: .08 mr/hr

RNG: To 1.0 mr/hr

HOST: The occurrence is in a vein in Precambrian Silver Plume Granite with remnants of schist of the Idaho Springs Formation.

STRC: The vein on which pits were dug strikes N45°E.

MNZ: Autunite and torbernite are reported.

RMKS: 1.0 mr/hr occurred over an "oxidized schist" in the tunnel with a maximum reading of 0.4 mr/hr in the surface pits.

DOI: 1955


J. G. Vol Claim

LOCATION: Sec. 17, T. 4 S., R. 74 W.

LCST: UNCERTAIN

LCRM: Original directions as follows: "Take road out of Georgetown past old Centennial mill and get onto Public Service Co. of Colorado road following their penstock on way south, up creek to reservoir. Go 100 yds beyond the first wooden bridge. Car cannot cross the bridge. The property comes down to the bridge."

QUAD: Georgetown 7 1/2'

MAP: DENVER

DVEL: There are several pits and small adits.

BKG: .01 mr/hr

RNG: .2 to 2.0 mr/hr

HOST: The deposit occurs in a vein in the Precambrian Idaho Springs Formation.

MNZ: Minerals present include pyrite, limonite, hematite.

DOI: 1955


Jo Reynolds

LOCATION: Sec. 26, T. 3 S., R. 74 W.

QUAD: Empire 7 1/2'

MAP: DENVER

MNZ: Uranium.

DOI: 1975

Kitty Emmet

LOCATION: sec. 12, T. 4 S., R. 74 W.
LCRM The original directions to mine are as follows: "West from Idaho Springs up Chicago and Cascade Creeks approximately 7.4 miles; proceed about 0.2 miles northeast on a mine access road; the dump is up the slope about 100 yards to the north."
QUAD Idaho Springs 7 1/2'
MAP DENVER
BKG 125 cps
RNG 200 to 250 cps
HOST Vein in Precambrian Idaho Springs Formation.
ALT The host is reported to be altered.
MNZ Limonite and unidentified green mineral.
DOI 1952

Lake Central Project

LOCATION: sec. 35, T. 3 S., R. 73 W.
QUAD Central City 15' (?)
MAP DENVER
MNZ Uranium.
DOI 1975

Lamartine Tunnel

LOCATION: SW1/4 sec. 31, T. 3 S., R. 73 W.
LCRM Original directions to property are "Follow road west from Freeland; road ends at property."
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL Over 5,000 ft of workings on 10 levels in this inactive gold-silver mine.
HOST Vein in Precambrian Idaho Springs Formation.
MNZ Gold, galena, spalerite, siderite, pyrite, hematite in a gangue of quartz, dolomite, and rhodochrosite.
RMKS It was reported that "radon gas in back of tunnel made geiger counter useless."
DOI 1952

Lelew No. 1

LOCATION: sec. 10, T. 4 S., R. 73 W.
LCST UNCERTAIN
LCRM Original directions to property are as follows: "From Miner Street in Idaho Springs, travel 2.7 miles up Soda Creek to location of property."
QUAD Idaho Springs 7 1/2'
MAP DENVER
BKG .08 mr/hr
RNG To .15 mr/hr
HOST Tertiary bostonite dike.
MNZ Uranium minerals were observed.
RMKS Anomalous radiation was observed over an area of 100 x 200 ft.
DOI 1954

Little Cub Mine

LOCATION: sec. 3, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL The mine consists of approximately 800 ft of drift along the vein, 90 ft of crosscut to the north, 20 ft of crosscut to the south, and a two-compartment raise about 22 ft to the back.
RNG To 3 x bg
HOST The host is a vein in the Precambrian Idaho Springs Formation, which consists of quartz-biotite schist.
STRC The deposit is in a quartz-pyrite fissure vein striking N63°E and dipping 68°NW.
MNZ Quartz, pyrite, and possibly some gold are present, and the radioactive mineral is unknown.
DOI 1951

Little Warrior 1-A (April Fool 1-4, Little Warrior No. 7, Warrior Mtn. Claims)

LOCATION: sec. 27, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
PROD In 1960 and 1961, a total of 6 tons were mined at a grade of 0.12% U3O8, producing 21 lbs of U3O8.
HOST Precambrian Idaho Springs Formation.
MNZ Uranium, autunite.
DOI 1971

Lone Star (Magic Radon)

LOCATION: NE1/4NE1/4 sec. 3, T. 4 S., R. 72 W.
LCRM Located on the north side of Colorado Highway 119.
QUAD Squaw Pass 7 1/2'
MAP DENVER
DVEL There is one adit.
BKG .03 mr/hr
RNG .05 to 2.0 mr/hr
HOST The host is Precambrian Idaho Springs Formation, composed primarily of schists intruded by pegmatites.
MNZ The ore mineral appears to be uranophane in a gangue of quartz, pink feldspar, and mica. Allanite is sparsely scattered through the pegmatite. All mineralization is confined to the pegmatites.
DOI 1949

Lucania Tunnel

LOCATION: NE1/4 sec. 28, T. 3 S., R. 73 W.
LCST UNSURVEYED
QUAD Central City 7 1/2'
MAP DENVER
DVEL The tunnel extends 6,240 ft, and was designed to cut the veins in Quartz Hill at 14,800 ft.
Martha E Mine (Elizabeth M Lode)

LOCATION: SE1/4NE1/4 sec. 5, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL The tunnel extended at least 152 ft from the portal.
PROD In 1954, 1 ton of ore averaging 0.14% U3O8 and containing 3 lbs U3O8 was produced.
RNG 2 to 4 x bg
HOST The deposit occurs in Tertiary veins within the Precambrian Idaho Springs Formation, which consists primarily of schist with thin seams of pegmatite.
STRC The ore was deposited in veins following the schist foliation.
MNZ Mineralization consists of low grade gold ore (reported 34/ton), which is iron stained and vuggy. No sulfides were visible. A green, radioactive mineral (torbernite?) is present in small fractures in the schist. Channel samples from inside the mine all show weak radioactivity.
DOI 1950

Miller Tunnel

LOCATION: SW1/4SE1/4NE1/4 sec. 6, T. 4 S., R. 73 W.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL There is at least 900 ft of cross-cut tunnel and drifts.
PROD Between 1908 and 1940, a total of 160 tons of ore was produced, yielding gold, silver, copper, lead, and zinc. No uranium ore was shipped.
BKG .01 to .04 mr/hr
RNG .01 to .04 mr/hr
HOST The host rock is Precambrian in age, and the mine lies near the boundary between the Idaho Springs Formation and the biotite-muscovite Silver Plume granite. Granite gneiss and bostonite also are present.
STRC The Miller vein strikes N63°E and dips on the average of about 8°NW.
MNZ Minerals observed include galena, sphalrite, chalcopyrite, and pyrite, with secondary limonite and torbernite in scattered disseminated flakes. The gangue is quartz and brecciated bedrock. Grab samples analyzed contain between 0.006 and 0.014% eU and between 0.001 and 0.004% cU.
DOI 1952

Muscovite Mine

LOCATION: sec. 7, T. 4 S., R. 75 W.
LCST UNCERTAIN

M and E Mine

LOCATION: sec. 11, T. 4 S., R. 72 W.
LCST In the Floyd Hill area.
LCRM In the Floyd Hill area.
QUAD Squaw Pass 7 1/2'
MAP DENVER
HOST Pegmatite.
MNZ Minor torbernite and autunite. Sample from the dump of the prospect pit had values of 0.12% to 0.14% U3O8. The area of anomalous radioactivity does not exceed the pit area.
DOI 1973

Major C. and Little Colonial

LOCATION: sec. 20, T. 3 S., R. 73 W.
LCST UNsurveyed
LCRM East from Dumont 0.9 miles to the second gulch; proceed north up the gulch to the first dump on the east.
QUAD Central City 7 1/2'
MAP DENVER
DVEL There is a tunnel on the property.
BK G 75 to 80 cps
RNG 170 to 175 cps
HOST The host is Precambrian Idaho Springs Formation, which is cut by Tertiary veins.
MNZ Ore minerals are chalcopyrite and limonite in a gangue of quartz and pyrite. A grab sample of the ilmenite material assayed 0.001% cU and 0.014% eU.
DOI 1952
LCRM Original directions are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 3.25 miles; turn left onto a mine access road and proceed about 2.7 miles to end of the road; walk westerly cross creek and up slope about 0.2 mile."

**Peabody Mine**

**LOCATION:** sec. 35, T. 3 S., R. 74 W.
**QUAD** Georgetown 7 1/2
**MAP** DENVER
**MNZ** Uranium.
**DOI** 1975

**Polar Star Mine**

**LOCATION:** NE1/4 sec. 17, T. 3 S., R. 73 W.
**LCST** UNSURVEYED
**QUAD** Central City 7 1/2
**MAP** DENVER
**RNG** 2 to 4 x bg
**HOST** The host rock is Precambrian Idaho Springs Formation, and in this area is primarily schist.

**Robineau Claims**

**LOCATION:** sec. 35, T. 3 S., R. 74 W.
**LCRM** Original directions are as follows: "By 1 mile of trail from Silver Creek. Mine is located on top of ridge above the Jo Reynolds Mine."

**Silver Mine**

**LOCATION:** NW1/4 sec. 7, T. 4 S., R. 73 W.
**LCST** UNCERTAIN
**LCRM** Original directions are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 3.25 miles; turn left onto a mine access road and proceed about 2.7 miles to the end of the road; dump is in that immediate vicinity."

**Old Settler Tunnel**

**LOCATION:** NE1/4 sec. 32, T. 3 S., R. 73 W.
**LCST** UNSURVEYED
**QUAD** Idaho Springs 7 1/2
**MAP** DENVER
**DVEL** This is an inactive gold-silver mine with approximately 3,000 ft of drifts.

**HOST** The occurrence is in a vein in the Precambrian Idaho Springs Formation.

**MNZ** Galena, sphalerite, pyrite, silver and gold were identified.

**RMKS** It was reported that the mine had a large amount of radon gas in it.

**DOI** 1948-1958?

**New Era**

**LOCATION:** SW1/4 sec. 31, T. 3 S., R. 73 W.
**LCRM** Original directions to deposit are as follows: "County road up Trail Creek about 4 miles southwest of Idaho Springs. Mine is located 1,000 ft east of Lamertine Mine."

**QUAD** Idaho Springs 7 1/2
**MAP** DENVER
**DVEL** This is an inactive gold-silver mine with approximately 3,000 ft of drifts.

**HOST** The occurrence is in a vein in the Precambrian Idaho Springs Formation.

**MNZ** Galena, sphalerite, pyrite, silver and gold were identified.

**RMKS** It was reported that the mine had a large amount of radon gas in it.

**DOI** 1958

**Old Settler Tunnel**

**LOCATION:** NE1/4 sec. 32, T. 3 S., R. 73 W.
**LCST** UNSURVEYED
**QUAD** Idaho Springs 7 1/2
**MAP** DENVER
**DVEL** There is one partially caved adit, an inclined shaft and a series of levels and stopes, all inaccessible.

**HOST** The host is Precambrian Idaho Springs Formation, and is cut by tertiary veins.

**MNZ** Pyrite, chalcopyrite, chalcocite, azurite, malachite, and limonite are present in the veins, with a gangue of white and gray quartz. An assay of the limonitic material yielded 0.002% Cu and 0.002% U.

**DOI** 1952

**Silver Mine**

**LOCATION:** NW1/4 sec. 7, T. 4 S., R. 73 W.
**LCST** UNCERTAIN
**LCRM** Original directions to deposit are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 3.25 miles; turn left onto a mine access road and proceed about 2.7 miles to the end of the road; dump is in that immediate vicinity."

**QUAD** Idaho Springs 7 1/2
**MAP** DENVER
**DVEL** There is a shaft and tunnel on property.

**HOST** Vein in Tertiary bostonite dike.
Spanish Bar

LOCATION: sec. 27, T. 3 S., R. 73 W.

LCRM Original directions are as follows: "From U.S. 6 in Idaho Springs, drive up Virginia Canyon 2.0 miles to the Two Brothers Mine, turn left following the road across the mine yard. Follow dirt road 1.1 miles around to the south side of the mountain where the property is located. The prospect is on the south slope of Bellview Mountain." U.S. A.E.C. Production Records also show sec. 26, Reno, and shows the property as "uncertain.

DVEL The property has an incline shaft and was prospected for gold.

PROD In 1957, 97 tons of ore averaging 0.10% U3O8 and containing 196 lbs of U3O8 was produced.

BKG .02 mr/hr

RNG To 4 mr/hr

HOST Mineralization occurs in veins in quartz-biotite schist of the Precambrian Idaho Springs Formation. Also graphic granite dikes outcrop nearby and are reported to be radioactive.

STRC The hanging wall of the vein strikes N5°E with a vertical dip. Strike of granite dikes is N70°W.

MNZ Pitchblende, quartz, pyrite, chalcopyrite. A 1.6 ft channel sample across the vein had a value of 0.20% U3O8. This sample was taken where wall rock was pegmatite (graphic granite?). The graphic granite is reported to contain syngenetic uranium minerals.

RMKS Radioactivity was found on the hanging wall side of the vein in the shaft and drift.

DOI 1956


Standard Mine

LOCATION: sec. 17, T. 3 S., R. 73 W.

LCST UNsurveyed

LCRM The mine is located 1/2 mile south of Woodpecker Gulch on the Fall River.

DVEL The tunnel is at least 850 ft long, with at least 5 drifts on it.

BKG .04 mr/hr

RNG .1 to .2 mr/hr

HOST The host is Precambrian Idaho Springs Formation composed of schist and pegmatite. There is also a Tertiary (?) quartz monzonite porphyry.

STRC The deposits are controlled by veins.

MNZ The minerals present are pyrite, galena and sphalerite in a quartz gangue. A slightly radioactive green carbonate precipitate is also present.

DOI 1954


Stanley Mines

LOCATION: sec. 35, T. 3 S., R. 73 W.

LCRM One mile west of Idaho Springs on south side of road.

DVEL Inactive gold-silver mine with very extensive workings.

BKG 600 cps

RNG To 1200 cps

HOST Vein in a pegmatite and granite gneiss of the Precambrian Idaho Springs Formation.

ALT There is no alteration in the wall rock.

MNZ Pitchblende, galena, sphalerite, chalcopryite, pyrite in a quartz gangue. Pitchblende occurs as hard botryoidal coatings on pyrite, galena, and quartz in vugs, and along fractures that apparently cut the galena and pyrite. Channel sample of the vein had values ranging from 0.003% U to 0.14% U.

DOI 1954


Star Mine

LOCATION: sec. 34, T. 3 S., R. 73 W.

LCRM From Idaho Springs go up Chicago Gulch to Spring Creek. Up Spring Creek about 1,3 miles. Portal is on north side of road.

DVEL This inactive gold-silver mine that consists of 200 ft of drifting at road level and a 10 ft deep shaft.

BKG .06 mr/hr

RNG To 5.0 mr/hr

HOST The deposit lies in a pegmatite of the Precambrian Idaho Springs Formation and in a Tertiary monzonite porphyry.

STRC The main vein strikes N46°E and dips 80°NW. A crossing vein that strikes N75°W intersects the main one at about 28 ft from portal. This junction is where the pitchblende occurs. Pitchblende and torbernite were identified.

DOI 1954


Sunnyside Tunnel

LOCATION: SE1/4 sec. 32, T. 3 S., R. 73 W.

LCRM Original directions to tunnel are as follows: "1.2 miles northwest from west edge of Idaho Springs, turn southwest up Trail Creek,
mine is 1.5 miles. Buildings and portal on north side of creek."

QUAD  
Idaho Springs 7 1/2'

MAP  
DENVER

DVEL  
300 ft of stopes and drifts, 550 ft crosscut.

BKG  
225 cps

RNG  
To 550 cps

HOST  
Vein in Precambrian Idaho Springs Formation, and Silver Plume granite.

MNZ  
Galena, sphalerite, chalcopyrite, pyrite, limonite, quartz. A grab sample from vein had a value of 0.019% U.

DOI  
1952

REF  

Two Brothers Tunnel

LOCATION:  
NW1/4 sec. 26, T. 3 S., R. 73 W.

LCST  
UNSURVEYED

LCRM  
The large dump to the west of the road is from the tunnel.

QUAD  
Central City 7 1/2'

MAP  
DENVER

BKG  
10 to 80 cps

RNG  
150 to 300 cps

HOST  
The host is Precambrian Idaho Springs Formation. It is cut by Tertiary veins, which control and contain mineralization.

MNZ  
Primary ore minerals are galena and sphalerite, with limonite as a secondary ore mineral. Pyrite and white and gray quartz make up the gangue. A grab sample of the limonitic material yielded .009% eU, but less than .001% U by chemical assay.

DOI  
1952

REF  

Unknown 2

LOCATION:  
sec. 26, T. 3 S., R. 74 W.

QUAD  
Empire 7 1/2'

MAP  
DENVER

BKG  
3 to 4 mr/hr

RNG  
7 mr/hr

HOST  
The host is Precambrian Idaho Springs Formation, consisting of schist and gneiss.

STRC  
The mineralization occurs in a bostonite porphyry dike that is 100 ft wide.

MNZ  
No uranium minerals were seen, but a composite chip sample showed .008% eU, and radioactivity went about twice background at the contacts of dike and host rock.

DOI  
1956

REF  

Unknown 174

LOCATION:  
sec. 6, T. 4 S., R. 73 W.

LCRM  
Original directions to deposits are as follows: "Southwest from Idaho Springs, 0.5 miles to Spring Gulch road, west for 4.6 miles to fork in road, take right fork for .15 miles, dump is uphill in timber on left."

QUAD  
Idaho Springs 7 1/2'

MAP  
DENVER

DVEL  
There is one shaft on the property.

BKG  
125 cps

RNG  
To 275 cps

HOST  
A vein in a Tertiary bostonite dike and Precambrian Silver Plume Granite contains the mineralization.

MNZ  
Quartz and limonite were the only minerals identified.

DOI  
1952

REF  

Unknown 357

LOCATION:  
SW1/4SE1/4 sec. 32, T. 3 S., R. 73 W.

LCST  
UNSURVEYED

LCRM  
The mine is the middle one of three mines in that quarter-quarter section.

QUAD  
Idaho Springs 7 1/2'

MAP  
DENVER

DVEL  
The mine workings consist of 155 ft of crosscut tunnel and 250 ft of drift and stopes.

BKG  
.07 mr/hr

RNG  
.27 mr/hr

HOST  
The host rock is Precambrian Idaho Springs Formation cut by Tertiary veins.

STRC  
The mineralization is controlled by fault gouge in a shear zone.

MNZ  
The minerals seen were galena, chalcopyrite, sphalerite and limonite in a gangue of quartz and pyrite. Chip samples of the limonitic material ranged from 0.002 to 0.033% eU.

DOI  
1952

REF  
Unknown 358

LOCATION: SW1/4SE1/4 sec. 32, T. 3 S., R. 73 W.
LCST UNSURVEYED
LCRM The mine is the one furthest east in that quarter section.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL The workings had 470 ft of drift.
BKG .07 mr/hr
RNG To .12 mr/hr
HOST The host rock is Idaho Springs Formation of Precambrian age. It is cut by Tertiary veins.
MNZ Limonite was the only mineral identified, and a chip sample taken from 280 ft inside the mine assayed 0.017% U and 0.015% C.
DOI 1952

Unknown 406

LOCATION: sec. 5, T. 4 S., R. 73 W.
LCST UNCERTAIN
LCRM Original directions to mine are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 3.25 miles; turn left onto mine access road and proceed about 0.7 miles; the dump is small and about 100 yds up the slope to the right'.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL There is one shaft on the property.
BKG 80 to 90 cps
RNG 180 to 230 cps
HOST A vein in the Precambrian Idaho Springs Formation contains the deposit.
ALT The host was reported to be altered.
MNZ Limonite was the only mineral mentioned.
DOI 1952

Unknown 419

LOCATION: sec. 6, T. 4 S., R. 73 W.
LCRM Original directions as are follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 7 miles to the abandoned town of Larnartine; proceed southeast on a mine access road about 0.6 mile; the dump is small and to the east of the road'.
QUAD Idaho Springs 7 1/2'
MAP DENVER
DVEL There is one shaft.
BKG 60 to 80 cps
RNG 175 to 200 cps
HOST Vein in Precambrian Idaho Springs Formation.
ALT Host is reported to be altered.
MNZ Limonite and unidentified green mineral.
DOI 1952

Unknown 428

LOCATION: sec. 12, T. 4 S., R. 74 W.
CLEAR CREEK COUNTY

Unknown FR-78

LOCATION: NW1/4 sec. 20, T. 3 S., R. 73 W.
LCST UNSURVEYED
LCRM The dump is adjacent to, and south of, Spring Gulch road about 1.3 miles northwest of its intersection with U.S. 6 & 40.
QUAD Central City 7 1/2'
MAP DENVER
DVEL The mine has one caved adit.
BKG 60 to 80 cps
RNG 250 to 300 cps
HOST The host rocks are Precambrian Idaho Springs Formation, cut by Tertiary veins which contain the mineralization.
MNZ The only ore mineral seen was limonite, which assayed 0.011 eU and 0.006% U. The sample also contained 0.06 oz/ton of Ag, 0.01% Pb, and 0.01% Cu.
DOI 1952

Unnamed 3 (Mine Dump No. 1)

LOCATION: sec. 33, T. 3 S., R. 74 W.
LCST UNCERTAIN
LCRM The mine dump is on the north side of U.S. 6 1 mile west of the junction of U.S. 40 and 6 and 100 ft above the road.
QUAD Georgetown 7 1/2'
MAP DENVER
RNG To 5 x bg
HOST Vein in the Precambrian Idaho Spring Formation.
ALT Argillization and silification.
MNZ Galena, sphalerite, pyrite, quartz (pitchblende?).
DOI 1953

Unnamed Mine 4 (Mine Dump No. 2)

LOCATION: sec. 34, T. 3 S., R. 74 W.
LCST UNCERTAIN
LCRM Directions are as follows: "dumps on south side of east end of Douglas Mountain, 1/2 mile west of U.S. 40 and 6 road junction".
QUAD Empire 7 1/2'
MAP DENVER
RNG To 4 x bg
HOST A vein in the Precambrian Idaho Springs Formation contains the mineralization.
ALT The wall rock is sericitized and silicified.
MNZ Pyrite, galena, sphalerite, quartz and (pitchblende (?) are present in the vein.
DOI 1953

Urad Mine

LOCATION: sec. 31, T. 3 S., R. 75 W.
QUAD Berthoud Pass 7 1/2'
MAP DENVER
DVEL Active molybdenum mine with extensive workings.
BKG 1.7 cps
RNG To 13 cps

HOST Vein in Tertiary granite porphyry and Precambrian granite and schist.
MNZ Molybdenite, quartz, pyrite, fluorite, rhodochrosite. Three grab samples had the following values: #60376 - 0.15% eU3O8, 0.037% cu3O8; #60377 - 0.009% eU3O8, 0.002% cu3O8; #60378 - 0.069% eU3O8, 0.021% cu3O8.
DOI 1952
CONEJOS COUNTY

Very limited uranium production has come from this county. In fact the producing deposit is also the only recorded occurrence of uranium.

The county is divided geologically into two terranes. The eastern half is underlain by Tertiary sediments filling the huge San Luis Valley Graben. The western half of the county is mountainous and covered by Tertiary volcanics associated with the two calderas in the northern part of the county—the Summitville and the Platoro Calderas.

The only producing occurrence in the county is the Shirley Rae Deposit, but its location is unknown. By 1971, 4 tons of ore containing one lb of U₃O₈ had been mined from this deposit. The geology of the county is not favorable for the occurrence of uranium, and this fact combined with an unknown location casts doubt on the validity of the occurrence. It is possible that sandstone-type deposits occur in the sediments filling the San Luis Valley, but of more importance is a new type of uranium occurrence that is associated with volcanogenic rocks. The two calderas in northwest Conejos County thus appear to have limited favorability for uranium resources. Also, as more research is carried out, volcanogenic-type occurrences may become economically important in the future. However, from the present state of knowledge this county has very small potential for developable reserves.
Shirley Rae

LOCATION:
LCST  UNCERTAIN
DVEL  Past producer.
PROD  As of 1971, 4 tons were mined at a grade of 0.01% U3O8, producing 1 lb of U3O8, 0.05% V2O5, producing 4 lbs of V2O5.
MNZ  Uranium.
DOI  1971
COSTILLA COUNTY

Minor production from Costilla County consisted of 0.75 tons of ore that yielded 3.3 pounds of U₃O₈.

The geology of the county is complex. The two main structural elements in the county are the Sangre de Cristo Mountains and the San Luis Graben Valley. Precambrian alaskite granites, gneissic granodiorite and other minor gneisses are exposed in the Sangre de Cristo Mountains and Culebra Range in the northern and eastern parts of the county. The Quaternary Alamosa Formation crops out in the San Luis Valley and consists of unconsolidated sands and gravel. Tertiary lava flows and tufts are widespread in the southeastern half of the county.

The producing deposit in the county was the Black Jack No. 2 Deposit. It produced from sandstone in the Permian Sangre de Cristo Formation. The ore at the mine is reported to be carnotite.

There is potential for reserves to be found in the county. All the occurrences within the county lie in the Permo-Pennsylvanian Sangre de Cristo Formation in the northeastern part of the county. These occurrences are a continuation of a mineralized belt within the Sangre de Cristo Formation.

This belt is continuous along the Sangre de Cristo Range from New Mexico into Custer County. The occurrences are characterized by uranium, vanadium, and copper minerals in silty sandstone and sandy siltstone containing abundant organic material. This type of occurrence has potential but its development is seriously limited by steep dips, high elevations, and rugged topography.
**Costilla County**

**Black Jack No. 2**

**LOCATION:** sec. 36, T. 31 S., R. 70 W.

**MAP** TRINIDAD

**PROD** During 1959, 0.75 tons of ore average 0.22% U3O8 and containing 3.3 lbs U3O8 was shipped to the Canon City mill.

**HOST** Permian Sangre de Cristo Formation.

**MNZ** Carnotite.

**RMKS** This prospect is on or near the section line between the location given and sec. 1, T. 32 S., R. 70 W.

**DOI** 1973


**Loco Alice Prospect (Trinchera Ranch)**

**LOCATION:** sec. 15, T. 30 S., R. 70 W.

**LCST** UNCERTAIN.

**LCRM** Located on Blanca Trinchera Ranch. Directions to the deposit are as follow: "From the east edge of Fort Garland, go east on U.S. 160 for 10.7 miles and turn right onto dirt road. Go 0.2 miles to the locked gate. Go 7.3 miles from the gate to an old red gate. Drive through for 2.1 miles then take right fork for 4.7 miles and another right fork for 0.2 miles to the prospect just above the road on the right."

**QUAD** Trinchera Ranch 7 1/2'

**MAP** TRINIDAD

**DVEL** A small prospect pit has been dug and several shallow trenches have been bulldozed. Nine holes have been drilled and six have been probed. Two holes show anomalous radioactivity.

**RNG** To 30 X bg.

**HOST** The host is arkosic, medium- to coarse-grained conglomeratic red sandstone with some carbon trash within the Permian Sangre de Cristo Formation.

**STRC** The beds are vertical and strike N20°W. The radioactivity occurs in a six inch wide shear zone which parallels the bedding.

**MNZ** Carnotite, volborthite, malachite, and jarosite are present. A grab sample had a value of 0.24% U3O8. Two other samples had values as follows: 0.24% euU3O8, 0.31% U3O8; 0.068% euU3O8, 0.071% U3O8, 0.32% V2O5, 3.59% Cu, and 0.22 oz/ton Ag.

**RMKS** Anomalous radioactivity was noted over a stratigraphic interval of 700 ft.

**DOI** 1954


**Unnamed 1**

**LOCATION:** sec. 20, T. 28 S., R. 70 W.

**LCST** UNCERTAIN

**LCRM** Directions are as follows: "For .4 mile along the west side of U.S. 160, 30.6 miles west of Walsenburg and a few miles west of La Veta Pass near Sangre de Cristo Creek and Vega Creek."

**QUAD** Russell 7 1/2'

**MAP** TRINIDAD

**BKG** .025 mr/hr

**RNG** .025 to .15 mr/hr

**HOST** The country rocks are dark gray shales and olive colored sandstones in two stratigraphic intervals of the Pennsylvanian Formations.

**STRC** The beds are steeply dipping and strike northwest.

**RMKS** Anomalous radioactivity was noted over a stratigraphic interval of 700 ft.

**DOI** 1954

CROWLEY COUNTY

No production has been reported for the county, and potential for uranium resources to be developed in the county is very minor.

Crowley County is entirely surfaced by sedimentary rocks predominantly of the Miocene-Pliocene Ogallala Formation and the Upper Cretaceous Pierre Shale. The southwestern end of the Las Animas Arch extends into the county.

One small uranium occurrence is known within Crowley County. This occurrence is located in the Sharon Springs Member of the Pierre Shale and is associated with iron carbonate.

The Ogallala Formation has shown higher than average uranium values from water samples taken in the county and in areas adjacent to the county. It could possibly warrant further exploration for uranium. The Sharon Springs Member of the Pierre Shale is known to contain uranium mineralization both in Colorado and adjacent states, and may also be a favorable unit for uranium resources.
EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
- LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- #7 OCCURRENCE NUMBER FROM TEXT

Figure 12. Radioactive mineral occurrences in Crowley County, Colorado.
LOCATION: sec. 16, T. 20 S., R. 56 W.  
HOST: The host is the Sharon Springs Member of the Pierre Shale. It is a bentonitic clay in a sandy shale with iron carbonate. The Pierre Shale is Middle to Upper Cretaceous.  
MNZ: .018% eU and .02% U  
RMKS: Mineralization is shown on plate #36 in the USGS Bulletin listed below. The mineralized area covers both sec. 16 and 17.  
DOI: 1959  
Custer County contains both uranium and thorium occurrences. The Wet Mountain thorium district is one of two in the state, and one of the few in the United States. The potential for reserves to be found in the county are problematic. Thorium is not now a widely sought commodity, and the uranium occurrences are found in an area under study for wilderness designation. Production to date is 8 tons at 0.11 percent U₃O₈.

Custer County is situated in the south-central part of the state. It is bounded by the Sangre de Cristo Mountains on the west and by the Wet Mountains on the east with the Wet Mountain Valley between the two ranges. The core of the Wet Mountains is composed of Precambrian igneous and metamorphic rocks, overlain on the west by Miocene volcanics and intrusives and on the east by Pennsylvanian to Cretaceous sedimentary rocks. The Wet Mountain Valley is a graben filled with thick Tertiary and Quaternary sediments. Pennsylvanian and Permian sediments crop out over most of the Sangre de Cristo Range. Recent alluvial fans and torrential wash form a broad apron at the base of the Sangre de Cristo Mountains.

There has not been much uranium or thorium production from the county. A total of about 9 tons of ore was shipped, primarily as test shipments. Most of that ore (8 tons) came from the Floyd Watters Ranch and had an average grade of 0.11 percent U₃O₈. This property produced from a limonite carbonate vein in Precambrian gneiss. Thorium was more abundant than uranium, as were rare earth minerals. This prospect is a typical example of radioactive occurrences in the Wet Mountain district.

Important occurrences within the county fall into two categories: thorium deposits in the Wet Mountains and uranium deposits in the Pennsylvanian-Permian sedimentary beds. The most extensively prospected thorium deposits lie in an area about 12 miles long and 6 miles wide, extending from the Hauputa Ranch north-northwest into Fremont County. The larger overall thorium-bearing district, discovered by the U.S. Geological Survey, is about 20 miles long and 10 miles wide. The Tertiary-age thorium deposits occur in northwest-trending shear zones associated with barite-sulfide veins that cut such Precambrian complexes as amphibolite, biotite-gneiss, gneiss, metagabbro, migmatic, microcline gneiss, pegmatites, white granite, and syenite. Premineralization basic dikes occur along the shear zones. The minerals found in the shear zones include thorite, barite, quartz, galena, fluorite, limonite, pyrite, and rare-earth oxides and uranium minerals, but the uranium is minor compared to the thorium. The largest thorium-bearing ore body known is 300 ft long, 25 ft wide, and 400 ft deep, with channel samples that had maximum values of 4.5 percent ThO₂ and 0.002 percent U (Del Rio, 1960, p. 110). The thorite and rare-earths occur as fracture fillings and coatings, and as replacement bodies in sheared rocks. A close association exists with sulfides, barite, and fluorite mineralization, all tentatively classed as Tertiary in age.

In searching for additional thorium deposits of this type, any shear zones in the county should be investigated. The most favorable areas can be recognized by 1) radioactivity, 2) siderite, quartz, and/or barite, 3) basic rocks, often altered completely to limonite, 4) fetid odor of altered rocks, 5) red-stained rocks, and 6) green or blue amphibolite minerals coating fractures.

Uranium occurrences are primarily located in the Crestone Needles area, around Horn Peak, and all along the Sangre de Cristo Range in bedded deposits of Pennsylvanian and Permian age. Most occur in slightly metamorphosed conglomerates, arkosic sandstones, siltstones, and shales in the Maroon Formation. Where the beds are most radioactive they become very dense and black and contain abundant asphaltic material.

In Custer County, mildly metamorphosed mudstones and asphalt-bearing sandstones of Pennsylvanian and Permian age in the Sangre de Cristos are the host rocks with the most potential. The uranium deposits would probably be of a low-grade, bedded type, either oxidized or unoxidized.
Custer County

18. Airborne Anomaly

LOCATION: NE1/4NE1/4 sec. 12, T. 21 S., R. 69 W.
QUAD Wetmore 7 1/2'
MAP PUEBLO
BKG .01 mr/hr
RNG .028 to .03 mr/hr
HOST The host is a gray to black shale formation.
MNZ There is no visible mineralization, and the radioactivity seems to occur throughout the shale.
DOI 1954

Anna Lee (Anna Lee Lode)

LOCATION: SW1/4SE1/4 sec. 21, T. 21 S., R. 75 W.
LCRM Uncertain
LCRM Directions given as follows: "West side of Hwy 143, 1 1/4 miles northwest of junction of Hwy 96 W. It is probably sec. 21, T. 21 S., R. 71 W.
QUAD Mount Tyndall 7 1/2'
MAP PUEBLO
DVEL There are several shallow prospect pits.
BKG .6 mr/hr
RNG 2.0 to 400 mr/hr
HOST The host rock is Precambrian granite. It is cut by a mineralized Tertiary (?) sheared syenite dike and a thorium-bearing limonite vein.
STRC The mineralized zone trends N60°W with an average width of about 6 in.
MNZ Thorium is the primary mineralization, with limonite as the gangue. Assays show .22 to .72% eU, .003 to .005% chem. U, 1.25 to 4.09% ThO2, 3.81% chem. ThO2, and 4.13% rare earths, with Th, Y, La, Ce, Nd, Sm, Pr, Gd and Dy all detected by spectrographic analysis. Manganese accounted for .135% of the sample assayed.
DOI 1952

Barite Lode 2

LOCATION: SW1/4 sec. 8, T. 22 S., R. 71 W.
LCRM Located near the road on the east side.
QUAD Mount Tyndall 7 1/2'
MAP PUEBLO
DVEL There is one 5x8x10 prospect shaft and several smaller prospect pits to the northwest and southeast.
BKG 8.0 mr/hr
HOST The wall rock is a Precambrian quartz-hornblende gneiss injected by Precambrian granite and cut by a Tertiary vein.
STRC The mineralized vein strikes N45°W, and dips 85°W on the east wall and 77°E on the west wall. It is approximately 3,000 ft in length and averages 3.5 ft in width.
MNZ Primary ore minerals are thorite (?), galena, chalcopyrite, and reported silver. Gangue minerals are quartz, barite, limonite, and hematite. A channel sample assayed .042% eU and .001% U.
DOI 1951

Beck Mountain (Beck Mountain Lode)

LOCATION: sec. 19, T. 24 S., R. 72 W.
QUAD Beck Mountain 7 1/2'
MAP TRINIDAD
PROD Production has been 1 ton in 1955 at an average grade of .1% U3O8, and .24% V2O5, producing 2 lbs of U3O8 and 5 lbs of V2O5. This ore was shipped to the mill at Rifle, Colorado.
HOST The deposit is a vein - type in the Permian-Pennsylvania Maroon Formation.
DOI 1971

Big Chief 1 (Star Mine)

LOCATION: SW1/4 sec. 6, T. 21 S., R. 70 W.
QUAD Mount Tyndall 7 1/2'
MAP PUEBLO
DVEL There are extensive old barite workings throughout the length of the vein.
BKG 1.0 mr/hr
RNG To 3.0 mr/hr
HOST The host rock is Precambrian injection gneiss cut by a Tertiary barite vein.
STRC The vein strikes N10°W and dips 70°E, with about 400 ft exposed for a width of 2 to 4 1/2 ft. In the shaft it is exposed for 50 ft.
MNZ The ore minerals are barite, galena, and chalcopyrite, with a gangue of quartz and iron carbonate. A channel sample assayed 0.009% eU and 0.002% U.
DOI 1951

Bull Domingo Mine

LOCATION: sec. 33, T. 21 S., R. 72 W.
LCRM Also see sec. 34, T. 21 S.
QUAD Westcliffe 7 1/2'
MAP PUEBLO
DVEL There are two shafts: 1) 80 ft deep - 135 ft of caved drifts; 2) 1025 ft deep - 6 levels; several hundred ft on -250 ft and -550 ft level accessible; water at -570 ft.
BKG .6 to .8 mr/hr
RNG 2.2 to 3.4 mr/hr
HOST The host is a Precambrian granite pegmatite on the footwall, a schist on the hanging wall, cut by Tertiary veins.
STRC The radioactive minerals occur in a shear zone that is not spatially close to the breccia chimney which contained the gold-
silver - lead - zinc ore that was mined before abandonment of the mine. The shear zone trends N60°E with a N80°W dip, and a width of 1 - 4 in.

MNZ The radioactive minerals are not megascopically identifiable. Silver, gold, sphalerite, galena, and uranium minerals were all detected.

DOI 1951


D. P. Van Nouhuys Property

LOCATION: sec. 9, T. 22 S., R. 71 W.

MAP PUEBLO

MNZ Uranium and thorium have been found.

DOI 1975


Damn Fool (see Hopeful 1-3, King Midas 1-25, Macho 1-20, Crestone 1-6, Margaret Group)

LOCATION: sec. 10, T. 24 S., R. 73 W.

LCRM Also sec. 11, 14-18, 20-23 (any production would be listed for those individual properties).

HOST Permian Sangre de Cristo Formation.

MNZ Carnotite.

DOI 1971


Darby Extension (Darby Extension)

LOCATION: sec. 7, T. 21 S., R. 71 W.

QUAD Mount Tyndall 7 1/2'

MAP PUEBLO

DVEL There are two shafts, two adits, and numerous prospect pits.

HOST The host is probably Precambrian granite gneiss and gneisses.

MNZ Channel and grab samples assayed show between 0.19 and 0.25% eU, between 0.001 to 0.003% U, 1.08 to 1.65% eTh02, 1.39% Th02 & 0.18% (RE)2O3. Minor quantities of Ce, La, Nd, Sm, Th, and Y were detected by semi-quantitative spectrographic analysis.

DOI 1953


Fair View Lode

LOCATION: sec. 16, T. 23 S., R. 71 W.

LCST UNCERTAIN

LCRM Directions given as follows: "2.5 miles west of Rosita, south 2.5 miles, south through goat farmer's yard, past hematite deposits, northwest of summit of road."

QUAD Rosita 7 1/2'

MAP PUEBLO

DVEL There is one trench.

BKG .02 m3/hr

RNG .35 to 1.0 m3/hr

HOST The host is Precambrian hornblende-plagioclase gneiss and granite gneiss, cut by a Tertiary thorium vein.

MNZ The radioactive minerals were not visible, but are probably minute concentrations of thorite(?). The gangue minerals include quartz, red barite, siderite, and limonite. A grab sample assayed 0.058% eU, less than 0.001% U, and 0.32% eTh02.

DOI 1953


Floyd Watters (Watter's Ranch, Mundy Claim, Lewis C. Mundy, Watters Ranch)

LOCATION: SW1/4 sec. 33, T. 21 S., R. 70 W.

LCRM Also in sec. 32.

QUAD Hardscrabble Mountain 7 1/2'

MAP PUEBLO

DVEL The area was originally prospected for lead. A trench following the vein was opened after radioactivity was discovered.

PROD 8 tons of ore at a grade of 0.11% U308 were shipped to the U.S. A.E.C. ore buying station at Bluewater, NM in July 1953. The ore yielded 17 lbs U308 and 8 lbs V205 (0.05% V205).

BKG 50 cps

RNG to 5000 cps

HOST A Tertiary siliceous carbonate vein cutting Precambrian granite gneiss and hornblende gneiss contains the mineralization. It is a purple-red color, possibly due to manganese or fluorite. The vein minerals have replaced a fine-grained biotite dike (lamprophyre). The calcareous portion of the vein is the only radioactive part, and it occurs in discontinuous lenses.

STRC The vein strikes N70°W, dips vertically, and is from 6 to 24 in. thick. Radiometric examination of the projected extension of the deposit indicates that its lateral extent is only about 150 ft.

ALT Altered limonitic clay material, about one inch thick, lies on either side of the vein.

MNZ The radioactive mineral has not been identified. The vein contains abundant calcite and limonite with hematite, radium, and rare earths reportedly present by assay. Assays show from 0.10% to 0.32% U308. Other elements looked for and found were V205 (0.05% - 0.19%), Th02 (0.054%), six rare earths at 0.10% each and radium (1.43 mg/ton).

RMKS One sample submitted to Anaconda Copper Mining Company at Grants, New Mexico in 1953 indicated that the ore from this deposit was not amenable to standard milling practice at Grants.

DOI 1953

RNG
LOCATION: BKG
DVEL
MAP
HOST
MNZ
ALT
STRC
DOI
MAP
LOCATION: DVEL
HOST
STRC
DOI
REF
DOI
REF
CUSTER COUNTY
Franklin Mine (Frankland Mine)
LOCATION: sec. 32, T. 21 S., R. 70 W.
QUAD Hardscrabble Mountain 7 1/2'
MAP PUEBLO
DVEL There is one shaft, with 300 ft of accessible adit, and an unknown length of inaccessible adits. There are also 2 caved shafts and several prospect pits.
BKG .6 mr/hr
RNG To 6.0 mr/hr
HOST The host is Precambrian granite and gneiss cut by a Tertiary vein.
STRC Mineralization occurs in a shear zone striking N55°W for 300 ft, dipping 75°NE, with a thickness of more than 50 ft and a width of 5-10 ft.
ALT In the shear zone, there has been abundant alteration to clay minerals.
MNZ Galena and thorite(?) are the ore minerals, in a gangue of barite, quartz (some amethyst), siderite, limonite, hematite, and minor amounts of copper minerals. Samples assayed ranged from 0.025% to 0.031% U, 0.49% Pb, 0.005% Cu, 0.001% Th, 0.11% Fe, 0.061% U, and contained 0.002% U3O8.
DOI 1952

G. W. and Antrim Claims
LOCATION: sec. 9, T. 22 S., R. 71 W.
LCRM Also noted in sec. 10.
QUAD Mt. Tyndall 7 1/2'
MAP PUEBLO
DVEL At least 90 ft of trenching and 35 ft of cross cutting were completed under a DMEA Loan.
HOST The host is Precambrian schists and gneiss.
STRC The host rock is cut by Tertiary fissure veins.
MNZ There is widespread radioactivity of low to moderate intensity. Channel samples range from 0.023% to 0.112% U3O8, from 0.005% to 0.012% U3O8, and from 0.11% to 0.49% ThO2.
DOI 1954

Gold Crown 2
LOCATION: NW1/4 sec. 30, T. 23 S., R. 69 W.
QUAD Deer Peak 7 1/2'
MAP PUEBLO
DVEL There is one caved, inclined shaft and one 7 ft timbered prospect pit.
BKG .02 mr/hr
RNG 1.0 to .4 mr/hr
HOST The host is a series of Precambrian metamorphic rocks, including hornblende-plagioclase gneiss cut by Tertiary thorium vein.
STRC The vein strikes between N75°E and N55°W for more than 500 ft.
MNZ The primary radioactive ore minerals are not megascopically visible, but are probably minute coatings of thorite(?). Gangue minerals include barite, red feldspar, quartz, and iron oxides. A grab sample assayed 0.061% CeU and less than 0.001% U, with 0.34% ThO2.
RMKS Also in the same area are the May Day Lode Claim, Hidden Treasury Claim, and Gold Crown No. 1 Claim.
DOI 1953

Hardin Claim Group
LOCATION: sec. 30, T. 23 S., R. 69 W.
QUAD Deer Peak 7 1/2'
MAP PUEBLO
DVEL There has been underground work done.
MNZ Uranium and vanadium were detected.
DOI 1975

Horn Peak Claims (Little Horn Peak Claims, Reese Claims, Austin Claims)
LOCATION: sec. 19, T. 23 S., R. 73 W.
QUAD Horn Peak 7 1/2'
MAP PUEBLO
PROD A 50 lb sample shipped yielded 95% recovery of 1.70% U3O8, 6.90% CaCO3, and a U3O8:V2O5 ratio of 1:1. Average grade is 0.70% U3O8.
BKG 500 to 800 cpm
RNG To 35,000 cpm
HOST The host is Permian Sangre de Cristo Formation. It is a fine- to medium-grained, micaceous quartz sandstone. It ranges in color from green to grayish green to red, and where it is radioactive it becomes very dense, and black. The cement is primarily CaCO3, with some silica. Crinoids and brachiopods can be found in the beds.
STRC An anticline has uplifted the area. Its axis runs approximately northwest-southeast. A fault cuts the axis, producing jointed, slickensided bedding planes. The mineralized zone can be traced for more than 1,000 ft along the dip.
MNZ The ore-bearing units are confined to the upper and lower bedding planes. A black material (probably one of the primary uranium minerals) occurs between sand grains. Only minor occurrences of yellow-green, non-fluorescent secondary minerals occur. Sample sent for analysis ranges from 0.55% to 1.70% U3O8. Grab samples in the field register 0.4 to 1.10 mr/hr.
DOI 1956

John Spalding
LOCATION: NE1/4NE1/4 sec. 13, T. 21 S., R. 71 W.
QUAD Mount Tyndall 7 1/2'
MAP PUEBLO
Custer County

King Midos and Bonanza Claims (King Midos No. B)

LOCATION: sec. 17, T. 24 S., R. 73 W.
LCRM Sec. 19, T. 23 S., R. 73 W., sec. 1, T. 45 N., R. 11 E.
QUAD Horn Peak 7 1/2
MAP TRINIDAD
PROD According to U.S. A.E.C. Records, in 1966, 0.22 tons of ore averaging 0.39% U3O8 and containing 2 lbs of U3O8 was produced from the King Midos No. 7 Claim.
BKG Aver. .15 mr/hr
RNG To 2.0 mr/hr
HOST The host is the Permian Sangre de Cristo Formation.
MNZ In slightly metamorphosed conglomerates, arkosic sandstones and shales - cohnite and uranophane - richest nearest base of bed from 6 in. to 18 in. - Carbon associated with ore. One sample submitted for analysis assayed 1.1% U3O8. Some carnitite and tyuymunite were detected.
DOI 1951

Lee Jones Ranch

LOCATION: SE 1/4 sec. 34, T. 21 S., R. 71 W.
QUAD Mount Tyn dall 7 1/2'
MAP PUEBLO
DVEL There is one three ft prospect pit.
BKG .90 mr/hr
RNG To 11.0 mr/hr
HOST The prospect pit is in microcline granite.
MNZ No mineralization was visible except some iron minerals. A grab sample assayed 0.089% eU and 0.056% U.
DOI 1951

Lucky Find (Lucky Strike)

LOCATION: SW 1/4 sec. 33, T. 21 S., R. 71 W.
QUAD Mount Tyn dall 7 1/2'
MAP PUEBLO
DVEL Two 15 ft prospect shafts and several smaller pits are present on the property.
BKG 1.0 mr/hr
RNG 4.0 to 36.0 mr/hr
HOST The host is an injection gneiss with pre-mineralization lamprophyre paralleling the vein. The mineralization lies in a Tertiary(? barite vein.
STRC The vein strikes roughly N70°W for 1,500 ft, dips vertically and is two to seven ft wide.
MNZ Thorite, barite and chalcopyrite in a quartz gangue are the ore minerals present. Samples assayed between 0.004% and 0.015% eU3O8 and 0.001% U3O8.
DOI 1951

Mystery Lode

LOCATION: SE 1/4SW 1/4 sec. 26, T. 21 S., R. 71 W.
QUAD Mount Tyn dall 7 1/2'
MAP PUEBLO
BKG 5.0 mr/hr
RNG 12.0 to 20.0 mr/hr
HOST The wall rock is a Precambrian injection gneiss with foliation striking N60°E and dipping 85°W.
STRC A vein crosscuts the gneiss with a six in. shear zone on the east side. It strikes N15°W and dips 60°W, with a width of one to two ft.
MNZ Primary ore minerals include barite, sphalerite, galena, chalcopyrite and rhodochrosite. Gangue minerals are milky and smoky quartz. Grab samples from the dump assayed 0.036% to 0.097% eU, but only 0.001% chemical U.
DOI 1951

Nightengale Claim (Atomic Mountain Group, Nightingale, Thorium Mountain)

LOCATION: SW 1/4SW 1/4 sec. 15, T. 22 S., R. 71 W.
LCRM The CRIB File lists this in sec. 21 and 22.
QUAD Mount Tyn dall 7 1/2'
MAP PUEBLO
DVEL There is one 6x8x6 prospect pit and several smaller pits.
BKG .90 mr/hr
RNG To 4.0 mr/hr
HOST The host is a Precambrian amphibolitic granite gneiss, gabbro, migmaitite and pegmatite cut by Tertiary(? barite veins in a shear zone. The exposures are very poor.
STRC The vein strikes N45°W for at least 500 ft, dips vertically, and is five ft wide.
MNZ Thorite, galena, fluorite, and pyrite are present in a barite and quartz vein. One sample assayed 0.049% eU3O8 and 0.001% U3O8. Rare earths are present.
RMKS Several claims are in the same area. They include Mystery Claim, Lucky Find, Starbuck, General-lke and Thorium Mountain Claims.

DOI 1972


Pennie Poker

LOCATION: NE1/4 sec. 7, T. 21 S., R. 71 W.
QUAD Mounty Tyndall 7 1/2'
MAP PUEBLO
DVEL There is a 25 ft shaft and a tunnel. The shaft is cut in the gouge and shear zone.
BKG 5.0 mr/hr
RNG 30.0 mr/hr
HOST The deposit lies in a mesothermal vein of unknown age, cutting an injection gneiss that strikes N20°W and dips 80°N for a distance of 1,800 ft.
STRC The deposit is controlled by a 4.5 ft shear zone with 8 - 12 in. gouge on the footwall.
MNZ Galena and the unknown radioactive substance are the primary ore minerals. Quartz, hematite-limonite, barite, and iron carbonate are the secondary minerals. A grab sample from the dump assayed 0.064% eU and 0.001% chemical uranium.

DOI 1951


Rare Earth Special 1, 2, 4

LOCATION: sec. 4, T. 22 S., R. 71 W.
LCRM Also listed in sec. 3 by U.S. Bur. of Mines.
QUAD Mounty Tyndall 7 1/2'
MAP PUEBLO
DVEL There is one small shaft, and several prospect pits.
BKG .02 mr/hr
RNG 2.5 av., 1-.7 mr/hr
HOST The host is Precambrian microcline granite and hornblende-plagioclase gneiss trending N85°E and dipping 45°NW, cut by a Precambrian(?), thorium vein.
STRC The ore is in a three foot andesite dike trending N10°W filling a shear zone.
ALT The andesite dike is completely altered to a pisolithic-like rock.
MNZ Ore minerals include limonite, calcite, and iron oxides, and possibly some barite. Samples assayed ranged from 0.078% to 0.20% eU, 0.002% to 0.003% U, and 0.43% to 1.09% eTh02. The gangue is a red feldspar and quartz combination.
RMKS The claims also lie in sec. 3, T. 22 S., R. 71 W.

DOI 1953


Sewell Ranch

LOCATION: N1/2 sec. 4, T. 22 S., R. 70 W.
QUAD Hardscrabble Mountain 7 1/2'
MAP PUEBLO
DVEL Two adits, one shaft, and several prospect pits were dug.
BKG .6 mr/hr
RNG To 2.4 mr/hr
HOST The occurrence is in a Tertiary thorium vein cutting Precambrian granite and hornblende gneiss.
STRC The mineralized vein strikes N45°W, and dips 80°E. It is roughly 1,000 ft long, averages 8 ft wide, and is at least 40 ft deep.
MNZ Thorite and a trace of galena could be visually identified, with quartz, barite, and limonite forming the gangue. The thorite appears to be more recent than the quartz and barite. Assays show eU ranging from 0.010% to 0.11%, chemical U ranging from 0.001% to 0.002%, eTh02 ranging from 0.051% to 0.516%, and chemical Th02 ranging from 0.00 to 0.02%. Rare earths comprise from 0.03% to 0.06% of the vein, with Th, Y, La, Ce and Nd all present. Manganese account for 0.309% to 0.570% of the vein.

DOI 1952


Sunshine Valley Lode

LOCATION: sec. 32, T. 22 S., R. 71 W.
LCST UNCERTAIN
LCRM Also see sec. 33. This should probably be T. 21 S., R. 71 W., sec. 32 or 33, because the deposit is described as being "north of Brush Hollow road".
QUAD Mounty Tyndall 7 1/2' or Rosita 7 1/2'
MAP PUEBLO
DVEL There is one prospect pit.
BKG .02 hr/hr
RNG .15 to 1.8 hr/hr
HOST The host consists of metamorphic Precambrian gneisses, cut by Tertiary thorium veins.
MNZ Radioactive minerals are not visible, but are probably disseminated thorite primarily. The gangue is composed of quartz, red barite, and limonite.

DOI 1953


Swartz Ranch (Unnamed)

LOCATION: SW1/4 sec. 9, T. 22 S., R. 71 W.
LCRM The deposit is north of the Schwartz ranch buildings down Tyndall Gulch.
QUAD Mounty Tyndall 7 1/2'
MAP PUEBLO
DVEL There are two prospect pits.
BKG .6 mr/hr
RNG To 24.0 mr/hr
Custer County

HOST The host is Precambrian metasediments and minor granite cut by Tertiary (?) veins. The mineralized area is in a silicified dike that fills the shear zone.

STRC The shear zone (and dike) strikes N28°W for a length of 1,800 ft.

MNZ The ore mineral is thorite (?), with a gangue of silicified dike rock, limonite, and hematite. Samples assayed between 0.40% and 1.2% eU, 0.005% U, and between 1.71% and 6.51% ThO2.

DOI: 1952


Thorite Mother Lode 1, 4

LOCATION: sec. 34, T. 21 S., R. 71 W.

QUAD Pueblo

HOST The host is a series of Precambrian metamorphics cut by a Tertiary thorium vein.

ALT The vein appears to be a replacement of a syenite dike.

MNZ No visible radioactive minerals are present, but probably occur as disseminated thorite (?). Barite, red feldspar, and iron oxides make up the gangue.

DOI: 1953

DELTA COUNTY

There has been no production of uranium from Delta County, and the potential for reserves within the county is small.

The county is largely underlain by Cretaceous and Tertiary sediments. A large portion is covered by three formations, the Upper Cretaceous Mancos Shale and Mesaverde Group, and the Tertiary Wasatch Formation. On the northern edge of the county volcanic rocks cover Grand Mesa.

Six of the eight occurrences in the county are radioactive springs. The other two occurrences are of the sandstone type, but the validity of one is questionable. One reason for the low uranium potential is that most spring occurrences do not indicate ore bodies. Secondly, the Upper Cretaceous and Tertiary rock units in the county are not considered favorable hosts for uranium. Although host rocks that characterize the Uravan mineral belt are found in the subsurface of Delta County, the projected trends from that belt do not point to Delta County. One final point, however, is that some springs in the county are radioactive due to uranium. Most radioactive springs are anomalous due to radium and radon. This difference may indicate possible uranium mineralization at depth in the area of the springs.
**Delta County**

**Austin Springs**

LOCATION: NW1/4SE1/4SE1/4 sec. 31, T. 14 S., R. 94 W.
LCRM NW1/4NE1/4NE1/4 sec. 6, T. 15 S., R. 94 W. - Southern Spring.
QUAD Orchard City 7 1/2'
MAP MONTROSE
HOST Radioactive spring deposit in Dakota Sandstone.
STRC N-S Fault with Dakota on eastern upthrown side.
MNZ 60 ppm, (eU).
RMKS Reportedly not as radioactive as springs to east.
DOI 1976

**Colonel Chinn Artesian Well**

LOCATION: SW1/4NE1/4NE1/4 sec. 14, T. 14 S., R. 92 W.
QUAD Hotchkiss 7 1/2'
MAP MONTROSE
RMKS Cased oil test well filled with warm water (104°F) near farm house. Not anomalous in comparison to other water. However, the radium/uranium disequilibrium is high. Radium is enriched by a factor of 880 times.
DOI 1976

**Doughty Spring**

LOCATION: NE1/4NW1/4NW1/4 sec. 11, T. 15 S., R. 93 W.
LCRM Small spring that drains into Bathtub Spring.
QUAD Lazeer 7 1/2' and Hotchkiss 7 1/2'
MAP MONTROSE
HOST Radioactive spring deposit in Dakota Sandstone.
STRC Bedding planes (?)
MNZ Maximum of .55% (eU308). Probably due to radium. This measurement taken on travertine deposit around spring.
RMKS Area contains at least 7 springs over a length of 50 ft. These include Thorium, Drinking, Bathtub, Alum, and Black Springs, among others.
DOI 1976

**Geysers (Lucky Strike Claims 1 - 30)**

LOCATION: SE1/4NW1/4 sec. 5, T. 15 S., R. 94 W.
LCRM South terrace of Gunnison River.
QUAD Orchard City 7 1/2'
MAP MONTROSE
HOST Radioactive spring deposits.
MNZ 90 ppm (eU).
RMKS Travertine is a bright rust color.
DOI 1976

**Hotchkiss National Fish Hatchery**

LOCATION: NE1/4SW1/4SE1/4 sec. 3, T. 15 S., R. 93 W.
LCRM Spring in old adit.
QUAD Lazeer 7 1/2'
MAP MONTROSE
HOST Radioactive spring deposit in Cretaceous Dakota Sandstone.
MNZ 2500 ppm (eU).
DOI 1976

**L. B. Wyman Property**

LOCATION: sec. 15, T. 51 N., R. 13 W.
LCRM "11 miles west of Delta on U.S. Highway 50, then 3.8 miles south to Gunnison River bridge, then 8 miles south of bridge up Escalante Canyon."
QUAD Good Point 7 1/2'
MAP MOAB
HOST Dinosaur bone in sandstone lens and mud galls in a basal conglomeratic lens of the Salt Wash Member of the Morrison Formation of Jurassic age.
STRC Channels.
MNZ Carnotite? Mineralized zone estimated to be 5 ft by 10 ft.
DOI 1954
REF U.S. A.E.C., Preliminary Reconnaissance Reports, Delta County, Colorado (open-filed).

**Little U Claims**

LOCATION:
LCST UNLOCATABLE
LCRM Original directions to occurrence are as follows: "Approximately 15 miles due east of Delta, off Ute trail up Gunnison Canyon, 1/2 mile from Montrose County line".
DVEL Claim owners were given as follows: E. L. Ensley, J. C. Ensley, Dave Buligh, Kenneth Cole.
MNZ 1 sample described as float and submitted by owner had a value of .15% U308.
RMKS Location was not visited and all information is from owners. Only way to verify location would be to check Delta County Claim records.
DOI 1954
REF U.S. A.E.C., Preliminary Reconnaissance Report, Delta County, Colorado (open-filed).

**Sulfur Gulch**

LOCATION: NE1/4SW1/4SE1/4 sec. 36, T. 14 S., R. 94 W.
QUAD Lazeer 7 1/2'
MAP MONTROSE
HOST Radioactive spring deposit in Dakota Sandstone.
STRC Joint faces.
MNZ 60 ppm (eU).
RMKS Travertine accumulated as a cement of old gravel beds. Abundant Sulfur has resulted in rocks being quarried for soil conditioner.
DOI 1976
DENVER COUNTY

Although no occurrences of uranium have been reported in the county, a slight possibility exists that occurrences may be found in the subsurface. However, the probability that they would ever be exploited is extremely small.
DOLORES COUNTY

Production from the county has not been great. About 285 tons of uranium/vanadium ore were mined in the county as of 1971. Nearly half of that came from the South Barlow Mine, which produced ore from the Jurassic Entrada Sandstone. Several of the smaller mines were listed with production from the Jurassic Morrison Formation. Potential for reserves to be found in the county is favorable even though the county lies south of the Uravan belt.

Dolores County is in the southwestern part of the state in typical sedimentary terrane of the Colorado Plateau. The western part of the county is dominated by plateaus and mesas capped by Cretaceous Dakota Sandstone, with Pennsylvanian to Jurassic sediments exposed in the canyons between the mesas. The central part of the county is largely covered by the Upper Cretaceous Mancos Shale and the Mesaverde Group, with older formations exposed along the flanks of the drainages. The Rico Uplift and its associated features dominate the structural picture in the eastern part of the county. The uplift was caused by laccolithic and sheet intrusion of magmas into the sediments and by vertical uplift. The Dolores River and its tributaries deeply dissect the uplifted rocks.

The two most important occurrences in the county are the Blue Eagle Mine and the South Barlow Mine. The Blue Eagle Mine produced ore from the Salt Wash Member of the Jurassic Morrison Formation. The South Barlow Mine produced from the Jurassic Entrada Sandstone. These mines, as well as the others, lie primarily in two areas, near Dunton, and along the Dolores River.

The county lies southeast of the primary uranium-producing areas of the Colorado Plateau, but carnotite deposits are found in many exposures of the Jurassic Morrison and Entrada Formations. Areas with potential for further reserves include exposures of these two formations, especially along the course of the Dolores River and along the county's northwestern borders where mining is still taking place.
Delores County

Arrow Head (Arrowhead Group)

LOCATION: sec. 18, T. 41 N., R. 17 W.
QUAD Delores Peak 1/2
MAP CORTEZ
DVEL There had been 62 tons mined by 1971, at grades of 0.18% U3O8 and 2.36% V2O5, producing 226 lbs of U3O8 and 2,929 lbs of V2O5.
HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, uranium and vanadium are present.
DOI 1975

Broken Thumb 2 (Bottle & Jug)

LOCATION: W1/2 sec. 19, T. 41 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show E1/2 sec. 4, T. 41 N., R. 78 W.
QUAD Secret Canyon 1/2
MAP CORTEZ
DVEL Surface and underground workings are present.
PROD As of 1971, there had been 13 tons of ore mined at grades of 0.20% U3O8 and 2.48% V2O5, producing 53 lbs of U3O8 and 644 lbs of V2O5.
HOST The deposit occurs in the Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uranium mineralization with carnotite and tyuyamunite recognized.
DOI 1972

Black Hat (Legion Group)

LOCATION: LCST UNCERTAIN
PROD By 1971, there were 10 tons of ore mined at grades of 0.32% U3O8 and 0.65% V2O5, producing 65 lbs of U3O8 and 131 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite and/or coffinite were recognized.
DOI 1971

Blue Eagle 1

LOCATION: sec. 7, T. 38 N., R. 19 W.
PROD There had been 62 tons mined by 1971, at grades of 0.18% U3O8 and 2.36% V2O5, producing 226 lbs of U3O8 and 2,929 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Mineralization is of the carnotite - tyuyamunite type.
DOI 1971

Blue Eagle Mine

LOCATION: sec. 36, T. 41 N., R. 11 W.

Rico Argentine Mine (Rico Argentine Mining Company)

LOCATION: sec. 24, T. 40 N., R. 11 W.
LCST UNSURVEYED
DOLORES COUNTY

LCRM About 3 miles north of Rico on east side of Dolores River.

QUAD Rico 7 1/2'

MAP CORTEZ

DVEL The mine has extensive underground workings, including the Blaine Tunnel, Argentine Tunnel, and Black Hawk level.

BKG .02 to .04 m/r/hr

RNG .1, .15, to .2 m/r/hr

HOST The workings at the Blaine Tunnel are in the Pennsylvanian Hermosa Formation.

STRC The tunnel is cut by the Black Hawk vein, which strikes ESE, and dips nearly vertically.

MNZ The radioactivity is associated with a pyrite-quartz aggregate, massive in character, in a sandstone adjacent to the Black Hawk vein in the Blaine tunnel. Other minerals present include galena, sphalerite, chalcopyrite, silver, gold, secondary copper minerals, and pyrite crystals. A grab sample collected from the floor to the back in the area of highest radioactivity of the Blaine Tunnel assayed 0.017% U and 0.009% U. This sample was taken in an area approximately 1,750 ft from the portal.

DOI 1953


Silver Swan

LOCATION: sec. 2, T. 39 N., R. 11 W.

QUAD Rico 7 1/2'

MAP CORTEZ

DVEL Mining was carried out from underground workings, no record of uranium production.

HOST The host is probably Jurassic Entrada Sandstone.

MNZ Silver, gold, zinc and uranium mineralization are all present.

DOI 1975


South Barlow

LOCATION: sec. 10, T. 40 N., R. 10 W.

LCST UNCERTAIN

LCRM The location assigned for this was the same as for the Barlow Group. It is assumed that they are close, although each had its own production figures.

QUAD Hermosa Peak 7 1/2' (?)

MAP DURANGO

PROD 115 tons of ore were mined as of 1971 at grades of 0.11% U3O8 and 2.79% V2O5, producing 254 lbs of U3O8 and 6,419 lbs of V2O5.

HOST The host is the Jurassic Entrada Sandstone.

MNZ Mineralization is probably roccoelite.

DOI 1971

DOUGLAS COUNTY

There has been no production of uranium from Douglas County. Few occurrences have been reported within the county.

The county is divided into two geological terranes. The eastern part of the county is underlain by flat-lying Tertiary sediments. The western half is a complex area of Precambrian rocks, including the Pikes Peak Granite and gneisses, schists and quartzite of the Idaho Springs Formation. The northern end of the Woodland Park Graben extends into the southern part of the county.

Two occurrences are associated with shear zones and pegmatites in the Precambrian rocks. A third occurrence is found in clay in the sediments of the Dawson Formation from the northeastern section of the county.

There is some potential for resources to be found in both geological environments. The eastern part of the county is in the Denver Basin. There has been considerable interest in the basin as a host for sandstone type occurrences, especially in the Tertiary Dawson Arkose. However, no commercial deposits are known within the formation. The Precambrian rocks of the Idaho Springs Formation are the hosts for uranium at the important Schwartzwalder Mine near Golden, and the potential exists for a similar type of deposit in Douglas County.
DOUGLAS COUNTY

Highland Ranch (Airborn Anomaly No. 1, Phipps Ranch)

LOCATION: sec. 12, T. 6 S., R. 68 W.
QUAD Highland Ranch 7 1/2'
MAP DENVER
BKG .03 mr/hr
RNG .03 to .4 mr/hr
HOST The host is a plastic clay in the Eocene Dawson Arkose.
MNZ A yellow mineral was found in small amounts.
   The zone of radioactivity is about 4 in. thick and lies 12 in. below the surface.
DOI 1955

Kaminski Prospect

LOCATION: E1/2 sec. 23, T. 7 S., R. 69 W.
QUAD Kassler 7 1/2'
MAP DENVER
BKG .05 to .07 mr/hr
RNG .07 to 2 mr/hr
HOST Precambrian pegmatite in quartz mica schist of the Idaho Springs Formation.
MNZ Euxenite type in seams and pods in pegmatite.
DOI 1954

Penley No. 1 Lease

LOCATION: SW1/4 sec. 32, T. 7 S., R. 68 W.
QUAD Kassler 7 1/2'
MAP DENVER
DVEL One 120 ft shaft has been sunk. Four test pits and six holes were drilled.
BKG .017 mr/hr
RNG .017 to 1.0 mr/hr
HOST The host is Precambrian granite and the Pennsylvanian Fountain Formation.
STRC Radioactivity also occurs in the shear zone between the rock types.
ALT The granite is described as being altered and radioactive.
MNZ A yellow mineral thought to be carnotite was observed with iron oxides.
RMKS An outcrop north of the shaft also had anomalous radioactivity.
DOI 1955, 1975
EAGLE COUNTY

Production from Eagle County has been negligible. Records show that by 1971 5 tons of ore had been mined, producing 29 lb of U$_3$O$_8$. There is potential for more ore to be produced from Eagle County.

The geology of the county is complex. Rocks and structures of all types and ages are found within its boundaries. The four major structures in the county are the White River Uplift, the Sawatch Uplift, the Eagle Basin, and the Homestake Shear Zone. The Homestake Shear Zone is a major zone of dislocation in Precambrian rocks of the Sawatch Uplift. In south-eastern Eagle County the uplift exposes Precambrian granite gneisses and migmatites. The Eagle Basin is a late Paleozoic depositional trough that contains large volumes of gypsum, anhydrite, and salt. Uranium occurrences are recorded in many of these rocks types in or adjacent to Eagle County.

Of the 13 occurrences noted in the county, the only two that have recorded production are the Arrowhead 1 and Dorado Claims.

The Arrowhead 1 Claim, located on Red and White Mountain in the center of the county, produced ore from the Triassic Chinle Formation. Another nonproducing occurrence lies in the same area.

The Dorado Claims, located 6 miles west of Vail Pass, produced from the Permo-Pennsylvanian Maroon Formation. Drilling was carried out on the property during the 1950's; however, the area where the drilling delineated some reserves is now covered by Interstate Highway 70.

Eagle County has some potential for uranium reserves. As noted before, many of the rock types contain occurrences within the county or adjoining counties. The Morrison Formation and the Chinle Formation show potential for sandstone-type deposits. Many occurrences in the northern part of the county that have no recorded production are all associated with the Cambrian Sawatch Quartzite and appear to be unconformity-related types of occurrences. A number of occurrences are found in the Tertiary Troublesome Formation and the North Park Formation in the counties to the north. This suggests some potential for similar deposits in the northeastern part of Eagle County.
Arrowhead

LOCATION: NE1/4NE1/4 sec. 14, T. 4 S., R. 82 W.
QUAD Edwards 7 1/2'
MAP LEADVILLE
PROD In 1955, 3 tons were mined at a grade of 0.22% U3O8, and 0.15% V2O5, producing 13 lbs of U3O8 and 9 lbs of V2O5.
BGK .015 mr/hr
RNG .01 to 5.0 mr/hr
HOST Triassic Chinle Formation, conglomerate sandstone of the Shinarump Member.
MNZ Carnotite type mineralization associated with carbon trash.
DOI 1954

Blue-Bell (Lady Bell, Ground Hog 1, Black Eagle Lode, 6 Claims)

LOCATION: sec. 30, T. 5 S., R. 83 W.
LCRM On Horse Mountain.
QUAD Fulford 7 1/2'
MAP LEADVILLE
DVEL 3,500 ft of drifts, various shafts, winzes and cuts.
PROD Assay value of 0.5% U3O8.
BGK .05 mr/hr
RNG .05 to .7 mr/hr
HOST Jurassic Entrada Sandstone.
MNZ Secondary uranium minerals reported from dump of Ground Hog #1 Claim and Black Eagle Lode. Other minerals occurring at the site are chloropyrite, azurite, malachite, chalcolite, roscoelite, cerargyrite, Au, V.
RMKS Any interested persons should read the Preliminary Reconnaissance Reports on the Brush Creek Mining District (especially the Black Eagle Lode) before visiting area.
DOI 1951

Dorado Claims (Little Spring Claims, Golden Fleece, Gringo Claims)

LOCATION: sec. 21, T. 5 S., R. 79 W.
LCRM About 6 miles west of Vail Pass at the confluence of Gore Creek and Miller Creek.
QUAD Red Cliff 7 1/2'
MAP LEADVILLE
DVEL Exploration of this area was carried out during the 1950's under a DMEA loan. Work, including drilling of 14 holes in 1957-1958, and the driving of an adit approximately 80 ft long, was carried out by the Gaddis Mining Company.
PROD In 1966, 2 tons were mined from the Dorado Claims at a grade of 0.40% U3O8 producing 16 lbs of U3O8.
BGK 130 to 180 cps
RNG 600 to 10,000 cps
HOST Permo-Pennsylvanian Maroon Formation, gray to reddish, fine- to medium-grained micaceous sandstone with interbedded limestone and shale.
STRC None apparent although the Gore Fault is nearby. The beds are on the east flank of an asymmetrical syncline.
ALT Sandstone appears to be more reddish in areas of mineralization.
MNZ Uranophane, torbernite, pyrite, uraniferous coal, azurite, malachite.
RMKS Interstate 70 now covers much of the area where drilling was carried out.
DOI 1976

Dorthea 1

LOCATION: T. 2 S., R. 84 W.
LCST UNCERTAIN
LCRM On State highway 301 about 5 miles west of McCoy.
MAP LEADVILLE
BGK .02 mr/hr
RNG .1 to .25 mr/hr
HOST Triassic red beds and Paleozoic siltstone.
STRC Fault controlled.
MNZ No minerals identified.
RMKS Radioactivity follows fault zones and fractures. It is of unknown thickness.
DOI 1954

Horse Mountain Uranium Mines

LOCATION: sec. 25, T. 5 S., R. 84 W.
QUAD The Seven Hermitis 7 1/2'
MAP LEADVILLE
MNZ Uranium, vanadium.
DOI 1975

Lone Tree Claims

LOCATION: sec. 34, T. 4 S., R. 80 W.
LCST UNCERTAIN
LCRM Directions to occurrence are as follows: "From junction of US Highway 6 and 24 drive about five miles east on US Highway 6; turn left and drive for 3.9 miles on dirt road.}
Walk 2,000 ft to the west where limestone is exposed."

LOCATION: SE1/4NW1/4 sec. 18, T. 4 S., R. 81 W.

LCRM Directions to occurrence are as follows: "2.4 miles north of Walcott on Colo. 131. Take right fork for 5.8 miles, take left fork for 2.3 miles. Walk east to rim 400 yds to cut."

LOCATION: sec. 7, T. 2 S., R. 82 W.

LCRM Directions to occurrence as follows: "At RR crossing on State Highway 11, 3.5 miles northeast of State Bridge; park car and follow RR 3/4 mile northeast to abandoned prospectors cabin on northwest side of track. Follow the arroyo past the cabin stay in main channel. Continue for 1/2 mile and you will come to workings."

LOCATION: sec. 6, T. 2 S., R. 83 W.

Tipton Ranch

LOCATION: sec. 6, T. 2 S., R. 82 W.

Tipton Ranch

LOCATION: sec. 6, T. 2 S., R. 83 W.

RNG

HOST Paleozoic limestone, black, fossiliferous, petrolierous.

STRC Major thrusts in area.

MNZ A green mineral was observed. A 2 ft channel sample had a value of 0.01% U3O8.

RMKS Occurrence appears to be in headwaters of Spraddle Creek under Bald Mountain.

DOI 1955


Lucky Strike 1

LOCATION: SE1/4NW1/4 sec. 18, T. 4 S., R. 81 W.

LCST UNSURVEYED

LCRM Directions are as follows: "2.4 miles north of Walcott on Colo. 131. Take right fork for 5.8 miles, take left fork for 2.3 miles. Walk east to rim 400 yds to cut."

LOCATION: sec. 7, T. 2 S., R. 82 W.

LCRM Directions to occurrence as follows: "At RR crossing on State Highway 11, 3.5 miles northeast of State Bridge; park car and follow RR 3/4 mile northeast to abandoned prospectors cabin on northwest side of track. Follow the arroyo past the cabin stay in main channel. Continue for 1/2 mile and you will come to workings."

LOCATION: sec. 6, T. 2 S., R. 83 W.

Tipton Ranch

LOCATION: sec. 6, T. 2 S., R. 83 W.

RNG

HOST Paleozoic limestone, black, fossiliferous, petrolierous.

STRC Major thrusts in area.

MNZ A green mineral was observed. A 2 ft channel sample had a value of 0.01% U3O8.

RMKS Occurrence appears to be in headwaters of Spraddle Creek under Bald Mountain.

DOI 1955


Lucky Strike 1

LOCATION: SE1/4NW1/4 sec. 18, T. 4 S., R. 81 W.

LCST UNSURVEYED

LCRM Directions are as follows: "2.4 miles north of Walcott on Colo. 131. Take right fork for 5.8 miles, take left fork for 2.3 miles. Walk east to rim 400 yds to cut."

LOCATION: sec. 7, T. 2 S., R. 82 W.

LCRM Directions to occurrence as follows: "At RR crossing on State Highway 11, 3.5 miles northeast of State Bridge; park car and follow RR 3/4 mile northeast to abandoned prospectors cabin on northwest side of track. Follow the arroyo past the cabin stay in main channel. Continue for 1/2 mile and you will come to workings."

LOCATION: sec. 6, T. 2 S., R. 83 W.

Tipton Ranch

LOCATION: sec. 6, T. 2 S., R. 83 W.

RNG

HOST Paleozoic limestone, black, fossiliferous, petrolierous.

STRC Major thrusts in area.

MNZ A green mineral was observed. A 2 ft channel sample had a value of 0.01% U3O8.

RMKS Occurrence appears to be in headwaters of Spraddle Creek under Bald Mountain.

DOI 1955


Lucky Strike 1

LOCATION: SE1/4NW1/4 sec. 18, T. 4 S., R. 81 W.

LCST UNSURVEYED

LCRM Directions are as follows: "2.4 miles north of Walcott on Colo. 131. Take right fork for 5.8 miles, take left fork for 2.3 miles. Walk east to rim 400 yds to cut."

LOCATION: sec. 7, T. 2 S., R. 82 W.

LCRM Directions to occurrence as follows: "At RR crossing on State Highway 11, 3.5 miles northeast of State Bridge; park car and follow RR 3/4 mile northeast to abandoned prospectors cabin on northwest side of track. Follow the arroyo past the cabin stay in main channel. Continue for 1/2 mile and you will come to workings."

LOCATION: sec. 6, T. 2 S., R. 83 W.

Tipton Ranch

LOCATION: sec. 6, T. 2 S., R. 83 W.

RNG

HOST Paleozoic limestone, black, fossiliferous, petrolierous.

STRC Major thrusts in area.

MNZ A green mineral was observed. A 2 ft channel sample had a value of 0.01% U3O8.

RMKS Occurrence appears to be in headwaters of Spraddle Creek under Bald Mountain.

DOI 1955

EAGLE COUNTY

HOST A 12 ft micaceous shale at the bottom of the Cambrian Sawatch Formation composed of vermiculite, mica, silt, fine sand.

STRC Angular unconformity on Precambrian rocks.

MNZ No uranium minerals identified.

DOI 1954

No production has been recorded from Elbert County, which lies in north-central Colorado on the Great Plains. Only one occurrence is reported.

The county is within the structural Denver Basin. The Tertiary Dawson Arkose, Denver Formation, and the Cretaceous Laramie Formations and Fox Hills Sandstone that crop out within the county dip gently toward the center of the basin. Exploration has been sporadic in the county. Although the Dawson Arkose has been a favorable exploration target, apparently no significant anomalies have been found.

The one radioactive occurrence in the county is of thorium and not uranium and consists of an ancient placer deposit of heavy-mineral black sand. The probability that this deposit will become economic is small. Potential uranium reserves could be found in sandstone-type deposits in the Tertiary Dawson Arkose and Cretaceous Laramie-Foxhills Formations host rocks. Much water sampling has identified anomalies in Douglas County and in El Paso.
EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
  LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE

- OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET

Figure 13. Radioactive mineral occurrences in Elbert County, Colorado.
Elbert County

Limon Locality

LOCATION: sec. 14, T. 8 S., R. 58 W.
LCRM Also sec. 23 and 32.
DVEL The anomalies were located in 1956 as part of a U.S. A.E.C. airborne radiometric program. Some shallow drilling was carried out on one anomaly.

PROD No production.

HOST Brown to black friable sandstone of the lower part of the Upper Cretaceous Laramie Formation. This bed was deposited as a heavy minerals breach placer in a regressive sandstone series similar to placer deposits of the same age in New Mexico and southwest Colorado.

MNZ Minerals include garnet, zircon, and magnetite. These minerals are concentrated in thin bands separated by sandstone with lesser amounts of minerals. Drill cuttings had the following values: %eU308 .014-.020; %U308 .005; %eTh02 .05-.07.

DOI 1959

Production from the county has been small with only 108 tons of recorded production containing 277 lb of U₃O₈. There is potential for more reserves to be found in the county.

El Paso County lies in the east-central part of the state. The geology is divided into Precambrian rocks in the Front Range and Rampart Range on the west and sedimentary rocks in the Denver Basin on the east. Through the center of the county lie steeply upturned beds along the western edge of the Denver Basin abutting the eastern margin of the mountains. A complete range of Paleozoic through Cenozoic rocks are exposed in the county.

Five hundred tons of ore yielding both uranium and thorium are reported to have come from the St. Peters Dome 1, a mine in the Precambrian Mt. Rosa Granite. However, no production for this mine was recorded in the AEC Production Records. The second (?) largest producer in the county was the Lucky Ben Lease. The deposit, found in the Cretaceous Dakota Sandstone, yielded 108 tons of uranium ore containing 277 lb of U₃O₈.

Important radioactive occurrences within the county fall into two broad categories: uranium, thorium, and rare earths in the Precambrian rocks, and uranium in the sedimentary rocks along the front of the Rampart Range. The Precambrian rocks around St. Peters Dome and Mount Rosa area contain uranium, thorium, and rare earths in veins, stringers, and pegmatites, with some possible segregation of the various elements. Uranium occurrences have been reported in the Pennsylvanian Fountain Formation, Jurassic Morrison Formation, Lower Cretaceous Dakota Sandstone, Upper Cretaceous Fox Hills Sandstone, and the Tertiary Dawson Formation and Ogallala Formation. The Dakota Sandstone on the east flank of the Turkey Creek anticline, southwestern El Paso County, contains coffinite and uraninite ore. The ore, approximately 80 ft deep, is concentrated in irregular but concordant bodies up to a few hundred tons in size. These are deposits similar to those found in the George Avery Mine in El Paso County, and are examples of the types of ore bodies being sought in the Dakota Sandstone.

Much exploration has taken place and is continuing in El Paso County. Uranium and radioactive occurrences have been found in many of the formations, but those with the most potential are the upturned continental sedimentary rocks along the front of the Rampart Range. These rocks have the best potential because the largest known and highest grade ore bodies found so far in the United States (95%) have occurred in sedimentary formations. Of these, particular attention should be paid to the Dakota Sandstone in the southwestern part of the county, where occurrences are found.

Another rock type with some potential is the Mount Rosa Granite. As mentioned before, it contains uranium and thorium in shears and veins. The granite is an alkaline granite, a rock type just now receiving attention as a new type of uranium host. A report on the subject of alkaline rocks was published as this report went to press. Those who are interested should consult Murphy, M., and others, 1978, Uranium in Alkaline Rocks, U.S. Department of Energy, Grand Junction Office, GJBX-(78)78, 185 p.
17. Airborne Anomaly

LOCATION: sec. 28, T. 12 S., R. 62 W.
LCRM From Calhan go west on U.S. 24 for 1.8 miles and turn left onto dirt road. Go for 1.0 mile and continue straight ahead at crossroad for 2.1 miles. Now turn right onto old dirt track road about 200 yds past house and go for 0.6 miles to the edge of the pit. The anomaly is in the pit.
QUAD Holcom Hills 7 1/2'
MAP PUEBLO
DVEL There is an old pit that was mined for clay.
BKG .02 mr/hr
RNG To .05 mr/hr
HOST The deposit is in a sandstone of the Tertiary Ogallala Formation with intercalated multi-colored clay members and conglomerate. The sandstone is coarse-grained, loosely cemented, and white in color. A black, carbonaceous clay accounts for the radioactive anomaly.
MNZ Caliche, hardpan and iron staining.
RMKS Several small prospect pits were dug to determine if the radioactivity increases with depth, but the results were negative.
DOI 1954

B. F. Reed Claim

LOCATION: NE1/4 sec. 8, T. 15 S., R. 67 W.
LCRM North of St. Peter's Dome.
QUAD Manitou Springs 7 1/2'
MAP PUEBLO
HOST The deposit occurs in pegmatite dikes of the Precambrian Pikes Peak Granite.
STRC No radioactive minerals were visible, but radioactivity appears to be in a pegmatite dike. Quartz, fluorite and iron oxide stains and coatings are present.
MNZ Uranium mineralization was found.
DOI 1952

Bluebird

LOCATION: sec. 9, T. 15 S., R. 67 W.
QUAD Manitou Springs 7 1/2'
MAP PUEBLO
DVEL The prospect produced ore in the past.
HOST The host is Precambrian Idaho Springs Formation.
MNZ The uranium occurs in a pegmatite.
DOI 1971, 1975

Burgess Claim

LOCATION: NE1/4 sec. 22, T. 12 S., R. 66 W.
LCRM The occurrence is at the Diamond J. Ranch.
QUAD Pikeview 7 1/2'
MAP PUEBLO
PROD A grade of 0.52% U3O8 has been reported.
HOST The host is the Eocene Dawson Arkose.
MNZ The ore occurs as a uraniferous limonite.
DOI 1973

Dorothy O. Claim

LOCATION: sec. 8, T. 15 S., R. 67 W.
LCRM Northeast of St. Peter's Dome.
QUAD Manitou Springs 7 1/2'
MAP PUEBLO
DVEL There has been some underground mining carried out.
BKG .04 mr/hr
RNG To .5 mr/hr
HOST Some uranium mineralization was found.
DOI 1975

Duffields Property (Duffields Deposit, Leyte Claim)

LOCATION: NE1/4 sec. 20, T. 15 S., R. 67 W.
QUAD Mt. Big Chief 7 1/2'
MAP PUEBLO
DVEL Some underground mining has been carried out.
PROD Seven (7) tons of fluorspar and uranium ore were produced in 1945.
HOST The deposit is of a vein type in the Precambrian Pikes Peak Granite.
STRC A north-trending series of shear joints and minor faults cut across the area.
MNZ Fluorite and uranium minerals were both found.
DOI 1975

Folbre 2

LOCATION: sec. 15, T. 17 S., R. 67 W.
QUAD Mt. Big Chief 7 1/2'
MAP PUEBLO
DVEL One trench, 7 ft x 3 ft, has been opened in the side of the hill. It strikes S70°E.
HOST The radioactive zone is in a black shale about 12 in. thick and 5 ft wide at the top of the Jurassic Morrison Formation.
MNZ Uranium mineralization was detected.
DOI 1975

Mike Doyle Carnotite Deposit (Lucky Ben Lease)

LOCATION: SW1/4 sec. 2, T. 16 S., R. 67 W.
QUAD Cheyenne Mountain 7 1/2'
MAP PUEBLO
DVEL In 1955, 108 tons of ore were mined with an average grade of 0.13% U3O8 and containing 277 lbs of U3O8.
HOST The host is the Cretaceous Dakota Sandstone.
MNZ Carnotite was the principal mineral noted.
RMKS Ore was shipped under name "Lucky Ben Lease".
DOI 1975
Mobil Oil Corporation Drill Hole 2

LOCATION: SE1/4 sec. 12, T. 15 S., R. 62 W.
LCRM This is the main hole. There are offsets to the north, south, east, and west.
QUAD Big Springs Ranch 7 1/2'
MAP PUEBLO
DVEL Exploration holes have been drilled.
RNG To 2,050 cps
HOST The Upper Cretaceous Fox Hills Sandstone is the host. Mineralization is near the top of the formation, and coaly beds are generally associated with it.
ALT No alteration or oxidation is present.
MNZ A section of the formation about 6 ft thick is mineralized, with count to 2,050 cps (0.01 to 0.02% U3O8).
RMKS This deposit appears to be an impounded playa or similar feature, rather than a roll front deposit. It is thought that the mineralization is syngenetic.
DOI 1977
REF Ken Holmes, 1977, Personal Communication.

Mobil Oil Corporation Drill Hole 1

LOCATION: NW1/4 sec. 22, T. 15 S., R. 62 W.
LCRM There are offsets to the main hole to the north, south, east, and west.
QUAD Hanover NE 7 1/2'
MAP PUEBLO
DVEL Exploration holes have been drilled.
RNG 600 to 900 cps
HOST The Upper Cretaceous Fox Hills Sandstone is the host. Mineralization is near the top of the formation and is generally associated with coaly beds.
ALT No alteration or oxidation is present.
MNZ Three to six ft of the formation gave a count of 600 to 900 cps.
RMKS This deposit appears to be an impounded playa or similar feature rather than a roll front. It appears that mineralization is syngenetic.
DOI 1977
REF Ken Holmes, 1977, Personal Communication.

Morris Prospect (Antonita Valjean)

LOCATION: S1/2 sec. 17, T. 15 S., R. 67 W.
LCRM South of St. Peter's Dome.
QUAD Mount Big Chief 7 1/2'
MAP PUEBLO
HOST These are primarily thorium deposits in pegmatites of the Precambrian Pikes Peak Granite.
MNZ Thorite, hematite, feldspar, mica, riebeckite, and monazite are present. Assays of grab samples range from 0.001 to 0.025% U3O8.
DOI 1951

Rock View Claim

LOCATION: SW1/4 sec. 10, T. 16 S., R. 67 W.
QUAD Mount Big Chief 7 1/2'
MAP PUEBLO
BKG .005 mr/hr
RNG To .012 mr/hr
HOST The deposit lies in a shale unit near the base of a red arkosic conglomerate of the Pennsylvanian Fountain Formation. The Fountain directly overlies Cambrian and Precambrian rocks in this locality.
MNZ No mineralization was visible.
DOI 1954

St. Peter's Dome 2

LOCATION: sec. 17, T. 15 S., R. 67 W.
LCST UNSURVEYED
QUAD Mount Big Chief 7 1/2'
MAP PUEBLO
HOST The host is Precambrian granite cut by pegmatites.
DOI 1977

St. Peter's Dome 1

LOCATION: S1/2 sec. 7, T. 15 S., R. 67 W.
QUAD Manitou Springs 7 1/2'
MAP PUEBLO
PROD Five hundred tons were mined for thorium and uranium.
HOST The host is the Precambrian Mt. Rosa granite.
MNZ Thorium and uranium mineralization were found.
DOI 1977

Unnamed 1

LOCATION: sec. 9, T. 15 S., R. 67 W.
LCRM Northeast of St. Peter's Dome.
QUAD Manitou Springs 7 1/2'
MAP PUEBLO
DVEL Several small, shallow pits have been dug in the area.
RNG 0.09 to 0.55% U.
HOST The deposits lie in pegmatite dikes of the Precambrian Pikes Peak Granite.
MNZ Thorite with quartz, parthite, and muscovite are present. The uranium mineral is not known, but assays range from 0.006 to 0.04% U.
DOI 1952

Unnamed 2

LOCATION: sec. 2, T. 15 S., R. 67 W.
LCST UNCERTAIN
MAP PUEBLO
RMKS Radioactivity reported where Morrison Formation overlies the Precambrian.
Production of either uranium or thorium in the county has been largely limited to uranium from the Tallahassee Creek district. Of 93,949 tons of uranium ore mined and shipped from the county as of 1971, approximately 89,000 tons came from the Tallahassee Creek district. The average grade for the county was 0.25 percent U₃O₈ and total production yielded 464,203 lb of concentrate.

Fremont County encompasses a broad variety of geologic terranes. In the eastern part of the county an extension of the Colorado plains section forms the Canon City Embayment. Here sedimentary rocks ranging from Cambrian to Upper Cretaceous are exposed. West and north of the embayment, Precambrian crystalline rocks of the Front Range and the Wet Mountains cross the county. The northwestern edge of the county borders the Tertiary sedimentary and volcanic sequences in southern South Park. Small, upland, Tertiary intermontane basins found along the edges of the mountains are associated with the extensive Tertiary intrusives and extrusives of the Thirtynine Mile volcanic field. Because of the geologic variety within the county, mineral resources are also varied, ranging from sand and gravel deposits to gemstones, petroleum, base and precious metals, coal, thorium, and uranium.

Besides the Tallahassee Creek area, small amounts of ore were mined from the High Park area, from the Dakota Sandstone in the Canon City Embayment, and from the shear zones in the Precambrian Granites near Cotopaxi.

The Tallahassee Creek mining district is located on the southeastern edge of the Thirtynine Mile volcanic field. The uranium deposits lie in fluvial arkosic and volcanic detritus of late Eocene age occupying paleorainfall in the pre-volcanic erosional surface. The deposits are generally stratiform and less than 200 ft deep. The primary ore is dominantly uraninite in oxidized sediments, but some secondary, oxidized uranium minerals are also found. These basins and the sediments are nearly identical to those in Wyoming, where extremely large uranium deposits are mined.

The first deposits of this type in Fremont County were discovered in 1954 because of two strong radiometric anomalies. Many ore bodies lacked any surface expression, but further drilling and exploration revealed numerous ore deposits. The largest producing mines in the county are in this area and include the Colorado Lease 519, the Dickson-Snooper and Thorne 9 and 10, the First Chance and the Last Chance, the Mary L, Joan 2, Little Abner #1, the Picnic Tree, and Knob Hill. Extensive exploration and drilling have been carried on for the past several years with the result that recently, several larger ore bodies have been found with proven reserves of 30 million pounds of U₃O₈. The major discovery is the Hanson Ore Body belonging to Cyprus Mines. The companies involved in this exploratory effort believe that these deposits are the largest uranium deposits ever found in the Rocky Mountain province. This area should become the major uranium mining district of the state in future years.

Geologically similar to the Tallahassee Creek district is the High Park area. Only small prospects and developments are known within the area, but these are fairly numerous, and are currently being evaluated. The deposits lie in interbedded arkosic sandstone and conglomerate, shaly siltstone, and tuffaceous sediments. The deposits range from 4 to 13 ft in thickness and lie at depths of 4 to 80 ft. The average grade is generally less than 0.2 percent U₃O₈.

Other areas of interest include the Canon City Embayment, the Wet Mountain thorium district, and the Precambrian Granites near Cotopaxi. The uranium deposits in the Canon City Embayment are found in the Dakota Sandstone. Although there are relatively numerous, none large enough to warrant development have yet been found. The thorium occurrences of the Wet Mountains occur primarily to the south in Custer County, but some minor anomalies can be found in Fremont County. The Cotopaxi area contains small uraninite occurrences with minor autunite in veins in the mineralized shear zones in Precambrian granites. Some drilling has been done, but no development has followed.

The Texas Creek area is geographically close and geologically similar to the Cotopaxi area. There, the mineralization primarily occurs disseminated in the shear zones of both the Precambrian granites and Precambrian biotite gneisses. Uraninite, the primary uranium mineral, is found closely associated with fluorite and minor chlorite. Although most of the mineralization is located in the shear zones, some minor anomalies and scattered uraninite grains can also be found disseminated throughout the nearby unshereded granite. Minor development work has taken place in this area, but no large ore bodies have been reported. The Lightning No. 2 is one of the larger prospects, and it is interesting to note that the mineralized zone plunges beneath a cover of volcanics that lie to the south.

The units with the most potential for uranium reserves within the county lie in the Tertiary fluvial arkosic and volcanic detritus of the intermontane basins abutting the Thirtynine Mile volcanic field. The most promising of these lie in and adjacent to South Park and the Tallahassee Creek-High Park areas. These areas have produced in the past and have been shown to contain large reserves of uranium. The shear zones in the Precambrian granites and biotite gneisses near Cotopaxi, and the Dakota Sandstone in the Canon City area, however, should not be overlooked as potential areas, both because large deposits are known to occur in geologically similar strata in other parts of the state, and because proven uranium occurrences have already been found within these areas in this county.
Fremont County

A. E. Jones Claim (Taylor Soda Springs)

LOCATION: NW1/4 sec. 3, T. 17 S., R. 73 W.
QUAD Black Mountain 15
MAP PUEBLO
DVEL There is a shallow pit with a maximum depth of four ft, now filled with water. Some underground work was carried out.
BKG .03 mr/hr
RNG To 3.0 mr/hr
HOST The deposit is in caliche, travertine, and iron deposited around mineral springs. One of the springs is still active, with gas continually bubbling up from it. The spring comes through the Tertiary Echo Park Alluvium.
MNZ Chip and grab samples range from 35 to 65 times background. The radioactive material which may be thorium, appears to be more concentrated in red streams near the springs. Water analyses show 960 ppb U, 460 pc/l radium, and 13,000 pc/l radon.
DOI 1976

A. Griffin Ranch

LOCATION: NE1/4SW1/4 sec. 23, T. 20 S., R. 71 W.
LCST UNSURVEYED
QUAD Royal Gorge 15
MAP PUEBLO
DVEL There are six prospect pits. Some underground mining has been carried out.
BKG 14.0 to 22.0 cps
HOST The host is a Precambrian injection gneiss with intruded parallel lamprophyre. The lamprophyre is secondarily silicified and contains some pyrite. The rocks are cut by barite veins.
STRC There are two veins on the property. One strikes N80°W, and dips 75°S; the other strikes N67°W and dips vertically. They are long and narrow, and extend at least 600 ft along strike.
MNZ Barite, galena, and a red, radioactive mineral are the primary ore minerals, in a gangue of quartz, siderite, and specularite. Samples assayed between 0.005 and 0.089% U, with between 0.001 and 0.098% U by chemical assay.
DOI 1951

Ant Claims

LOCATION: sec. 30, T. 17 S., R. 70 W.
LCST UNSURVEYED
QUAD Sec. 30 extends into sec. 31. The property is located on the Dilley Ranch.
MAP PUEBLO
DVEL There is a 600 ft rim cut.

PROD The cut exposed a log replaced by carnitite, and 3.5 ft layer of sandstone with values of 0.10% U3O8, with pods up to 0.30% U3O8.
HOST The host is a sandstone of the Jurassic Ralston Creek Formation.
MNZ The mineralization is localized by carbonaceous trash in channel sands in fluvial sediments.
RMKS The property as of April, 1977, was leased by Minerals Engineering Company from Trist Exploration of Denver.
DOI 1977

Barbara Claims (True Blue No. 1 Claim, Oliver No. 1 Claim)

LOCATION: NW1/4 sec. 5, T. 18 S., R. 72 W.
LCRM This deposit may also be in the NE1/4 of sec. 6.
QUAD Cover Mountain 15
MAP PUEBLO
DVEL Pits have been dug on a small ridge by bulldozer.
PROD There are no more than a few tons in place.
BKG .04 mr/hr
RNG .4 to 6.0 mr/hr
HOST The host is a very tuffaceous conglomerate; probably Tallahassee Creek Conglomerate, of Oligocene age. The radioactivity is concentrated in the petrified logs present in the formation.
ALT The deposit is oxidized except around a mineralized tree.
MNZ The main mineralization is in an opalized tree approximately 20 ft long. The grade of the tree is probably 1% U3O8. The tree is embedded in a light yellow-white, limonitic, very tuffaceous conglomerate. Surrounding the tree the sediments contain some autunite mineralization, which was very low grade; probably less than 0.05% U3O8.
DOI 1977

Beaver Creek

LOCATION: sec. 17, T. 17 S., R. 68 W.
QUAD Phantom Canyon 7 1/2
MAP PUEBLO
MNZ Uranium mineralization is present.
DOI 1973

Big Bear (Big Hole, Cactus Claims)

LOCATION: sec. 27, T. 18 S., R. 73 W.
LCST UNSURVEYED
LCRM Occurrence extends from secs. 21 & 22 and extends into sec. 28. Directions are as follows: "From Echo Station of the D&RG W.R.R. turn north for one mile along road to claims."
QUAD Cotopaxi 15
MAP PUEBLO
Fremont County

DVEL Discovery pits were dug, and drilling was carried out in 1954.
BKG .015 to .05 mr/hr
RNG .1 to .27 mr/hr
HOST The radioactivity occurs in terrace and channel fillings in arkosic, carbonaceous, sandy siltstones and sandstones that are probably of early Tertiary age. There are late Miocene flows in the area, but no reworked ash material occurs in the radioactive beds, indicating that they are younger than the flows.
MNZ Schoepite was found associated with bedded carbonaceous material. Samples taken had values ranging from .05 to .3 mr/hr.
DOI 1955

Bill and Bud 2 and 4
LOCATION: sec. 34, T. 48 N., R. 11 E.
MAP PUEBLO
DVEL Small open cut.
PROD Between 1955 and 1960, a total of 12 tons of ore were mined at a grade of 0.09% U3O8, and 0.07% V2O5, producing 21 lbs of U3O8, and 16 lbs of V2O5.
HOST The host is a Precambrian pegmatite.
DOI 1971

Brandt Claims
LOCATION: sec. 31, T. 17 S., R. 68 W.
LCRM U.S. A.E.C. Production Records also show sec. 32 and sec. 5 and 6, T. 18 S., R. 68 W.
QUAD Phantom Canyon 7 1/2'
MAP PUEBLO
DVEL There are several exploration pits, and 16 ten ft drill holes; a small ore body was developed, no production.
BKG .03 mr/hr
RNG To .4 mr/hr
HOST The deposit occurs in the Cretaceous Dakota Sandstone.
ALT There is a cap of altered montmorillonite (2) over the Dakota Formation.
MNZ Carnotite and/or tyuyamunite are visible along joint planes and in iron stained zones in poorly consolidated sandstone. Samples taken range from 0.002 to 0.29% euU3O8 and from 0.12 to 0.34% UO3. The drill cuttings showed between 0.0004 and 0.004% eu.
DOI 1950-1958?

Brown Lava Lode (Pink Lady)
LOCATION: sec. 5, T. 20 S., R. 72 W.
QUAD Royal Gorge 15'
MAP PUEBLO
DVEL There are two shallow shafts on the property, and a shallow prospect pit.
BKG .4 to 2.0 mr/hr
RNG 2.4 to 11.0 mr/hr
HOST The rhyolitic host has been fractured and weathered to a brown earthy mass. Mineralization occurs in the fracture zones.
STRC The fracture zones strike N80°W and dip 80°S. They are narrow (about 2 ft) and their length is unknown.
ALT Limonitic alteration occurred in the rhyolite.
MNZ No uranium or thorium minerals could be identified. Samples assayed .019 and .045% eu., and .007 and .027% U.
DOI 1950

Cap Rock Claims (Cap Rock 40)
LOCATION: NW1/4 sec. 29, T. 17 S., R. 72 W.
QUAD Cover Mountain 15'
MAP PUEBLO
DVEL There are several prospects and pits in the area, and drilling was reported in the area.
PROD In 1962, 30 tons of ore were mined at grades of 0.11% U3O8 and 0.02% V2O5, producing 68 lbs of U3O8 and 12 lbs of V2O5.
BKG 200 cps
RNG 200 to 5000 cps
HOST The host is volcanic tuffs and conglomerate in the Oligocene Tallahassee Creek conglomerate.
STRC Cracks in the flows below the conglomerate have a high count and some autunite occurring in them.
MNZ There is a small amount of autunite.
DOI 1977

Claim 2
LOCATION: LCST UNLOCATABLE
MAP PUEBLO
PROD In 1955, one ton of ore averaging 0.40% U3O8 and 0.10% V2O5 and containing 8 lbs of U3O8 and 2 lbs of V2O5 were shipped to the mill at Rifle.
DOI 1971

Colexco No. 1-43 (Red Cliff 30)
LOCATION: sec. 18, T. 17 S., R. 70 W.
LCRM South of Red Canyon Park. This deposit also extends to sec. 7-8 and 17-18.
QUAD Cover Mountain 15'
MAP PUEBLO
DVEL Some prospecting and surface work have been carried out.
PROD 1,407 tons were mined from the Red Cliff 30 during the period 1960-1967, at an average grade of 0.08% U3O8, producing 2,326 lbs of U3O8. Totals include 19 tons at 0.22% U3O8 mined in 1960.

BKG .05 mr/hr
RNG .10 to .60 mr/hr
HOST The radioactivity was found in a member of the Cretaceous Dakota Sandstone over an area 2,000 ft x 3,000 ft and 1 to 6 ft thick. Where the radioactive member outcrops, counts of 30 to 60 times background were observed.

STRC Slickensided vertical fractures, later silicified localized or provided access for the mineralizing solutions.

MNZ The radioactivity is associated with silica, iron, and manganese. Uranophane and carnitite were identified. Assays show from 0.10 to 0.094% eU and 0.080 to 0.92% U. About 0.1% V2O5, and from 0.010 to 0.521% Mn was reported. The mineralization is often found in nodules and concretions in the sandstone.

RMKS Range of radioactive averages .10 to .15 mr/hr with a maximum of .20 to .60 mr/hr.
DOI 1954

Conac Minerals, Inc. Mining Claims (Wagner-Grape Creek Lode)

LOCATION: SW1/4 sec. 7, T. 20 S., R. 71 W.
LCST UNSURVEYED
QUAD Royal Gorge 15'
MAP PUEBLO
DVEL Several old test pits, shallow mine shafts, and adits that were prospected for base metals, gold and silver.
RNG .30 to 1.60 mr/hr
HOST The host is Precambrian granite, gneiss, and hornblende gneiss with granite pegmatites.
STRC Five moderate shear zones, two to five ft wide cut the the granite, with surface expressions traceable for 1/4 to 1/2 mile.
MNZ The oxide zone contains heavy iron oxide with abundant yellow ochre, hematite, limonite, and thorite. Also present in the vein zone are calcite, barite, siderite, galena, quartz, thorite, and copper minerals. The radioactivity is primarily due to thorium.
DOI 1954


Copper Gulch

LOCATION: sec. 25, T. 18 S., R. 72 W.
LCRM Also in sec. 27.
QUAD Royal Gorge 15'
MAP PUEBLO

PROD The average grade of the deposit is 0.28% U3O8.
STRC The deposit occurs along a fault zone that is approximately 20 ft wide and a mile long.
MNZ Ore minerals include autunite, meta-autunite, and tobernite.
DOI 1977

D-C Claims (Qwl Claims, Samargar No. 7 Claim of Karl Pinnel on Dilley Ranch)

LOCATION: sec. 33, T. 17 S., R. 70 W.
LCRM These claims also extend to sec. 34, T. 17 S., R. 70 W., and sec. 3, 4, T. 18 S., R. 70 W.
QUAD Cooper Mountain 7 1/2'
MAP PUEBLO
DVEL Bennett Nuclear drilled seven holes. In 1952, three core holes were drilled, showing grades of 0.023% at 380.0 ft.
PROD Average grade ranged from 0.003 to 0.007% U3O8.
BKG 80 to 100 cps
RNG 200 to 7000 cps
HOST The host is the Cretaceous Dakota Sandstone. Mineralization was found in slump blocks downhill from the outcrop, and traced to the outcrop itself.
STRC The mineralization is localized along the numerous fractures in the sandstone.
ALT The fractures are surrounded by heavy iron staining with which the radioactivity is found.
MNZ The minerals are primarily oxidized. Samples submitted by the owner in the 1950's assayed 0.052% eU3O8 and 0.04% eU3O8.
RMKS As of April 1977, the property was being evaluated by Bennett Nuclear, Denver, Colorado. Part of it, at least, is owned by Trites Drilling and Exploration, Denver, Colorado.
DOI 1977

Deer Ridge Claim

LOCATION: sec. 33, T. 20 S., R. 71 W.
LCST UNSURVEYED
QUAD Royal Gorge 15'
MAP PUEBLO
DVEL Several prospect pits have been opened.
BKG .04 mr/hr
RNG .52 to 1.8 mr/hr
HOST The country rock is Precambrian granite and gneissic granite.
ALT The rock is weathered with limonitic alteration and kaolinitization present and visible.
MNZ Limonite and kaolinite are the only identifiable minerals but the highest radioactive count is associated with them.
RMKS Also in the same area are the Billy Joe, Blue Ridge, and Red Bird Claims, which are only slightly radioactive.
Fremont County

Dickson-Snooper Mine (Ponderosa, Rainbow-Moose
Ore Bodies)

LOCATION: NW1/4 sec. 26, T. 17 S., R. 73 W.
LORM Ben Dickson fee land and claims.
QUAD Black Mountain 15
MAP PUEBLO
DVEL Three open pits: Snooper, Dickson, Rainbow-Moose. Average depth to ore is 45 ft.
PROD During the period 1956-1961, a total of 9,664 tons of ore averaging 0.22% U3O8 and containing 43,149 lbs U3O8 was mined from the Snooper and Dickson pits. Also, 2,247 lbs of V2O5 were recovered. In 1961, 1,071 tons averaging 0.20% U3O8 and containing 4,211 lbs U3O8 were mined from the Rainbow-Moose pit.
HOST Arkosic carbonaceous conglomerate and tuffs in the Oligocene Tallahassee Creek Conglomerate.
MNZ Autunite has been identified.
DOI 1978

Dilley Lease (Dilley Ranch)

LOCATION: sec. 28, T. 17 S., R. 70 W.
QUAD Cooper Mountain 15
MAP PUEBLO
DVEL A 180 ft bench cut was made, and a 14 ft adit driven 585°E.
PROD U.S. A.E.C. records show 19 tons mined at a grade of 0.10% 0.10% U3O8, producing 232 lbs of U3O8 during 1959 and 1960.
RNG .4 to 1.5 mr/hr
HOST The mineralized area is near the base of the Jurassic Morrison Formation. The mineralized zone is a gypsiferous, carbonaceous, black shale bed approximately two ft thick and limonite or jarosite stained. The bed strikes N85°W, and dips 12°S. The coal and carbonaceous material appears to have localized the radioactivity.
MNZ Channel and grab samples examined show .11 to .50 mr/hr radioactivity. Uraninite and coffinite were identified.
DOI 1975

First Chance

LOCATION: sec. 31, T. 17 S., R. 72 W.
QUAD Black Mountain 15
MAP PUEBLO
DVEL Small open pit. Average depth to ore is 45 ft.
PROD During 1959 and 1960, a total of 606 tons of ore were mined having an average grade of 0.19% U3O8 and containing 2,303 lbs of U3O8.
HOST Conglomerates and arkosic sandstone in the Oligocene Tallahassee Creek Conglomerate.
MNZ Uraninite and autunite have both been identified here.
DOI 1978

Hope Dreamer (Dreamer Mine, Dreamer, Delano No. 3-12, Minnesota No. 1)

LOCATION: S1/2 sec. 30, T. 18 S., R. 73 W.
LOST UNCERTAIN
LCRM The CRIB File lists this as being in sec. 2, T. 47 N.; R. 12 E., and in sec. 34, 35, T. 48 N., R. 12 E.
QUAD Cotopaxi 15
MAP PUEBLO
DVEL One small adit has been dug.
PROD One ton of ore at a grade of 0.20% U3O8 was shipped to the mill at Canon City in 1959.
RNG .1 to .01 mr/hr
HOST The host rocks are Precambrian mica schists & hornblende schists, with a siliceous reef cutting them at a steep angle. The schist dips 30°E at the ore occurrence.
MNZ The radioactive mineral is black, probably uraninite or pitchblende, and is associated with pyrite, ilmenite, and hematite. Accessory minerals include mica, magnetite, fluorite, and secondary copper minerals. Assays show 0.032 and 0.053% U3O8.
Fremont County

RMKS Other areas nearby in the wash are also radioactive, and drilling has shown mineralization at a depth of 6 to 8 ft.

DOI 1955.


Gunnison School Section Mine (Colorado Lease 519, Section 36 Mine)

LOCATION: NE1/4 sec. 36, T. 17 S., R. 73 W.

QUAD Black Mountain 15'

MAP PUEBLO

DVEL Surface and underground mining were carried out on this lease. Average depth to ore is 75 ft.

PROD Between 1957 and 1967, the cumulative total was 14,308 tons mined at a grade of 0.24% U3O8, producing 68,116 lbs of U3O8.

HOST The host is a Precambrian conglomerate within the Oligocene Tallahassee Creek Conglomerate. Mineralization is of the uraninite/coffinite type.

RMKS This was a state lease.

DOI 1976


Hanson Ore Body

LOCATION: E1/2 sec. 21, T. 17 S., R. 73 W.

DVEL As of 1978, this ore body had been drilled out with reserves at 30,000,000 lbs of U3O8. Area is an old uranium mining district (Tallahassee Creek). Production to date is from the same and similar horizons. See other occurrences in same area for more geologic information. Production is planned to begin in 1983.

HOST Eocene Echo Park Conglomerate.

MNZ Uraninite.

RMKS This mine will be an important producer in the state in the future. The property is being developed by Rampart Exploration Corp. It is owned by Cypress Mines Corp. Westinghouse Corp. has recently bought 49% interest in the property for approximately $68.6 million.

DOI 1978


Hilltop Prospect

LOCATION: SE1/4 sec. 29, T. 17 S., R. 72 W.

MAP DENVER

DVEL There are two prospect pits.

HOST Conglomerate sand in the Oligocene Tallahassee Creek Conglomerate.

MNZ Uraninite has been identified.

DOI 1978


Homestake 2 & 6 Claims

LOCATION: sec. 3, T. 20 S., R. 73 W.

LCRM Sec. 3 extends into sec. 4.

QUAD Cotopaxi 15'

MAP PUEBLO

DVEL There is a shaft at Homestake No. 2, and prospect pits at Homestake No. 6.

BKG .02 mr/hr

RNG .2 to .8 mr/hr

HOST The host is a Precambrian microcline granite cut by Tertiary shear zones.

STRC A shear zone localized the ore. The Shears extend considerable distances but are poorly exposed and are irregularly radioactive.

MNZ The radioactivity appears to be associated with limonite, but siderite, barite, quartz, fluorite, galena and copper carbonates are also present. Grab samples show between 0.016 and 0.13% U308, and 0.0004 and 0.0013% U308. The samples have calculated ranges of 0.086 to 0.72% eUH2. Spectroscopic analyses showed the presence of Th, Ba, Zr, Pb, La, Ce, Nd, Sm, Y, Vb, and Er.

DOI 1953


Hoyt Adkins Ranch Anomaly 3

LOCATION: sec. 13, T. 18 S., R. 69 W.

LCRM Extends into sec. 14.

QUAD Florence 7 1/2'

MAP PUEBLO

BKG 20 cps

RNG To 1000 cps

HOST The radioactive material is found in a limestone which contains siliceous inclusions in the form of stringers and nodules.

MNZ No radioactive mineral is visible, but the radioactivity seems to be associated with travertine and caliche.

DOI 1953


James-Taylor Lease (Spring Valley)

LOCATION: sec. 2, T. 17 S., R. 73 W.

QUAD Black Mountain 15'

MAP PUEBLO

PROD According to U.S. A.E.C. Records in 1956, six tons averaging 0.10% U308, 0.12% V2O5, and containing 12 lbs U308 and 14 lbs V2O5 were mined.

BKG .07 cps

RNG .4 to .7 cps

HOST The host is a series of lenses of black, carbonaceous, shaly sandstone in a limonite stained, medium- to coarse-grained arkosic sandstone of early Tertiary age. The beds strike north-south, and dip 11° to the east. The largest carbonaceous lens observed was 14 ft long and 2 ft thick.

MNZ No uranium minerals were identified, but primary uranium minerals may be present in the carbonaceous lenses.

DOI 1971

Jesus Lode

LOCATION: sec. 26, T. 18 S., R. 72 W.
LCST UNSURVEYED
QUAD Royal Gorge 15'
MAP PUEBLO
DVEL Two bulldozer cuts are present on the property.
HOST The host is Cretaceous Dakota Sandstone.
STRC Joint planes appear to localize the mineralization.
MNZ Torbernite occurs sparsely disseminated as crystal aggregates on the joint planes. Samples assayed ranged from 0.004 to 0.037% U and from 0.008 to 0.034% chemical U.
DOI 1950

Joan 2 Mine (Seattle Chief Mine)

LOCATION: SE 1/4 NE 1/4 sec. 14, T. 17 S., R. 73 W.
LCRM Property adjoins the Smaller Lease and Little Abner Mine.
QUAD Black Mountain 15'
MAP PUEBLO
DVEL Open pit mine with underground workings off the walls of the pit. Average depth to ore is 125 ft.
PROD During the period 1958-1963, a total of 10,286 tons of ore averaging 0.23 U 3O 8 and containing 47,801 lbs of U 3O 8 were mined.
HOST Arkosic carbonaceous sandstone containing lenses of conglomerate and siltstone in the Eocene Echo Park Alluvium.
STRC The ore body is bounded on the east by the northwest trending Mary L thrust fault which dips 30° to the northeast. The highest grade ore bodies occur along northeast trending normal faults especially where they intersect the Mary L fault.
MNZ Uraninite replacing carbonized vegetated material has been identified. Limonite staining is abundant.
DOI 1978

Knob Hill Mine (Dipper Mine, Knob Hill OS, Knob Hill Ore Body)

LOCATION: SW 1/4 SE 1/2 sec. 22, T. 17 S., R. 73 W.
LCRM Lease on Ben Dickson field land.
QUAD Black Mountain 15'
MAP PUEBLO
DVEL Surface and underground mining has been carried out. Open pits with underground workings off the walls of the pits. Average depth to ore is 45 ft.

PROD From the Knob Hill Ore Body as of 1-1-67, 2,901 tons had been mined at a grade of 0.20% U 3O 8 and 0.01% V 2O 5, producing 11,681 lbs of U 3O 8 and 801 lbs of V 2O 5. Between 1967 and 1971, Knob Hill produced 434 lbs of U 3O 8 from 146 tons of ore at a grade of 0.15% U 3O 8.
HOST Eocene Tallahassee Creek Conglomerate composed of andesite breccia, volcanic conglomerates and carbonaceous tuff beds.
STRC The mineralization occurs in lenticular shape masses.
MNZ Uraninite and autunite.
DOI 1978

Last Chance

LOCATION: NE 1/4 SEC 31, T. 17 S., R. 72 W.
LCRM Mined area extends into SE 1/4 SEC 30, T. 17 S., R. 72 W.
QUAD Black Mountain 15'
MAP PUEBLO
DVEL Open pit with underground workings extending off walls of pit. Average depth to ore is 90 ft.
PROD During the period 1958-1966, a total of 18,575 tons of ore averaging 0.31% U 3O 8 and containing 114,765 lbs of U 3O 8 were mined.
HOST Carbonaceous tuff and volcanic conglomerate of the Oligocene Tallahassee Creek Conglomerate. Autunite has been identified. Uraninite is probably present in the deeper parts of the ore body.
DOI 1978

Lightning 2 (DAC Uranium, Lightning No. 1-8, Honest John No. 1-15)

LOCATION: sec. 11, T. 47 N., R. 11 E.
LCST UNSURVEYED
.LCRM Directions given as follows: "From Cotopaxi go 3.2 mi. west on U.S. 50, turn left, go 0.2 mi., turn right, go 0.9 miles, turn left through gate and proceed through farmyard, go 0.2 mi., turn right, go 0.2 mi., turn right, go 0.1 mi., turn left, go 0.3 mi. to the claim." These claims also lie in sec. 14.
QUAD Cotopaxi 15'
MAP PUEBLO
DVEL The operators drilled 49 non-core holes to total 3,180 ft, one 120 ft core hole, and bulldozed about 1,000 cubic yds of material. An adit had been driven by June, 1956.
PROD In 1956, 102 tons of 0.09% U 3O 8 ore were mined, producing 193 lbs of U 3O 8.
BKG .03 mr/hr
RNG .6 to 3.0 mr/hr
HOST The host is Precambrian Pikes Peak Granite. It has been cut by a shear zone, which localized vein filling.
STRC The altered shear zone trends northwest and may be related to two major faults in the area: one on the east flank of the Sangre de Cristos, trending NW-SE and terminating in the vicinity of the deposit; the other north of Cotopaxi; trending north-south and also terminating near the deposit. The fracturing and small cross faults in this shear zone appear to have localized the uranium ore.

ALT The rock has been altered along the shear zone. KAolization of the feldspars in the porphyritic granite has occurred.

MNZ The uranium mineral identified megascopically was autunite, which occurs as disseminations and fracture coatings. Individual samples range from .08 to .6 m/r/hr when tested for radioactivity, or from 0.100 to 0.177% eU308.

DOI 1955


Little Abner Mine

LOCATION: SE1/4NE1/4 sec. 14, T. 17 S., R. 73 W.

LCRM Property adjoins Smaller Lease and Joan No. 2 Mine.

QUAD Black Mountain 15'

MAP PUEBLO

DVEL Open pits with underground workings off pit walls. Average depth to ore is 55 ft.

PROD During the period 1962-1963, a total of 1,647 tons averaging 0.56% U308 and containing 11,651 lbs U308 were mined. Mine was also active in 1968-1971 to produce uranium for outside sales by the Cotter Corporation.

HOST Carbonaceous arkosic sandstone and conglomerate in the Eocene Echo Park Alluvium.

MNZ Autunite has been identified in the shallow parts of the ore body and uraninite in the deeper portions.

DOI 1978


Mary L. (Mary L. 1-6 Claims)

LOCATION: SW1/4NW1/4 sec. 13, T. 17 S., R. 73 W.

LCRM The claim is about 300 yds up Butter Creek and about 30 ft up on the south side of the creek.

QUAD Cotopaxi 15'

MAP PUEBLO

DVEL A very small excavation was started in the side of the hill.

BKG .03 m/r/hr

RNG .45 to .46 m/r/hr

HOST The host rocks are arkosic sandstones of the Permian red beds. The sandstones vary from gray to brown to red.

MNZ The radioactivity, in the form of minute spots of carnotite, occurs in the black, carbonaceous, woody fragments in the sandstone. Minor amounts of copper minerals are present.

DOI 1954

Picnic Tree Mine (Picnic Tree Claims - Hall Homestead)

LOCATION: SW1/4 sec. 26, T. 17 S., R. 73 W.

MAP PUEBLO

DVEL Open pits. Average depth to ore is 50 ft.

PROD During the period 1958-1967, a total of 13,525 tons of ore averaging 0.20% U308 and containing 52,776 lbs U308 were mined. Also, 2,222 lbs of V205 were recovered.

HOST Carbonaceous water laid tuffs and volcanic conglomerates in the Oligocene Tallahassee Creek Conglomerate.

MNZ Autunite has been identified. Uraninite (?) is also present.

DOI 1978


Pine Canyon Lode (Southmost Claim Group)

LOCATION: NW1/4 sec. 34, T. 49 N., R. 10 E.

LCRM The deposit is 100 ft south of the road in steeply dipping red beds. The CRIB file lists a deposit located on sec. 28, 29, 32, & 33, T. 49 N., R. 10 E. that occurs like this one. They are probably the same or connected occurrences.

QUAD Howard 15th

MAP PUEBLO

DVEL A 30 ft tunnel was driven along bedding.

RNG To 3 x background.

HOST The deposit lies in a black shale member of the Permian-Pennsylvanian red beds (possibly Maroon or Minturn Formations). The beds strike SE, and dip 42°NE. A volcanic intrusive lies about 100 ft off the radioactive prospect. Three radioactive black shale beds lie within 15 ft of the red bed section. A coal seam is also nearby.

MNZ Malachite is associated with the radioactive black shales, along bedding planes and fractures. Assays of samples range from 0.006 to 0.016% U308.

DOI 1954


Rupp Property (Raup Mine 39)

LOCATION: W1/2 sec. 18, T. 17 S., R. 70 W.

QUAD Cover Mountain 15th

MAP PUEBLO

DVEL There is one small open pit, approximately 100 x 70 x 30 ft; also, some drilling has been carried out.

PROD There is no record of production with the U.S. A.E.C.

BKG 150 cps

RNG 300 to 2000 cps

HOST The host is the Cretaceous Dakota Sandstone, primarily a lenticular layer high in the formation.

Fremont County

STRC There appears to be some relationship to fracturing and faulting. The deposit is on the west side of a shallow N-S striking anticline.

ALT There are abundant leached clay galls and limonite staining.

MNZ Autunite and carnottite occurs in clay seams and vugs, the vugs being the casts of plant debris. The uranium minerals are oxidized, and associated with manganese and iron oxidized, silicified fractures on the surface. The relationship of mineralization to the fractured rocks is not as obvious in the pit.

RMKS As of 1976, the property was being drilled by Rampart Exploration Company of Denver, Colorado.

DOI 1977


Sand Creek Claims

LOCATION: NE1/4 sec. 1, T. 16 S., R. 71 W.

QUAD Cover Mountain 15th

MAP PUEBLO

DVEL Small surface cut.

PROD In 1958, one ton of ore averaging 0.20% U308 and containing 44 lbs of U308 were produced from the Sand Creek No. 4 Claim.

HOST Carbonaceous tuffs in the Oligocene Tallahassee Creek Conglomerate.

MNZ Uraninite and autunite were both identified.

DOI 1978


School Section

LOCATION: sec. 16, T. 19 S., R. 71 W.

LCRM This may possibly be the same deposit as the Tanner Boy and Red Hill Groups.

QUAD Royal Gorge 15th

MAP PUEBLO

VF1 Small open cut.

PROD U.S. A.E.C. Records show one ton of ore averaging 0.36% U308, containing 7 lbs U308 produced in 1956.

HOST Vein in Precambrian granite.

MNZ Uraninite.

DOI 1971


Section 36 Mine (Glen Williams Mine)

LOCATION: NE1/4NW1/4 sec. 36, T. 17 S., R. 73 W.

LCRM Lease includes S1/2 sec. 36.

QUAD Black Mountain 15th

MAP PUEBLO

DVEL Surface and underground mining has been carried out on this lease. Average depth to ore is 130 ft.

PROD Between 1959 and 1962, a total of 3,379 tons were mined averaging 0.28% U308. A total of 18,834 lbs have been produced by this mine.
HOST Fine-grained volcanic clastic unit of the Oligocene Tallahassee Creek Conglomerate.

MNZ Uraninite.

RMKS This is a state lease.

DOI 1971


Sunrise Claims

LOCATION: sec. 21, T. 48 N., R. 12 E.

QUAD Cotopaxi 15'

MAP PUEBLO

DVEL Exploration has developed a small ore body, no production.

HOST The deposit lies in Precambrian meta-sediments.

MNZ Uraninite and/or coffinite were identified.

DOI 1971


Smaller Lease

LOCATION: SE1/4NE1/4 sec. 14, T. 17 S., R. 73 W.

LCRM Property adjoins the Little Abner and Joan No. 2 Mines.

QUAD Black Mountain 15'

MAP PUEBLO

DVEL Open pit with underground workings off pit walls. Average depth to ore is 45 ft.

PROD Between 1957 and 1961, a total of 4,871 tons of ore averaging 0.30% U3O8 and containing 29,322 lbs of U3O8 had been mined. In addition, 113 lbs of V2O5 were recovered.

HOST Conglomeratic arkosic sandstone in the Eocene Echo Park Alluvium.

MNZ Uraninite has been identified.

DOI 1976


Sunrise Claims, 1, 2, 3 (Stinkhole Claims)

LOCATION: sec. 20, T. 20 S., R. 71 W.

LCST UNSURVEYED

LCRM Also extends to sec. 21.

QUAD Royal Gorge 15'

MAP PUEBLO

DVEL This is an old shaft and numerous small cuts and prospect pits.

PROD No production according to U.S. A.E.C. records.

BKG 0.6 mr/hr

RNG 1.0 to 3.4 mr/hr

HOST The deposit lies in a Tertiary vein cutting Precambrian granite, gneiss, and a silicified basic dike.

STRC The tabular vein can be traced more than 1/2 mile, striking N33°-40°W, and dipping 55°SW. It is 3 ft wide, more than 100 ft thick, and horsetails at depth.

ALT The dike within the shear zone is partially altered to clay minerals.

MNZ The vein contains barite, galena, and thorite, with minor amounts of quartz, siderite, hematite and limonite. Samples assayed showed from 0.028 to 0.03% eU, 0.15 to 1.70% eTh02, and 0.001% eU3O8.

DOI 1951


Sunshine Claims

LOCATION: NE1/4SW1/4 sec. 30, T. 17 S., R. 72 W.

LCRM Claims also extend to sec. 29, T. 17 S., R. 72 W.

QUAD Black Mountain 15'

MAP PUEBLO

DVEL Open pit mine. Average depth to ore is 90 ft.

PROD During the period 1953 to 1955, a total of 1,145 tons of ore averaging 0.27% U3O8 and containing 6,235 lbs of U3O8 were mined. Also, 46 lbs of V2O5 were recovered. All production is credited to the Sunshine No. 2 Claim.

HOST Rhodolite boulder conglomerate and carbonaceous ash beds in the Oligocene Tallahassee Creek Conglomerate.

STRC The highest grade portion of the ore body is near a fault.

MNZ Autunite has been identified. Uraninite probably occurs in the deeper parts of the ore body.

DOI 1978


Tanner Boy Group (Red Hills Group)

LOCATION: sec. 15, T. 19 S., R. 71 W.

QUAD Royal Gorge 15'

MAP PUEBLO

HOST The host consists of Precambrian gneisses and granites cut by diabase dikes.

DOI 1973


Texas Creek

LOCATION: SE1/4 sec. 35, T. 49 N., R. 12 E.

LCRM Also extends to T. 18 S., R. 73 W.

QUAD Cotopaxi 15'

MAP PUEBLO

DVEL There is a shaft (less than 100 ft deep) in the east side of the wash.

PROD A few tons of fluorite ore were produced.

BKG 150 to 200 cps

RNG 150 to 8000 cps

HOST The host is a series of undifferentiated Precambrian hornblende and biotite gneisses with garnet and fluorite; possibly a quartz reef in gneiss.

STRC Quartz veins and fractures have localized the mineralization.

ALT Some limonite is present and the vein is highly weathered.

MNZ Radioactivity in the area is associated with fluorite, with uranium the only mineral
identified. Assays of the vein material show 0.032, 0.083, and 0.10% eU3O8. Spectrographic analysis show 0.05% Thorium.

Maurice Brady, 1977, Personal Communication.

**Thome Claims (Thome 1-14)**

**LOCATION:** SE1/4 sec. 26, T. 17 S., R. 73 W.
**QUAD** Black Mountain 15'
**MAP** PUEBLO
**DVEL** Open pit. Average depth to ore is 70 ft.
**PROD** During the period 1960 to 1965, a total of 2,993 tons averaging 0.27% U3O8 and containing 13,771 lbs of U3O8 were mined from the Thome 9 and 10 Claims. Also, 1,342 lbs of V2O5 were recovered.

**HOST** Boulder and cobble conglomerates and carbonaceous tuffs in the Oligocene Tallahassee Creek Conglomerate.

**MNZ** Uraninite.

**DOI** 1978

**Unnamed 1**

**LOCATION:** sec. 12, T. 19 S., R. 71 W.
**LCRM** Directions given as follow: "About 2 mi. southwest of Canon City, follow right split in road along Grape Creek about 1 mi. out of Canon City to end of road. Walk on water pipe for about 1/2 mile. Large pegmatites, exposed just beyond contact of Precambrian and sediments in the Precambrian".

**QUAD** Royal Gorge 15'
**MAP** PUEBLO
**DVEL** Some underground mining was done on this property.
**BGK** .04 mr/hr
**RNG** .08 to .12 mr/hr
**HOST** The deposit lies in a large pegmatite located near the bottom of Grape Creek gulch. The dike cuts the Precambrian Idaho Springs Formation.
**MNZ** The pegmatite is composed of pink feldspar, biotite mica, and minor quartz.

**DOI** 1953

**Unnamed 2**

**LOCATION:** sec. 9, T. 20 S., R. 71 W.
**LCST** UNCERTAIN
**QUAD** Royal Gorge 15'
**MAP** PUEBLO
**RMKS** Described as "wide radioactive shear zone that trends slightly east of north, about 0.1 mile to the west-northwest locality" in page 20-24 in Journal listed below.

**REF** Singewald, Q. D., 1966.
Production from Garfield County is large. The county is approximately fifth in production in the state. As of 1971, 394,134 tons of ore had been mined containing 553,444 lb of $U_3O_8$, and 11,928,419 lb of $V_2O_5$.

Garfield County, which lies in westernmost Colorado, typifies much of the Colorado Plateau terrane with relatively flat-lying sedimentary beds covering most of the county. The eastern third of the county is structurally more complex and is dominated by the Grand Hogback Monocline and the White River Uplift. The extreme northeastern part of the county is surfaced by Late Tertiary and Quaternary andesites and basalt flows that form the Flat Tops, a mountainous area now designated as Flat Tops Wilderness Area.

Nearly all the county's uranium production came before 1954. A total of about 394,000 tons of uranium-vanadium ore was mined, and most of that came from the Rifle and Garfield mines. The Rifle Mine yielded 387,613 tons of that ore, and the Garfield Mine produced 6,230 tons. Both mines are situated on extensions of the same ore body. One source estimates at least 50,000 tons of ore still are in reserve at the Rifle Mine. A mill at Rifle processed the ore from the mines and still operates as a secondary recovery system for vanadium from Uravan mineral belt ores. Plans are in progress to reactivate the plant as a uranium mill.

The Rifle Mine and the Garfield Mine are the most important occurrences in the county. Mines in the Rifle district and most other occurrences in the county lie in the Jurassic Morrison and Entrada Formations, and Triassic-Jurassic Navajo Sandstone, or the Triassic Chalmer Formation. The largest mines (including the Rifle and Garfield mines) all produce from the Entrada Sandstone, with minor extensions into the Morrison Formation or the Navajo Sandstone. An interesting occurrence, different from any of the other known occurrences in the county, was discovered in a test well that was drilled for oil. The Schulte I occurrence is a highly radioactive black shale horizon in a 1-ft-thick alternating shale-quartzite zone near the base of the Cambrian Sawatch Quartzite. The major drawback, for this area at least, is that the deposit lies at a depth of 8,455 ft. However, it is similar to occurrences found near Burns and State Bridge in Eagle County. This enlarges the area of these unconformity-type occurrences and makes them more interesting exploration targets.

Favorable beds with high potential in the county include the Morrison Formation, the Entrada Sandstone, the Navajo Sandstone, and the Chalme Formation. These beds are all known to contain uranium and vanadium deposits, both in this county and in the Colorado Plateau in general.
Figure 14. Radioactive mineral occurrences in part of Garfield County, Colorado.
Atlas Minerals Corporation Property

LOCATION: T. 5 S., R. 95 W.
LCRM LOCATION: T. 5 S., R. 95 W.
QUAD Rifle 7 1/2' or Horse Mountain 7 1/2'
MAP LEADVILLE
DVEL There was some minor production with underground workings. As far as can be determined, no ore was shipped.
HOST The host is probably the Jurassic Entrada Sandstone.
MNZ Uranium and vanadium mineralization were found.
DOI 1975

Elk Van Tunnel and UV Claims (UV and Elk Van Claims)

LOCATION: sec. 30, T. 4 S., R. 91 W.
LCRM The deposit extends to sec. 31 and 32. It lies 15 miles northeast of Rifle.
QUAD Rifle Falls 7 1/2'
MAP LEADVILLE
DVEL This was an underground mine.
PROD As of 1971, 22 tons of ore had been mined at a grade of 0.16% U3O8 and 1.6% V2O5, producing 72 lbs of U3O8 and 737 lbs of V2O5.
HOST The host is uncertain. It is either the Jurassic Entrada Sandstone or the Morrison Formation. The deposit occurs as massive tabular bodies.
MNZ Uranium and vanadium mineralization are present, with carnitite and tyuyamunite as the main ore minerals.
DOI 1973

End of Trail 1 & 2

LOCATION: sec. 10, T. 5 S., R. 91 W.
LCRM Also sec. 15. The mine lies 5 1/2 miles north of Newcastle on the east slope of Elk Creek Valley.
QUAD Deep Creek Point 7 1/2' or Newcastle 7 1/2'
MAP LEADVILLE
DVEL The End of Trail #1 had all of the production for these claims during 1953.
PROD As of 1971, a total of 200 tons of ore had been mined at a grade of 0.22% U3O8 and 1.96% V2O5, producing 891 lbs of U3O8 and 7,850 lbs of V2O5.
HOST The host rock is the Jurassic Morrison Formation. Carnitite and tyuyamunite were recognized in the mine, associated with a carbonaceous material.
DOI 1960

Enterprise 1, 2, 3

LOCATION:
LCRM UNLOCATABLE
DVEL Eight tons of ore had been mined by 1971 at a grade of 0.09% U3O8 and 0.51% V2O5, producing 155 lbs of U3O8 and 81 lbs of V2O5.
HOST The host is probably the Jurassic Entrada Sandstone.
DOI 1971

Garfield Mine

LOCATION: NW1/4NE1/4SW1/4 sec. 34, T. 4 S., R. 92 W.
LCRM The deposit also extends to sec. 33. U.S. A.E.C. Production Records also show sec. 28, 33 and 35.
QUAD Rifle Falls 7 1/2'
MAP LEADVILLE
PROD As of 1971, 6,230 tons of ore had been mined at a grade of 0.05% U3O8 and 1.51% V2O5, producing 6,756 lbs of U3O8 and 188,498 lbs of V2O5.
HOST The host is primarily the Jurassic Entrada Sandstone, but in some places the ore also crosses into the Trassic-Jurassic Navajo Sandstone. The deposit occurs as massive tabular ore bodies.
MNZ The mine was worked for uranium and vanadium, but lead, selenium, and chromium are also present in small amounts. The mineralization is distinctive because of the "fractionation" of these minor and the ore minerals roscelite, montoresele, pascoite, carnitite, tyuyamunite, galena, mariposite and clausathalite are among the minerals recognized at the mine.
RMKS For more detail, see the "Rifle Mine", also in this county. They are spatially close and geologically nearly identical, being genetically related.
DOI 1971

Homestake Mine

LOCATION:
LCRM UNLOCATABLE
DVEL This deposit lies in the Rifle district.
PROD As of 1971, 27 tons of ore had been mined at grades of 0.16% U3O8 and 2.70% V2O5, producing 88 lbs of U3O8 and 1,459 lbs of V2O5.
HOST The host is probably the Jurassic Morrison Formation.
DOI 1971

Incorporated 1, 2, 3 & 4

LOCATION:
LCRM UNLOCATABLE
Carnotite and tyuyamunite are the ore minerals. The host is the Jurassic Morrison Formation. This deposit lies in the Rifle district. Henry Smith, in an article written in 'The Colorado Geol. Soc. Am. Bull. v. 56 no. 10', states that the radioactive mineralization occurs in the Jurassic Morrison Formation. If the veins were connected they would form an "S" shaped curve.

**Rifle Mine (Rifle Creek Mine, Oriole Claims, and North Star Claims)**

**LOCATION:** NW1/4NE1/4NW1/4 sec. 35, T. 4 S., R. 92 W.
**QUAD** Rifle Falls 7 1/2'
**MAP** LEADVILLE
**DVEL** The occurrence was discovered about 1909, and mining began around 1922. Little production has taken place since 1954, although the CRIB File estimates that there are probably at least 50,000 tons of ore still in reserve. The deposit was mined for 7,000 ft along the trend of the ore.

**HOST**

**PROD** As of 1971, 387,613 tons of ore had been mined at grades of 0.07% U308 and 1.51% V205, producing 545,260 lbs of U308 and 11,728,996 lbs of V205.


**MARDOLO (Marvol) Lode 1-14 (Marvol)**

**LOCATION:**
**LCST** UNLOCATABLE
**LCRM** This deposit lies in the Rifle district.
**PROD** By 1971, 20 tons of ore had been mined at grades of 0.13% U308 and 1.04% V205, producing 50 lbs of U308 and 418 lbs of V205.
**HOST** The host is the Jurassic Morrison Formation.
**DOI** 1971

**Schulze 1 - SW1/4, Test Well**

**LOCATION:** SW1/4 sec. 15, T. 6 S., R. 103 W.
**LCST** UNSURVEYED
**QUAD** Baxter Pass 7 1/2'
**MAP** GRAND JUNCTION
**DVEL** The radioactive horizon was discovered in the Schulze No. 1 test well for oil. The well was drilled at least to 8,455 ft.

**RNG** Average 0.1% (est.)
**HOST** A highly radioactive black shale occurs near the base of the Sawatch quartzite of upper Cambrian age. The black shale appears as thin 0.1 ft beds in a dolomitic quartzite. A zone of interbedded shale and quartzite about a foot thick at a depth of 8,455 ft in the well is radioactive, with the greatest count in the lowest 0.1 ft shale bed.

**DOI** 1954
Ward Gulch

LOCATION: UNLOCATABLE

PROD

As of 1971, three tons of ore at grades of 0.10% U_3O_8 and 1.67% V_2O_5 had been mined, producing 6 lbs of U_3O_8 and 100 lbs of V_2O_5.

HOST

The host is probably the Jurassic Morrison Formation.

DOI 1971

Production of uranium from Gilpin County has been small in spite of the fact that the county was the first uranium mining district in the U.S. A little over 400 tons of ore was shipped between 1871 and 1960, and most of that was high-grade, hand-sorted ore mined for its radium content. Production noted after the AEC began to keep records amounted to 49.25 tons, which yielded 391 lb of $U_3O_8$.

Gilpin County is located in the north-central Colorado Front Range. Precambrian schists and gneisses of the Idaho Springs Formation are exposed throughout the county. Extensive bodies of granite, granite-gneiss, quartz-monzonite gneiss, and granite pegmatite intrude the Idaho Springs Formation.

The first pitchblende in the United States was found in Gilpin County on the dump of the Wood Mine in 1871. As a result of the Curies' work with this ore in Paris, the area attracted many uranium (radium) prospectors.

The uranium occurrences in Gilpin County are found in metal mines of the Front Range mineral belt in the Central City district, largely in the Quartz Hill area. The two largest producers were the Wood Mine and the Carroll Mine. The mineralization occurs in Tertiary veins that cut Precambrian metasediments of the Idaho Springs Formation. In most, if not all, of the mines in the district, the pitchblende is concentrated in small, discontinuous pods and stringers in fissure veins. The uranium is subordinate to base- and precious-metals, which have been actively mined in the district. None of the known uranium occurrences are economically mineable for uranium under current market conditions.

Gilpin County probably does not have a great potential for future uranium mining in the known mining districts within the mineral belt. Major deposits of uranium ore are found outside but near to the mineral belt in veins cutting garnet biotite gneiss and quartz biotite schists. Most of these veins and productive ore deposits occur in northeastward- and eastward-trending faults or fault zones. One such deposit is the Schwartzwalder Mine in Jefferson County. There is some minor potential for discovering similar deposits in parts of Gilpin County.
Figure 15. Radioactive mineral occurrences in Gilpin County, Colorado.
**Gilpin County**

**Ashland Mine**

**LOCATION:** sec. 23, T. 3 S., R. 73 W.

**LCST** UNSUREN

**LCRM** Location description is as follows: "Travel 4.1 miles south of Central City along upper Virginia Canyon road. Turn left at intersection of two jeep roads and Gulch Road. Take poorly defined jeep road for a distance of 0.3 miles and park on old mine dump. Mine is located 2,000 ft due north and uphill."

**QUAD** Central City 7 1/2

**MAP** DENVER

**DVEL** The mine was operative until 1942. There is a shaft 90 ft deep, an adit 200 ft long, and three pits above the mine.

**BKG** .03 mr/hr

**RNG** To .3 mr/hr

**HOST** Precambrian schist and gneiss, of the Idaho Springs Formation, predominate in the area, with several north-south trending pegmatites in the proximity of the mine.

**ALT** The pegmatites are slightly altered.

**MNZ** Free milling gold occurs in the vein. Uranium mineralization occurs in the cracks and small vugs in the pegmatites. The principal uranium mineral is autunite, which impregnates the slightly altered pegmatites.

**DOI** 1955(?)


**Big Bertha Prospect**

**LOCATION:** S1/2NE1/4 sec. 29, T. 2 S., R. 73 W.

**LCST** UNSURVEYED

**QUAD** Central City 7 1/2

**MAP** DENVER

**DVEL** There is a single adit. Its portal is caved.

**BKG** .4 to 1.0 mr/hr

**RNG** 3.0 to 4.0 mr/hr

**HOST** The host is a pink to gray granite gneiss with local schlieren of biotite gneiss and amphibolite. It is a unit of the Idaho Springs Formation. It is cut by Tertiary veins, which contain the mineralization.

**MNZ** Primary ore minerals include pyrite (sulfuriferous?) chalcopyrite, galena, and specularite. These are found as lenses, disseminated grains, veinlets, and local sheared aggregates in a gangue of milky to cherty quartz and creamy barite (?). A grab sample of radioactive material from the dump contains 0.017% eU, 0.009% U, 0.03 oz/ton of gold, and 18.49 oz/ton of silver.

**DOI** 1952


**Black Hawk 2 Claim**

**LOCATION:** NW1/4 sec. 7, T. 3 S., R. 72 W.

**QUAD** Black Hawk 7 1/2

**MAP** DENVER

**DVEL** There is a partly caved adit, and numerous pits and dumps.

**BKG** .02 mr/hr

**RNG** To .3 mr/hr

**HOST** The host is a Precambrian biotite schist of the Idaho Springs Formation.

**STRC** The schist is cut by a Tertiary quartz vein that strikes N30°-35°E and dips S80°W. Its length is 500 ft, width is 2 ft, and its general shape is tabular.

**MNZ** Quartz and limonite are present in the vein. Autunite (?) coats fracture surfaces and is sparsely disseminated through the biotite schist. Samples collected range from 0.08 to 0.15% eU.

**DOI** 1954

### Gilpin County

#### Buckley Mine

**LOCATION:** W1/2SW1/4 sec. 12, T. 3 S., R. 73 W.
**LCST:** UNSURVEYED
**QUAD:** Central City 7 1/2
**MAP:** DENVER
**DVEL:** The size of the dump indicates several hundred feet of workings.
**BKGRNG:** 65 cps
**HOST:** The Tertiary veins were intruded into Precambrian granite gneiss, amphibolite, and meta-sediments, probably of the Idaho Springs Formation.
**STRC:** The mineralized vein strikes N70°E, and extends for 500 ft.
**ALT:** Pyrite and pitchblende are both present, with quartz as a gangue material. The mine was worked for gold.


#### Bullion

**LOCATION:** sec. 11, T. 3 S., R. 73 W.
**LCST:** UNSURVEYED
**QUAD:** Central City 7 1/2
**MAP:** DENVER
**DVEL:** There is an inaccessible shaft on the property.
**BKGRNG:** .9 mr/hr
**HOST:** The host is a Precambrian granite gneiss, with biotite-quartz-plagioclase gneiss, biotite gneiss, and pegmatite.
**STRC:** Tertiary veins control the ore.
**MNZ:** Sphalerite, galena, and pitchblende are present as primary minerals. A grab sample of the dump material assayed 6.7% U₃O₈ and 0.87% U.

**DOI:** 1953

#### Carrol Mine (Carrol, Spur-Daisy Group, Central City, Cherokee, Woodmine, Rara Avis)

**LOCATION:** NE1/4SW1/4 sec. 11, T. 3 S., R. 73 W.
**LCST:** UNSURVEYED
**QUAD:** Central City 7 1/2
**MAP:** DENVER
**DVEL:** There is one inaccessible shaft. The Carrol was worked for uranium. The other mines were worked for gold, silver, lead and zinc.

**PROD:** During 1955, 16 tons of ore were mined at a grade of 0.66% U₃O₈ and 0.02% V₂O₅, producing 218 lbs of U₃O₈ and 5 lbs of V₂O₅.
**BKGRNG:** .8 mr/hr
**HOST:** The host is a Precambrian granite gneiss, pegmatite, and biotite-quartz-plagioclase gneiss, of the Idaho Springs Formation. It is cut by Tertiary bostonite porphyry dikes.

#### Cherokee Mine

**LOCATION:** sec. 19, T. 3 S., R. 72 W.
**LCST:** UNCERTAIN
**QUAD:** Central City 7 1/2
**MAP:** DENVER
**DVEL:** Some underground mining was carried out.
**HOST:** The deposit lies in a quartz-biotite schist of the Precambrian Idaho Springs Formation.
**ALT:** The rock shows silicification and minor sericitation.
**MNZ:** Pitchblende and johannite are in association with galena, pyrite, sphalerite, copper sulfides, and minor silver minerals. The age of mineralization is probably Tertiary.

**DOI:** 1955

#### Copper Queen (Copper King?)

**LOCATION:** sec. 10, T. 2 S., R. 73 W.
**LCST:** UNCERTAIN
**QUAD:** Nederland 7 1/2
**MAP:** DENVER
**DVEL:** There is a 26 ft shaft.
**BKGRNG:** .01 to .05 mr/hr
**HOST:** The deposit is in a quartz vein with altered feldspar within the Precambrian biotite gneiss of the Idaho Springs Formation.
**MNZ:** The mineralization lies in a quartz-pyrite vein, with small strings of galena. The radioactive mineral was not identified, but may be pitchblende.

**DOI:** 1953

#### E & H-Jelly Roll Mine

**LOCATION:** NW1/4 sec. 17, T. 3 S., R. 72 W.
**QUAD:** Black Hawk 7 1/2
**MAP:** DENVER
**DVEL:** Underground work was carried out, but no actual production took place.
Gilpin County

**Elliot Mine (Wealthy Lode Mining Claim, Wealthy Lode Claim)**

**LOCATION:** NE1/4 sec. 29, T. 2 S., R. 73 W.
**LCST** UNSURVEYED
**QUAD** Central City 7 1/2
**MAP** DENVER
**DVEL** There are 270 ft of drifting along a shear zone, with a few small stopes also developed.
**BKG** .6 to 1.4 mr/hr
**RNG** To 80 mr/hr
**HOST** The host rock is a sheared, locally altered granite pegmatite with diorite and an amphibolite also present. It is in the Precambrian Idaho Springs Formation.

**STRC** Tertiary veining cuts the granite pegmatite and localizes the ore.

**MNZ** Primary minerals include pyrite, chalcopyrite, galena, and uraninite. Secondary copper stains are localized in small area. The gangue is quartz.

**DOI** 1952

**Flack No. 3 Mine (Kirk Mine)**

**LOCATION:** NW 1/4 sec. 14, T. 3 S., R. 73 W.
**LCST** UNSURVEYED
**LCRM** This mine is about 800 ft south of the Gold Coin Mine.
**QUAD** Central City 7 1/2
**MAP** DENVER
**DVEL** The size of the dump indicates several hundred ft of underground workings.
**BKG** 80 cps
**RNG** 175 cps average
**HOST** The host is a granite gneiss with pegmatite and meta-sediments of the Precambrian Idaho Springs Formation, cut by Tertiary bostonite dikes.

**STRC** A Tertiary vein cuts the host and strikes N80°E for 1,700 ft. The mineralization occurs in veins as pods and lenses.

**MNZ** Galena, sphalerite, pyrite, and pitchblende are all present in a quartz gangue. The mine was originally worked for gold, silver and lead.

**DOI** 1954

**German and Belcher**

**LOCATION:** sec. 14, T. 3 S., R. 73 W.
**QUAD** Central City 7 1/2
**MAP** DENVER
**DVEL** There was reportedly some gold and silver production from these mines, but no uranium.

**HOST** The host is a Precambrian microcline gneiss with biotite and quartz - plagioclase, it is intruded by pegmatite and bostonite porphyry of Tertiary age.

**STRC** The deposit occurs as pockets and lenses in a vein.

**MNZ** Uranium, gold, silver and copper minerals were recognized with pitchblende, galena, pyrite, and sphalerite.

**DOI** 1977

**Gold Chief Mine**

**LOCATION:** NE1/4NW1/4 sec. 27, T. 2 S., R. 73 W.
**LCST** UNSURVEYED
**QUAD** Central City 7 1/2
**MAP** DENVER
**DVEL** There is 1,000 ft of drifting with considerable stoping on the "We Got Em" vein. There is a winze to sublevels at 40 and 100 ft (now flooded to 65 ft). Some stoping is present on the Reform vein.

**BKG** .4 to .15 mr/hr
**RNG** To 20.0 mr/hr

**HOST** The host is a gray granite gneiss that is probably a unit of the Precambrian Idaho Springs Formation. Tertiary veining cuts this, and contains the mineralization.

**STRC** The radioactivity appears to be associated with cross fractures on the "We Got Em" vein, and is in the form of fracture coatings.

**MNZ** Pyrite, chalcopyrite and some free copper have been reported. Secondary minerals include secondary copper minerals and the radioactive material. Grab and chip samples range from 0.002 to 0.051% U. Other samples assay between a trace and 11.76 oz/ton of silver, and 0.0922% Mn, 0.16% Cu, 0.07% Pb, and 0.22% Zn.

**DOI** 1952

**Gold Spring Group**

**LOCATION:** SW1/4SE1/4 sec. 6, T. 2 S., R. 73 W.
**LCST** UNSURVEYED
**LCRM** The U.S. A.E.C. P.R.R. location is incorrect.
**QUAD** Nederland 7 1/2
**MAP** DENVER
**DVEL** The workings on the property consist of 550 ft of adit, and 15 ft of drifting that were opened around 1900.

**BKG** .01 mr/hr
**RNG** To .4 mr/hr

**HOST** The host is an older Precambrian quartz - biotite schist that strikes N45°W and...
dips N 33°. It is a member of the Idaho Springs Formation.

**STRC**
There are three thin veins, all mineralized
with uranium. The first vein is 100 ft south of
the portal, striking N68°W and dipping N85°.
The second is 200 ft from the portal and
strikes N70°W and dips N86°. The third
vein is 500 ft south of the portal and strikes
N60° and dips 50°N.

**ALT**
A propylitized zone extends 10 - 15 ft on
both sides of the veins. Three types of alteration
are present: silicification, epidotization, and pyritization, in that
order.

**MNZ**
The veins range up to three in. thick and
contain the following minerals, in their
order of deposition: pyrite, quartz, and
pitchblende.

**DOI**
1956
**REF**
A.E.C., 1966, Preliminary Reconnaissance
Reports, Gilpin County, Colorado. Lovering,

**Golder - Passarella Claims**

**LOCATION:** sec. 14, T. 2 S., R. 72 W.

**QUAD** Black Hawk 7 1/2'

**MAP** DENVER

**DVEL** A 15 ft shaft has been dug.

**BKG** .035 mr/hr

**RNG** .5 to 1.3 mr/hr

**HOST**
The country rock is Precambrian Boulder
Creek granite and a granite-gneiss, also
Precambrian.

**STRC**
The shaft exposes an altered breccia in
a northwest trending shear zone.

**MNZ**
Minor amounts of torbernite are visible
in the profusely iron-stained breccia.

**DOI**
1954
**REF**
A.E.C., 1966, Preliminary Reconnaissance
Reports, Gilpin County, Colorado.

**Iron Mine (Pewabic-Iron)**

**LOCATION:** sec. 23, T. 3 S., R. 73 W.

**LCST** UNSURVEYED

**QUAD** Central City 7 1/2'

**MAP** DENVER

**DVEL** There is a shaft and several hundred ft
of drifts associated with the Iron Vein.

**HOST**
The host is hard, banded Precambrian Idaho
Springs Formation with numerous small pegmatites
paralleling and cutting its foliation.

**STRC**
The Tucker #1 prospect is located on a fault
striking N64°E and dipping 60°N which cuts
through the gneiss and the injected pegmatite.

**ALT**
The pegmatites, in places, have been partially
altered to orthoclase.

**MNZ**
The predominant minerals are biotite, orthoclase,
and plagioclase. Limonite staining is common
on the weathered face of the gneiss. A
minor amount of a green uranium secondary
mineral occurs on the fractured face of
the shattered rock near the fault.

**RMKS**
The property was discovered by airborne
reconnaissance in 1953.

**DOI**
1956
**REF**
A.E.C., 1966, Preliminary Reconnaissance
Reports, Gilpin County, Colorado.
Gilpin County

Priscilla Claim (Priscilla Group Claims, Priscilla, Dorothy, and Sunshine)

LOCATION: NE1/4 sec. 17, T. 3 S., R. 72 W.
QUAD Black Hawk 7 1/2'
MAP DENVER
DVEL There is an abandoned shaft 6 by 8 ft by 25 ft deep, and there are two trenches 20 ft long by 2 ft wide by 2 ft deep. There are several old caved adits.
BKG .03 mr/hr
RNG .04 to .7 mr/hr
HOST The occurrence is in a Tertiary breccia reef surrounded by Precambrian granite. It is roughly tabular in shape, with 500 ft exposed along its length, 25 ft of depth exposed, and a width of 6 ft.
STRC The breccia strikes N50°W with a vertical dip.
ALT Alteration is noticeable around the breccia reef.
MNZ Gangue minerals include pyrite and hematite. Grab samples from the dump contain an estimated 0.01% to 0.05% U3O8. Selected pieces also taken from the dump assayed at 0.278% U3O8. Possible uranophane coats the fractures at the Sunshine discovery cut.
DOI 1955

Root Ranch Lease

LOCATION: NE1/4 sec. 30, T. 3 S., R. 72 W.
LCRM U.S. A.E.C. P.R.R. also show sec. 19, 20 and 29.
QUAD Black Hawk 7 1/2'
MAP DENVER
DVEL The deposit was worked as both a surface and an underground property.
PROD Eight tons were mined during 1959, at a grade of 0.17% U3O8 producing 29 lbs of U3O8.
HOST The deposit occurs in veins and pegmatites which cut the Precambrian Idaho Springs Formation.
MNZ Autunite was recognized, along with iron oxide.
DOI 1974

Smith Hill Gulch Prospect

LOCATION: sec. 9, T. 3 S., R. 72 W.
QUAD Black Hawk 7 1/2'
MAP DENVER
DVEL These claims were staked by Western Nuclear within the last five years.
RNG 2-3 x bg
HOST The occurrence lies in a Tertiary(? ) bostonite dike within a shear zone which cuts the Precambrian Idaho Springs Formation.
STRC The Ralston Shear zone has localized ore emplacement.
MNZ No visible uranium minerals were reported, but the anomalous radioactivity is associated with specular hematite and copper.
REF Alan Reid, 1977, Personal Communication.

Spread Eagle (Queen)

LOCATION: SW1/4 sec. 19, T. 3 S., R. 72 W.
QUAD Black Hawk 1 1/2'
MAP DENVER
DVEL There is a shaft and an adit. The adit is open, and the shaft is in good condition, but filled with water to within 35-40 ft of the collar.
BKG .02 to .2 mr/hr
RNG 5.0 or above mr/hr
HOST The host rock is Precambrian Idaho Springs schist and gneiss with some megmatite, gneissic granite, and granite pegmatite.
STRC The host rock is cut by Tertiary veins which contain the mineralization. The main vein is a possible extension of the Little Annie vein.
MNZ Primary ore minerals include pyrite, chalcopryite, sphalerite, galena, minor gold and pitchblende. Gangue minerals are quartz and minor barite. There are parallel bands of ore and gangue minerals, with quartz bands and some pitchblende bands showing colloform textures to the unaided eye. Pitchblende is disseminated in the gangue, in other metallics, and in the altered wall rocks. Assays of grab samples range from 0.40% to 1.97% U3O8.
DOI 1952

Telegraph Mine

LOCATION: sec. 14, T. 3 S., R. 73 W.
QUAD Central City 7 1/2'
MAP DENVER
DVEL The property was worked from a shaft which is now inaccessible.
BKG .03 mr/hr
RNG To .2 mr/hr
HOST The occurrence was a Tertiary vein deposit intruded into Precambrian granite gneiss.
MNZ The primary ore minerals are pyrite, gold, and pitchblende. The main gangue mineral is quartz.
DOI 1951

Two Sisters Claim (Two Sisters Group)

LOCATION: N1/2 sec. 11, T. 3 S., R. 73 W.
QUAD Central City 7 1/2'
MAP DENVER
DVEL The size of the dumps indicates a total of about 500 ft of workings. The main(? ) shaft is caved. The small shaft at the east end of the claim is 40 ft deep and connects with a 100 ft drift.
In 1954, 0.25 tons of ore were mined at a grade of 1.80% U3O8, producing 9 lbs of U3O8.

HOST The deposit is in Tertiary veins and bostonite porphyry dikes intruded into Precambrian mica - quartz schist, granite pegmatite, and granite gneiss of the Idaho Springs Formation.

STRC Tertiary veins provided the major ore control. They strike predominantly N80°E, with branching veins striking N80°W.

MINZ The mine was originally worked for gold, silver, and lead. Galena, sphalerite, chalcopyrite, some pyrite, pitchblende and uraninite are present, with torbernite(?) and uranophane(?) as secondary minerals. The gangue mineralization is quartz. The torbernite(?) is in veinlets with quartz, disseminated in a mica schist, and coats fracture surfaces. The uranophane(?) coats vugs in a limonitic gossan on the dump. A vein sample assayed at 0.92% eU and 1.42% U. A grab sample assayed 0.027% eU and 0.017% U.

DOI 1954


LOCATION: sec. 26, T. 2 S., R. 73 W.

Wood Mine (East Calhoun Mine, Calhoun-Wood)

LOCATION: NW¼/SW¼ sec. 14, T. 3 S., R. 73 W.

PROD During 1953 and 1954, 18 tons were mined at a grade of 0.204% U3O8, containing 59 lbs U3O8.

HOST The host is a vein in Precambrian granite gneiss with quartz, biotite and microcline.

MINZ The mine was worked principally for gold and silver, and later on a smaller scale for uranium. Pitchblende, galena, and sphalerite were all found.

RMKS The first discovery of pitchblende in the U.S. was in 1871 on the dump of the Wood Mine.

DOI 1950

GRAND COUNTY

Uranium production from the county has been limited. Records show that by 1971, 218 tons of ore had been mined, and 837 lb of UO₂ were recovered. Excellent potential exists for more reserves to be found within the county.

The county is bounded on the west by the Park Range and on the east by the Front Range. Middle Park covers the rest of the county between the two ranges. Precambrian granites, gneisses, migmatites and minor basin rocks comprise the cores of the two ranges. Middle Park is an intermontane basin filled with recent sediments. The county lies north of the mineral belt, and uranium is the only mineral that has been produced in any quantity.

The three deposits that have produced uranium in Grand County are the Alaska-Humes Group, CPJ Claims, and Undecided Claims. The Alaska-Humes Group, located near Rabbit Ears Pass, produced ore from the Cretaceous Dakota Sandstone. The ore occurred as discontinuous pods or lenses of carnotite (?) in the sandstone, associated with carbonaceous layers.

The CPJ Claims are located near the town of Hot Sulphur Springs. The property produced from the Coalmont Formation at the point where the formation rests on eroded Boulder Creek Granite and may be an unconformity-related type of occurrence.

The Undecided Claims, also known as the Beaver Group, lie near the town of Hot Sulphur Springs and are found in the Coalmont Formation. The mineralization, which is very similar to that at the CPJ Claims, not only is associated with the contact between the Coalmont and the Boulder Creek Granite, but also is found in cracks and joints in the granite.

Potential for reserves to be found in the county is very good. Of the ten different rock types containing occurrences, those having the greatest potential are the Tertiary Troublesome Formation for sandstone-type occurrences; the basal Coalmont Formation, which may contain sandstone or unconformity-related types; and the Precambrian Idaho Springs Formation which contains occurrences that may be contact-metamorphic or anatectic.
GRAND COUNTY

Alaska-Humes Group

LOCATION: SE1/4 sec. 20, T. 5 N., R. 82 W.
LCRM Also in sec. 16, 21, 28, 29.
QUAD Mount Werner 7 1/2' and Rabbit Ears Peak 7 1/2'
MAP CRAIG
DVEL Small open pit and trenches. Voss Oil Co. has drilled an estimated 150 holes for a total of 7,500 ft in 1955 - 1956.
PROD In 1960 and 1964, a total of 47 tons of ore averaging 0.20% U308 and containing 192 lbs of U308 were produced. During 1963, 71 tons averaging 0.06% U308 and containing 81 lbs of U308 was also shipped but no payment was received.
RNG To 10 x bg
HOST Fine grained, upper sandstone member of the Cretaceous Dakota Sandstone.
MNZ Carnotite is concentrated along close spaced "varve-like" carbonaceous laminae. Autunite is locally present in the silicified Dakota near contact with Mancos shale.
RMKS Carbon is partly removed leaving layered vuggy casts. The mineralization is in these casts. Near the surface autunite is main mineral. 2.5 ft below surface only carnotite is present.
DOI 1956

Corral Creek Occurrence

LOCATION: sec. 36, T. 2 N., R. 79 W.
QUAD Hot Sulphur Springs 15'
MAP CRAIG
DVEL There are numerous prospect pits in the area.
RNG To 4 x bg
HOST Miocene Troublesome Formation, white to brown, fine- to medium-grained, crossbedded, carbonaceous sandstone.
MNZ Abundant jarosite stains.
RMKS Source of radioactivity could not be determined.
DOI 1953

CPJ Claims (Lucky Jack Prospect)

LOCATION: S1/2SE1/4 sec. 15, T. 1 N., R. 78 W.
QUAD Hot Sulphur Springs 15'
MAP CRAIG
DVEL There are trenches and a 38 ft long tunnel. Property was explored by Newport Exploration.
PROD 10 tons at a grade of 1.33% U308 is reported on the PRR. The Production Records show that in 1954, 10 tons mined at a grade of 0.33% U308 and 0.05% V2O5 producing 66 lbs of U308 and 10 lbs of V2O5.
HOST The host is Paleocene Coalmont Formation, carbonaceous arkose, sandstone and conglomerate.

Engles-Yust Property (Engals Ranch)

LOCATION: sec. 26, T. 1 N., R. 81 W.
QUAD Kremming 7 1/2'
MAP CRAIG
DVEL There is a 40 ft tunnel.
HOST A basal black mudstone channel in the Cretaceous Dakota.
MNZ Carnotite, a grab sample, had a value of 0.21% U308, a 3 ft channel sample had a value of 0.037% U308. There is abundant carbonaceous coaly matter in the host.
DOI 1956

First Chance

LOCATION: sec. 16, T. 1 N., R. 74 W.
QUAD Monarch Lake 7 1/2'
MAP GREELEY
DVEL Small ore body developed, but no production.
HOST The host is a Precambrian Idaho Springs Formation.
MNZ Pitchblende or uraninite, scattered sulfides.
RMKS This may be the Wheeler Basin occurrence as the description is very general.
DOI 1971

Jerome Claims (Alkalie Flat Spring)

LOCATION: NW1/4NE1/4 sec. 52, T. 2 N., R. 79 W.
LCRM Description notes a strong sulphur smell at the spring. This is probably Sulphur Spring noted on the topo map.
QUAD Junction Butte 7 1/2'
MAP CRAIG
BKG?
RNG To 2.5 mr/hr
HOST Spring in Cretaceous Dakota (?) Sandstone.
STRC Vertical fracture in sandstone strikes N30°E. Sandstone has been uplifted around a small Precambrian batholith 1/2 mile southeast of spring.
MNZ Black material is being precipitated on sandstone and is radioactive. Grab sample had a value of 0.11% U308.
RMKS Spring is warm, has strong sulphur smell, and a flow of 30 gal/min.
DOI 1958 (?)
Grand County

LOCATION: sec. 29, T. 2 N., R. 79 W.
QUAD Junction Butte 7 1/2'
MAP CRAIG
HOST Cold spring water deposits of iron and manganese oxides on Tertiary North Park Formation, sandstone and shale.
MNZ Iron and manganese stains. Grab sample had a value of 0.11% U.
DOI 1950

Lynn No. 1

LOCATION: sec. 1, T. 1 N., R. 79 W.
QUAD Parshall 7 1/2'
MAP CRAIG
HOST There is a cut blasted in side of mountain.
BKG .03 mr/hr
RNG .03 to .1 mr/hr
HOST Precambrian pegmatite in Boulder Creek Granite.
STRC Pegmatite on upper thrust block of the Basques thrust fault system.
MNZ Biotite, quartz, and orthoclase, radiation coming from biotite.
DOI 1954

No Name Claims

LOCATION: T. 3 S., R. 76 W.
LCST UNSURVEYED
LCRM Prospect is 0.5 miles west of Jones Pass and consists of cut in road bank.
QUAD Byers Peak 7 1/2'
MAP DENVER
BKG .04 mr/hr
RNG .04 to .3 mr/hr
HOST Shear in Precambrian Silver Plume Granite.
STRC Shear zone strikes S85°E, dip 45°-60°N.
ALT Somewhat silicified and iron stained.
MNZ Autunite, uranophane, 3.5 ft horizontal channel across ore zone gave reading of 0.3 mr/hr.
DOI 1955

Philips 1

LOCATION: SW1/4 sec. 29, T. 1 N., R. 74 W.
QUAD Monarch Lake 7 1/2'
MAP GREELEY
BKG .03 mr/hr
RNG .03 to 1.0 mr/hr
HOST Coarse-grained Tertiary monzonite dike in Precambrian Idaho Springs Formation.
STRC Fracture.
MNZ Autunite in fractures.
RMKS All of dike gave readings of greater than 0.15 mr/hr.
DOI 1954
GRAND COUNTY

LOCATION: SW1/4 sec. 34, T. 1 S., R. 80 W.
LCRM Spring is at edge of the Blue River.
QUAD Mount Powell 15'
MAP LEADVILLE
RNG 4 x bg
HOST Spring in river bottom alluvium near the Cretaceous Mancos Shale outcrop.
RMKS Water has CO2 gas.
DOI 1953

Pickering

LOCATION: sec. 30, T. 2 N., R. 79 W.
QUAD Junction Butte 7 1/2'
MAP CRAIG
DVEL Auger drilling has been carried out behind outcrop. Little additional mineralization was found.
BKG .03 mr/hr
RNG 0.3 to 1.0 mr/hr
HOST Mineralization is in a fluvial arkosic sandstone interfingered with tuffaceous clay. The sandstone is approximately 20 ft thick.
STRC Impermeable clay occurs over sandstone containing mineralization.
MNZ Carnotite, gypsum, jarosite, abundant carbon. A 1.2 ft channel sample had a value of 0.04% U3O8.
RMKS Uranium occurs in rolls from 1 in. to 1 ft in size. The rolls cross lens of sandstone and clay.
DOI 1954

Tucker Mine

LOCATION: S1/2SW1/4 sec. 31, T. 2 N., R. 79 W.
LCRM UNSURVEYED
QUAD Junction Butte 7 1/2'
MAP CRAIG
BKG .02 mr/hr
RNG .2 - .25 mr/hr
HOST The mineralization occurs in the Miocene North Park Formation, which is a white to tan, fine- to coarse-grained crossbedded sandstone.
MNZ There is carbonaceous material and marcasite concretions in the host rock but no uranium minerals were identified.
RMKS Ten other anomalies occur within 1/4 of a mile. Also a radioactive spring is 1/2 mile east, and 2 anomalies are two miles away.
DOI 1950-1958 (?)

Undecided Claims (Beaver Group 1-20)

LOCATION: sec. 15, T. 1 N., R. 78 W.
LCRM Also sec. 14, 21, 22.
QUAD Hot Sulphur Springs 7 1/2'
MAP CRAIG
DVEL Discovered in 1954. This property was explored by Newmont Explorations, Ltd., Montrose, Colorado. There are trenches, tunnels and one shaft.

PROD For the Undecided 4 the U.S. A.E.C. Production Records show that in 1957, 161 tons were mined at a grade of 0.18% U3O8 producing 579 lbs of U3O8.
BKG .1 mr/hr
RNG .1 - 4.0 mr/hr
HOST Paleocene Coalmont Formation, carbonaceous arkose and sandstone. Ore occurred in a regolith of the Coalmont where it rests on Precambrian granite.
STRC Radioactivity also occurs on joint planes in Precambrian granite below the unconformity.
MNZ Autunite, limonite, carbonaceous matter. Samples had values from 0.27 to 0.076% U3O8.
RMKS Area now closed to mineral entry by the U.S. Department of the Interior, Fish and Wildlife Service as a winter range for elk and moose.
DOI 1954

Unnamed 2

LOCATION: NW1/4 sec. 23, T. 1 S., R. 82 W.
LCRM Occurrence is near where the railroad crosses Blacktail Creek.
QUAD Radium 7 1/2'
MAP LEADVILLE
BKG .03 mr/hr
RNG .03 to .5 mr/hr
HOST Mineralization occurs in the Jurassic Morrison Formation, in a channel arkosic pebble conglomerate in fluvialite sandstone.
MNZ Carnotite, brown carbon.
RMKS The occurrence is in a railroad cut.
DOI 1950-1958?

Unnamed 3

LOCATION: sec. 33, T. 1 1/2 N., R. 80 W.
QUAD Junction Butte 7 1/2'
MAP CRAIG
RNG Maximum of .25 mr/hr
HOST Miocene Troublesome Formation. An interbedded sandstone and clay with abundant carbonaceous material.
STRC Paleostream channel.
MNZ Jarosite, gypsum, iron sulfide, uranium.
RMKS Reported as high radioactivity, no uranium minerals reported.
DOI 1953

Unnamed 5

LOCATION: sec. 14, T. 1 N., R. 74 W.
LCRM Also sec. 28, 29, T. 1 N., R. 75 W.
QUAD Monarch Lake 7 1/2'
MAP GREELEY
HOST Vein in Precambrian metamorphics.
RMKS This is a very general description. It
possibly covers the Wheeler Basin, Julie Johnson, and Phillips #1 occurrences.

DOI 1973

Unnamed 7

LOCATION: sec. 1, T. 3 S., R. 75 W.
LCST UNSURVEYED
LCRM Also in sec. 11. Occurrence is near the Continental Divide and Clear Creek County line.
QUAD Empire 7 1/2'
MAP DENVER
HOST Vein in Precambrian metamorphics.
MNZ Uranium.
DOI 1973

Unnamed 8

LOCATION: sec. 32, T. 2 N., R. 76 W.
QUAD Granby 7 1/2'
MAP GREELEY
HOST Bedded type of mineralization.
MNZ Uranium.
DOI 1973

Unnamed 9

LOCATION: NE1/4SW1/4 sec. 26, T. 1 N., R. 81 W.
LCRM This is near the Engles - Yust property.
QUAD Kremmling 7 1/2'
MAP CRAIG
HOST Vein.
MNZ Uranium.
DOI 1973

Unnamed 10

LOCATION: NW1/4NW1/4 sec. 1, T. 1 N., R. 79 W.
LCRM At an elevation of 7,980-8,000 ft.
QUAD Hot Sulphur Springs 15'
MAP CRAIG
HOST Miocene Troublesome Formation.
MNZ Uranium.
DOI 1973

Unnamed 11

LOCATION: NW1/4 sec. 1, T. 1 N., R. 79 W.
QUAD Junction Butte 7 1/2', Parshall 7 1/2'
MAP CRAIG
PROD Reported 700 lbs mined at a grade of 1.34% U3O8, and 3.25 V2O5, no record with U.S. A.E.C.
MNZ Uranium, vanadium.
RMKS This is a continuation of the Corral Creek mineralization.
DOI 1973

Unnamed 14

LOCATION: N1/2S1/2E1/4 sec. 21, T. 2 N., R. 79 W.
QUAD Hot Sulphur Springs 15'
MAP CRAIG
HOST Miocene Troublesome Formation.
MNZ Uranium.
DOI 1973

Unnamed 15

LOCATION: sec. 6, T. 2 S., R. 74 W.
LCST UNSURVEYED
LCRM The deposit lies 2 1/2 miles northwest of Apex.
QUAD East Portal 7 1/2'
MAP DENVER
DVEL No production took place on this property.
HOST The deposit lies in a vein cutting a Precambrian quartz biotite gneiss, probably of the Idaho Springs Formation.
MNZ Pitchblende was discovered at the occurrence.
DOI 1973

Wheeler Basin (Bennett Mine)

LOCATION: sec. 23, T. 1 N., R. 74 W.
LCST UNSURVEYED
QUAD Monarch Lake 7 1/2'
MAP GREELEY
DVEL One 32 foot adit was opened in 1956. Prospect has been evaluated by various companies, Texas Gulf Sulphur was mentioned in Young and Hauff, 1975.
BKG 380 to 600 cps
RNG 10,000 cps
HOST Precambrian Idaho Springs Formation, migmatized gneiss, mixed gneiss and pegmatite, and pegmatite. All closely associated with the Silver Plume Granite.
STRC The pegmatites do not conform to the regional foliation.
MNZ Curite, fourmarierite, uranophane, monazite, uraninite, and zircon.
RMKS Mineralization is concentrated in biotite rich areas. Wheeler Basin has been compared to the Rossing uranium deposit in S.W. Africa, and is an important type of occurrence to be found in Colorado.
DOI 1977

171
GUNNISON COUNTY

Uranium production from Gunnison County has been large relative to most other counties in the state. By 1971, 8,679 tons of ore had been mined that contained 72,557 lb of U₃O₈. Excellent potential exists for more reserves in the county.

The geology of the county is quite diverse. Extrusive and intrusive rocks of the Elk Mountains dominate the northern part of the area. The Sawatch Range with its Precambrian rocks, Tertiary intrusives, and interspersed lower Paleozoic rocks lies along the eastern side. Precambrian, lower Paleozoic and Tertiary extrusives are found along the valley of the Gunnison River which flows generally westward through the center of the county. The San Juan Mountains extend into the southern panhandle of the county, exposing Precambrian alkaline rocks in the Powderhorn area and Tertiary extrusives farther south.

The three deposits in the county that have produced uranium include Big Red 22, Brown Derby Mine, and Little Indian 36. The most important producer (95 percent of total) within the county is the Little Indian 36 Mine. Production from this deposit totaled 8,679 tons of ore and 7,762 lb of U₃O₈. The Little Indian Mine, located in the Marshall Pass uranium district, is associated with the Chester Fault and lies near the Pitch Mine in Saguache County. Production from the Little Indian was from a vertical dipping zone in the Ordovician Harding Quartzite. The most abundant ore mineral was uranophane.

Potential for more reserves to be found within the county is very good. The Cochetopa and Marshall Pass areas show favorable potential for new reserves, especially along extensions of ore bodies from the uranium-producing area in Saguache County. Another very important type of radioactive occurrence is found in the Powderhorn region where thorium, with uranium in subordinate amounts, is concentrated in veins within Precambrian rocks. Powderhorn is one of the two thorium districts in the state; the other is in Custer County. These are also two of the few thorium districts in the United States. If the demand for thorium increases drastically in the future, Powderhorn will become a major area of exploration for, if not production of, thorium. The alkaline rocks of this district are now being studied in conjunction with potential uranium resource rocks throughout the world. (See Murphy, M., and others, 1978, Uranium in Alkaline Rocks, U.S. Department of Energy, GCW-78178, 185 p. which was published as this publication went to press).
Atlantic Richfield Drill Hole

LOCATION: sec. 28, T. 13 S., R. 90 W.
QUAD Somerset 7 1/2'
MAP MONTROSE
DVEL This was an anomaly from a core hole.
PROD Anomaly was reported to be 15.0 ft at a grade of 0.017% U3O8.
HOST The host is a sandstone in the Cretaceous Mesaverde Group.
MNZ The mineralization occurs within a gray, medium- to fine-grained sandstone above the lower coal and between two thin coal seams 200 ft above the Rollins Sandstone.
RMKS The core hole was drilled during a coal evaluation on Atlantic Richfield's properties.
DOI 1977

Badger

LOCATION: sec. 5, T. 47 N., R. 2 W.
LCST UNCERTAIN
LCRM Original directions are as follows: "From US 50, south on Colorado 149 10 miles, then northwest 2 miles to sec. 5 along Jeep road."
QUAD Powderhorn 7 1/2'
MAP MONTROSE
DVEL There is one small open cut reported.
BKG .04 mr/hr
RNG To .2 mr/hr
HOST Vein in Precambrian granite, schists and gneissses contains the anomalies.
STRC Structure trends northwest.
MNZ Abundant quartz, barite and hematite - ilmonite staining, some thorite(?) and rare earths. No sulfides were observed.
DOI 1954

Big Red 22

LOCATION: SW1/4 sec. 10, T. 49 N., R. 5 E.
QUAD Garfield 15'
MAP MONTROSE
DVEL Production at this property was from underground workings via an incline shaft.
PROD In 1959 and 1960, 127 tons were mined at a grade of 0.22% U3O8, and containing 557 lbs U3O8.
HOST Ordovician Harding Quartzite contains the mineralization. The quartzite is a remnant on a fault surrounded by Precambrian granite.
STRC The remnant occurs in the footwall of a reverse fault.
MNZ Autinite. One mile north, Paleozoic rocks on the same fault contain Pb-Zn deposits.
DOI 1972

Big Red 39

LOCATION: NW1/4 sec. 10, T. 49 N., R. 5 E.
QUAD Garfield 15'
DVEL No reported production to date.
HOST Cambrian Sawatch Quartzite inlier surrounded by Precambrian granite of Boulder Creek granite age (1700 MY).
STRC The remnant lies on the footwall of a reverse fault.
MNZ Thorium is 3 times as abundant as uranium at this prospect. One-half mile south at Big Red 22 uranium was the only important mineral. One-half mile north Paleozoic rocks along the fault contain Pb-Zn deposits.
RMKS Big Red 22 and 39 are on separate remnants of Sawatch Quartzite.
DOI 1959

Black Mica Company?

LOCATION: sec. 12, T. 46 N., R. 2 W.
LCST UNCERTAIN
QUAD Powderhorn 7 1/2'
MAP MONTROSE
DVEL Occurrence is a vermiculite mine.
HOST Mineralization occurs in carbonate veins in Precambrian pyroxenite.
MNZ Thorite? Ore sample had a value of 0.03% ThO2.

Brown Derby Mine

LOCATION: SE1/4 sec. 3, T. 49 N., R. 3 E.
LCRM SE1/4 sec. 34, T. 49 N., R. 3 E. is also covered by claims. The mine is east of Quartz Creek.
DVEL An open cut with an inclined shaft and underground workings.
PROD In 1944, 400 tons of finished lepidolite and microcline containing 4,000 lbs of Ta2O5 and 238 lbs of U3O8 were produced.
HOST Large zoned pegmatite in a Precambrian meta - diorite. Three parallel dikes strike N10°-45°E and dip 20°-30° to the southeast. Dikes are 11 ft wide and extend for as much as 1,300 ft. Average distance between dikes is 75 ft.
MNZ Quartz, microcline, lepidolite, topaz, albite, beryl tourmaline, muscovite, minor biotite, magnetite, monazite, and columbite. Uranium is associated with the microcline. Hand samples assayed 5.44% to 6.04% U3O8.
DOI 1945

Brush Creek Group (Brush Creek Mining Co.)

LOCATION: sec. 13, T. 13 S., R. 85 W.
LCRM In the CRIB report, the location is noted as section 7, T. 12 S., R. 85 W.
QUAD Pearl Pass 7 1/2'
MAP MONTROSE
DVEL This is an explored prospect.
MNZ Uranium, copper, lead, zinc, gold, silver, germanium were found at the prospect.
RMKS Patented
DOI 1975

**Buzzard's Roost (Pento)**

**LOCATION:** sec. 36, T. 48 N., R. 3 W.
LCST UNCERTAIN
LCRM Original directions are as follows: "From town of Ida, travel south on Colorado 149 for 9 miles, then west 3 miles down very steep jeep road. Deposit is on side of very steep stream valley." Location was given as sec. 12, T. 47 N., R. 3 W. Only mine on the map in the area is in section given above. There is a building located on Cebolla Creek in the SW 1/4 sec. 7, T. 47 N., R. 2 W. which might be the occurrence also. The Pento property was described on a different reconnaissance report. However, the location and direction to the deposit are the same as the Buzzard's Roost. Three tunnels are reported from the Pento locality.

**QUAD Gateview 7 1/2**
MAP MONTROSE
DVEL There are some old workings that are now caved. They were worked for gold.
BKG None reported.
RNG To .7 mr/hr
HOST Vein in Precambrian granite and schists.
MNZ Quartz, barite, abundant limonite, hematite, calcite.
RMKS Radioactivity probably due to thorium.
DOI 1954

**Czar 3**

**LOCATION:** sec. 6, T. 47 N., R. 2 W.
LCST UNCERTAIN
QUAD Gateview 7 1/2
MAP MONTROSE
DVEL There are no previous workings.
BKG .25 mr/hr
RNG To .5 mr/hr
HOST Vein in Precambrian granite, schist, and gneiss overlain by felsic volcanics.
MNZ Hematite, limonite, quartz, barite, and rare earths.
DOI 1954

**Grayjeep Group**

**LOCATION:** NW 1/4 sec. 19, T. 48 N., R. 2 W.
QUAD Big Mesa 7 1/2
MAP MONTROSE
DVEL There are two shafts and several trenches.
BKG .02 mr/hr
RNG .08 to 2.0 mr/hr
HOST Vein in Precambrian biotite schist.
STRC Vein strikes N47°W and dips 38°SE.
ALT Mafic minerals have been altered and kaolinitized near the vein.

MNZ Pyrolusite and a reddish brown mineral (thorite?).
DOI 1955

**Jacks Cabin Area (North Star Claims)**

**LOCATION:** SW 1/4 sec. 17, T. 15 S., R. 84 W.
QUAD Alamos 7 1/2
MAP MONTROSE
DVEL There are several prospects and one adit.
HOST Paleozoic sedimentary rocks in fault contact with Precambrian granite and metasediments. Uranium occurs in both the sediments and the Precambrian rocks. Area was first prospected for copper.
STRC Fault or shear zone (thrust fault), North Star Fault.
MNZ A 0.015% U3O8 assay is reported.
RMKS Geology of this occurrence is very similar to Marshall Pass area. This area should not be confused with the "North Star Group" which is an occurrence in the Powderhorn area.
DOI 1978

**Jeanie 6 & 2**

**LOCATION:** sec. 16, T. 47 N., R. 2 W.
LCST UNCERTAIN
LCRM Probably in the center of the section, 1,000 ft west of the highway.
QUAD Powderhorn 7 1/2
MAP MONTROSE
DVEL Area was most likely prospected for gold.
HOST The vein is in a pink quartzite. A 5-ft wide dike lies along one side of the vein for 400 ft.
MNZ Quartz, limonite, (thorite?). Two samples had values of uE308 of 0.014 and 0.018 but uE308 of 0.001.
RMKS Reported in two Preliminary Reconnaissance Reports.
DOI 1950

**Jenny Claims**

**LOCATION:** sec. 7, T. 12 S., R. 86 W.
LCRM Also reported in sec. 18.
QUAD Snowmass 7 1/2
MAP LEADVILLE
HOST Bedded replacement in Cretaceous Mancos and Dakota Formations.
MNZ U, Pb, Zn, Cu.
DOI 1977

**Lady in Red Shaft (Lady in Red No. 5)**

**LOCATION:** SW 1/4 sec. 8, T. 47 N., R. 2 W.
LCST UNCERTAIN
LCRM There are two reconnaissance reports, one
**Gunnison County**

**Little Indian No. 36**

LOCATION: sec. 9, T. 48 N., R. 6 E.

QUAD Pahlife Peak 7 1/2'  
MAP MONTROSE  
PROD Prior to 1971, 8,152 tons had been mined at a grade of 0.44% U₃O₈ producing 71,762 lbs.  
HOST The host is the Ordogian Harding Quartzite. The mineralization is contained in a 4.5 ft carbonaceous zone in a fossiliferous silty sandstone.  
STRC The quartzite is very steeply dipping and the ore occurs in a vertical interval from surface to 250 ft.  
MNZ The ore was mostly oxidized. Uranophane was the most abundant mineral. Other minerals found were autunite, gummite, boltwoodite, and uraninite. The uraninite was tentatively dated at 40 to 60 million years in age.  
DOI 1972  

**Little Johnnie 1 and 2**

LOCATION: sec. 15, T. 47 N., R. 2 W.

LCST UNCERTAIN  
QUAD Powderhorn 7 1/2'  
MAP MONTROSE  
DVEL Area was originally prospected for gold.  
HOST Vein in Precambrian schist.  
STRC Quartz, limonite. One sample had values of 2.29% ThO₂, 0.50% rare earths 203.  
ALT Zone is reported to be heavily altered.  
MNZ Thorite, no visible uranium minerals. Following is data on channel samples: sample 1.3 ft long, 1.0 mr/hr, 0.072% EU3O₈, 0.048% U₃O₈, 0.11% etH₂O₂; sample 1.1 ft long, 0.7 mr/hr, 0.119% EU3O₈, 0.28% U₃O₈; sample 1.2 ft long, 2.0 mr/hr, 1.11% EU3O₈, 0.002% U₃O₈, 5.35% etH₂O₂, 4.77% ThO₂; sample 1.7 ft long; 0.6 mr/hr, 0.097% EU3O₈, 0.056% U₃O₈, 0.20% etH₂O₂; sample 1.3 ft long, 1.6 mr/hr, 0.28% EU3O₈, 0.078% U₃O₈, 0.046% etH₂O₂; sample 1.1 ft long, 1.0 mr/hr, 0.17% EU3O₈, 0.012% U₃O₈, 0.74% etH₂O₂.

**Matchless Group**

LOCATION: sec. 19, T. 13 S., R. 82 W.  
LCST UNSEYED  
LCRM "Pits can be seen from road near Dinner Station Campground on the opposite side of the creek located in the center of sec. 19."

QUAD Pleiplant 7 1/2'  
MAP MONTROSE  
BKG 0.02 mr/hr  
RNG 0.04 to .45 mr/hr  
HOST Quartz vein in Precambrian complex of igneous and metamorphic rocks.

**STRC** Vein is two ft thick and strikes N300°W and dips 37°-57°E.  
MNZ Abundant copper minerals (Chalcopyrite, malachite, azurite), autunite?. Owner reported values of 2% U and 6% Cu.  
DOI 1956  

**May Queen**

LOCATION: sec. 18, T. 47 N., R. 2 W.

LCST UNCERTAIN  
QUAD Gateview 7 1/2'  
MAP MONTROSE  
DVEL Reported mined for lead.  
BKG 0.05 mr/hr  
RNG To .8 mr/hr  
HOST Vein in Precambrian schists, gneiss, and granite.  
STRC Thorite, galena in a quartz, barite gangue.  
DOI 1954  

**Mrs. Roberts Deeded Land**

LOCATION: N1/4 sec. 15, T. 47 N., R. 2 W.

LCST UNCERTAIN  
LCRM Original directions to deposit are as follows: "From the junction of US 50 and state highway 149, 10 miles west of Gunnison, go south on 147 for 10.5 miles; turn left and go 0.1 mile; take left fork and go 0.9 mile; proceed past ranch house on road trending south and go 0.1 mile to area of dozed trenches". The occurrence was originally located in sec. 10.

QUAD Powderhorn 7 1/2'  
MAP MONTROSE  
DVEL Dozing and trenching have been carried out over a distance of 250 ft.  
BKG 0.2 mr/hr  
RNG 0.5 to 1.5 mr/hr  
HOST Vein in Precambrian biotite gneiss.  
STRC Strike of shear zone is N72°E and dip is norr vertical.  
ALT Zone is reported to be heavily altered.  
MNZ Thorite, no visible uranium minerals. Following is data on channel samples: sample 1.3 ft long, 1.0 mr/hr, 0.072% EU3O₈, 0.048% U₃O₈, 0.11% etH₂O₂; sample 1.1 ft long, 0.7 mr/hr, 0.119% EU3O₈, 0.28% U₃O₈; sample 1.3 ft long, 2.0 mr/hr, 1.11% EU3O₈, 0.002% U₃O₈, 5.35% etH₂O₂, 4.77% ThO₂; sample 1.7 ft long; 0.6 mr/hr, 0.097% EU3O₈, 0.056% U₃O₈, 0.20% etH₂O₂; sample 1.3 ft long, 1.6 mr/hr, 0.28% EU3O₈, 0.078% U₃O₈, 0.046% etH₂O₂; sample 1.1 ft long, 1.0 mr/hr, 0.17% EU3O₈, 0.012% U₃O₈, 0.74% etH₂O₂.

**RMKS** The radioactive high are very localized and spotty along strike.

DOI 1965  
Gunnison County

North Star Group

LOCATION: SW1/4 sec. 4, T. 48 N., R. 2 W.
LCRM Near Dutchman Gulch.
QUAD Big Mesa 7 1/2'
MAP MONTROSE
DVEL Pits.
HOST Quartz veins and granitic dikes in Precambrian schist and amphibolite gneiss.
RMKS Also mentioned as uranium occurrence in Colorado Bureau of Mines Annual Report for 1959 by G. A. Franz, Jr. on page 72.
DOI 1977

Saverne

LOCATION: NE1/4NW1/4 sec. 24, T. 14 S., R. 85 W.
QUAD Cement Mountain 7 1/2'
MAP MONTROSE
DVEL There has been reported a small amount of production of gold. There is one 150 ft tunnel and a 30 ft winze. There is another adit 600 ft uphill on the same fault.
BKG .12 m/hr
RNG .12 to .35 m/hr
HOST Fault in Precambrian granite.
ALT There is abundant kaolinitization.
MNZ Quartz and carbonate gangue, purple fluorite, the radioactive materials are unidentified. There were no sulfides observed.

Silent Friend

LOCATION: SW1/4 sec. 25, T. 51 N., R. 4 E.
LCRM Original directions to deposit are as follows: "From Blue Mesa service station near Sapinero on US 50 turn south on dirt road for 9.3 mi. Take right road fork 1.1 mi. to claim #3. Take left fork, from main 0.7 mi. to #2 claim, continue 1.5 mi. on main road to #1 claim."
QUAD Garfield 15'
MAP MONTROSE
DVEL This is an old silver, gold mining district. There are an estimated 2,000 ft of underground workings in the mine.
BKG .02 m/hr
RNG .02 to .15 m/hr
HOST Silicified brecciated iron-stained vein in Precambrian schists. There are prominent quartz dikes throughout the area.
STRC Vein is 5 ft wide and strikes N30°W.
MNZ Thorite?
DOI 1955

Sunset Claims

LOCATION: sec. 7, T. 47 N., R. 1 W.
QUAD Powderhorn 7 1/2'
MAP MONTROSE
HOST Vein fractures in Precambrian gneiss and granite.
MNZ Uranium, thorium, gold, pyrite.
DOI 1977

Surefire Mining Claims

LOCATION: sec. 25, T. 49 N., R. 2 E.
LCRM The claims also cover sec. 30, 31, T. 49 N., R. 3 E.
QUAD Houston Gulch 7 1/2'
MAP MONTROSE
PROG Collected float samples had a value of 1.0% to 2.0% U3O8.
HOST Sandstone of the Jurassic Morrison Formation.
STRC Fractures.
MNZ Autunite.

Ten Mile Group (Claims 1, 2, 3, Holman Claims)

LOCATION: sec. 22, T. 48 N., R. 3 W.
LCST UN Certain
LCRM Original directions to deposit are as follows: "From Blue Mesa service station near Sapinero on US 50 turn south on dirt road for 9.3 mi. Take right road fork 1.1 mi. to claim #3. Take left fork, from main 0.7 mi. to #2 claim, continue 1.5 mi. on main road to #1 claim."
QUAD Carpenter Ridge 7 1/2'
MAP MONTROSE
DVEL Claim #1 is on site of an abandoned arsenic mine.
BKG .02 m/hr
RNG .02 to .15 m/hr
HOST Silicified brecciated iron-stained vein in Precambrian schists. There are prominent quartz dikes throughout the area.
STRC Vein is 5 ft wide and strikes N30°W.
MNZ Thorite?
DOI 1955

Wayne Wright Prospect (Adair Group, Dubois Mine)

LOCATION: sec. 2, T. 47 N., R. 3 W.
LCST UN Certain
LCRM Original location was with R. 2 W. Also included in this reconnaissance was sec. 3 and 10.
QUAD Gateview 7 1/2'
MAP MONTROSE
DVEL Gold mining area with limited production reported in the 1880's.
BKG .04 m/hr
RNG To 2.5 m/hr
HOST Vein zones in Precambrian schists, gneiss and granite.
STRC Veins strike in a northerly direction.
MNZ Veins are highly iron stained with hematite, limonite, quartz, barite, small amounts of rare earth minerals, and thorite. Minor sulfides were observed.
RMKS Two Preliminary Reconnaissance Reports cover this area.
GUNNISON COUNTY

DOI 1954
Production from this county has been extremely small. Between 1958 and 1961, 18 tons of ore were mined that yielded 68 lb of $U_3O_8$. Potential for more reserves in the county is also small.

The county is entirely within the San Juan Mountains uplift. This uplift and the accompanying Tertiary volcanic activity resulted in extensive extrusive and intrusive rocks. Along the southern edge of the county Paleozoic and Mesozoic rocks dip away from the uplift and into the San Juan Basin. The volcanic activity created several large volcanic caldera systems that contain important producers of base and precious metals within the county.

The one producer of uranium in the county was the Beth Group, located in the northwestern part of the county north of Henson Creek. Production was from veins and disseminations in a fractured rhyolite porphyry stock that had intruded the Tertiary volcanic rocks. This intrusive stock is one of a series that forms a belt 1.5 mile wide and 8 miles long. Fifteen uranium occurrences have been reported in this belt, but they are not documented.

The potential for uranium reserves within the county is low. The volcanic rocks that cover most of the county are not considered favorable hosts for uranium deposits. However, some deposits are known in volcanogenic rocks, but they will require more study. The belt of rhyolite intrusives that contain the Beth Group has the highest potential for reserves. A major company has explored the claims but has taken no action.
Hinsdale County

Bess

LOCATION: T. 44 N., R. 5 W.
LCST UNLOCATABLE
QUAD Uncompahgre Peak 7 1/2', Lake City 7 1/2'
MAP MONTROSE
MNZ Uranium.
RMKS Because of paucity of data and name, it is possible this is really the Beth Group.
DOI 1972

Beth Group

LOCATION: NW1/4 sec. 19, T. 44 N., R. 5 W.
LCST UNSURVEYED
LCRM Located on the south slope of Uncompahgre Peak. The location is further described as being 38°03'N, 107°27'W.
QUAD Uncompahgre Peak 7 1/2'
DVEL Exxon has carried out diamond drilling on the property in 1974-1975. A small amount of ore is reported shipped from the occurrence about 1960.
PROD In 1958 and 1961, a total of 18 tons had been mined at a grade of 0.20% U3O8, containing 68 lbs of U3O8.
HOST Veins and fractures in rhyolite porphyry intruded into Tertiary volcanics. The rhyolite is reported to be deficient in mafic minerals and almost an alaskite in composition.
STRC Rhyolite intrusions form a belt about 1/2 mile wide by 8 miles long. The mineralization is located in fractures or stockworks in the rhyolite near the margin of the intrusion.
MNZ Uranophane, pitchblende. It is reported there are 15 uranium prospects in this belt. Other prospect names mentioned for which we have no location data are El Paso and Red Rocks.
RMKS The claims are owned by Joe Hersey of Gunnison, Colorado as of 1977.
DOI 1977

Eagle Claims 1-5 (Eagle, Mary Alice)

LOCATION: sec. 33, T. 44 N., R. 6 W.
LCST UNSURVEYED
LCRM Directions to occurrences are as follows: "From Lake City go west up Henson Creek road for 10.7 miles, turn right (about 1/4 mile west of large brick bldg. at Capitol City) and follow main traveled road for 2.7 miles, the prospect lies 200 yds immediately ahead." The prospect is at an elevation of 11,000 ft on the steep slope on the north side of the north fork of Henson Creek.
QUAD Watterton 7 1/2'
MAP MONTROSE
DVEL Access road and two small pits have been built by the American Uranium Corp. of Moab, Utah. Also some shallow drilling has been reported.

Goldene Fleece

LOCATION: NE1/4SW1/4 sec. 15, T. 44 N., R. 4 W.
QUAD Lake San Cristobal 7 1/2'
MAP DURANGO
HOST Vein in Tertiary volcanics.
MNZ Gold, silver, copper, lead, zinc, and uranium.
RMKS "Wherever there was high count on the geiger counter gold and silver were found."
DOI 1977

Jody Claims 1-5 (Belson-Gibfrey Claim, Ranger No. 2 Claim)

LOCATION: sec. 17, T. 44 N., R. 5 W.
LCST UNCERTAIN
LCRM The original directions are as follows: "Proceed west from Lake City on Henson Creek Road 6 miles to Uncompahgre Trail. Follow trail 5 mile to prospect". From the description it is possible the trail and occurrences are on or near Neilie Creek.
QUAD Uncompahgre Peak 7 1/2'
MAP MONTROSE
DVEL Small amount of ore developed, no production.
BMK .06 mr/hr
RNG .4 to 7.0 mr/hr
HOST Vug fillings and fracture fillings in the Burn Quartz Latite of Tertiary age.
STRC The mineralization occurs near the contact of the latite with a thin bedded sandy shalo, a member of the Burn Quartz Latite.
MNZ Uranophane, no other minerals noted.
DOI 1956

Neille M Mine

LOCATION: SE1/4SW1/4 sec. 33, T. 44 N., R. 4 W.
LCST UNCERTAIN
LCRM Mine in above location is named the Fancy Fern Mine; however, there are two other prospects nearby.
QUAD Lake City 7 1/2'
MAP MONTROSE
HOST Vein in Tertiary volcanic rocks.
MNZ Merely noted as being an uranium occurrence, with zinc, copper, and silver.
RMKS Occurrence reported by Walter E. Scott, 1956.
Rio Grande Claims 1-10

LOCATION: sec. 35, T. 41 N., R. 5 W.

Directions to occurrence are as follows:
"Travel on Colorado 149 for 20.0 miles west of Creede to road junction. Take left fork and follow improved dirt road past Rio Grande Reservoir for 2.1 miles to prospect. Prospect lies 100 yds south of road." A prospect which may be this one is shown near the Rio Grande River in the southwest corner of the Pole Creek Mountain map.

There were two small pits at time of examination. Owner at time of reconnaissance report was C. C. Wetherill of the nearby Lost Trail Ranch.

Fractures in a small outcrop of Precambrian Eolus Granite which is surrounded on all sides by Tertiary volcanics.
Production in the county has been small. Records show that 517 tons of ore were mined, but only 33 lb of U₃O₈ were produced. This low yield was due to the fact that a large amount of the mined ore was not amenable to processing methods at the time. Still the potential for reserves to be found in the county is high.

Complicated structures and varied rock types characterize the geology of the county. Precambrian rocks are exposed in the Sangre de Cristo and Culebra Ranges on the west side and in the Wet Mountains on the north side. A full section of Paleozoic through Cenozoic rocks are exposed on the sides of the ranges and in the Raton Basin. The famous Spanish Peaks, remnants of Middle Tertiary intrusives, lie on the border between Las Animas and Huerfano Counties.

The three deposits that have recorded production are Anal No. 1, Badito Cone, and Columbine Hills. The Anal No. 1 Deposit produced from beds within the Tertiary Farasita Conglomerate. Although many occurrences are known in the Farasita Conglomerate, this is the only deposit that produced any uranium.

Badito Cone, or Stumbling Stud Pit as the mine is known, is on the south side of the Badito Cone phonolite intrusion. Production at the site has come from inliers of the Cretaceous Dakota and Jurassic Morrison Formations. The mined ore yielded no U₃O₈ because the uranium was chemically bound to a refractory mineral. Dark purple fluorite and metallic zirconium are associated with the uranium.

The last producer is the Columbine Hills Property, for which no location is known. Only one ton of ore was mined from this property.

High potential exists for new reserves of uranium in this county. The Farasita Conglomerate is the most favorable unit in the county and would contain sandstone-type occurrences.
Badito Cone (Stumbling Stud Mine)

LOCATION: sec. 20, T. 26 S., R. 68 W.
QUAD Badito Cone 7 1/2', Hayden Butte 7 1/2'
DVEL Production was all from the Dakota Sandstone.
PROD The U.S. A.E.C. Preliminary Reconnaissance Reports show that 510 tons were mined at a grade of 0.13% U3O8 and 0.009% V2O5.
HOST The mineralization occurs as veins and disseminations in a Tertiary rhyolite intrusive and Cretaceous Dakota Sandstone and Jurassic Morrison Formation.
STRC The intrusion is in the crest of the Greenhorn anticline.
ALT The sandstone is baked and silicified and contains abundant fluorite.
MNZ The mineralization is associated with fluorite and metallic zirconium. Uranium mineral possibly coexists. The rhyolite has an average value of 12 ppm U.
DOI 1977

Bel Aire Claims (Bel Aire 1-6)

LOCATION: sec. 21, T. 26 S., R. 68 W.
LCRM This deposit occurs 1/2 to one mile southeast of Badito Cone.
PHD Reserves, no production.
HOST Stratiform deposit similar to the Stumbling Stud Mine except the uranium occurs at the base of the Purgatoire Formation in unsilicified, non-fluorite bearing sandstone.
MNZ Uraninite occurs in pods.
DOI 1971

City Slicker Claim

LOCATION: sec. 6, T. 29 S., R. 69 W.
LCST UNLOCATABLE
LCRM Small open pit.
DVEL U.S. A.E.C. Production Records show one ton of material averaging 0.06% U3O8 and 0.35% V2O5 was shipped to the VCA mill at Durango in 1953.
HOST The host is carbonaceous sandstone in Permian Sangre de Cristo Formation.
MNZ Carnotite or volborthite on surface changes to black uranium ore at face. 50 in. sample taken at face had values of 0.077% U3O8 and 0.12% U3O8.
DOI 1971

Columbine Hills

LOCATION:
LCST UNLOCATABLE
LCRM Small open pit.
DVEL U.S. A.E.C. Production Records show one ton of material averaging 0.06% U3O8 and 0.35% V2O5 was shipped to the VCA mill at Durango in 1953.
HOST The host is carbonaceous sandstone in Permian Sangre de Cristo Formation.
MNZ Carnotite, azurite, carbon trash and logs. Sample had the following values: 2.5 ft chip sample - 0.11% eU3O8, 0.20% U3O8, 3.69% V2O5, 0.94% Cu; 0.018% eU3O8, 0.94% Cu; 0.027% eU3O8, 0.94% Cu; 1.40% eU3O8, 0.74% U3O8, 4.0% V2O5, 7.50% Cu;
DOI 1971

Dallas Dottie

LOCATION: SW1/4 sec. 27, T. 30 S., R. 69 W.
MAP TRINIDAD
BKG 150 cps
RNG 150 to 2,000 cps
HOST Conglomerates in Permian Sangre de Cristo Formation.
STRC Beds dip 45°E
MNZ Carnotite, azurite, carbon trash and logs. Sample had the following values: 2.5 ft chip sample - 0.11% eU3O8, 0.20% U3O8, 3.69% V2O5, 0.94% Cu; 0.018% eU3O8, 0.94% Cu; 0.027% eU3O8, 0.94% Cu; 1.40% eU3O8, 0.74% U3O8, 4.0% V2O5, 7.50% Cu;
Deiz Ranch

LOCATION: sec. 7, T. 25 S., R. 70 W.
MAP TRINIDAD
BKG .02 mr/hr
RNG .6 to 5.0 mr/hr
HOST Carbonaceous, iron-stained, arkosic sandstone about 1.5 ft thick in the Eocene Farisita Conglomerate.
DOI 1954

Hall Property (School Section)

LOCATION: S1/2? sec. 36, T. 28 S., R. 70 W.
UCST UNCERTAIN
LORL Directions to occurrence are as follows: "From western junction of Colo. 111 with U.S. 160 proceed west on U.S. 160 for 8.8 mi. Take a left turn on dirt road and cross cattle guard and Veta Creek going to fork in road (0.6 mi.) Take left fork in road and continue 0.7 mi. to fork in road. Take right fork and continue to trench."
QUAD La Veta Pass 7 1/2'
MAP TRINIDAD
DVel Two trenches.
BKG .04 mr/hr
RNG .12 to .2 mr/hr
HOST Arkosic red sandstone in Permian Sangre de Cristo Formation.
STRC Mineralized zone is 2 ft wide and trends S12°W.
MNZ Carnotite, secondary copper and vanadium minerals. One sample had values of 0.017% U, 0.013% Ce, 2.34% V2O5.
DOI 1953

**Independent Claim**

LOCATION: NE1/4SE1/4 sec. 9, T. 30 S., R. 69 W.
QUAD Cucharas 7 1/2'
MAP TRINIDAD
DVEL Trench and shaft at occurrence. Vanadium Corporation of America carried out drilling on the property.
RNG 3 x bg
HOST Reddish sandstone in Permian Sangre de Cristo Formation.
STRC Beds strike N10°W and dip 82°W.
MNZ Thin coatings on fractures of yellow and chartreuse colored minerals, malachite, native copper.
DOI 1952

**Isabell Group**

LOCATION: sec. 5, T. 25 S., R. 70 W.
QUAD Bear Creek 7 1/2'

**McGuire**

LOCATION: sec. 5, T. 29 S., R. 69 W.
MAP TRINIDAD
DVEL A sample is reported as having 0.19% UO3, 1.23% V2O5, and 2.35% Cu.
MNZ Calciovolbithite, malachite, uranium, (spotty chrome ore?).
DOI 1972

**McGuire Lode (C.E. Wilson Property)**

LOCATION: N1/2 sec. 9, T. 29 S., R. 69 W.
QUAD La Veta Pass 1/2'
MAP TRINIDAD
DVEL One pit. It was reported that once an 80 ft shaft was sunk on this property to prospect for silver, lead, and radium. This was not confirmed.
MNZ A grade is reported of 0.177% UO3.
BKG .04 mr/hr
RNG To 10 x bg
HOST Reddish brown arkosic sandstone of the Permian Sangre de Cristo Formation.
DOI 1953

**McIntire Property**

LOCATION: sec. 19, T. 27 S., R. 70 W.
UCST UNCERTAIN
LORL There is no description of directions to occurrence.
QUAD Red Wing Pass 7 1/2'
MAP TRINIDAD
DVEL Several small pits.
HOST Red sandstone and shale in Permian Sangre de Cristo Formation.
MNZ Carnotite - roscoelite type minerals and copper. Some assay values of up to 0.4% UO3 are reported but location is questionable.
DOI 1970

Muleshoe (La Veta Pass)

**Muleshoe (La Veta Pass)**

LOCATION: sec. 9, T. 29 S., R. 69 W.
MAP TRINIDAD
BKG .02 mr/hr
RNG 3 to 1.5 mr/hr
HOST Medium- to coarse-grained black carbonaceous shale and conglomeratic sandstone of the Eocene Farisita Conglomerate.
MNZ Pitchblende.
DOI 1955
Huerfano County

Location: E1/2 sec. 13, T. 28 S., R. 70 W.
Quad: La Veta Pass 7 1/2-
Map: TRINIDAD
Prod: Grade reported of 0.15% U3O8 and 1.95% V2O5.
Host: Sangre de Cristo Formation.
Mnz: Uranium, vanadium.
Doi: 1972

Parks Lode Claim

Location: sec. 36, T. 29 S., R. 70 W.
Lcst: Uncertain
Lcrm: Directions to occurrence are as follows:
"From south edge of La Veta take Colo. 111 south for 1.4 mi. and take dirt road on right going to Sulphur Springs. Go 5.2 mi. to Sulphur Springs, and continue through for .8 mi. Then take a left fork for 1.2 mi. and go straight ahead at intersection for .1 mi. Take a right fork for .2 mi. and another right fork for 4.8 mi. Leave jeep and go for 500 ft in direction S70°W to RR tracks. Go left along tracks for 3,775 ft and then go straight east for 300 ft to claim." From the sketch map on the Preliminary Reconnaissance Report, it is thought the occurrence is in the SW1/4 of sec. 31, T. 29 S., R. 69 W.
Quad: McCarty 7 1/2-
Map: TRINIDAD
Dvel: 40 ft shaft which is now filled was sunk for copper near this occurrence.
Bkg: .01 mr/hr
Rng: 40 x bg
Host: Arkosic sandstone in Permian Sangre de Cristo Formation.
Strc: Beds strike N 11°W and dip 24°E. Radioactivity is in a small fracture zone.
Mnz: The radioactivity is associated with yellow secondary mineral which occurs as small spots in a small fracture zone (possibly tuuyamunite). Malachite, azurite. A chip sample had values of 2.62% V2O5, 2.22% Cu, 0.80% EuU3O8, 0.58% EuU3O8.
Doi: 1958

Red Canyon

Location: sec. 18, T. 26 S., R. 68 W.
Lcst: Uncertain
Lcrm: Directions to occurrence are to "south branch of Red Canyon." Initial location is given as sec. 7 which is the main Red Canyon and not the south branch.
Quad: Badito Cone 7 1/2-
Map: TRINIDAD
Bkg: .015 mr/hr
Rng: .015 to .04 mr/hr
Host: Section in canyon starts in Precambrian schist and ends in Cretaceous Dakota Sandstone.
Strc: West flank of Greenhorn anticline.
Mnz: Following is mineralization description from the Preliminary Reconnaissance Report: "No mineralization of any kind was observed, but some very high grade samples of carnellite were said to have been found in Red Canyon. This seem improbable."
Doi: 1954

Santa Rosa Claim

Location: sec. 13, T. 27 S., R. 71 W.
Lcst: Uncertain
Lcrm: Original direction to occurrence is as follows: "Take U.S. 160 east from Ft. Garland for 18.6 mi. to junction Colo. 305. Make left turn and continue on Colo. 305 for 9.6 mi. Make left turn on road between creek and school and follow 2.4 mi. Take right fork and follow road for 1.1 mi. to deposit."
Quad: Red Wing 7 1/2-
Map: TRINIDAD
Dvel: Prospect was first opened for copper.
Prod: Grades of 0.33% to 0.36% U3O8 and 1 to 2% V2O5 are reported.
Bkg: .04 mr/hr
Rng: 2 x bg
Host: Medium-to coarse-grained sandstone with carbonaceous trash in Permian Sangre de Cristo Formation.
Mnz: Autunite, malachite, azurite. Commercial assays for ore from the prospect reported to have had values of 1% - 2% V.
Doi: 1953

Spanish Peaks

Location: sec. 27, T. 30 S., R. 69 W.
Map: TRINIDAD
Mnz: Uranium with values up to 0.2% U3O8.
Doi: 1972

Virginia-Verne 1-6

Location: sec. 17, T. 25 S., R. 70 W.
Map: TRINIDAD
Bkg: .03 mr/hr
Rng: .3 to 4 mr/hr
Host: Grayish, limonite-stained, carbonaceous, medium-grained sandy shale interbedded with small lenses of arkosic sandstone of the Eocene Fariliza Conglomerate.
Mnz: Autunite was only mineral observed.
Doi: 1956

Washtout Claim (Price Ranch)

Location: NE1/4 NW1/4 SE1/4 sec. 16, T. 30 S., R. 69 W.
Quad: Cuchara 7 1/2-
Map: TRINIDAD
Dvel: Trenching and prospecting. Diamond drilling was carried out by the Vanadium Corporation.

184
of America in early 1950s.

RNG  To 5 x bg.
HDST  Reddish sandstone and black carbonaceous shale of Permian Sangre de Cristo Formation.
STRC  Beds strike N14°W and dip 70°E.
MNZ  Native copper reported, malachite, possibly cuprite, unidentified yellow and green minerals.
RMKS  Radioactivity concentrated in 2 in. zone along hanging wall.
DOI  1952

Whitecliff 1-26

LOCATION: sec. 18, T. 25 S., R. 70 w.
QUAD  Devils Gulch 7 1/2', Creager Reservoir 7 1/2'
MAP.  TRINIDAD
DVEL  Several trenches have been bulldozed.
BKG  .04 mr/hr
RNG  .12 to .3 mr/hr
HOST  Limonite-stained, crossbedded, medium-grained, arkosic cobble conglomerate in Eocene Farisita Conglomerate. The cobbles are mostly granite and granite gneiss.
MNZ  No uranium minerals were observed.
DOI  1956
The production of uranium from Jackson County has been small—only one deposit has produced ore. The total production to 1971 is reported as 500 tons at a grade of 0.30 percent, producing 3,000 lb of \( U_3O_8 \).

The central part of the county is dominated by North Park, a large intermontane basin filled with Tertiary sediments and volcanics. North Park is bounded on its eastern and western edges by the Medicine Bow Mountains and the Park Range, respectively. Mesozoic and Paleozoic sediments flank the Precambrian granites and gneissic cores of the ranges.

The one producer in the county is the Pedad Claims, located in the northwestern part of the county near Mount Ethel. They produced ore from a breccia zone in the Precambrian Mount Ethel Granite. A primary mineral associated with the uranium was dark purple fluorite.

It is interesting to note that all occurrences in the county are in the northwestern part of the county. Vein-type occurrences are the most abundant reported, and 11 of these lie in a small area. There is potential for more vein-type and sandstone-type reserves to be found within the county. The large area of the North Park basin could contain sandstone-type occurrences of important size. Although exploration activity has been sporadically intense in North Park for a number of years, no occurrences are documented from these efforts.
Jackson County

Bear Creek Mine

LOCATION: sec. 10, T. 9 N., R. 82 W.
LCRM North side Bear Creek Canyon, 2.2 miles from road in Lone Pine Campground.
QUAD Boettcher Lake 7 1/2'
MAP CRAIG
DVEL There are two tunnels. This is probably a gold or silver mine.
HOST Vein in unknown host.
MNZ Pyrite, galena, chalcopyrite, fluorite.
RMKS Minor fluorite in the upper tunnel is lightly radioactive.
DOI 1950-58?

Crystal Fluorspar Mine

LOCATION: sec. 10, T. 8 N., R. 82 W.
LCRM Mine is shown on topo map just north of Raspberry Creek.
QUAD Pitchpine Mountain 7 1/2'
DVEL The mine is an inactive fluorspar producer. Mining began in 1945.
HOST Vein in Precambrian quartz monzonite and granite rocks.
STRC Vein occurs in breccia zone that is NW trending (reverse fault).
MNZ Fluorite, iron, quartz, uranium.
DOI 1975

Fielder Prospect

LOCATION: T. 8 N., R. 82 W.
LCST UNSURVEYED
LCRM The pegmatite is south of Aqua Fria Lake approximately 0.3 mile on the 10,240 ft contour.
QUAD Mount Ethel 7 1/2'
MAP CRAIG
HOST Pegmatite in Precambrian Mount Ethel granite.
MNZ Xenotime, zircon, bastnaesite. A sample had a value of 0.7% U, this from a spectrographic analysis of a rare earth mineral.
DOI 1966
REF George Snyder, 1977, Personal Communication.

Fred Brad's Ranch (Spring Claims)

LOCATION: sec. 9, T. 9 N., R. 81 W.
LCRM Pit is 1.5 miles north of ranch on east slope of Sheep Mountain.
QUAD Boettcher Lake 7 1/2', Lake John 7 1/2'
MAP CRAIG
DVEL Claims are named Spring 1, 2.
BKG .01 mr/hr
RNG .01 to 2.5 mr/hr
HOST Uranium from spring waters (?) deposited in overlying the Jurassic Morrison Formation, and Precambrian granite.

James Bird Prospect

LOCATION: sec. 34, T. 9 N., R. 82 W.
LCST UNCERTAIN
LCRM Reported to be about 300 yds south of the southern rim of Red Canyon.
QUAD Pitchpine Mountain 7 1/2'
DVEL One prospect pit approximately 8 ft long, 2 ft wide, and 5 ft deep.
HOST Vein in Precambrian Granite.
STRC The vein is thought to be on the N-S fault which controls the Pedad occurrence mineralization. The vein strikes N70°E and dips vertically and is approximately 15 ft wide.
ALT At a depth of 4 ft the fluorite in the vein grades into altered granite.
MNZ The vein contains mainly dark purple radioactive fluorite. Other minerals observed are galena, chalcopyrite, and malachite (?). No uranium minerals were observed.
DOI 1957

Pedad Claims Nos. 1-5

LOCATION: sec. 27, T. 9 N., R. 82 W.
LCST UNSURVEYED
QUAD Pitch Pine Mountain 7 1/2'
MAP CRAIG
DVEL Two pits.
PROD As of 1971, 500 tons had been mined at a grade of 0.30% U3O8.
BKG 60 cps
RNG 250-950 cps
HOST Breccia in north trending fault cutting the Precambrian Mount Ethel Granite.
STRC Breccia zone approximately one ft wide. Strike N78°E, dips 77°NW.
ALT Wall rock and breccia fragments are intensely bleached and kaolinitized.
MNZ Dark purple fluorite, fine grained pyrite (radioactive), white silica, iron oxides, sample value of 0.35% U3O8.
DOI 1957

Sample No. 7

LOCATION: SW1/4 sec. 27, T. 9 N., R. 82 W.
LCST UNSURVEYED
JACKSON COUNTY

LCRM From the area of the Pedad Claim occurrence.

QUAD Pitchpine Mountain 7 1/2'

MAP CRAIG

HOST Rock sample.

RMKS Sample data: 50 ppm Nb, 258 ppm U, 34 ppm Th.

DOI 1977

REF George Snyder, 1977, Personal Communication.

Sheep Mountain Prospect

LOCATION: sec. 33, T. 10 N., R. 81 W.
LCRM 1 1/2 mile south of Boettcher Lake on top of the Dakota Hogback.

QUAD Boettcher Lake 7 1/2', Lake John 7 1/2'

MAP CRAIG

DVEL There are two prospect pits.

BKG 110-120 cps

RNG 500-750 cps

HOST Sandstone and conglomerate in the Cretaceous Dakota Sandstone.

STRC Highest radioactivity is on fractures of sandstone near a NW trending fault.

MNZ Abundant limonite and manganese staining with values of 0.03% to 0.052% U3O8.

DOI 1953


Simmons

LOCATION: sec. 25, T. 12 N., R. 81 W.

QUAD Independence Mountain 7 1/2'

MAP CRAIG

MNZ Uranium.

DOI 1972

Jefferson County has been a major county for production of uranium in the state. The Schwartzwalder Mine, one of the major vein-type uranium mines in North America, has produced approximately 98 percent of all U₃O₈ in the county. As of May 1978, total production from the mine has been reported as 10,500,000 lb of U₃O₈ (J. Haley, 1978, pers. comm.), which makes the Schwartzwalder the largest uranium producing mine in the state. Twelve other mines in the county have produced uranium, but only a small percentage compared to the Schwartzwalder's total production. By 1971 these other mines had produced 39,781 tons of ore and 210,827 lb of U₃O₈. The potential for more reserves of uranium to be found in the county is excellent.

Two different terranes characterize the geology of Jefferson County. The northeastern quarter of the county is underlain by Paleozoic and Mesozoic sedimentary rocks, usually flat-lying, except near the mountain front. The rest of the county is composed of Precambrian granites, gneisses, and schists of the Front Range, mainly the Idaho Springs Formation and the Pikes Peak Granite, which are cut by many northwest-southeast-trending faults, fault zones, and/or breccia reef systems.

Many occurrences in the county can be considered important; however, only the following major producers are discussed: Ascension Mine, Aubrey Ladwig Mine, Grapevine Mine, Mann Ranch, Mens Mine, Leyden Coal Mine, Pallaora Lease, Schwartzwalder Mine, Stone Placer Mine, and Wright Lease.

Seven of the ten mines occur where a fault or breccia zone transects the Precambrian Idaho Springs Formation. With the exception of the Leyden Coal Mine, the Mann Ranch and the Pallaora Lease, these mines, including the Schwartzwalder, are all clustered along three northwest-trending faults or breccia reef systems within six miles of the fault system along the mountain front.

The Mann Ranch and the Pallaora Lease lie close to each other on the hogback of the Dakota Formation at Turkey Creek Canyon. Faulting in the Dakota Sandstone appears to have dammed up the mineralizing solutions that formed both deposits. Asphaltite and uraninite are the ore minerals.

The Leyden Coal Mine is the final type of important deposit in the county. At this mine the uranium occurs as uraninite in silica-filled cracks and fractures within the coal. During the 1950's the U.S. Geological Survey carried out a drilling program at the mine and reported an estimated reserve of 17,000 tons of ore at a grade of 0.2 percent U₃O₈.

As pointed out earlier the county has high potential for more reserves of uranium. The Precambrian fracture-controlled type of deposits, the most likely to be found, will be explored for in the foothills west of the mountain front. The sandstone type of deposit has less potential.
Ascension Mine (Nair Prospect, Nare Lease)

LOCATION: NW1/4 sec. 24, T. 3 S., R. 71 W.
QUAD Ralston Buttes 7 1/2'
DVEL Radioactivity was discovered in 1955 and exploration began in 1956. There were at least two diamond drill holes drilled. Several adits were driven and trenching by bulldozing was carried out.
PROD During the period 1956-1963, a total of 3,996 tons averaging 0.29% U3O8 and containing 23,431 lbs of U3O8 were mined.
HOST Calc-silicate gneiss of the Precambrian Idaho Springs Formation.
STRC Fault breccias striking NW and dipping steeply easterly. Also a pegmatite dike cuts the prospect.
MNZ Pitchblende with sparse base metal sulfides. Uraninite disseminated in a carbonate breccia, composed of quartz, calcite, and ankerite.
RMKS There is possibility of confusion with the Oman Mine, which is also called Nare Lease.
DOI 1967

Bankers Lode Claim

LOCATION: SE1/4NW1/4 sec. 9, T. 2 S., R. 71 W.
QUAD Ralston Buttes 7 1/2'
DVEL Mineralization was discovered in 1954. Production began in 1955. Workings consist of an open pit, shaft with a crosscut and stope, and various exploration pits.
PROD During the period 1955-1956, 1,942 tons of ore were mined at a grade of 0.25% U3O8, producing 9,527 lbs of U3O8.
HOST Brecciated garnetiferous biotite-quartz gneiss and pegmatite of the Precambrian Idaho Springs Formation.
STRC Mineralization in fractures or coarse brecciation along or near the contact of the pegmatite and gneiss.
MNZ Lenses and pods of pitchblende up to 60 pounds in weight were mined in the open pit. Meta-autunite was also common. Metatorbernite, metazeunerite, and fourmarierite have also been identified from the mine. Pyrite is common but no base metal sulphides have been identified. Fluorite has been identified from the mine.
RMKS This occurrence is not on a breccia-reef fault, which makes it different from others in the area.
DOI 1954

Babcock Prospect (Ralston Buttes Uranium Mining Co. Prospect)

LOCATION: SW1/4 sec. 7, T. 2 S., R. 71 W.
QUAD Ralston Buttes 7 1/2'
DVEL Several inclines and adits. History unknown, apparently explored for copper.
PROD During the period 1956-1963, a total of 3,996 tons averaging 0.29% U3O8 and containing 23,431 lbs of U3O8 were mined.
HOST Biotite gneiss of the Precambrian Idaho Springs Formation with narrow quartz lenses.
STRC Fracture zone striking N40°E dipping 70°NW.
ALT Gneiss is reported as being altered but no description.
MNZ Torbernite, chalcopyrite, chrysocolla, malachite, pyrite, limonite, quartz, clay minerals.
DOI 1967

Babcock Prospect (Ralston Buttes Uranium Mining Co. Prospect)

LOCATION: SW1/4 sec. 8, T. 4 S., R. 70 W.
QUAD Ralston Buttes 7 1/2'
DVEL Several inclines and adits. History unknown, apparently explored for copper.
PROD During the period 1956-1963, a total of 3,996 tons averaging 0.29% U3O8 and containing 23,431 lbs of U3O8 were mined.
HOST Biotite gneiss of the Precambrian Idaho Springs Formation.
STRC Fracture zone striking N40°E dipping 70°NW.
ALT Gneiss is reported as being altered but no description.
MNZ Torbernite, chalcopyrite, chrysocolla, malachite, pyrite, limonite, quartz, clay minerals.
DOI 1967

Bililken Lode

LOCATION: SW1/4 sec. 3, T. 7 S., R. 70 W.
QUAD Pine 7 1/2'
DVEL Several inclines and adits. History unknown, apparently explored for copper.
PROD During the period 1956-1963, a total of 3,996 tons averaging 0.29% U3O8 and containing 23,431 lbs of U3O8 were mined.
HOST Biotite gneiss of the Precambrian Idaho Springs Formation.
STRC Fracture zone striking N40°E dipping 70°NW.
ALT Gneiss is reported as being altered but no description.
MNZ Torbernite, chalcopyrite, chrysocolla, malachite, pyrite, limonite, quartz, clay minerals.
DOI 1967
Jefferson County

Bonzon 1

LOCATION: SE1/4 sec. 33, T. 6 S., R. 69 W.
LCRM On north side of river along road.
QUAD Kassler 7 1/2'
DVEL Adit and pits.
BKG .05 m r/hr
RNG .2 to 20
HOST Gneiss in the Precambrian Idaho Springs Formation.
MNZ Chalcopyrite, malachite, pitchblende, analysis range from .16% U3O8 to 11.2% U3O8.
RMKS Gate on road is locked, contact Denver Water Board to gain entry.

Borazetti Property

LOCATION: sec. 33, T. 7 S., R. 70 W.
LCST UNCERTAIN
LCRM Prospect was reported to be in Douglas County. Also reported to be in sec. 32. More likely the description corresponds to SW1/2 sec. 33.
QUAD Platte Canyon 7 1/2'
DVEL Mine has produced about 200 tons of K feldspar during the 1940's.
HOST Pegmatite in Precambrian Pikes Peak Granite.
MNZ Mica lens in pegmatite had a value of 8 m r/hr while the K feldspar had a reading of .15 m r/hr.
DOI 1953

Bray Lease

LOCATION: NE1/4 sec. 12, T. 5 S., R. 70 W.
LCRM In Turkey Creek water gap through Dakota Hogback.
QUAD Morrison 7 1/2'
BKG .015 m r/hr
RNG .05 to .4 m r/hr
HOST Cretaceous Dakota Sandstone and Tertiary alluvium.
MNZ Carnitote?
RMKS Other anomalous prospects nearby in Dakota Sandstone.

Brereton Prospect

LOCATION: NW1/4 sec. 17, T. 2 S., R. 71 W.
QUAD Eldorado Springs 7 1/2'
DVEL One 45 ft adit.
HOST Precambrian pegmatite in Precambrian fine-grained granite.

Buckman Property (Golden Gate Canyon No. 2)

LOCATION: NE1/4NW1/4NE1/4 sec. 25, T. 3 S., R. 71 W.
LCRM About 15 ft east of the Golden Gate Canyon road.
QUAD Ralston Buttes 7 1/2'
DVEL Adit was operated in 1916. It is 86 ft long with a 25 ft winze.
HOST The shear zones are NE trending. However, the Hurricane Hill fault system is about 300 ft west of the adit.
MNZ Pitchblende, uranophane, uranopilite, pyrite, chalcopyrite, molybdenite, hematite, quartz. Samples range from .06 to .82% U.
DOI 1967

Cervi Lease

LOCATION: NE1/4NW1/4NE1/4 sec. 24, T. 3 S., R. 71 W.
QUAD Ralston Buttes 7 1/2'
MAP DENVER
HOST The deposit occurs in a vein in Precambrian biotite-plagioclase quartz gneiss.
STRC The Hurricane Hill fault breccia may be an important ore control.
MNZ Uranium mineralization was recognized but specific minerals were not identified.
DOI 1955

Coors Pegmatite

LOCATION: sec. 18, T. 4 S., R. 71 W.
MAP DENVER
HOST Precambrian pegmatite in a hornblende gneiss of the Idaho Springs Formation.
STRC The pegmatite trends northeast.
MNZ Allanite - orthite, microcline, albite, cleavelandite, quartz, mica, magnetite, garnet.
DOI 1972

F.M.D. Mine

LOCATION: NW1/4 sec. 25, T. 4 S., R. 71 W.
QUAD Evergreen 7 1/2'
BKG .005 m r/hr
RNG .005 to .1 m r/hr

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191
HOST Precambrian Idaho Springs Formation, biotite and amphibolite schist.

STRC Shear zone striking N70°W, 10 ft wide and 1/2 mile long.

MNZ Chalcopyrite, malachite, azurite, pyrite, hematite, limonite, quartz.

DOI 1954


GROSSO

LOCATION: sec. 18, T. 3 S., R. 70 W.

QUAD Ralston Buttes 7 1/2

MAP DENVER

DVEL This is an explored prospect.

MNZ Uranium.

DOI 1975


Hidden Treasure Group

LOCATION: S1/2 sec. 24, T. 2 S., R. 71 W.

LCST UNCERTAIN

LCRM From North Star Mine approximately 1 mile southeast.

QUAD Ralston Buttes 7 1/2

DVEL One trench.

BKG .03 mr/hr

RNG .03 to .06 mr/hr

HOST Precambrian Idaho Springs Formation, layered carbonate-silicate gneiss.

STRC Fracture zone striking N60°E dipping near vertical, approximately 1 ft wide. Zone is considered part of Hurricane Hill fault system.

MNZ Sooty pitchblende, pyrite, asphalite and rhodochrosite? A grab representative sample of a 1/2 ton pile had a value of 0.15% U3O8.

DOI 1974


GILPIN MINE

LOCATION: SE1/4 NW1/4 sec. 19, T. 3 S., R. 70 W.

LCRM Reported as being in Douglas County.

QUAD Ralston Buttes 7 1/2

HOST Pegmatite in Precambrian Pikes Peak Granite.

MNZ Quartzite?, quartz, feldspar, fluorite and blebs of primary radioactive minerals.

DOI 1952


Grapevine Mine (Grapevine 1 and Grapevine Lease)

LOCATION: NE1/4 NW1/4 sec. 29, T. 4 S., R. 70 W.

LCRM Near Idledale.

QUAD Morrison 7 1/2

PROD During the period 1955 - 1968, 3,753 tons with an average grade of 0.32% U3O8 and containing 23,850 lbs of U3O8 were produced.

HOST Hornblende gneiss of Precambrian Idaho Springs Formation.

STRC Major shear zones traverse the area and probably control mineralization.

MNZ Pitchblende occurs as sooty material coating fractures and as fissure fillings associated with pyrite, quartz, feldspar, limonite and hematite, and clay minerals.

DOI 1971


LEDBIG 1 (LEDWIG 2 PROSPECT)

LOCATION: SE1/4 NW1/4 sec. 19, T. 3 S., R. 70 W.

LCRM Same road to Swartzwalder Mine up Cressman Gulch.

QUAD Ralston Buttes 7 1/2

PROD No production prior to 1971. A small shipment was made to the Canon City mill in 1971 for private uranium sales by the Cotter Corp.

HOST Carbonate breccia and hornblende gneiss of the Precambrian Idaho Springs Formation.

STRC NW trending breccia-reef fault with offset of approximately 100 ft.

MNZ Pitchblende, torbernite, uranophane?, secondary copper minerals.

RMKS An old shaft with copper mineralization is 500 ft S48°E of this prospect. However, there is no anomalous radiation associated with it.

DOI 1977


LEDBIG 2 & 3

LOCATION: SE1/4 sec. 19, T. 3 S., R. 70 W.

LCRM Approximately 1,500 ft ENE from Union Pacific prospect.

QUAD Ralston Buttes 7 1/2

HOST Breccia in hornblende gneiss of the Precambrian Idaho Springs Formation.

192
Mena Mine (Hoffmeister Homestead Prospect, Black Judge Shaft, Nigger Shaft)

LOCATION: NW1/4NE1/4 sec. 26, T. 2 S., R. 71 W.

QUAD Ralston Buttes 7 1/2

DVEL Originally prospected as a copper prospect in 1912 by a Mr. Hoffmeister. Also reported as having been worked as a radium prospect.

PROD During the period 1956 - 1962, a total of 1,304 tons averaging 0.26% U3O8 and containing 6,676 lbs of U3O8 were mined.

HOST Brecciated hornblende gneiss, amphibolite, and biotite gneiss of the Precambrian Idaho Springs Formation.

STRC Fault in the Rogers breccia reef fault system. Breccia varies from 1 to 8 ft in width.

ALT The breccia fragments are highly altered with potassic alteration being prominent.

MNZ Pitchblende is the uranium mineral. Gangue is ankerite, quartz, calcite and potassium feldspar. Also pyrite, galena, chalcopyrite and other copper and nickel sulphides have been identified.

DOI 1977


Little Patsy (Oregon 1 - 3)

LOCATION: sec. 28, T. 2 S., R. 70 W.

LCRM Incorrectly located in Douglas County. Also Little Patsy quarry was reported as being in sec. 33.

QUAD Platte Canyon 7 1/2

HOST Pegmatite in Precambrian Pikes Peak granite.

MNZ Fergusonite, samarskite, quartz, feldspar, biotite, autunite, torbernite. The rare earth minerals occur adjacent to the biotite - feldspar zone.

DOI 1951


Mann Ranch (Mann Mine, Vanadium Queen)

LOCATION: SE1/4NE1/4 sec. 12, T. 5 S., R. 70 W.

QUAD Morrison 7 1/2

MAP DENVER

PROD During the period 1955-1961, 2,893 tons were mined at a grade of 0.27% U3O8, producing 15,579 lbs of U3O8.

HOST Cretaceous Dakota Sandstone.

STRC A fault striking N40° to 45°W and dipping 50°SW appears to have acted as a dam to mineralizing solutions.

MNZ The ore is an asphalitic material containing finely divided uraninite, accompanied by pyrite.

DOI 1975

HOST Fault breccia in microcline gneiss of the Precambrian Idaho Springs Formation.

STRC Fault which is part of the Rogers breccia reef fault system. The fault strikes NW and dips 45°NE. Layering and foliation near the mine strike NE and dip 75 - 85°SE.

ALT The breccia fragments are reported as being altered.

MNZ Pitchblende, uranophane, bornite, chalcocite, covellite, malachite, azurite. A grab sample of pitchblende bearing breccia from dump assayed 20.3 ounces of silver per ton. Channel samples underground had values of 0.002% to 0.510% U.

DOI 1967


STRC Along Old Man Mine (Nare Lease)

LOCATION: NE1/4 sec. 25, T. 3 S., R. 71 W.

LCST UNCERTAIN

LCRM Near the Buckman adit is the only location described given.

QUAD Ralston Buttes 7 1/2'

PROD Between 1957 - 1964, U.S. A.E.C. Production Records show production of 83 tons averaging 0.71% U3O8, containing 1,170 lbs of U3O8.

HOST Hornblende gneiss of the Precambrian Idaho Springs Formation.

MNZ Pitchblende.

DOI 1967


Old Leyden Mine (Old Leyden Coal Mine, Leyden Mine)

LOCATION: sec. 28, T. 2 S., R. 70 W.

QUAD Golden 7 1/2'

MAP DENVER

DVEL Past producing coal mine.

PROD Between 1954-1956, a total of 645 tons were mined at a grade of 0.35% U3O8, producing 4,533 lbs of U3O8. Drilling work published in a TEL estimated 17,500 tons of coal with a grade of 0.2% U3O8.

HOST Sandstone, coal, and carbonaceous claystone in the Cretaceous Laramie Formation. The mineralization occurs as uraninite in siliceous material filling cracks in the coal.

MNZ Mctsyuyamunite, autunite, uranophane, coffinite, uraninite, pyrite, and marcasite.

DOI 1971


Oregon 1, 2 & 3 (Little Patsy)

LOCATION: sec. 33, T. 7 S., R. 70 W.

QUAD Platte Canyon 7 1/2'

MAP DENVER

MNZ Uranium and rare earth metals are present.

DOI 1975


Pallaora Lease (Morrison Mine, Four Corners)

LOCATION: S1/2 sec. 1, T. 15 S., R. 70 W.

LCRM Also N1/2NE1/4, sec. 12.

QUAD Morrison 7 1/2'

MAP DENVER

PROD During the period 1955-1960, 678 tons were mined at a grade of 0.20% U3O8 and 0.02% V2O5 producing 2,657 lbs of U3O8 and 256 lbs of V2O5.

HOST Lenses in upper member of the Cretaceous Dakota Sandstone.

STRC A fault appears to have caused a damming of the ore fluids. The fault strikes N40°W and dips 30-55°SW.

MNZ The ore is an asphaltic material containing finely divided uraninite, accompanied by pyrite.

DOI 1972


Ouatman Lease

LOCATION: NE1/4 sec. 29, T. 4 S., R. 70 W.

LCRM Leased fee ground.

MAP DENVER

DVEL One 130 ft long adit.

PROD In 1955 and 1960, a total of 12 tons were mined at a grade of 0.16% U3O8, producing 39 lbs of U3O8.

HOST Precambrian Idaho Springs Formation.

MNZ Pitchblende or uraninite, scattered sulfides.

DOI 1971


Schwartzwalder Mine (Ralston Creek Mine)

LOCATION: SW1/4 sec. 25, T. 2 S., R. 71 W.

QUAD Ralston Buttes 7 1/2'

DVEL Mine was discovered in 1949. Production began in 1953. The mine was sold to the Denver - Golden Oil and Uranium Co. and subsequently to the Cotter Corporation, the present owners. As of 1978, mining was being carried out on the 1600 level, and exploration was being done on the 1900 level of the mine. The Schwartzwalder Mine is one of the major producers of the uranium in North America from a vein type environment.

PROD Through 1966, the U.S. A.E.C. had purchased 137,267 tons averaging 0.79% U3O8, and containing 2,166,772 lbs of U3O8. In Young, 1977, total production to date (1977) is reported as approximately 9.6 million lbs of U3O8, with the grade of ore about 0.6% U3O8. As of...
June, 1978 total production is reported as about 10,500,000 lbs of U3O8. Grade of ore being mined in 1978 is approximately .35% U3O8.

HOST The mineralization occurs in garnet biotite gneiss, quartz biotite schist and quartzite, all of which are within the Precambrian Idaho Springs Formation (hornblende gneiss).

STRC Large NW trending faults adjacent to the NW Rogers breccia-reef fault system, especially horst tails or cymboids in these faults, controls the mineralization.

ALT Chliritic and potassic alterations are confined to the breccia fragments along with silification, and replacement by ankerite. Zoning has not been recognized.

MNZ Uraninite is the primary mineral in the deeper levels. Sooty pitchblende occurred in the upper levels. Other minerals present are pyrite, chalcopyrite, tetrahedrite, bornite, galena, sphalerite, molybdenite in quartz, ankerite, calcite and potassic feldspar gangue.


DOI 1977


Shale Prospect

LOCATION: SE1/4 sec. 35, T. 4 S., R. 70 W.

QUAD Morrison 7 1/2'

HOST Black carboniferous shale in Cretaceous Dakota Sandstone.

MNZ Small yellow grains (carnotite?) are visible in shale. Analysis of 0.013% U.

RMKS Sandstone and shale are anomalous on both sides of gap of Bear Creek.

DOI 1954


Stevenson Prospect

LOCATION: sec. 2, T. 5 S., R. 70 W.

QUAD Morrison 7 1/2'

BKG .025 mr/hr

RNG .025 to 5 mr/hr

HOST Cretaceous Dakota Sandstone, fine- to medium-grained, buff colored with iron stains. Carbonaceous siltstone above and below.

MNZ Carnotite?

DOI 1954


Stone Placer (7 Devils Prospect)

LOCATION: sec. 5, T. 7 N., R. 69 W.

MAP DENVER

PROD Between 1958 - 1960, a total of 1,143 tons were mined at a grade of 0.44% U3O8, producing 10,117 lbs of U3O8.

HOST Precambrian Idaho Springs Formation.

MNZ Pitchblende or uraninite, scattered sulfides.

DOI 1971


Sunrise Peak Pegmatite

LOCATION: SW1/4SE1/4 sec. 22, T. 4 S., R. 71 W.

MAP DENVER

PROD The pegmatite has production as follows: Columbite - 10 lbs; samarskite - 500 lbs.

HOST Pegmatite in Precambrian gneiss.

STRC Pegmatite strikes N60°E to 80°W and dips near vertical NW.

MNZ Xenotine, tantaIite, samarskite, zircon, niobium, feldspar, beryl, topaz, microsite, rare earths.

DOI 1972


Union Pacific Prospect 2

LOCATION: S1/2 sec. 23, T. 2 S., R. 71 W.

QUAD Ralston Buttes 7 1/2'

BKG .03 mr/hr

RNG .03 to .7 mr/hr

HOST Precambrian Idaho Springs Formation hornblende gneiss.

STRC Fracture zones striking NW and dipping NE and SW.

MNZ Sooty pitchblende, malachite, tenorite, limonite.

DOI 1955


Union Pacific Shaft (Union Pacific Prospect)

LOCATION: SW1/4SE1/4 sec. 19, T. 3 S., R. 70 W.

QUAD Ralston Buttes 7 1/2'

HOST Brecciated hornblende gneiss unit of the Precambrian Idaho Springs Formation.

STRC Brecciated fault zone 10 - 15 ft wide, striking N15°E and dipping 35°NE. Sheridan considered it to be part of the Hurricane Hill breccia - reef fault system.

ALT The fragments in the breccia are replaced by K feldspar or ankerite.

MNZ Pitchblende, hematite, tennantite, chalcopryte, bornite, chalcocite, covellite, sphalerite, emplotyte, pyrite, ankerite, potassic feldspar, calcite. Sample values range from 0.11% U in a grab on the dump to 0.003 to 5.84% U in channel samples.

DOI 1967


195
Jefferson County

Unnamed 1

LOCATION: sec. 12, T. 5 S., R. 70 W.
LCRM Along Turkey Creek.
HOST Upper member of the Cretaceous Dakota Formation.
MNZ Uranium.
DOI 1972

Unnamed 2

LOCATION: sec. 2, T. 5 S., R. 70 W.
LCRM North end of Mt. Glennon near Bear Creek.
HOST Cretaceous Dakota Formation.
MNZ Uranium.
DOI 1972

Unnamed 3

LOCATION: sec. 32, T. 4 S., R. 70 W.
LCRM North side of Bear Creek, 1/2 mile west of Idledale.
HOST Vein in a breccia reef of Tertiary age.
STRC Shear zone?
MNZ Pitchblende.
DOI 1972

Unnamed 4

LOCATION: sec. 24, T. 2 S., R. 71 W.
MAP DENVER
HOST Precambrian gneisses and amphibolite.
DOI 1972

Unnamed 5

LOCATION: NW1/4 sec. 36, T. 7 S., R. 70 W.
MAP DENVER
HOST Precambrian pegmatite.
MNZ Feldspar, quartz, mica, rare earths, uranium.
DOI 1972
DOI 1975

Unnamed 6

LOCATION: NW1/4 sec. 32, T. 4 S., R. 70 W.
QUAD Morrison 7 1/2'
MAP DENVER
DVEL Explored prospect.
MNZ Uranium.

Wright Lease (Foothills Mine)

LOCATION: NW1/4 sec. 32, T. 4 S., R. 70 W.
QUAD Morrison 7 1/2'
MAP DENVER
DVEL Explored prospect.
HOST Uranium occurs in a breccia vein trending N50°W, and dipping an average of 70°NE, in schists, gneisses, and pegmatites of the Precambrian Idaho Springs Formation.
STRC Ore shoots are concentrated in wider zones where the vein is refracted to the north, and the vein pinches where it bends southward, indicating strike-slip movement with the footwall moved to the northwest in relation to the hanging wall. Wall rock along ore shoots is generally quartz-feldspar pegmatite.
MNZ The ore mineral is finely disseminated pitchblende intimately associated with ankerite. The gangue contains abundant calcite and potash feldspar as well as pyrite, chalcopyrite and galena.
DOI 1959
Kiowa County is situated in the eastern prairies of Colorado. Surface formations exposed are primarily the Miocene-Pliocene Ogallala Formation and the Upper Cretaceous Niobrara Group. Some Upper Cretaceous Pierre Shale crops out near the eastern borders of the county.

No production of uranium has taken place in this county, and no occurrences are known within the county. Several wells in the county sampled by the U.S. Geological Survey, however, showed higher than average values of uranium in the water.

North of the Arkansas River, the Ogallala Formation, which generally had higher than average uranium values in water samples, may be an interesting area for further study and has some potential for uranium resources in a sandstone-type of occurrence.
Kit Carson County is located in extreme eastern Colorado and covered almost entirely by the rocks of the Miocene-Pliocene Ogallala Formation. Some small exposures of the Upper Cretaceous Pierre Shale are present along the upper course of the Republican River.

No uranium occurrences are known within the county, but favorable formations with uranium resource potential are present. Wafer sampling in other parts of the eastern plains has shown higher than average uranium values in waters derived from the Ogallala Formation. The Sharon Springs Member of the Pierre Shale is also known to contain small occurrences of uranium in other parts of the state as well. Due to the flat topography of the county, water sampling would be the most desirable method of exploring for uranium.
LAKE COUNTY

No uranium has been recorded from the county, and no important occurrences are known within the area.

Lake County lies in west-central Colorado in an area of rugged mountainous terrain. The basement rocks are primarily Precambrian schists, gneisses, and granite. Both the igneous-metamorphic rocks and the overlying Paleozoic sedimentary rocks are intensely folded and faulted, and are intruded by Late Cretaceous(?), Tertiary, and Pleistocene(?) sills, dikes, and plugs. Pleistocene glaciers have shaped the present stream valleys and mantled much of the area with thick surficial debris.

Small quantities of uranium minerals are nearly ubiquitous throughout the various metal deposits in the county, but the only concentrations found so far have been in the St. Kevin district. Many of the old prospects and mines in that area show slightly higher than average background, but only a few show twice background or more. The radioactive minerals are not megascopically identifiable but are generally associated with limonite or other iron oxides that are found in a fine-grained, probably granitized and disintegrated schists. Torbernite is occasionally associated with turquoise in some of the turquoise mines in that district.

The county probably does not hold great potential as a uranium province. Underground exploration in existing mines and thorough surface prospecting have not resulted in any important discoveries. In the Alma mining district, just east of Lake County, uranium occurrences are present, but they, too, are scattered and weak. What uranium is present appears to be simply a minor constituent of metal-sulfide deposits.
Eclipse Mine

LOCATION: SW1/4NE1/4 sec. 28, T. 9 S., R. 79 W.
LCST UNSURVEYED
QUAD Mount Sherman 7 1/2'
MAP LEADVILLE
DVEL There are extensive drifts and crosscuts. The main shaft is 1,000 ft deep.
BKG .6 to 1.4 mr/hr
RNG 1.0 to 6.0 mr/hr
HOST The deposit occurs in shales seams of the Pennsylvanian Weber Formation.
STRC The seams sampled strike N12°W and N30°W and dip roughly 530°W.
ALT Hydrothermal alteration is present, and is probably Tertiary in age.
MNZ The radioactive minerals are too fine grained for megascopic determination, but occur in shale seams from one to several in. thick. One sample assayed 0.032% U3O8 and 0.019% U3O8.
DOI 1951

Griffin Mines

LOCATION: SW1/4SW1/4 sec. 6, T. 9 S., R. 80 W.
QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
MAP LEADVILLE
DVEL There are several caved adits, and one shaft about 40 ft deep. There are also numerous small prospect pits and caved shafts.
BKG .4 to 1.2 mr/hr
RNG 3.0 to 8.0 mr/hr
HOST The host rock is Precambrian granite and schist.
STRC The host is cut by a Tertiary fracture zone. The main Griffin vein strikes N70°E and dips 70°5E, with branches extending off.
ALT The host is reported as often altered and silicified.
MNZ Gold, silver, galena, and sphalerite were all mined in the area. The radioactive minerals were not identified. Secondary minerals present include quartz, pyrite, brecciated chert, and ilmenite.
DOI 1951

Huckleberry Mine

LOCATION: NW1/4NE1/4 sec. 6, T. 9 S., R. 80 W.
LCRM The mine is up Gleason Gulch Road.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL The main shaft is inclined at an altitude of 10,163 ft. Two other workings, one above the main shaft and one below, are represented by large dumps. All workings are inaccessible.
BKG .6 to 1.2 mr/hr
RNG 6.0 to 10 mr/hr
HOST The host consists of the local Precambrian granite and Precambrian granitized schist in an area composed largely of schist. The almost completely silicified wall rock is transected by veinlets of quartz with erratic sulfides - all partially oxidized.
STRC The host is cut by Tertiary fissure veins. The main vein appears to strike N55°E with a dip to the southeast.
ALT All of the rocks are sericitized and most are silicified.
MNZ The submarginal vein material consists of quartz with pyrite and very sparse galena. The uranium minerals apparently are intermixed in iron staining and are not megascopically identifiable.
DOI 1951

Josie May

LOCATION: SW1/4 sec. 7, T. 9 S., R. 80 W.
LCRM 3,200 ft S 37°W of the intersection of latitude 39°17'50"N and longitude 106°22'30"W.
QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
MAP LEADVILLE
DVEL There is one inclined shaft, partially flooded, and numerous surface pits and cuts.
BKG .4 to 2.0 mr/hr
RNG 20.0 mr/hr
HOST Tertiary fracture fillings and disseminations occur in Precambrian granite, schist, and hybrid rock. A Tertiary white, porphyry, and a jasperoid occur nearby.
MNZ Torbernite is the main radioactive mineral present. Gangue minerals include turquoise and other secondary copper minerals, limonite, and altered wall rock minerals.
DOI 1951

Rosse Tunnel

LOCATION: SW1/4NE1/4 sec. 1, T. 9 S., R. 81 W.
LCST UNSURVEYED
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL Caved adits and a caved shaft are present on the property.
BKG .8 mr/hr
RNG 1.0 to 1.8 mr/hr
HOST The host rock is Precambrian granite and schist, cut by Tertiary fractures.
STRC Veins present appear to strike NE to SW.
ALT The veins are pyritized and silicified.
MNZ The radioactive minerals are not megascopically
TURQUOISE Chief (Poor Boy)

LOCATION: SW1/4 sec. 7, T. 9 S., R. 80 W.
LCRM The deposit also extends into sec. 6.
QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
MAP LEADVILLE
DVEL There is one caved adit, a caved incline, and a small open cut.
BKG .4 to 2.0 mr/hr
RNG 3.4 to 8' mr/hr
HOST The host rock is a Precambrian granite (Silver Plume?, St. Kevin granite?)
STRC The wall rock is cut by Tertiary fractures, which localized the ore deposition.
ALT Granite reported to be altered.
MNZ The primary ore mined was turquoise. Secondary minerals include green copper minerals and undeetermined radioactive minerals. Limonite, quartz, and altered granitic minerals make up the gangue.

DOI 1951

Unnamed 2

LOCATION: sec. 12, T. 9 S., R. 81 W.
LCRM The prospect is 2,270 ft N75°W from the southwest corner of sec. 7, T. 9 S., R. 80 W.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL There is one caved adit.
BKG .6 to .8 cps
RNG 16 to 100 cps
HOST The host rock is Precambrian granite that has been fractured.

DOI 1951

Unnamed 3

LOCATION: SW1/4 sec. 6, T. 9 S., R. 80 W.
QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
MAP LEADVILLE
DVEL There are three caved adits; one caved shaft, and one accessible shaft.
BKG .6 to .8 cps
RNG 1.6 to 3.2 cps
HOST The host rock is Precambrian granite and schist with mineralization that is Tertiary in age.

DOI 1951

Unnamed 4

LOCATION: sec. 1, T. 9 S., R. 81 W.
LCST UNSURVEYED
LCRM The prospects lie between 2,230 and 2,950 ft in distance, and between N89°W and S59°W from sec. 7, T. 9 S., R. 80 W. The occurrence also extends into sec. 12.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL There are several shallow prospect pits and caved shafts.
BKG .8 - 1.0 cps
RNG 1.4 to 4.0 cps
HOST The host rock is Precambrian granite, schist, and a jasperoid.
ALT Some of the granite is fresh, some is weathered. Two shallow pits have very slightly altered granite.
MNZ The radioactive minerals are not visible megascopically. They would appear to be disseminated, and associated with fracture coatings.
RMKS Five prospects were sampled. Their locations are: 2,575 ft N89°W; 2,260 ft S75°30'W; 2,405 ft S86°W; 2,590 ft S59°E; and 2,230 ft S6°W; all directions taken from the northwest corner of sec. 7, T. 9 S., R. 80 W.
DOI 1951

LOCATION: W1/2 sec. 13, T. 9 S., R. 81 W.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL There are three adits.
BKG .6 to 1.8 mr/hr
RNG 4 to 20 mr/hr
HOST The host rock is Precambrian granite, cut by Tertiary veins and disseminations.
STRC There are fissures and breccia zones present. The mineralized vein strikes N25°E, N80°E, and N5°W. Dips are generally 55° to 60°NW.
MNZ The radioactive minerals are not megascopically visible, but occur in pyritized, silicified granite in fissure zones.
DOI 1951

LOCATION: sec. 12, T. 9 S., R. 81 W.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL There are three caved adits and two caved shafts.
BKG .6 to 1.0 mr/hr
RNG 1.6 to 2/4 mr/hr
HOST The host rock is Precambrian granite and schist with Tertiary mineralization.
ALT The hosts are often silicified and pyritized.
MNZ The radioactive minerals are not megascopically determinable. They occur as disseminations and fracture coatings of hematite and limonite on granite and schist.
DOI 1951

LOCATION: S1/2NW1/4 sec. 6, T. 9 S., R. 80 W.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL There are three adits (only the lowest of which was accessible), four caved shafts, and numerous prospect pits. The size of the dumps indicate fairly extensive underground workings.
BKG .6 to 1.2 mr/hr
RNG 1.8 to 4.0 mr/hr
HOST The wall rocks are Precambrian silicified and sericitized granite, some of which is manganese stained while some is limonite coated. They are cut by Tertiary veins.
STRC The main Wilkesbarre vein strikes N58°W and dips 70°SE.
ALT Sericitation and silicification are present in the mine.
MNZ The radioactivity is found in two types
of dump material. The first is a pyrite-bearing very fine-grained vein quartz and gouge. The second is an intensely sericitized, fine-grained, granular rock that may be granitized schist. The radioactive minerals are probably secondary, but are too fine-grained to be megascopically identified. Limonite is often associated with the radioactive minerals. Grab and chip samples assay between 0.009 and 0.018% $\text{eU}_3\text{O}_8$ and 0.002 and 0.013% $\text{U}_3\text{O}_8$.

DOI: 1951

Production of uranium from La Plata County has been very limited. Records show that by 1971, 687 tons had been mined that yielded 1,029 lb of U₃O₈. Potential is good that more reserves of uranium may be found in the county.

La Plata County is on the southwestern edge of the San Juan Mountains, and it falls into two geological structural areas—the San Juan Uplift on the north, and the San Juan Basin on the south. The San Juan Uplift has exposed Precambrian rocks in the northwestern area, such as the Needles Mountains. Associated with the uplift are the intrusive rocks of the La Plata Mountains complex, a small uplift in the northwestern corner of the county. Sheetlike igneous bodies and sills have intruded Upper Paleozoic sediments. The San Juan Basin is a large sediment-filled basin that extends into New Mexico wherein lie 50 percent of the uranium reserves of the United States. The Grants Mineral Belt contains sandstone-type deposits in the Jurassic Morrison Formation.

The four deposits which have produced uranium include Black Hawk, Good Hope-Nevada Group, Lucky Lepracon, and Shorty Lode. Two of these producers, the Black Hawk and the Lucky Lepracon are unlocatable. The most important producer in the county is the Good Hope-Nevada Group, which accounts for 95 percent of all tonnage and produces ore from the Entrada Sandstone. The deposit is part of the Entrada roscoelite belt, which includes the Graysill Mine in San Juan County, the mines around Placerville, San Miguel County, and the Rifle Mine in Garfield County. Roscoelite occurrences in the Entrada Sandstone yield principally vanadium with uranium as a by-product.

The potential for more reserves to occur in the county is good. Uranium occurrences are reported over a 36-sq-mi area around Thunder Mountain in the Needle Mountains. This area has favorable potential for vein type occurrences, although environmental problems must be addressed. More reserves of the Entrada roscoelite-type may occur in the Entrada Sandstone in the northwestern part of the county. Lastly, the San Juan Basin in the southern part of the county has potential for sandstone-type occurrences.
La Plata County

Black Hawk

LOCATION: UNLOCATABLE
LCST As of 1971, 23 tons had been mined at a grade of 0.04% U3O8, producing 18 lbs of U3O8, and 0.02% V2O5, producing 9 lbs of V2O5.
PROD The host is Permian Cutler Formation.
HOST Possibly a duplicate of one of the located occurrences in this county.
DOI 1971

Cape of Good Hope

LOCATION: W1/2 sec. 29, T. 38 N., R. 10 W.
LCST UNSURVEYED
LCRM Also reported in sec. 30, T. 38 N., R. 11 W.
QUAD Orphan Butte 7 1/2'
RNG 10 x bg
HOST The roscoelite type mineralization in the Jurassic Entrada Sandstone or base of the Salt Wash Member of the Jurassic Morrison Formation.
DOI 1977
REF Western Nuclear Submittal file, 1977.

Shorty Lode

LOCATION: sec. 5, T. 36 N., R. 11 W.
LCRM Also reported in sec. 6.
QUAD La Plata 7 1/2'
MAP DURANGO
PROD As of 1971, 6 tons were mined at a grade of 0.13% U3O8, producing 16 lbs of U3O8 and 0.10% V2O5, producing 12 lbs of V2O5.
HOST Vein in Late Tertiary syenite stock.
MNZ Uraninite with Au, Ag, Pb, Zn.
DOI 1977

Lucky Leprecon

LOCATION: NW1/4 sec. 29, T. 36 N., R. 10 W.
LCRM Claims are also in sec. 19, 20, & 30, T. 36 N., R. 10 W. This is part of the Lightner Creek district in the U.S. A.E.C. Production Reports.
QUAD Durango West 7 1/2'
MAP DURANGO
PROD There were 650 tons of ore mined by 1971, at grades of 0.07% U3O8 and 1.66% V2O5, producing 956 lbs of U3O8 and 21,578 lbs of V2O5.
HOST Bedded deposit in Entrada Sandstone.
MNZ Uranium, vanadium of the roscoelite type, with assays of 0.60% U3O8, and 20.4% V2O5.
DOI 1971

Texarado Oil Uranium Co.

LOCATION: sec. 5, T. 36 N., R. 11 W.
LCRM Also reported in sec. 6.
QUAD La Plata 7 1/2'
MAP DURANGO
PROD As of 1971, 6 tons were mined at a grade of 0.13% U3O8, producing 16 lbs of U3O8 and 0.10% V2O5, producing 12 lbs of V2O5.
HOST Vein in Late Tertiary syenite stock.
MNZ Uraninite with Au, Ag, Pb, Zn.
DOI 1977

Thunder Mountain (Florida Mountain)

LOCATION: sec. 3, T. 38 N., R. 6-7 W.
LCRM T. 38-39 N., R. 6-7 W.
QUAD Mountain View Crest 7 1/2', Columbine Pass 7 1/2'
MAP DURANGO
BKG 100-300 cps
RNG to 50,000 cps
HOST Fractures in Precambrian granite, age - 1.35 B.Y.
STR C Faults and fractures sets.
ALT Zonal; chloritic - propylitic-argillic.
MNZ Uraninite, gummite, pyrite, fluorite, chalcedony.
RMKS It was reported that there are anomalies over an area of 10 square miles. Also that the mineralization is not Tertiary but 1.34 B.Y. old.
DOI 1977
La Plata County


Tomahawk Mine

LOCATION: sec. 28, T. 37 N., R. 11 W.
LCST UNSURVEYED
LCRM Located on the northeast slope of Basin Creek at an elevation of 10,800 ft.
QUAD La Plata 7 1/2'
MAP CORTEZ
DVEL Inactive gold mine.
HOST Vein in Tertiary diorite and breccia.
ALT Silicification and decomposition.
MNZ Pyrite, traces of other sulphides, quartz.
No uranium minerals identified. Channel samples had values ranging from 0.02 to 0.38% U3O8.
RMKS It is reported that two miles southwest of the Tomahawk vein is another vein which shows equal uranium values.
DOI 1954

Tripp Gulch Property

LOCATION: S1/2 sec. 4, T. 36 N., R. 9 W.
LCRM Original directions are as follows: "Travel north from Durango on US 550 for 8 miles. At Thompson home, near mouth of Tripp Gulch, turn west and follow unimproved road for about one mile to drilling area".
QUAD Hermosa 7 1/2'
MAP CORTEZ
HOST Gray to black very fine-grained bedded to shaley carbonaceous sandstone of the Pennsylvanian Rico Formation.
MNZ The mineralized bed is from 0.5 to 1 ft thick and extends for 150 ft. Uranium minerals are reported but are not identified.
DOI 1955
Minor production of uranium reported within the county totals about 791 tons that contained 4,144 lb of $U_3O_8$. A few tons came from rare-earth and uranium-bearing pegmatites and from small occurrences in the Dakota Sandstone. The rest, 633 tons, came from the Copper King Mine at an average grade of 0.30 percent $U_3O_8$, containing 3,771 lb of $U_3O_8$. Potential is moderate for more reserves to be found.

Larimer County lies in north-central Colorado, straddling the Rocky Mountain and Great Plains physiographic provinces. The western three-quarters of the county are dominated by the Precambrian mountains of the Front Range and the Medicine Bow Mountains. The Precambrian rocks are primarily metamorphosed sedimentary rocks, intruded by granites and other related igneous masses. In the eastern section of the county the formations range within a very short distance from Paleozoic to Late Cretaceous in age. The sedimentary formations are upturned along the edge of the Front Range, but are relatively flat-lying eastward onto the plains.

By far the most important known occurrence of uranium in Larimer County is at the Copper King mine, discovered to contain uranium ore in 1949. It was one of the initial vein-uranium discoveries in the Front Range outside the Colorado mineral belt. Two major types of mineral deposits are present at the mine: 1) a skarn containing pyrometasomatic massive sulfide-magnetite ore, and 2) uranium minerals in veins that cut the skarn. The sulfide ore is late Precambrian in age and includes pyrite, sphalerite, chalcopyrite, pyrrhotite, and some magnetite. The uranium ore is probably early Tertiary in age and includes uraninite, coffinite, and $UO_2$-rich pitchblende.

The rare-earth and uranium-bearing pegmatites are found in the Crystal Mountain district west of Loveland and Fort Collins, and in other areas of Precambrian terrane. The pegmatites are associated with late Precambrian granitic sills and dikes that intruded the older Precambrian metamorphics of the Front Range. Minor amounts of copper, beryl, mica, and gold were found in the Crystal Mountain district and have been mined sporadically since 1884. Uranium and rare-earth minerals were mined from the pegmatites during the late 1940's and early 1950's. A few small deposits of carnotite have also been found and mined to a small extent in the Dakota Sandstone along the Front Range.

Larimer County has potential for uranium reserves and resources both in Precambrian rocks and in sedimentary terrane. While uranium production from the pegmatites will probably remain small or nonexistent, other deposits in the Precambrian rocks similar to the Copper King Mine are likely to exist. Detection of these vein-type deposits is very difficult, and airborne scintillator scans followed by ground reconnaissance are required to locate them. Because the Copper King vein was not exposed at the surface (the uranium ore was discovered on the dump of the old workings), similar undiscovered veins likely will lack surface expression. Complicating matters, the entire area is mantled by glacial deposits of generally unknown thickness. The Dakota Sandstone is the most likely sedimentary formation to contain uranium resources because small occurrences are known within it and because geologically similar deposits have been mined from the Dakota in other parts of the state.
Batterson Lode

LOCATION: sec. 16, T. 9 N., R. 73 W.
QUAD Rustic 7 1/2'
MAP GREELEY
DVEL There is a 30 ft shaft. 
BKG .05 Mr/hr
RNG To .2 Mr/hr
HOST The host is a medium-grained Precambrian granite.
STRC A quartz vein striking N70°E, and about 2 in. wide contains the mineralization.
MNZ Pyrite is disseminated in the granite matrix for a distance of several ft, adjacent to the quartz vein. A parallel 2 in. vein of specular hematite is exposed in the shaft. Sooty pitchblende is the only other visible mineral, and it occurs associated with the pyrite as blebs in fracture zones.
DOI 1954

Big Boulder Prospect (Boulder Rock)

LOCATION: SE1/4 sec. 36, T. 7 N., R. 72 W.
QUAD Crystal Mountain 7 1/2'
MAP GREELEY
PROD In 1941, 500 lbs of beryllium, feldspar, rare earths, spodumene and mica were mined.

Carter Lake

LOCATION: sec. 3, T. 4 N., R. 70 W.
QUAD Carter Lake Reservoir 7 1/2'
MAP GREELEY
HOST Uranium minerals are present, with a sample value of 0.12% U3O8.
DOI 1972

Copper King Shaft (Cherokee Mines, (Imert Property, Black Hawk Claims, Black Hawk Mine E)

LOCATION: sec. 8, T. 10 N., R. 72 W.
QUAD Haystack Gulch 7 1/2'
MAP GREELEY
DVEL There is a two compartment, 60 ft shaft, 100 ft of drift, and a 14 ft winze on the 60 ft level.
PROD According to CRIB, 55 tons of zinc ore and 45 tons of uranium ore were mined during 1950-1951. The U.S. A.E.C. files show that 633 tons were mined at a grade of .30% U3O8, producing 3,771 lbs of U3O8 in 1951 through 1954. Thirteen lbs of V2O5 were recovered.
DOI 1971

Estes Bell (Hilltop)

LOCATION: sec. 16, T. 6 N., R. 71 W.
QUAD Drake 7 1/2'

U.S. A.E.C. Production Records show 6 tons of uranium ore mined at a grade of 0.10% U3O8, producing 12 lbs of U3O8 in 1951.
HOST The deposit is in a pegmatite cutting Precambrian mica schist. The pegmatite is concordant, striking N2-10°E, and dipping vertically.
MNZ Ore minerals of the pegmatite include beryl, tourmaline, apatite, garnet, spodumene, autunite, muscovite, perthite, and quartz.
DOI 1972
The deposit lies in a vein cutting the Precambrian granite schist of the Idaho Springs Formation. No records are available.

The deposit is in a pegmatite cutting Precambrian biotite granite and quartz mica schist. The pegmatite is zoned and is over 8,100 ft long.

Ore minerals include beryl, bismuthinite, and uraninite.

The mine produced in the past, but no records are available.

Uranium mineralization is present.

The operators are mining into pegmatite bodies.

Beryl crystals were mined on the property.

The deposit is in pegmatites cutting Precambrian metamorphics and intruded by Silver Plume Granite.

Beryl crystals 15 in. in diameter are associated with beryl-gummitite, columbite-tantalite, cyrtoite-monazite, quartz, feldspar, and mica. The radioactivity is caused primarily by thorium and rare earth minerals. A chip sample assays 2.5% eU, 1.82% U, and 3.66 ThO2.

The deposit also extends to sec. 14, T. 9 N., R. 73 W. and to sec. 18, T. 9 N., R. 72 W.

The operators are mining into pegmatite bodies.

The deposit is in a vein cutting the Precambrian granite schist of the Idaho Springs Formation. No records are available.

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Larimer County

RMKS Airborn anomalies with the ground anomalies being found in areas where there are viens of hematitic limonite in a red granite.


Sheep Creek Prospect

LOCATION: sec. 6, T. 11 N., R. 74 W.
LCRM Also in sec. 14, T. 11 N., R. 75 W.
QUAD Eaton Reservoir 7 1/2'
MAP GREELEY
DVEL This prospect has not produced to date.
HOST The radioactivity occurs in Precambrian (Sherman?) Granite, in pegmatitic segregations of hornblende material in a granite and quartz monzonite. Hornblende material from the most anomalous pit had the following petrographic description, microcline-hornblende granite, abundant sphene (?) and alteration (leucoxene) totaling 18% of sample.
STRC Strike of the segregations is NW-SE. There is some jointing and shearing.
ALT No secondary uranium mineral are visible.
MNZ 0.01 to 0.03 $\text{eU}^{3+}$ with up to 0.83% $\text{eU}^{3+}$ reported. Also to 20% TiO$_2$. The mineralization also includes monazite and thorite at less than 1%.
RMKS This has been reported as radioactivity in Precambrian rock along decompression sheeting in granite.
DOI 1975

Soda Springs Group (1-8)

LOCATION: N1/2 sec. 7, T. 8 N., R. 73 W.
LCST UNSURVEYED
QUAD Rustic Quad 7 1/2'
MAP GREELEY
DVEL One prospect pit.
PROD 2 tons ore ? shipped in early 1950's.
BKG 80 cps
RNG 300 to 10,000 cps
HOST The host is a 15 ft x 250 ft Precambrian pegmatite body in a layered quartz-feldspar amphibole gneiss with aplite fine-grained to pegmatite stringers. The foliation trends N15°E, dips $\pm$ 75°SE.
MNZ The mineralization is in the central part of the pegmatite in the form of a yellow secondary uranium mineral. There are no primary minerals. The radioactivity is associated with smoky quartz. The uranium mineral(s) coat grains and fracture surfaces, permeating some of the mineral grains. The hottest spots appear to be associated with biotite segregations.
RMKS The pegmatite is zoned: a 2 ft outer zone is feldspar-rich, with large inter. blades & books of biotite; the borders have a slight hematite stain. The inner zone is quartzose, graphic granite, with some barren, bull quartz.

Spring Claim (Revis Claim, Unnamed Claim, Spring 1 Claim)

LOCATION: SE1/4NE1/4 sec. 15, T. 8 N., R. 75 W.
LCST UNSURVEYED
LCRM The site is near the Sleeping Elephant campsite on U.S. Highway 287.
QUAD Boston Peak 7 1/2'
MAP GREELEY
DVEL A 13 ft deep prospect pit was sunk over the radioactive high. An area above the radioactive spring has been bulldozed, leaving a 200 x 100 ft flat area.
PROD Approximately 40 tons of ore grade material was stockpiled on the surface.
BKG .02 mr/hr
RNG .3 to 2.5 mr/hr
HOST The deposit is located at the contact of a very acidic Precambrian granite with a Precambrian biotite schist of the Idaho Springs Formation. There are small acidic pegmatites of pink feldspar phenocrysts up to one inch across, and quartz.
STRC The mineralization occurs along fracture faces in the granite associated with the small pegmatites. A large shear zone cuts the area.
ALT The granite has been sericitized and limonitized above the mineralization.
MNZ Autunite and ilmenite could be megascopically identified and a yellow-green non-fluorescent uranium mineral was associated with the autunite. Chip and channel samples collected ranged from 0.021 to 0.032% $\text{eU}^{3+}$. A limonite precipitate at the nearby spring contains 0.045% $\text{eU}^{3+}$ and an associated hematite deposit contains 0.021% $\text{eU}^{3+}$. Sooty pitchblende was discovered on fracture faces in the bottom of the prospect pit. Mineralization appears to strike $\pm$ 70° to the south.
DOI 1954

Unnamed Radioactive Spring 1

LOCATION: NE1/4 sec. 7, T. 8 N., R. 73 W.
LCST UNSURVEYED
QUAD Rustic Quad 7 1/2'
MAP GREELEY
BKG 80 cps
RNG To 800 cps
HOST The host is a spring in Precambrian quartz-feldspar amphibole gneiss.
RMKS This spring is 900 ft southeast and 500 ft lower in elevation than the Soda Springs Group Prospect. It is a slow seep of cold water surrounded by rotting vegetation.

Uranium Queen (Red Hill, Red Hill 1)

LOCATION: NW1/4SW1/4 sec. 13, T. 9 N., R. 73 W.
QUAD Rustic 7 1/2'
MAP GREELEY
DVEL There is an old shaft that was dug for gold prospecting. Several small pits were dug
by E. C. Robinson for uranium exploration in 1954.

According to the U.S. Bur. of Mines, during 1956, 100 tons of uranium ore at 0.17% U3O8 and 100 tons of 0.11% U3O8 were mined from Red Hill, with 50 tons of 0.48% U3O8 also mined from Uranium Queen. The U.S. A.E.C. Records show a total of 140 tons mined at a grade of 0.13% U3O8 and 0.01% V2O5, producing 340 lbs of U3O8 and 22 lbs of V2O5 prior to 1971.

The host is Precambrian granite, porphyritic granite, and granite pegmatite.

Vein structures are supposed to lie in the granite, but trenches have been cut along the structures and are filled with blasted rock. The radioactivity is associated with NW trending fractures. One fault which has been exposed by blasting strikes N35°E and dips S771/2°E.

Autunite, uranophane, gummite, uraninite, and pitchblende were found in both the stockpile and the dump. Values of samples taken range from 0.22 to 0.48% eU3O8. Along the fault lies a mylonitic zone which is mineralized with uranophane and autunite. Radioactivity count increases where the fault intersects the NW trending fractures.

The prospect is on the Dakota Sandstone rim, 1000 ft from the road across an irrigation ditch. The CRIB file lists this as sec. 13, T. 8 N., R. 70 W. A second CRIB reference verifies the location originally given above.

The rim has been stripped at four places, with approximately 50 tons of rock broken.

In 1955, six tons were mined at a grade of 0.07% U3O8, producing 8 lbs of U3O8, and 6 lbs of V2O5 at a grade of 0.05%.

The deposit is in the lower Cretaceous Dakota Sandstone along the prominent hogback rim formed by the sandstone. The formation strikes northerly and dips 30° to the west.

The hogback appears to be the west limb of an anticline, the center of which has been eroded away.

Mineralization of a carnotite type has been exposed at scattered points along the rim for approximately 0.2 miles. A weakly fluorescent mineral not distinguishable in ordinary light occurs in several of the pits.

An assay showed 0.16% U3O8. Autunite has also been identified.
Production from the county was as small as could be achieved, 1 ton mined which contained 1 lb of $\text{U}_3\text{O}_8$. Potential for more reserves is minor.

A large part of the eastern Las Animas County is covered by the Lower Cretaceous Dakota Sandstone. Outcrops of other sedimentary formations are also found in that area ranging from the Permo-Triassic Lykins Formation to Tertiary and Quaternary(?) lava flows. The western part of the county, which involves more complex geology, is bounded on the west by the slopes of the Culebra Range of the Sangre de Cristo Mountains. Pennsylvanian and Permian sedimentary formations abut these ranges, and progressively younger formations are found to the east. Around the Spanish Peaks in the northern area early Tertiary intrusives are found in the form of dikes, sills, and stocks.

Extensive Tertiary and Quaternary(?) lava flows cap several mesas along the southern edge of the county. The structural Raton Basin extends from New Mexico northward through the center of the county.

Several uranium occurrences are known within the county, predominantly around Trinchera Peak on the Costilla County line. One ton of ore was mined from the Virginia 14 Claim, but no other production has taken place within the county. Favorable units with potential include the Pennsylvanian and Permian continental sediments in the western part of the county, the Dakota Sandstone, the Morrison Formation, and the Purgatoire Formation. The majority of known prospects seem to lie in the Dakota Sandstone at its contact with the Purgatoire Formation. However, the potential of the county is very limited.
Figure 16. Radioactive mineral occurrences in part of Las Animas County, Colorado.
Las Animas County

16. Airborne Anomaly (B-4-1-1954)

LOCATION: sec. 20, T. 32 S., R. 61 W.
QUAD Mooney Hills 7 1/2'
MAP TRINIDAD
BKG 0.03 mr/hr
RNG 1.5 m/hr max. count
HOST The Cretaceous Dakota Sandstone at its contact with the underlying Purgatoire Formation appears to be the host.
MNZ Chip samples range from 10 to 100 times background. Iron and manganese oxides are present. Uranium minerals are not visible, but radioactivity is associated with groundwater seeps near the iron and manganese staining.
DOI 1954

Booster Claim 1

LOCATION: sec. 17, T. 31 S., R. 58 W.
LCRM Also located on the east side of the pit about 2.0 ft deep pocket about 2 1/2 ft wide and 1 ft thick is located on the east side of the pit about.
DVEL A small (5 ft x 4 ft x 6 ft) pit has been dug on the edge of a 55 ft x 2 ft x 5 ft trench. The trench strikes N83°W.
BKG 0.05 mr/hr
RNG To 0.42 mr/hr
HOST Cretaceous Pierre Shale(?) The host is a gray to buff, calcareous and argillaceous shale which is gypsumiferous in places.
MNZ Gypsum, limonite and possibly manganese are present in a seam and give the highest radioactivity count.
DOI 1954

Cliff Martin Claims

LOCATION: sec. 30, T. 31 S., R. 58 W.
LCRM Also see sec 31. From P.O. in Model go south on U.S. 350 for 0.4 mi. and take a left turn for 2.0 mi. Take a right turn for 0.9 mi. and a left turn for 3.0 mi. Now take a right turn for 0.9 mi. and a left turn for 7.0 mi. Here take a left fork for 4.6 mi. and a right fork onto a dirt track road. Go for 0.3 mi. and take a right fork. Now go 0.1 mi., park vehicle and descend into northwest slope of Luning Canyon to claim.
MAP LA JUNTA
BKG .02 mr/hr
RNG To 2.0 mr/hr
HOST Sandstone of the Cretaceous Purgatoire Formation which is exposed in the pit is fine-grained, massive, and gray in color. The grains are fairly well cemented. A radioactive pocket about 2 1/2 ft wide and 1 ft thick is located on the east side of the pit about.

Fan Dyke No. 1 (Fan Dyke 1-15, 17-22; Phebolite 1-B)

LOCATION: sec. 18, T. 32 S., R. 69 W.
LCRM Also see sec. 13, 19, 24, T. 32 S., R. 70 W. Party in Las Animas County.
DVEL Small reserves developed by drilling but no production.
HOST Permian Sangre de Cristo Formation.
MNZ Carnotite.
DOI 1971

Mike's Mine

LOCATION: sec. 32, T. 27 S., R. 51 W.
LCST UNCERTAIN
LCRM The location given by sec., T., R., above puts this mine in Bent County. If the the directions given by the PRR are correct the mine is in Las Animas County, but on the border between sec. 5, 6, T. 28 S., R. 51 W.
QUAD Ninaview 7 1/2'
MAP LA JUNTA
DVEL A 13 ft prospect pit was sunk in the Purgatoire sandstone.
BKG .02 mr/hr
RNG To 2.0 mr/hr
HOST Sandstone of the Cretaceous Purgatoire Formation which is exposed in the pit is fine-grained, massive, and gray in color. The grains are fairly well cemented. A radioactive pocket about 2 1/2 ft wide and 1 ft thick is located on the east side of the pit about.
LAS ANIMAS COUNTY

7 ft below the surface.
MNZ Limonitic and hematitic stains are present in addition to small tabular flakes of a green mineral resembling autunite. Some azurite is also present.
RMKS The owner sent in cedar ash for analysis that was radioactive. Some cedar trees adjacent to the claim were also examined by the U.S. A.E.C. geologists, but they were not anomalously radioactive.
DOI 1954

Morning Star 1
LOCATION: T. 32 S., R. 69 W.
LCST UNCERTAIN
QUAD Trinchera Peak 7 1/2' & Cuchera Pass 7 1/2'
MAP TRINIDAD
HOST Permian-Sangre de Cristo Formation.
DOI 1971

Unnamed 1
LOCATION: sec. 34, T. 28 S., R. 51 W.
MAP LA JUNTA
RNG 2 x bg on outcrop.
HOST Cretaceous Dakota Sandstone is the host. The radioactive water flows from a spring at the base of the massive sandstone where it contacts a 6 in. black shale unit and 10+ ft of massive carbonaceous sandstone.
MNZ The sandstone contained 0.003 to 0.005% uranium. The water sample had 50 ppb uranium in it.
DOI 1955

Virginia 14
LOCATION: T. 32 S., R. 69 W.
LCST UNCERTAIN
LCRM On Trinchera Peak.
QUAD Trinchera Pass 7 1/2'
MAP TRINIDAD
PROD In 1960, 1 ton was mined at a grade of 0.05% U3O8, producing 1 lb of U3O8.
HOST Permian Sangre de Cristo Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971
Lincoln County lies in the central Great Plains of Colorado. Stream courses and watersheds have, in places, eroded through the extensive Ogallala Formation to expose the Upper Cretaceous Pierre Shale. The only major structure within the county is the Las Animas Arch, lying in the southeastern part.

Although no uranium occurrences are known within the county, some structures and formations warrant inspection as to potential. Water sampling by the U.S. Geological Survey has shown higher than average uranium values in waters originating from the Ogallala Formation and from the Sharon Springs Member of the Pierre Shale. In addition, higher than average uranium values have been found in waters draining the north side of the Las Animas Arch.
LOGAN COUNTY

No uranium production has been recorded in Logan County. One reported occurrence in the county appears to be in the Cretaceous Pierre Shale.

The county is underlain by a variety of flat-lying Quaternary, Tertiary and Cretaceous sediments of the Great Plains. Some slight potential for uranium resources within the county may be found in the outcropping Tertiary Ogallala and White River Formations and in the subsurface Cretaceous Laramie Formation and Fox Hills Sandstone. These are all favorable for sandstone types of occurrences. Uranium deposits are being developed in the Laramie Formation in Weld County just west of Logan County, and these deposits could extend into Logan County.
EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
  LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE

- OCCURRENCE NUMBER FROM TEXT

Figure 17. Radioactive mineral occurrences in Logan County, Colorado.
LOCATION: sec. 15, T. 9 N., R. 53 W.

The occurrence is at 40°44'N Latitude, and 103°17'W Longitude.

The deposit is in terrestrial clastic rocks.

Uranium mineralization was noted.

MESA COUNTY

Mesa County falls within the Uravan mineral belt, which has produced uranium since 1881. Vanadium has been an important coproduct of the uranium of this area. Production from the county from January 1, 1948 to January 1, 1978 has been 2,271,000 tons of ore mined producing 13,180,000 lb of U\textsubscript{3}O\textsubscript{8} at a grade of 0.29 percent. From these tons mined 2,266,000 tons were processed for vanadium producing 41,811,000 lb of V\textsubscript{2}O\textsubscript{5} at a grade of 0.92 percent.

Mesa County is in the sedimentary terrane of the western slope of Colorado. Most of the county is covered by Cretaceous, Jurassic, and Triassic rocks. A large part of the northeastern area of the county is covered by Tertiary sediments and volcanics. The Salt Wash Member of the Morrison Formation is the most important host rock for the uranium deposits within the county. Deposits occur within it as pods and "rolls" in channels within the sandstone.

Many active and inactive mines are located on mesas flanking the Dolores River. All of the production from the Uravan mineral belt comes from the southwestern part of the county, near the community of Gateway and farther south. Reserves in the county are large, and the potential for more to be found is excellent. It will be a major producer for years to come. Abundant literature has been written on this area, and those seeking more information are referred to the Mesa County cross-index in Volume 2.
EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- OCCURRENCE NUMBER FROM TEXT

Figure 18. Radioactive mineral occurrences in part of Mesa County, Colorado.
31. AEC Mining Lease (Reserve Block 4, Blue Creek Mesa) (Big Seven)

LOCATION: NE1/4 sec. 32, T. 50 N., R. 17 W.
LCRM This deposit lies on the northeast end of Blue Creek Mesa, and extends to the SE1/4 sec. 29.
PROD As of 1953, 679 tons had been mined at an average grade of 0.60% U3O8 and 3.02% V2O5. Additional production has occurred since 1953 from the Big Seven Group.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
RMKS U.S. A.E.C. withdrew land was restored and restaked as Big Seven.
DOI 1971

34, AEC Mining Lease (C-G-26A, DOE Lease Tract)

LOCATION: NE1/4 sec. 9, T. 50 N., R. 18 W.
LCRM This deposit adjoins the Small Spot Claim on the west, and is located in the Calamity Mesa area in the Gateway district.
PROD See C-G-26A, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Arrowhead 4

LOCATION: sec. 3, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
MAP MOAB
PROD As of 1971, 68 tons had been mined at a grade of 0.15% U3O8, producing 198 lbs of U3O8, and 0.84% V2O5, producing 1,147 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Arrowhead 5

LOCATION: sec. 3, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
MAP MOAB
PROD As of 1971, 1,682 tons had been mined at a grade of 0.35% U3O8, producing 11,914 lbs of U3O8, and 1.48% V2O5 producing 49,820 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Arrowhead 8

LOCATION: sec. 2, T. 50 N., R. 18 W.
QUAD Pine Mountain 7 1/2'
MAP MOAB
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1975

Arrowhead 10

LOCATION: sec. 10, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Arrowhead 11

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM The deposit also extends to sec. 10.
QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
MAP MOAB
As of 1971, 1,846 tons had been mined at a grade of 0.34% U3O8, producing 12,573 lbs of U3O8, and 1.34% V2O5, producing 49,404 lbs of V2O5.

LOCATION: sec. 2, T. 50 N., R. 18 W.
PROD As of 1971, 146 tons had been mined at a grade of 0.34% U3O8, producing 3,058 lbs of U3O8, and 1.32% V2O5, producing 11,785 lbs of V2O5.

LOCATION: sec. 2, T. 50 N., R. 18 W.
PROD As of 1971, 2,512 tons had been mined at a grade of 0.43% U3O8, producing 21,379 lbs of U3O8, and 1.68% V2O5, producing 84,571 lbs of V2O5.

LOCATION: sec. 3, T. 50 N., R. 18 W.
PROD As of 1971, 2,186 tons had been mined at a grade of 0.30% U3O8, producing 13,158 lbs of U3O8, and 1.25% V2O5, producing 52,022 lbs of V2O5.

LOCATION: sec. 3, T. 50 N., R. 18 W.
PROD As of 1971, 314 tons had been mined at a grade of 0.20% U3O8, producing 1,284 lbs of U3O8, and 1.13% V2O5, producing 3,106 lbs of V2O5.
Mesa County

1970

MAP

REF
DOI
1971


Arrowhead 26

LOCATION: N1/2 sec. 10, T. 50 N., R. 18 W.
DOI 1958

Arrowhead 27

LOCATION: sec. 10, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 546 tons had been mined at a grade of 0.37% U3O8, producing 4,005 lbs of U3O8, and 1.38% V2O5, producing 15,083 lbs of V2O5.
HOST Jurassic Morrison-Formation, Salt Wash Member.
DOI 1971

Arrowhead 28

LOCATION: sec. 10, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1,989 tons had been mined at a grade of 0.30% U3O8, producing 12,097 lbs of U3O8, and 1.25% V2O5, producing 49,783 lbs of V2O5.
HOST Jurassic Morrison-Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Arrowhead 29 (OS)

LOCATION: sec. 10, T. 50 N., R. 18 W.
LCRM OS is the notation on the ore reserve card to indicate "Outside Sales" - for ore sold in excess of the shipper's allocation in the 1961 - 1970 period.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 619 tons had been mined at a grade of 0.49% U3O8, producing 6,115 lbs of U3O8, and 1.96% V2O5, producing 24,226 lbs of V2O5.
HOST Jurassic Morrison-Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
RMKS Part of sec. 33 in Calamity Mesa 7 1/2'
DOI 1971

Arrowhead 30

LOCATION: El/2 sec. 3, T. 50 N., R. 18 W.
DOI 1958

Arrowhead 33

LOCATION: sec. 3, T. 50 N., R. 18 W.
DOI 1958

Arrowhead 34

LOCATION: sec. 3, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 3,758 tons had been mined at a grade of 0.49% U3O8, producing 36,523 lbs of U3O8, and 1.87% V2O5, producing 140,406 lbs of V2O5.
HOST Jurassic Morrison-Formation, Salt Wash Member.
MNZ Carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Arrowhead Incline 2

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM UNCERTAIN
LCRM This deposit could also be in sec. 10. U.S. A.E.C. Production Records show sec. 10.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 13,124 tons had been mined at a grade of 0.33% U3O8, producing 86,006 lbs of U3O8, and 1.58% V2O5, producing 400,906 lbs of V2O5.
HOST Jurassic Morrison-Formation, Salt Wash Member.
DOI 1971

Arrowhead Incline 12 & 23 (Arrowhead Incline No. 23)

LOCATION: sec. 3, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 7,867 tons had been mined at a grade of 0.36% U3O8, producing 57,065 lbs of U3O8, and 1.64% V2O5, producing 257,706 lbs of V2O5.
HOST Jurassic Morrison-Formation, Salt Wash Member.
MNZ Carnitite - tyuyamunite, high vanadium, low lime.

225
Mesa County

DOE 1971

Arrowhead Incline 24

LOCATION: sec. 3, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2
PROD As of 1971, 1,560 tons had been mined at a grade of 0.35% U3O8, producing 11,009 lbs of U3O8 and 1.62% V2O5, producing 50,413 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

AT (05-1)-326, AEC Mining Lease (C-G-27, DOE Lease Tract, and C-G-27A, Outlaw Mesa G-1 and G-2)

LOCATION: SE1/4 sec. 12, T. 50 N., R. 18 W.
LCRM The deposit lies on Outlaw Mesa in the Gateway district. It extends to the NE1/4 sec. 13, T. 50 N., R. 18 W., and to the SW1/4 sec. 7; SW1/4 sec. 17, and sec. 18 of T. 50 N., R. 17 W.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium and vanadium minerals were mined.
DOI 1974

AT (05-1)-36, AEC Mining Lease (C-G-26A and C-G-27, DOE Lease Tracts, Matchless Mine, Queen of the Hills, Neglected, Calamity Claims, Maverick Group)

LOCATION: NE1/4SE1/4 sec. 4, T. 50 N., R. 18 W.
LCRM The lease block lies on the Outlaw side of Calamity Mesa in the Gateway district. It extends to the W1/2 sec. 11 and the NE1/4 sec. 12.
QUAD Gateway 7 1/2
PROD See C-G-26, C-G-26A and C-G-27, DOE Lease Tracts.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
RMKS Southeast corner of sec. 4 is in Calamity Mesa 7 1/2.
DOI 1971

Austin Mine (Austin and Austin Adit)

LOCATION: SW1/4 sec. 30, T. 51 N., R. 19 W.
LCRM The deposit also extends to sec. 31, T. 51 N., R. 19 W., Beaver Mesa locality.
QUAD Mount Waas 4 SE 1/2
MAP MOAB
PROD As of 1971, 728 tons of ore had been mined at grades of 0.33% U3O8 and 0.78% V2O5, producing 4,764 lbs U3O8 and 11,366 lbs V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Banco 1-7

LOCATION: sec. 17, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2
MAP MOAB
PROD As of 1971, 15 tons had been mined at a grade of 0.31% U3O8, producing 94 lbs of U3O8 and 1.11% V2O5, producing 334 lbs V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, interbedded lime.
DOI 1971

Bar-W-Bar Claims 1-16

LOCATION: SW1/4 sec. 9, T. 1 N., R. 3 W.
LCST UNCERTAIN
LCRM Original directions are "3 1/2 miles S. from Loma, on mesa capped by JMSW".
QUAD Mack 7 1/2
HOST Jurassic Morrison Formation, Salt Wash Member, sandstone and mudstone with carbon flakes and carbonaceous debris.
MNZ Abundate limonite, and hematite. A sample value of 0.06$ U3O8 reported by owner.
DOI 1954

As of 1971, 2,991 tons had been mined at a grade of 0.27% U3O8 and 0.87% V2O5, producing 16,168 lbs U3O8 and 51,879 lbs V2O5.
HOST Jurassic Morrison Formation, light gray to tan, fine-grained Salt Wash Member with abundant fossil logs and carbon trash.
MNZ Carnotite, tyuyamunite.
RMKS Most occurs in replacement of logs and carbon trash.
DOI 1955
Belmont 1 & 2

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM The deposit also extends to sec. 4.
QUAD Pine Mountain 7 1/2'
MAP MOAB
PROD As of 1971, 10,839 tons had been mined at a grade of 0.36% U3O8, producing 77,059 lbs of U3O8, and 1.58% V2O5, producing 341,434 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Beissie Group (Jerry Kay)

LOCATION: sec. 36, T. 50 N., R. 18 W.
LCRM The deposit also lies in sec. 30, T. 51 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1 ton had been mined at a grade of 0.10% U3O8, producing 2 lbs of U3O8, and 0.30% V2O5, producing 6 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Big Indian Lease

LOCATION: sec. 19, T. 50 N., R. 18 W.
LCRM Flat Top Mesa.
QUAD Juanita Arch 7 1/2'
MAP MOAB
PROD As of 1971, 16 tons had been mined at a grade of 0.34% U3O8, producing 113 lbs of U3O8, and 0.74% V2O5, producing 236 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Big Maverick (Juanita Group)

LOCATION: sec. 20, T. 50 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show sec. 18 and 19, Flat Top Mesa.
QUAD Juanita Arch 7 1/2'
MAP MOAB
PROD As of 1971, 42 tons had been mined at a grade of 0.54% U3O8, producing 450 lbs of U3O8, and 2.56% V2O5, producing 2,150 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Big Seven (AEC Mining Lease 31, Reserve Block No. 4)

LOCATION: N1/2 sec. 32, T. 50 N., R. 17 W.
LCRM This deposit also extends to S1/2 sec. 29.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1,337 tons had been mined at a grade of 0.57% U3O8, producing 15,279 lbs of U3O8, and 2.78% V2O5, producing 74,358 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
RMKS The Big Seven Claims were located on ground restored from U.S. A.E.C. withdrawal. It is the same deposit as U.S. A.E.C. Mining Lease 31.
DOI 1971

Black Mama (Nigger Baby)

LOCATION: NW1/4 sec. 29, T. 51 N., R. 18 W.
LCRM The deposit also extends to sec. 19, 20, and 30.
QUAD Gateway 7 1/2'
MAP MOAB
PROD As of 1971, 18,557 tons had been mined at a grade of 0.28% U3O8, producing 103,607 lbs of U3O8, and 1.09% V2O5, producing 404,505 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Black Mesa

LOCATION: LCST UNLOCATABLE
LCRM This deposit lies in the Gateway district.
PROD As of 1971, 362 tons had been mined at a grade of 0.51% U3O8, producing 3,670 lbs of U3O8, and 1.58% V2O5, producing 11,436 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
DOI 1971

Black Rock 2 (Black Rock No. 1 - 20)

LOCATION: sec. 27, T. 50 N., R. 19 W.
LCRM The deposit extends to sec. 33 and 34.
QUAD Juanita Arch 7 1/2'
MAP MOAB
PROD As of 1971, 18 tons had been mined at a grade of 0.14% U3O8, producing 52 lbs of U3O8, and 2.39% V2O5, producing 862 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
MESA COUNTY

Black Streak (Black Streak – Yellow Bird, Black Jumbo)

LOCATION: sec. 31, T. 50 N., R. 17 W.
LCRM The deposit extends to sec. 29, 32, and 34.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 5,076 tons had been mined at a grade of 0.27% U3O8, producing 27,826 lbs of U3O8, and 1.44% V2O5, producing 145,876 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Blackbird

LOCATION: W1/2 sec. 3, T. 49 N., R. 17 W.
DOI 1958

Blue Canyon

LOCATION: sec. 20, T. 50 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1975

Blue Creek

LOCATION: sec. 19, T. 50 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 6 tons had been mined at a grade of 0.47% U3O8, producing 57 lbs of U3O8, and 1.73% V2O5, producing 208 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Blue Mesa View

LOCATION: sec. 30, T. 50 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 9 tons had been mined at a grade of 0.15% U3O8, producing 27 lbs of U3O8, and 1.51% V2O5, producing 271 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1975

Blue Ribbon 1 Incline

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 10.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 779 tons had been mined at a grade of 0.40% U3O8, producing 6,277 lbs of U3O8, and 1.33% V2O5, producing 20,665 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitite – tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Blue Ribbon 3

LOCATION: sec. 10, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 3.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 2,187 tons had been mined at a grade of 0.30% U3O8, producing 13,113 lbs of U3O8, and 1.16% V2O5, producing 50,698 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitite – tyuyamunite, high vanadium, low lime.
DOI 1971

Blue Ribbon #7

LOCATION: sec. 9, T. 50 N., R. 18 W.
DOI 1958

Blue Ribbon 17

LOCATION: sec. 17, T. 50 N., R. 18 W.
QUAD Juanita Arch 7 1/2'
MAP MOAB
PROD As of 1971, 16 tons had been mined at a grade of 0.54% U3O8, producing 172 lbs of U3O8, and 2.64% V2O5, producing 844 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Blue Ribbon 32

LOCATION: sec. 16, T. 50 N., R. 18 W.
LCRM Part of sec. 16 is in Calamity Mesa 7 1/2'.
QUAD Juanita Arch 7 1/2'
MAP MOAB
PROD As of 1971, 68 tons had been mined at a grade of 0.13% U3O8, producing 170 lbs of U3O8, and 0.65% V2O5, producing 882 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MESA COUNTY

MNZ Uraninite, vanadium.
DOI 1971

Blue Ribbon Group (Blue Ribbon No. 2)

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 10. Part of sec. 3 is in Calamity Mesa 1/2 mile.
QUAD Pine Mountain 1/2 mile
MAP MOAB
PROD As of 1971, 9,466 tons had been mined at a grade of 0.28% U3O8, producing 52,295 lbs of U3O8, and 1.18% V2O5, producing 223,257 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite, vanadium, carnotite – tyuyamunite, high vanadium, low lime.
DOI 1971

Bluebird (Blue Bird)

LOCATION: sec. 19, T. 50 N., R. 17 W.
QUAD Calamity Mesa 1/2 mile
MAP MOAB
PROD As of 1971, 863 tons had been mined at a grade of 0.29% U3O8, producing 5,047 lbs of U3O8, and 1.48% V2O5, producing 25,520 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uraninite, vanadium.
DOI 1971

Bluebird Dump (Blue Bird Dump)

LOCATION: sec. 19, T. 50 N., R. 17 W.
QUAD Calamity Mesa 1/2 mile
MAP MOAB
PROD As of 1971, 251 tons had been mined at a grade of 0.11% U3O8, producing 563 lbs of U3O8, and 0.62% V2O5, producing 3,126 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uraninite, vanadium, carnotite – tyuyamunite, high vanadium, low lime.
DOI 1971

Bonanza 2 (Bonanza No. 2 and 4, E 1/2)

LOCATION: sec. 26, T. 51 N., R. 20 W.
LCRM The deposit extends to sec. 35.
QUAD Mount Waas 4 NE 1/2 mile
MAP MOAB
PROD As of 1971, 159,183 tons had been mined at a grade of 0.31% U3O8, producing 981,486 lbs of U3O8, and 0.46% V2O5, producing 1,469,879 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

Bonanza 3

LOCATION: sec. 25, T. 51 N., R. 20 W.
LCRM The deposit also extends to sec. 26 and 35.
QUAD Mount Waas 4 NE 1/2 mile
MAP MOAB
PROD As of 1971, 41,310 tons had been mined at a grade of 0.29% U3O8, producing 238,404 lbs of U3O8, and 0.06% V2O5, producing 48,588 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Bonanza 5 (Bonanza # 4, 5, 7)

LOCATION: sec. 26, T. 51 N., R. 20 W.
LCRM The deposit extends to sec. 35.
QUAD Mount Waas 4 NE 1/2 mile
MAP MOAB
PROD As of 1971, 17,236 tons had been mined at a grade of 0.31% U3O8, producing 106,434 lbs of U3O8, and 1.41% V2O5, producing 487,192 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

Bonanza 6

LOCATION: sec. 26, T. 51 N., R. 20 W.
LCRM The deposit extends to sec. 35.
QUAD Mount Waas 4 NE 1/2 mile
MAP MOAB
PROD As of 1971, 5,038 tons had been mined at a grade of 0.25% U3O8, producing 25,664 lbs of U3O8, and 1.19% V2O5, producing 120,322 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

Bonanza Shaft

LOCATION: sec. 29, T. 51 N., R. 20 W.
MNZ Uraninite, vanadium.
DOI 1975

Bonnie

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Gateway district.
PROD As of 1971, 1 ton had been mined at a grade of 2.05% U3O8, producing 41 lbs of U3O8, and 2.8% V2O5, producing 56 lbs of V2O5.
HOST Jurassic Morrison Formation.

229
MESA COUNTY

Buckhorn Claims

LOCATION: LCST UNCERTAIN
LCRM Original directions are as follows: "Eighteen miles southeast from Grand Junction on US 50, thence 3.3 miles on dirt road southeast to Gunnison Canyon, Morrison Formation 40 ft below Burro Canyon contact".
QUAD Triangle Mesa 7 1/2', Dominguez 7 1/2'
HOST Jurassic Morrison Formation, gray siltstone, conglomeratic in part consisting of small sub-angular quartz and jasperoid pebbles with brownish dolomitic nodules.
MNZ Disseminated uraninite in dolomitic nodules which contain abundant carbonized plant debris. A grab sample had a value of 0.37% U308.
RMKS An outcrop 1,000 ft east containing petrified bone had a sample value of about 0.11% U308.
DOI 1954

Bud (Outside Sales)

LOCATION: sec. 36, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 17 tons had been mined at a grade of 0.11% U308, producing 36 lbs of U308, and 0.96% V205, producing 327 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Buena Vista

LOCATION: T. 51 N., R. 17 W.
LCST UNCERTAIN
QUAD Pine Mountain 7 1/2' or Casto Reservoir 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Buick (Bu.Jan Mines)

LOCATION: sec. 31, T. 51 N., R. 18 W.
LCRM This deposit is also located in sec. 30.
QUAD Gateway 7 1/2'
MAP MOAB
PROD As of 1971, 2,853 tons had been mined at a grade of 0.18% U308, producing 10,305 lbs of U308, and 0.63% V205, producing 36,092 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitite - tyuyumunite, low vanadium, low lime.
DOI 1971

Burcar Mines

LOCATION: LCRO: This deposit lies in the Gateway district.
LCRM Reserves, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971

Calamity 1 (AT(05-1)-36), AEC Mining Lease)(C-G-26, DOE Lease Tract)

LOCATION: sec. 14, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Calamity 2 (AT(05-1-U-36), AEC Mining Lease) (C-G-26, DOE Lease Tract)

LOCATION: sec. 11, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Buick (Mesa Mines)

LOCATION: sec. 31, T. 51 N., R. 18 W.
LCRM This deposit is also located in sec. 30.
QUAD Gateway 7 1/2'
MAP MOAB
PROD As of 1971, 2,853 tons had been mined at a grade of 0.18% U308, producing 10,305 lbs of U308, and 0.63% V205, producing 36,092 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitite - tyuyumunite, low vanadium, low lime.
DOI 1971


Calamity 6

LOCATION: sec. 11, T. 50 N., R. 18 W.
DOI 1958

Calamity 7

LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
DOI 1958

Calamity 9

LOCATION: S1/2SE1/4 sec. 2, T. 50 N., R. 18 W.
DOI 1958

Calamity 13

LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
DOI 1958
Calamity 14 (AT(05-1)-36, AEC Mining Lease) (C-G-27, DOE Lease Tract)
LOCATION: N1/2 sec. 12, T. 50 N., R. 18 W.
QUAD Outlaw Mesa 7 1/2
MNZ Uranium, vanadium.
DOI 1975

Calamity 15 (AT(05-1)-36), AEC Mining Lease) (C-G-27, DOE Lease Tract)
LOCATION: N1/2 sec. 12, T. 50 N., R. 18 W.
QUAD Outlaw Mesa 7 1/2
MNZ Uranium, vanadium.
DOI 1975

Calamity 16
LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
DOI 1958

Calamity 17
LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
DOI 1958

Calamity 18
LOCATION: sec. 11, T. 50 N., R. 18 W.
DOI 1958

Calamity 21
LOCATION: SW1/4 sec. 11, T. 50 N., R. 18 W.
DOI 1958

Calamity 27
LOCATION: W1/2 sec. 11, T. 50 N., R. 18 W.
DOI 1958

Calamity Homestead
LOCATION: SE1/4SE1/4 sec. 35, T. 50 N., R. 18 W.
PROD As of 1971, 52 tons had been mined at a grade of 0.10% U308, producing 106 lbs of U308, and 1.20% V2O5, producing 1,248 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.

MINE Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Calamity Mesa Dump (Queen of the Hills Dump) (AT(05-1)-36), AEC Mining Lease) (C-G-26A, DOE Lease Tract)
LOCATION: sec. 4, T. 50 N., R. 18 W.
PROD As of 1971, 339 tons had been mined at a grade of 0.14% U308, producing 922 lbs of U308, and 0.76% V205, producing 5,156 lbs of V205. This production is included in that for DOE Lease Tract C-G-26A.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Calico (Cedar Cliff Group)
LOCATION: sec. 23, T. 50 N., R. 18 W.
LCRM This deposit also listed as being in sec. 35.
QUAD Calamity Mesa 7 1/2
MAP MOAB
PROD As of 1971, 339 tons had been mined at a grade of 0.14% U308, producing 922 lbs of U308, and 0.76% V205, producing 5,156 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Captain Jack
LOCATION: N1/2 sec. 32, T. 51 N., R. 19 W.
DOI 1958

Captain Jinks (Lumsden Group)
LOCATION: sec. 29, T. 51 N., R. 18 W.
LCRM Also sec. 32. This deposit lies in the Beaver Mesa Gateway district.
QUAD Gateway 7 1/2
MAP MOAB
PROD As of 1961, 63 tons of ore had been mined at a grade of 0.34% U308.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Cave
LOCATION: sec. 4, T. 50 N., R. 19 W.
LCRM Part of sec. 4 is on Juanita Arch 7 1/2.
QUAD Gateway 7 1/2
Cave Canyon Lode (Linda, Linda-Cave Canyon)

LOCATION: sec. 9, T. 50 N., R. 19 W.
QUAD Juanita Arch 7 1/2'

MAP MOAB
PROD As of 1971, 195 tons had been mined at a grade of 0.43% U3O8, producing 1,686 lbs of U3O8, and 2.15% V2O5, producing 8,400 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1975

Cedar Pt 3 (Little Chief)

LOCATION: sec. 23, T. 51 N., R. 19 W.
LCRM The deposit is listed by U.S. A.E.C. Production Records as being in sec. 14 and 23, T. 50 N., R. 20 W.

QUAD Gateway 7 1/2'

MAP MOAB
PROD As of 1971, 3,561 tons had been mined at a grade of 0.32% U3O8, producing 22,802 lbs of U3O8, and 1.38% V2O5, producing 98,190 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Cherie 1 & 2

LOCATION: sec. 12, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'

MAP MOAB
HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971


Cherokee Shaft (JWL Fraction No. 1)

LOCATION: E1/2SW1/4 sec. 36, T. 51 N., R. 20 W.
LCST UNLOCATABLE
QUAD Mt. Waas 4 NE 7 1/2'

MAP MOAB
DVEL See JWL Fraction.

DOI 1975


Chico & Chico Fraction

LOCATION: sec. 36, T. 51 N., R. 19 W.
LCRM The deposit extends across T. 50-51 N., R. 19, 18 W.

QUAD Gateway 7 1/2'

MAP MOAB
PROD As of 1971, 181 tons had been mined at a grade of 0.47% U3O8, producing 1,696 lbs of U3O8, and 1.60% V2O5, producing 5,791 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Cliff Dweller (Cliff Dweller 1 & 2; Cliff House 1 & 2; Norva Louise 1 & 2)

LOCATION: sec. 22, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 23.
QUAD Calamity Mesa 7 1/2'

MAP MOAB
PROD As of 1971, 1,209 tons had been mined at a grade of 0.32% U3O8, producing 7,808 lbs of U3O8, and 1.52% V2O5, producing 36,685 lbs of V2O5.
HOST Jurassic Morrison Formation.
DOI 1971

C-G-26, DOE Lease Tract (Contract No. AT(05-1) - 36 and 19, AEC Mining Lease)

LOCATION: sec. 11, T. 50 N., R. 18 W.
LCRM The deposit lies within the Gateway district on Calamity Mesa. The lease includes E1/2 sec. 2; NE1/4 sec. 3; SE1/4 sec. 9; S1/2 sec. 10; and NW1/4 sec. 14.
QUAD Calamity Mesa 7 1/2'

MAP MOAB
PROD From 1949 through 1960, production from former AT(05-1)-36, AEC Mining Lease was 44,220 tons averaging 0.42% U3O8 and 1.80% V2O5. During 1955, production from former 19, AEC Mining Lease was 97 tons averaging 0.26% U3O8 and 1.26% V2O5. From 1975 through 1977, production from C-G-27, DOE Lease Tract was 1,231 tons averaging 0.17% and 0.76% V2O5.
HOST The host is the Jurassic Morrison Formation.

DOI 1971


C-G-26A, DOE Lease Tract (34, AEC Mining Lease) (AT(05-1) - 36, AEC Mining Lease) Matchless, Queen of the Hills, Calamity Claims (Maverick Group)

LOCATION: sec. 4, T. 50 N., R. 18 W.
LCRM The southeast corner of sec. 4 is in Calamity Mesa 7 1/2'. The lease extends to NE1/4 sec. 9; and the NW1/4 sec. 3. It lies on Calamity Mesa in the Gateway district.
QUAD Gateway 7 1/2' or Juanita Arch 7 1/2'
C-G-27, DOE Lease Tract (AT(05-1) - 36, AEC Mining Lease) (Neglected, [Calamity Mesa], Calamity 14 & 15) (G-1) (G-3) (G-4) (AT(05-1) - 526, AEC Mining Lease) (Outlaw Mesa)

LOCATION: sec. 12, T. 50 N., R. 18 W.

The lease extends to NE1/4 sec. 13, T. 50 N., R. 18 W.; and SW1/4 sec. 7, NW1/4 sec. 18; T. 50 N., R. 17 W. The deposits lie on Outlaw Mesa in the Gateway district.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

C-G-27A, DOE Lease Tract (AT(05-1) - 526, AEC Mining Lease) Outlaw Mesa (G-2)

LOCATION: SW1/4 sec. 17, T. 50 N., R. 17 W.

The deposit extends to SW1/4 sec. 7; and sec. 18. The lease lies on Outlaw Mesa in the Gateway district.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Cottonwood 3 & 5 (Little Girl, Pretty Boy)

LOCATION: sec. 14, T. 50 N., R. 18 W.

The deposit extends to sec. 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax

LOCATION: NE1/4NE1/4 sec. 36, T. 50 N., R. 18 W.

The deposit extends to sec. 14, 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax Residue

LOCATION: sec. 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Coal Town Citation

LOCATION: sec. 14, T. 50 N., R. 18 W.

The deposit extends to sec. 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Cave No. 1 Adit

LOCATION: SE1/4 sec. 4, T. 50 N., R. 19 W.

The deposit lies in the Gateway district, South Beaver Mesa, Cave Canyon.

QUAD Juanita Arch 7 1/2'

MAP MOAB

Climax

LOCATION: NE1/4NE1/4 sec. 36, T. 50 N., R. 18 W.

The deposit extends to sec. 14, 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax Residue

LOCATION: sec. 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax

LOCATION: NE1/4NE1/4 sec. 36, T. 50 N., R. 18 W.

The deposit extends to sec. 14, 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax Residue

LOCATION: sec. 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax

LOCATION: NE1/4NE1/4 sec. 36, T. 50 N., R. 18 W.

The deposit extends to sec. 14, 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax Residue

LOCATION: sec. 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB

Climax

LOCATION: NE1/4NE1/4 sec. 36, T. 50 N., R. 18 W.

The deposit extends to sec. 14, 15, 22, and 23.

QUAD Calamity Mesa 7 1/2'

MAP MOAB
Mesa County

Crescent

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Gateway district.
PROD As of 1971, 96 tons had been mined at a
grade of 0.22% U3O8, producing 413 lbs of
U3O8, and 1.13% V2O5, producing 2,177 lbs
of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Crows Nest (Mineral Channel Group)(Rainbow)

LOCATION: sec. 11, T. 50 N., R. 18 W.
PROD As of 1971, 1,722 tons had been mined at
a grade of 0.30% U3O8, producing 10,421
lbs of U3O8, and 1.43% V2O5, producing 49,569
lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyyamunite, high vanadium, low lime.
DOI 1971

Cub

LOCATION: sec. 5, T. 50 N., R. 18 W.
LCST Part of sec. 5 is in Juanita Arch 7 1/2'.
QUAD Gateway 7 1/2'
PROD As of 1971, 10 tons had been mined at
a grade of 0.27% U3O8, producing 54 lbs of
U3O8, and 0.98% V2O5, producing 197 lbs
of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyyamunite, high vanadium, low lime.
DOI 1971

Dalilu-Yellowbird

LOCATION: sec. 4, T. 25 S.
LCST UNLOCATABLE.
LCRM This was noted in sec. 26 E. No such range
exists.
PROD As of 1971, 307 tons had been mined at a
grade of 0.49% U3O8, producing 3,022 lbs of
U3O8, and 1.91% V2O5, producing 11,706
lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyyamunite, high vanadium, intermed lime.
DOI 1971

Deal Group (Last Chance 1-2, Black Jumbo 1, 2, and 3)

LOCATION: S1/2 sec. 4, T. 49 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 7 tons had been mined at a grade
of 0.59% U3O8, producing 83 lbs of U3O8,
and 1.58% V2O5, producing 221 lbs of V2O5.
Mesa County

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

Drum Dust

LOCATION:
PROD As of 1971, 121 tons were recovered at a grade of 4.04% U3O8, producing 9,769 lbs of U3O8.
RMKS Material collected from residue of Yellow Cake Drums.
DOI 1971

Durango No. 2

LOCATION: sec. 34, T. 51 N., R. 19 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 69 tons had been mined at a grade of 0.23% U3O8, producing 322 lbs of U3O8, and 0.85% V2O5, producing 1,174 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Economy

LOCATION: sec. 24, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

Elizabeth 17 & 18

LOCATION: sec. 29, T. 50 N., R. 17 W.
LCRM The deposit extends to sec. 32.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 2,569 tons had been mined at a grade of 0.37% U3O8, producing 19,350 lbs of U3O8, and 2.02% V2O5, producing 104,756 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Elizabeth No. 7, 8, 9, 10

LOCATION: sec. 4, T. 49 N., R. 17 W.
LCRM The deposit extends to sec. 32, 33, T. 50 N., R. 17 W. and sec. 5, T. 49 N., R. 17 W.
PROD As of 1971, 4,652 tons had been mined at a grade of 0.19% U3O8, producing 17,990 lbs of U3O8, and 1.76% V2O5, producing 163,967 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Emerson (Blair, Bluebird, Jumbo)

LOCATION: sec. 19, T. 50 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 30.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 266 tons had been mined at a grade of 0.36% U3O8, producing 1,906 lbs of U3O8, and 1.25% V2O5, producing 6,660 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Flat Top

LOCATION: sec. 17, T. 50 N., R. 18 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 90 tons had been mined at a grade of 0.59% U3O8, producing 1,060 lbs of U3O8, and 3.12% V2O5, producing 5,614 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Ford & Fordo Claim Group (Cat Track) (Fordo 6)

LOCATION: sec. 24, T. 51 N., R. 19 W.
LCRM The deposit extends to sec. 19 and 20, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 980 tons had been mined at a grade of 0.28% U3O8, producing 5,467 lbs of U3O8, and 0.78% V2O5, producing 15,335 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fountain of Youth

LOCATION: sec. 31, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 298 tons had been mined at a grade of 0.17% U3O8, producing 1,022 lbs of U3O8, and 0.78% V2O5, producing 4,654 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Fraction

LOCATION: sec. 12, T. 50 N., R. 18 W.
Mesa County

QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 188 tons had been mined at a grade of 0.35% U3O8, producing 1,325 lbs of U3O8, and 2.18% V2O5, producing 8,192 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Great Hesper (AT(05-1-36), AEC Mining Lease)(C-G-26A, DOE Lease Tract)

LOCATION: SW1/4 sec. 9, T. 50 N., R. 18 W.
LCRM This deposit lies in the Gateway district, Calamity Mesa.
DVEL See 16A, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Hanson-Negus (Hanson Dump)(C-G-27A, DOE Lease Tract)

LOCATION: sec. 17, T. 50 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 8,325 tons had been mined at a grade of 0.14% U3O8, producing 33,511 lbs of U3O8, and 1.12% V2O5, producing 185,867 lbs of V2O5. (Most of this is included in C-G-27A, DOE Lease Tract production.)
HOST Jurassic Morrison Formation.
DOI 1971

Gateway Tailings

LOCATION: sec. 7, T. 50 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 1,429 tons had been mined at a grade of 0.26% U3O8, producing 7,360 lbs of U3O8, and 0.69% V2O5, producing 19,842 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Gladys 1-4

LOCATION: sec. 19, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 25 tons had been mined at a grade of 0.34% U3O8, producing 170 lbs of U3O8, and 1.83% V2O5, producing 917 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Hidden Treasure Shaft (AT(05-1)-36, AEC Mining Lease) and (C-G-26A, DOE Lease Tract)

LOCATION: SE1/4 sec. 4, T. 50 N., R. 18 W.
LCST UNLOCATABLE
PROD Included in production for C-G-26A, DOE Lease Tract.
DOI 1971

Hole 24

LOCATION:
LCST UNLOCATABLE
LCRM This deposit occurs in the Gateway district.
PROD As of 1971, 7 tons had been mined at a grade of 0.12% U3O8, producing 17 lbs of U3O8, and 1.44% V2O5, producing 201 lbs of V2O5.
DOI 1971

Homestead Patent

LOCATION: sec. 30, T. 50 N., R. 17 W.
LCRM Also sec. 31, Gateway district, Blue Creek locality.
QUAD Calamity Mesa 7 1/2'

Gilmore Lode (Lumsden Group)

LOCATION: sec. 36, T. 51 N., R. 20 W.
QUAD Polar Mesa 15'
PROD As of 1971, 445 tons had been mined at a grade of 0.33% U3O8, producing 2,920 lbs of U3O8, and 1.35% V2O5, producing 12,042 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Hole 29
MESA COUNTY

**PROD**

As of 1971, 171 tons have been mined at a grade of 0.23% U3O8.

**DOI**

1971

**REF**


**Hope 1 to 4**

**LOCATION:** S1/2 sec. 29, T. 50 N., R. 17 W.

**LCRM**

The deposit extends to the W1/2 sec. 28.

**QUAD**

Calamity Mesa 7 1/2'

**PROD**

As of 1971, 899 tons had been mined at a grade of 0.28% U3O8, producing 5,101 lbs of U3O8, and 1.88% V2O5, producing 33,778 lbs of V2O5.

**HOST**

Morrison Formation, Salt Wash Member.

**MNZ**

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI**

1971

**REF**


**Hubbard Homestead and Pack Rat (Shakin Quakie)**

**LOCATION:** sec. 35, T. 51 N., R. 20 W.

**LCRM**

The deposit also lies in sec. 36.

**QUAD**

Mesa 7

**PROD**

As of 1971, 84,121 tons had been mined at a grade of 0.32% U3O8, producing 332,183 lbs of U3O8, and 1.35% V2O5, producing 2,269,086 lbs of V2O5.

**HOST**

Jurassic Morrison Formation, Salt Wash Member.

**MNZ**

Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.

**DOI**

1971

**REF**


**Humdinger**

**LOCATION:** NW1/4 sec. 5, T. 50 N., R. 18 W.

**QUAD**

Gateway 7 1/2'

**PROD**

As of 1971, 45 tons had been mined at a grade of 0.26% U3O8, producing 232 lbs of U3O8, and 1.68% V2O5, producing 1,469 lbs of V2O5.

**HOST**

Jurassic Morrison Formation, Salt Wash Member.

**MNZ**

Uranium, vanadium.

**DOI**

1971

**REF**


**Hummer (AT[05-1]-36), AEC Mining Lease) and (C-G-26A, DOE Lease Tract)**

**LOCATION:** sec. 9, T. 50 N., R. 18 W.

**LCST**

UNLOCATABLE

**MNZ**

Uranium, vanadium.

**DOI**

1975

**REF**


**Incline 1 G1 (AT[05-1]-526, AEC Mining Lease; now C-G-27, DOE Lease Tract)**

**LOCATION:** sec. 13, T. 50 N., R. 18 W.

**QUAD**

Calamity Mesa 1/2'

**PROD**

This production is included in production for C-G-27, DOE Lease Tract.

**HOST**

Jurassic Morrison Formation.

**MNZ**

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI**

1971

**REF**


**Incline 2 G 2 (Now C-G-27A, DOE Lease Tract)**

**LOCATION:** SE1/4 sec. 18, T. 50 N., R. 17 W.

**QUAD**

Calamity Mesa 7 1/2'

**PROD**

As of 1971, 8,998 tons had been mined at a grade of 0.26% U3O8, producing 45,208 lbs of U3O8, and 1.15% V2O5, producing 207,836 lbs of V2O5. This production is included in the production of C-G-27A, DOE Lease Tract.

**HOST**

Jurassic Morrison Formation.

**MNZ**

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI**

1971

**REF**


**Incline 3 G 3 (Now C-G-27, DOE Lease Tract)**

**LOCATION:** NE1/4 sec. 13, T. 50 N., R. 18 W.

**QUAD**

Calamity Mesa 7 1/2'

**PROD**

As of 1971, 29,008 tons had been mined at a grade of 0.19% U3O8, producing 108,622 lbs of U3O8, and 0.89% V2O5, producing 515,489 lbs of V2O5. This production is included in the production of C-G-27.

**HOST**

Jurassic Morrison Formation.

**MNZ**

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI**

1971

**REF**


**Incline 4 G 4 (Now C-G-27, DOE Lease Tract)**

**LOCATION:** NE1/4 sec. 13, T. 50 N., R. 18 W.

**QUAD**

Calamity Mesa 7 1/2'

**PROD**

As of 1971, 6,702 tons had been mined at a grade of 0.23% U3O8, producing 31,149 lbs of U3O8, and 1.06% V2O5, producing 141,874 lbs of V2O5. This production is included in the production of C-G-27.

**HOST**

Jurassic Morrison Formation.

**MNZ**

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI**

1971

**REF**


**J. W. Lewis (Larsen 1-13, Sampson 1-9)**

**LOCATION:** sec. 1, T. 15 S., R. 104 W.

**LCRM**

6th PM. This deposit lies in Pinion Mesa.

**PROD**

As of 1971, 4 tons of ore had been mined at a grade of 0.10% U3O8 and 0.29% V2O5.

**HOST**

Jurassic Morrison Formation, Salt Wash Member.

**MNZ**

Carnotite.

**DOI**

1971

**REF**

J.W.L. Fraction 2

LOCATION: SE1/4 sec. 25, T. 51 N., R. 20 W.
QUAD Mt. Waas 4 NE 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

J.W.L. Fraction 3

LOCATION: SE1/4 sec. 26, T. 51 N., R. 20 W.
QUAD Mt. Waas 4 NE 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

J.W.L. Fraction (Cherokee Shaft)

LOCATION: SW1/4 sec. 36, T. 51 N., R. 20 W.
QUAD Mt. Waas 4 NE 7 1/2'
PROD As of 1971, 15,896 tons had been mined at a grade of 0.37% U3O8, producing 119,183 lbs of U3O8, and 1.46% V2O5, producing 464,107 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Jean 1, 2, & 3

LOCATION: sec. 30, T. 50 N., R. 17 W.
LCST UNLOCATABLE
PROD As of 1971, 98 tons had been mined at a grade of 0.18% U3O8, producing 360 lbs of U3O8, and 1.12% V2O5, producing 2,203 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Jody Group

LOCATION: sec. 33, T. 50 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 1,833 tons had been mined at a grade of 0.21% U3O8, producing 7,643 lbs of U3O8, and 1.88% V2O5, producing 68,790 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Joe

LOCATION: sec. 31, T. 51 N., R. 18 W.
LCRM The deposit extends to sec. 24, T. 51 N., R. 19 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 2,486 tons had been mined at a grade of 0.27% U3O8, producing 13,184 lbs of U3O8, and 1.01% V2O5, producing 50,286 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

John Brown

LOCATION: sec. 7, T. 50 N., R. 19 W.
QUAD Polar Mesa 15'
PROD As of 1971, 6 tons had been mined at a grade of 0.45% U3O8, producing 54 lbs of U3O8, and 1.42% V2O5, producing 171 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

John Brown 14 & 15 (John Brown Extension, Duffy, Duffy Extension)

LOCATION: sec. 1, T. 50 N., R. 20 W.
LCRM This deposit lies in Beaver Mesa, Gateway district.
DVEL Reserves, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite.
DOI 1971

John Brown No. 18 (John Brown 16-19; John Brown Annex)

LOCATION: sec. 6, T. 50 N., R. 19 W.
LCRM This deposit lies in Beaver Mesa, Gateway district.
DVEL Reserves, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite.
DOI 1971

John Brown No. 21

LOCATION: sec. 31, T. 51 N., R. 19 W.
LCRM This deposit lies in Beaver Mesa, Gateway district.
DVEL Reserves, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite.
DOI 1971

Johnny Mae 2

LOCATION: sec. 36, T. 51 N., R. 20 W.
MNZ Uranium, vanadium.
Johnnie Mae 3
LOCATION: sec. 36, T. 51 N., R. 20 W.
LCRM The deposit extends to sec. 25.
PROD As of 1971, 4,745 tons had been mined at a grade of 0.51% U308, producing 47,966 lbs of U308, and 2.04% V205, producing 193,349 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Karns Incline
LOCATION: sec. 12, T. 50 N., R. 20 W.
PROD As of 1971, 6,532 tons had been mined at a grade of 0.46% U308, producing 59,456 lbs of U308, and 1.93% V205, producing 251,974 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

Ju Dee 1
LOCATION: LCRM This deposit lies in the Gateway district on Calamity Mesa.
PROD As of 1971, 1 ton had been mined at a grade of 0.45% U308, producing 9 lbs of U308, and 1.05% V205, producing 21 lbs of V205.
HOST Jurassic Morrison Formation.
DOI 1971

July
LOCATION: sec. 12, T. 50 N., R. 18 W.
PROD As of 1971, 6,759 tons had been mined at a grade of 0.59% U308, producing 52,995 lbs of U308, and 1.60% V205, producing 215,045 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnocite - tyuyumunite, high vanadium, low lime.
DOI 1971

July 1
LOCATION: sec. 19, T. 50 N., R. 17 W.
LCRM This deposit lies in the Long Park district.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 844 tons had been mined at a grade of 0.25% U308, producing 4,239 lbs of U308, and 1.71% V205, producing 28,816 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Jumbo 1
LOCATION: sec. 19, T. 50 N., R. 17 W.
LCRM This deposit lies in the Long Park district.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 844 tons had been mined at a grade of 0.25% U308, producing 4,239 lbs of U308, and 1.71% V205, producing 28,816 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Kanarado 3
LOCATION: sec. 33, T. 50 N., R. 18 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 3 tons had been mined at a grade of 0.30% U308, producing 18 lbs of U308, and 1.65% V205, producing 99 lbs of V205.
By 1971, 17,263 tons had been mined at a grade of 0.33% U3O8, 112,646 lbs of U3O8, and 1.20% V2O5, producing 415,796 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1-1-71

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD By 1971, 57,543 tons had been mined at a grade of 0.33% U3O8, producing 383,735 lbs of U3O8, and 1.14% V2O5, producing 1,309,922 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

La Sal Group (La Salle Group)

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD By 1971, 170,673 tons had been mined at a grade of 0.39% U3O8, producing 13,458 lbs of U3O8, and 1.31% V2O5, producing 44,629 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1-1-71

La Sal No. 1 & 2

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD By 1971, 1,180 tons had been mined at a grade of 0.35% U3O8, producing 13,458 lbs of U3O8, and 1.29% V2O5, producing 44,629 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

La Sal No. 4

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD By 1971, 12,773 tons had been mined at a grade of 0.35% U3O8, producing 88,141 lbs of U3O8, and 1.29% V2O5, producing 330,429 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

La Sal No. 5 & 7

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD By 1971, 11,615 tons had been mined at a grade of 0.33% U3O8, producing 77,511 lbs of U3O8, and 1.23% V2O5, producing 286,667 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Larry & Leslie Claim Group

LOCATION: sec. 5, T. 50 N., R. 19 W.

LORM Part of sec. 5 is on Juana Arch 7 1/2'.
QUAD Polar Mesa 15'
MNZ Uranium, vanadium.
DOI 1975

Lavada (Lavada 2-7, Mineral Jack 1-3)

LOCATION: sec. 23, T. 50 N., R. 18 W.
LORM The deposit extends to sec. 14.
QUAD Calamity Mesa 7 1/2'
PROD By 1971, 51 tons had been mined at a grade of 0.47% U3O8, producing 479 lbs of U3O8, and 2.06% V2O5, producing 2,104 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Lee 1-6

LOCATION: sec. 21, T. 50 N., R. 18 W.
LORM Part of sec. 21 is in Calamity Mesa 7 1/2'.
QUAD Juanita Arch 7 1/2'
PROD By 1971, 66 tons had been mined at a grade of 0.37% U3O8, producing 492 lbs of U3O8, and 2.00% V2O5, producing 2,643 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Legal & Lucky Day

LOCATION: sec. 7, T. 50 N., R. 19 W.
QUAD Polar Mesa 15'
PROD By 1971, 5 tons had been mined at a grade of 0.20% U3O8, producing 20 lbs of U3O8, and 3.72% V2O5, producing 372 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Liberty Bell

LOCATION: sec. 36, T. 51 N., R. 19 W.
QUAD Gateway 7 1/2'
PROD By 1971, 10,355 tons had been mined at a grade of 0.29% U3O8, producing 60,260 lbs of U3O8, and 0.99% V2O5, producing 704,241 lbs of U3O8.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low lime.
DOI 1971

Lincoln

LOCATION: sec. 31, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD By 1971, 77,18 tons had been mined at a grade of 0.24% U3O8, producing 35,157 lbs
of U3O8, and 0.79% V2O5, producing 116,043 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1-1-71


**Little Johnny**

**LOCATION:** sec. 31, T. 51 N., R. 18 W.

**QUAD** Gateway 7 1/2'

**PROD** By 1971, 2,270 tons had been mined at a grade of 0.18% U3O8, producing 8,193 lbs of U3O8, and 0.78% V2O5, producing 39,558 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1-1-71


**Little Maverick** 1, 4, 5 & 6

**LOCATION:** sec. 21, T. 50 N., R. 18 W.

**LCRM** U.S. A.E.C. Production Records also show sec. 28.

**QUAD** Juanita Arch 7 1/2'

**PROD** By 1971, 72 tons had been mined at a grade of 0.37% U3O8, producing 527 lbs of U3O8, and 1.85% V2O5, producing 2,658 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uranium, vanadium.

**DOI** 1-1-71


**Locus** 1, 2, & 3

**LOCATION:** sec. 28, T. 50 N., R. 18 W.

**LCRM** Part of sec. 28 is on Calamity Mesa 7 1/2'.

**QUAD** Juanita Arch 7 1/2'

**PROD** By 1971, 2 tons had been mined at a grade of 0.13% U3O8, producing 5 lbs of U3O8, and 0.75% V2O5, producing 30 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.

**DOI** 1-1-71


**Lode Claim**

**LOCATION:** sec. 32, T. 15 S., R. 104W, 6 PM.

**LCST** UNLOCATABLE

**PROD** By 1971, 63 tons had been mined at a grade of 0.28% U3O8, producing 356 lbs of U3O8, and 1.42% V2O5, producing 1795 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**DOI** 1-1-71


**Lost Dutchman 17**

**LOCATION:** sec. 25, T. 51 N., R. 20 W.

**LCRM** The deposit extends to sec. 26.

**PROD** By 1971, 61,738 tons had been mined at a grade of 0.26% U3O8, producing 322,250 lbs of U3O8, and 1.05% V2O5, producing 1,293,825 lbs of V2O5.

**HOST** Jurassic Morrison Formation Salt Wash Member.

**MNZ** Carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1-1-71


**Lost Indian (Last Indian)**

**LOCATION:** T. 51 N., R. 19 W.

**LCST** UNCERTAIN

**LCRM** This deposit lies in the Gateway district, Beaver Mesa.

**PROD** As of 1971, 35 tons of ore had been mined at a grade of 0.34% U3O8.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**DOI** 1-1-71

By 1971, 138 tons had been mined at a grade of 0.11% U3O8, producing 302 lbs of U3O8, and 0.97% V2O5, producing 2,686 lbs of V2O5.

LOCATION: sec. 7, T. 50 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 6.
QUAD Polar Mesa 15
PROD By 1971, 138 tons had been mined at a grade of 0.11% U3O8, producing 302 lbs of U3O8, and 0.97% V2O5, producing 2,686 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

LOCATION: sec. 23, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2
MNZ Uranium, vanadium.
DOI 1975

LOCATION: sec. 32, T. 50 N., R. 18 W.
QUAD Juanita Arch 7 1/2
PROD By 1971, 43 tons had been mined at a grade of 0.16% U3O8, producing 134 lbs of U3O8, and 0.79% V2O5, producing 678 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, limed.
DOI 1971

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD By 1971, 47,282 tons had been mined at a grade of 0.36% U3O8, producing 336,008 lbs of U3O8, and 1.40% V2O5, producing 1,325,897 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

LOCATION: sec. 3, T. 50 N., R. 18 W.
QUAD Gateway 7 1/2
PROD As of 1971, 9 tons were mined at a grade of 0.53% U3O8, producing 96 lbs of U3O8, and 3.94% V2O5, producing 709 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

LOCATION: sec. 9, T. 50 N., R. 18 W.
LCRM Part of sec. 9 is in Calamity Mesa 7 1/2.
QUAD Juanita Arch 7 1/2
MNZ Uranium, vanadium.
DOI 1975

LOCATION: sec. 51 N., R. 18 W.
LCRM The deposit extends to sec. 16, T. 25 S., R. 26 E. (Utah).
QUAD LeaselCC-G-26A
PROD By 1971, 97,019 tons were mined at a grade of 0.16% U3O8, producing 6,023 lbs of U3O8, and 0.70% V2O5, producing 25,613 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

LOCATION: sec. 31, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2
PROD By 1971, 5,124 tons were mined at a grade of 0.16% U3O8, producing 15,018 lbs of U3O8, and 0.69% V2O5, producing 70,291 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

LOCATION: sec. 31, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2
PROD By 1971, 1,833 tons were mined at a grade of 0.16% U3O8, producing 6,023 lbs of U3O8, and 0.70% V2O5, producing 25,613 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
Mesa County

Maverick 6

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM Part of sec. 3 is in Calamity Mesa 7 1/2'
QUAD Gateway 7 1/2'
PROD As of 1971, 38 tons had been mined at a grade of 0.28% U3O8, producing 215 lbs of U3O8, and 1.34% V2O5, producing 1,34% V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mesa 8

LOCATION: sec. 12, T. 50 N., R. 18 W.
LCRM Calamity Mesa 7 1/2'
PROD As of 1971, 51,434 tons had been mined at a grade of 0.21% U3O8, producing 216,548 lbs of U3O8, and 1.02% V2O5, producing 1,053,868 lbs of V2O5.
HOST The host is Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mesa No. 5 (Outlaw Mesa)

LOCATION: E1/2 sec. 12, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 7, T. 50 N., R. 17 W.
PROD As of 1971, 23,100 tons had been mined at a grade of 0.23% U3O8, producing 114,816 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mill Site Lode (June)

LOCATION: sec. 13, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 82 tons had been mined at a grade of 0.22% U3O8, producing 369 lbs of U3O8, and 0.99% V2O5, producing 1,622 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Mineral Channel 10 & 12

LOCATION: sec. 7, T. 50 N., R. 17 W.
LCRM The deposit extends to sec. 12, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 4,662 tons had been mined at a grade of 0.21% U3O8, producing 19,562 lbs of U3O8, and 0.96% V2O5, producing 89,072 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mineral Channel 3

LOCATION: sec. 12, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 827 tons had been mined at a grade of 0.43% U3O8, producing 7,039 lbs of U3O8, and 1.64% V2O5, producing 27,065 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Mineral Channel 5

LOCATION: sec. 12, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 84 tons had been mined at a grade of 0.74% U3O8, producing 1,236 lbs of U3O8, and 2.30% V2O5, producing 3,869 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Monroe 18

LOCATION: sec. 36, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 25.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 149 tons had been mined at a grade of 0.22% U3O8, producing 660 lbs of U3O8, and 1.58% V2O5, producing 4,712 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Montezuma

LOCATION: sec. 10, T. 50 N., R. 19 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 4 tons had been mined at a grade of 0.40% U3O8, producing 32 lbs of U3O8, and 3.14% V2O5, producing 251 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
Neglected (AT(05-1)-36, AEC Mining Lease)(C-G-27, DOE Lease Tract)

LOCATION: sec. 12, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

Neilson

LOCATION: sec. 10, T. 50 N., R. 19 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 7 tons had been mined at a grade of 0.48% U3O8, producing 67 lbs of U3O8, and 2.14% V205, producing 299 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Okan

LOCATION: sec. 31, T. 51 N., R. 18 W.
DOI 1958

Outlaw-Economy

LOCATION: sec. 12, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 19, T. 50 N., R. 17 W., and sec. 24, 25, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 6,368 tons had been mined at a grade of 0.33% U3O8, producing 41,921 lbs of U3O8, and 1.45% V205, producing 185,281 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

October Adit

LOCATION: S1/2 sec. 4, T. 50 N., R. 19 W.
LCRM The deposit extends to N1/2 sec. 8 and 9.
QUAD Gateway 7 1/2'
PROD As of 1971, 53,411 tons had been mined at a grade of 0.31% U3O8, producing 331,194 lbs of U3O8, and 0.91% V205, producing 970,686 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Pay Lode (Pay Rock Group)

LOCATION: sec. 19, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 180 tons had been mined at a grade of 0.21% U3O8, producing 757 lbs of U3O8, and 1.23% V205, producing 4,414 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

PACK RAT 1 & 2

LOCATION: sec. 35, T. 51 N., R. 20 W.
LCRM The deposit extends to sec. 25 and 36.
PROD As of 1971, 46,993 tons had been mined at a grade of 0.32% U3O8, producing 300,994 lbs of U3O8, and 1.46% V205, producing 1,373,280 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

New Verde (Horn Group)

LOCATION: sec. 15, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 16, 21, 22, 27, 28, 35, and 34.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 72,100 tons had been mined at a grade of 0.32% U3O8, producing 465,920 lbs of U3O8, and 1.35% V205, producing 1,951,777 lbs of V205.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Newheisel

LOCATION: sec. 31, T. 51 N., R. 19 W.
LCRM Beaver Mesa.
QUAD Polaris Mesa 151
PROD As of 1971, 4,516 tons had been mined at a grade of 0.28% U3O8, producing 25,643 lbs of U3O8.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
PPT. Concentrate

LOCATION: sec. 10, T. 51 N., R. 19 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 10 tons had been mined at a grade of 0.68% U3O8, producing 137 lbs of U3O8 and 1.73% V2O5, producing 346 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Protector

LOCATION: sec. 31, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 6,291 tons had been mined at a grade of 0.29% U3O8, producing 36,293 lbs of U3O8 and 1.06% V2O5, producing 133,065 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Queen of the Hills (AT(05-1)-36, AEC Mining Lease)

LOCATION: sec. 9, T. 50 N., R. 18 W.
LCRM Part of sec. 9 is in Calamity Mesa 7 1/2'
QUAD Juania Arch 7 1/2'
PROD Production included in AT(05-0-U-36), AEC Mining Lease.
MNZ Uranium, vanadium.
DOI 1975
Mesa County

Rae Marie (Rae Marie No. 3)

LOCATION: sec. 18, T. 51 N., R. 104 W.
LCRM This deposit extends to sec. 28-33, T. 24 S., R. 26 E. (in Utah).
QUAD Polar Mesa 15'
PROD As of 1971, 586 tons had been mined at a grade of 0.39% U3O8, producing 4,525 lbs of U3O8, and 1.14% V2O5, producing 15,369 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

RAINBOW

LOCATION: sec. 18, T. 50 N., R. 18 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 191 tons had been mined at a grade of 0.29% U3O8, producing 1,124 lbs of U3O8, and 1.38% V2O5, producing 5,259 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rajah 1

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD As of 1971, 880 tons had been mined at a grade of 0.19% U3O8, producing 3,364 lbs of U3O8, and 0.59% V2O5, producing 10,367 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Rajah 49

LOCATION: sec. 30, T. 51 N., R. 19 W.
QUAD Polar Mesa 15'
MNZ Uranium, vanadium.
DOI 1975

Rajah 67 & 68, 61, 62, and 63

LOCATION: sec. 36, T. 51 N., R. 20 W.
QUAD Polar Mesa 15'
PROD As of 1971, 112,673 tons had been mined at a grade of 0.27% U3O8, producing 598,010 lbs of U3O8, and 1.13% V2O5, producing 2,555,105 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Rajah 72

LOCATION: sec. 36, T. 51 N., R. 20 W.
PROD As of 1971, 114 tons had been mined at a grade of 0.31% U3O8, producing 711 lbs of U3O8, and 1.80% V2O5, producing 4,104 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Rajah No. 2

LOCATION: sec. 1, T. 50 N., R. 20 W.
PROD No production.
DOI 1971
MESA COUNTY

Rajah No. 4

LOCATION: sec. 11, T. 50 N., R. 19 W.
PROD No production.
DOI 1971

Rajah No. 9

LOCATION: sec. 6, T. 50 N., R. 19 W.
PROD No production.
DOI 1971

Ranch View

LOCATION: sec. 30, T. 50 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 15 tons had been mined at a grade of 0.50% U3O8, producing 149 lbs of U3O8 and 1.55% V2O5, producing 465 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Raven 3

LOCATION: sec. 32, T. 50 N., R. 17 W.
LCRM The deposit extends to sec. 31.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 685 tons had been mined at a grade of 0.34% U3O8, producing 4,694 lbs of U3O8 and 1.96% V2O5, producing 21,426 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rena (Lost Marble)

LOCATION: sec. 19, T. 51 N., R. 18 W.
LCRM The deposit extends to sec. 18.
QUAD Gateway 7 1/2'
PROD As of 1971, 269 tons had been mined at a grade of 0.30% U3O8, producing 1,640 lbs of U3O8 and 1.34% V2O5, producing 7,224 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Roger, Mike, et al claims

LOCATION: sec. 20, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

Ronnie 1 (C-G-27, DOE Lease Tract)

LOCATION: sec. 12, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 12.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 11,817 tons had been mined at a grade of 0.31% U3O8, producing 75,215 lbs of U3O8 and 1.32% V2O5, producing 311,640 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Ronnie 2 (C-G-27, DOE Lease Tract)

LOCATION: sec. 13, T. 50 N., R. 18 W.
LCRM The deposit extends to sec. 13.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 1,606 tons had been mined at a grade of 0.30% U3O8, producing 9,576 lbs of U3O8 and 1.38% V2O5, producing 44,427 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rosebud

LOCATION: sec. 36, T. 51 N., R. 19 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 519 tons had been mined at a grade of 0.41% U3O8, producing 4,254 lbs of U3O8 and 1.16% V2O5, producing 12,076 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rudot 1

LOCATION: sec. 34, T. 51 N., R. 19 W.
LCRM The deposit extends to sec. 33.
QUAD Gateway 7 1/2'
PROD As of 1971, 259 tons had been mined at a grade of 0.28% U3O8, producing 1,449 lbs of U3O8 and 1.28% V2O5, producing 6,614 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Salute 3

LOCATION: sec. 25, T. 50 N., R. 18 W.

247
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 13 tons had been mined at a grade of 0.24% U3O8, producing 63 lbs of U3O8, and 0.64% V2O5, producing 167 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MINZ Uranium, vanadium.
DOI 1971

Scott 2
LOCATION: sec. 27, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 7 tons had been mined at a grade of 0.26% U3O8, producing 36 lbs of U3O8, and 1.37% V2O5, producing 192 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MINZ Uranium, vanadium.
DOI 1971

Shakin Quakie
LOCATION: sec. 35, T. 51 N., R. 20 W.
MINZ Uranium, vanadium.
DOI 1975

Shelby Dean 2
LOCATION: sec. 34, T. 51 N., R. 19 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 8 tons had been mined at a grade of 0.42% U3O8, producing 67 lbs of U3O8, and 2.71% V2O5, producing 434 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MINZ Uranium, vanadium.
DOI 1971

Silver Moon
LOCATION: NE1/4NE1/4 sec. 10, T. 1 N., R. 3 W.
LCRM This occurrence is in the Ute Meridian, and lies in the Rifle district near Loma, Colorado.
PROD As of 1971, 4 tons had been mined at a grade of 0.09% U3O8, producing 7 lbs of U3O8, and 0.57% V2O5, producing 46 lbs of V2O5.
MINZ This ore is residue from a vanadium ore buying station that operated in the 1940-1945 period.
DOI 1971

Small Spot
LOCATION: sec. 9, T. 50 N., R. 18 W.
LCRM The deposit extends across sec. 4-9. Part of sec. 9 is in Calamity Mesa 7 1/2'.
PROD As of 1971, 2,616 tons had been mined at a grade of 0.68% U3O8, producing 35,372 lbs of U3O8, and 2.78% V2O5, producing 145,438 lbs of V2O5.
MINZ Uranium, vanadium.
DOI 1971

Snow Shoe
LOCATION: sec. 12, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 1,493 tons had been mined at a grade of 0.34% U3O8, producing 10,023 lbs of U3O8, and 1.33% V2O5, producing 39,669 lbs of V2O5.
HOST Jurassic Morrison Formation.
MINZ Uranium, vanadium, carnotite-tyuyaminite, high vanadium, low lime.
DOI 1971

Spring
LOCATION: sec. 12, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 2,757 tons had been mined at a grade of 0.45% U3O8, producing 24,592 lbs of U3O8, and 1.99% V2O5, producing 109,535 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MINZ Uranium, vanadium, carnotite-tyuyaminite, high vanadium, low lime.
DOI 1971

Stormy Treasure
LOCATION: sec. 35, T. 50 N., R. 18 W.
LCRM This deposit is located on Blue Mesa.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 5 tons had been mined at a grade of 0.17% U3O8, producing 17 lbs of U3O8, and 0.82% V2O5, producing 82 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MINZ Uranium, vanadium, carnotite-tyuyaminite, high vanadium, low lime.
DOI 1971

Strode 1
LOCATION:
LCRM UNLOCATABLE
LCRM This deposit lies in the Gateway district.
PROD As of 1971, 3 tons had been mined at a grade of 0.93% U3O8, producing 56 lbs of U3O8, and 2.90% V2O5, producing 174 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Sun
LOCATION: sec. 12, T. 50 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as Sec. 7, T. 50 N., R. 17 W.
Mesa County

QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 309 tons had been mined at a grade of 0.51% U3O8, producing 3,130 lbs of U3O8, and 2.35% V2O5, producing 14,493 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Surprise Group (Surprise No. 1-3)

LOCATION: sec. 36, T. 50 N., R. 18 W.
LCRM Sunflower (AT(05-1)-36), AEC Mining Lease) (C-G-26A, DOE Lease Tract)

Sunflower, Cloud 1, Thundercloud

LOCATION: sec. 32, T. 51 N., R. 19 W.
LCRM This deposit lies in the Gateway district, Calamity Mesa.
QUAD Polar Mesa 15'
PROD As of 1971, 10,044 tons had been mined at a grade of 0.29% U3O8, producing 57,627 lbs of U3O8, and 1.13% V2O5, producing 227,496 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Supply 11

LOCATION: sec. 35, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 15 tons had been mined at a grade of 0.29% U3O8, producing 86 lbs of U3O8, and 1.29% V2O5, producing 386 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Supply 14

LOCATION: sec. 35, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 14 tons had been mined at a grade of 0.11% U3O8, producing 31 lbs of U3O8, and 1.29% V2O5, producing 360 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Tenderfoot Group (Payrock Group)

LOCATION: sec. 19, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 8 tons had been mined at a grade of 0.21% U3O8, producing 34,710 lbs of U3O8, and 1.06% V2O5, producing 194,464 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, high vanadium, low lime.
DOI 1971

The Cave

LOCATION: sec. 4, T. 50 N., R. 19 W.
LCRM Part of sec. 4 lies on Juanita Arch 7 1/2'
QUAD Gateway 7 1/2'
PROD As of 1975, 3,992 lbs of U3O8, producing 1,539 lbs of U3O8, and 0.28% V2O5, producing 6,465 lbs of V2O5.
HOST Jurassic Morrison Formation.

The Duke

LOCATION: sec. 32, T. 51 N., R. 19 W.
LCRM This deposit lies in the Gateway district, Beaver Mesa.
QUAD Polar Mesa 15'
PROD As of 1971, 270 tons had been mined at a grade of 0.28% U3O8, producing 1,539 lbs of U3O8, and 1.20% V2O5, producing 6,465 lbs of V2O5.
HOST Jurassic Morrison Formation.
DOI  1971

Thorton Tunnel (Zee Lease)

LOCATION:  sec. 31, T. 51 N., R. 19 W.
LCRM The deposit extends to sec. 36, T 51 N., R. 20 W.
QUAD Polar Mesa 15'
PROD As of 1971, 13,777 tons had been mined at a grade of 0.27% U3O8, producing 74,848 lbs of U3O8, and 0.85% V2O5, producing 253,769 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, high vanadium, low lime.
DOI  1971

Thunder Cloud No. 1 Mine

LOCATION:  sec. 32, T. 51 N., R. 19 W.
QUAD Polar Mesa 15'
MNZ Uranium and vanadium were mined.
DOI  1975

Trojan 18 & 20

LOCATION:  sec. 23, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 616 tons had been mined at a grade of 0.60% U3O8, producing 7,430 lbs of U3O8, and 2.11% V2O5, producing 25,988 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI  1971

Turner

LOCATION:  S1/2S1/2 sec. 29, T. 50 N., R. 17 W.
DOI  1958

Vanadium King 1 (Vana King No. 1)

LOCATION:  sec. 19, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 17 tons had been mined at a grade of 0.19% U3O8, producing 65 lbs of U3O8, and 1.40% V2O5, producing 476 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member.
MNZ Uranium, vanadium.
DOI  1971

Vanadium King 2 (Vana King No. 2)

LOCATION:  sec. 19, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 48 tons had been mined at a grade of 0.46% U3O8, producing 439 lbs of U3O8, and 1.66% V2O5, producing 1,589 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI  1971
As of 1971, 4,110 tons had been mined at a grade of 0.31% U₃O₈, producing 25,626 lbs of U₃O₈, and 1.34% V₂O₅, producing 110,433 lbs of V₂O₅.

Jurassic Morrison Formation, Salt Wash Member. Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.

As of 1971, 101,285 tons had been mined at a grade of 0.25% U₃O₈, producing 510,449 lbs of U₃O₈, and 0.87% V₂O₅, producing 1,765,306 lbs of V₂O₅.

Jurassic Morrison Formation, Salt Wash Member. Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.

No reported occurrences of uranium have been noted in Mineral County. The potential for reserves to be located within the county is small.

The county is almost entirely underlain by Tertiary volcanic rocks of the San Juan Mountain Uplift. These rocks are related to the volcanic calderas in and near the county, including the Bachelor, Creede, La Garita, and San Luis Calderas.

There is little probability that uranium reserves will be found in the county. However, the type that is the most probable to be found is associated with sediments or tuff in and around caldera systems. This type of occurrence is important in Mexico, but more research needs to be done on them.
Moffat County

Uranium production from the county totals about 1,627,354 tons of ore, with an average grade of 0.13 percent U$_3$O$_8$, making it one of the largest producing counties in the state. The potential is very good for more reserves to be found.

Moffat County is situated in the northwestern corner of Colorado. Much of the county is topographically relatively flat, with two major exceptions. The first are the Elkhead Mountains, which represent erosional remnants of a Tertiary volcanic field that once covered the northeastern part of the county. Secondly the Uinta Mountains, with their Precambrian core, extend into the northwestern corner from Utah. The Uinta Arch and the Axial Basin Anticline traverse the county diagonally from northwest to southeast, dividing it nearly in half. Although other formations ranging in age from Cambrian to Pliocene are exposed locally, the Eocene Wasatch Formation and the Miocene Browns Park Formation mantle the majority of the county. Those formations directly overlie a regional unconformity and are the hosts for most of the uranium deposits and occurrences within the county.

The most important uranium occurrences are found in the Maybell district in the Browns Park Formation, a tuffaceous sandstone of continental origin. The major deposits in this district lie on the flanks of the Lay syncline, a large, shallow, east-trending structure. The largest deposits are found in sandstone, but a conglomerate at the base of the Browns Park Formation is also anomalously radioactive throughout the area. Small faults common within the district appear to have localized the ore to some degree. Both oxidized and unoxidized rocks contain ore. In the oxidized sandstones the ore is yellow, primarily due to iron oxides. The most common uranium minerals of oxidized ore are meta-autunite and uranophane. The unoxidized ore is gray or bluish due to finely divided pyrite, and the dominant uranium minerals are coffinite and uraninite. The five largest producing mines of this district are the Rob Rollo Mine, the Marge Mine, the Gertrude Mine, the Sage-Buellia Mine, and the Johnson Lease, in that order.

The five properties in the Maybell district produced 1,621,780 tons of ore from the Browns Park Formation. The remainder was reported from other properties in the Maybell district and from the Skull Creek district. Although the Maybell district was inactive for many years, a number of the old mine workings have been reactivated, and additional new development is now taking place. The ore is now being heap-leached, and about 200,000 lb of U$_3$O$_8$ ore is being produced yearly. The Skull Creek district is not presently active.

Areas with potential within the county will be those mantled by Browns Park Formation because of the size and features of the known deposits in that formation. Small occurrences are also reported from the Morrison Formation, Wasatch Formation, Entrada Sandstone, Curtis Formation, Carmel Formation, Illes Formation, Weber Formation, and Chirin Formation. Of those, the Wasatch Formation, because of its areal extent and numerous reported small occurrences, would appear to be the next most potential unit for uranium reserves. It should be noted, however, that large deposits are known within some of the other formations mentioned, but in other parts of the state and in Utah. The nearest and most important of those include deposits in the Morrison Formation, the Entrada Sandstone, and the Chirin Formation. These, plus several of the other formations containing occurrences are exposed along the scarp of the breached Skull Creek Anticline. This anticline, lying on the southeast edge of the Uinta Uplift, shows marked geochemical anomalies of several economic minerals, including uranium. The Skull Creek district lies on the southeast edge of the anticline and probably represents one area of concentrated mineralization. Based on the extensive geochemical anomaly and alteration of rock units, other such mineralized areas could exist along the flanks of the anticline or at depth. The area near the Tertiary intrusives in the northeast could also be favorable.
Moffat County

56-1 Airborne Anomaly

LOCATION: sec. 13, T. 10 N., R. 101 W.

LCRM Directions to the deposit are given as follows: "Go 0.5 mile west of Maybell on Highway 40 to Highway 318. Follow Highway 318 for 51.2 miles to where it leaves Irish Canyon. Turn left onto the dry lake bed and go 0.5 mile, take left fork and go 0.1 mile to right fork. Continue straight 1.5 miles following a gully through sandstone and shale hogbacks to fork. Go left 0.3 mile to top of the hogback, continue for 0.8 mile. The anomaly is on the south side of a wash, 400 ft east of the road."

QUAD Irish Canyon 7 1/2

MAP VERNAL

DVEL Underground mining was conducted.

BKG .03 mr/hr

RNG .25 mr/hr

HOST The host is probably the Jurassic Morrison Formation, is a light to medium gray, very fine-grained, cross-bedded sandstone. A one-ft bed of gray, carbonaceous-siltstone and coal overlies the host sandstone.

MNZ Uranium mineralization were visible, but no uranium minerals were noted. There is sparce limonite staining and some CaCO3 streaks in the radioactive horizon.

DOI 1954


56-2 Airborne Anomaly

LOCATION: NE1/4 sec. 2, T. 10 N., R. 100 W.

LCRM Directions to the deposit are given as follows: "Go 0.5 mile west of Maybell on Highway 318. Follow Highway 318 for 51.1 miles to where it leaves Irish Canyon. Continue 6.3 miles, turn right and go 5.5 miles to creek crossing. Continue 1.4 mile and turn right. Go 2.4 miles and turn right. Go 3.4 miles to creek crossing. 0.6 mile beyond creek, turn right off the road. The anomaly is approximately 600 ft ahead on the top of the hill."

QUAD G Spring 7 1/2

MAP VERNAL

DVEL No production had taken place as of 1955.

RNG To .08 mr/hr

HOST The anomolous readings were taken on a bluff to brown, silty mudstone. The surface beds are mapped as being the Eocene Wasatch Formation, with silty, red and brown variation mudstones and clays, and small lenses of white to gray, fine- to medium-grained, poorly-consolidated sandstones.

MNZ Gypsum and limonite stain are present in the rock, with CaCO3 cement. There were no visible uranium minerals.

DOI 1955


56-9 Airborne Anomaly

LOCATION: sec. 12, T. 10 N., R. 103 W.

LCRM Directions to the deposit are given as follows: "Go 0.5 mile west of Maybell, Colorado on US Hwy 40 to State Hwy 318. Follow Hwy 318 northwest 43.5 miles to State Hwy 10. Turn left and go 12.3 miles, turn right off of Hwy 10 and go 0.15 mile. Turn right and go 1.4 mile, turn left, go 0.3 mile, turn right off the road, go 0.3 mile north. The anomalous area is 600 ft east."

QUAD Lodore School 7 1/2

MAP VERNAL

DVEL Underground mining was carried out.

BKG .01 mr/hr

RNG .03 to .1 mr/hr

HOST The host rock is the Miocene Browns Park Formation. It consists of white to buff sandstone and siltstone beds.

MNZ Uranium mineralization was detected, but there were no visible uranium minerals.

DOI 1954


56-10 Airborne Anomaly

LOCATION: sec. 12, T. 10 N., R. 103 W.

LCRM Directions to the deposit are given as follows: "Go 0.5 mile west of Maybell, Colorado on US Hwy 40 to Colorado Hwy 318. Follow Hwy 318 northwest 43.5 miles to Hwy 10. Turn left and go 12.3 miles, turn right off of Hwy 10 and go 0.15 mile. Turn right and go 1.4 mile, turn right off of Hwy 10 and go 0.8 mile, turn right off the road, go 0.3 mile north. The anomalous area is 600 ft east."

QUAD Lodore School 7 1/2

MAP VERNAL

DVEL Underground mining was carried out.

BKG .01 mr/hr

RNG .03 to .1 mr/hr

HOST The host rock is the Miocene Browns Park Formation. It consists of white to buff sandstone and siltstone beds.

MNZ Uranium mineralization was detected, but there were no visible uranium minerals.

DOI 1954


56-11 Airborne Anomaly

LOCATION: NW1/4 sec. 27, T. 10 N., R. 102 W.

LCRM Directions to the deposit are given as follows: "Go 0.5 mile west of Maybell, Colorado on US Hwy 40 to Colorado Hwy 318. Follow Hwy 318 northwest 43.5 miles to Hwy 10, turn left, go 6.0 miles, turn right off of Hwy 10, go 0.9 mile to ranch buildings. Continue northwest on trail through barnyard. Go 1.7 mile. The anomalous area is 700 ft
Anomalous radioactivity was detected, but no uranium minerals were found. The host is the Miocene Browns Park Formation. The anomalous area is covered by a mantle of light gray, to buff, to brown, fine- to medium-grained sand with sparse to locally abundant limonitic staining. A friable buff colored conglomerate was observed nearby. Uranium mineralization was found, although no minerals were megascopically visible.

56-16, Airborne Anomaly

LOCATION: sec. 10, T. 6 N., R. 95 W.

LCRM This deposit is approximately 1,000 ft southeast of 56-16, Airborne Anomaly. Directions to the deposit are given as follows: "Begin at the Standard Gas Station in Maybell, Colorado. Go east on US Highway 40 for 2.6 miles. Turn right off Highway 40 onto a dirt road."

QUAD Citadel Plateau 15'

MAP VERNAL

DVEL Some underground mining was carried out, according to the U.S. Bur. of Mines.

HOST The host rock is reported to be undivided Paleozoics, bounded by the Miocene BROWNS Park Formation. The anomalous radioactivity occurs in a buff to medium brown, muddy siltstone bed with some CaCO₃ and limonite staining. It also occurs in a surface mantle of limestone pebbles and cobbles in a silt and fine sand matrix.

MNZ Uranium mineralization was found, but no uranium minerals were megascopically visible.

DOI 1955

Moffat County

56-17, Airborne Anomaly

LOCATION: sec. 4, T. 5 N., R. 95 W.

LCRM Directions to the deposit are given as follows: "Start at Maybell, Colorado and go 1.8 miles east on US Highway 40. Turn right off Highway 40 onto Moffat County Road 57 and go 5.3 miles to Moffat County Road 32. Turn left and go 1.5 miles."

QUAD Citadel Plateau 15`

MAP VERNAL

BKG .015 mr/hr

RNG .02 to .17 mr/hr

HOST The host is the Miocene Browns Park Formation. It is a series of sandstones, siltstones and claystones, with the radioactivity occurring in a very light gray siltstone bed. Some limonite staining is present.

STRC Two small faults cut the siltstone in the area of highest radioactivity. They strike N30°W and dip 65°SW.

MNZ There are no megascopically visible uranium minerals.

DOI 1955


57-10, Airborne Anomaly

LOCATION: SW1/4 sec. 24, T. 12 N., R. 102 W.

LCRM Directions to the deposit are given as follows: "Beginning at the coal tipple in south Rock Springs, Wyoming, go south on oil surfaced State Highway 430 for 54.7 miles. Turn west for 1.7 miles, then turn south for 0.7 mile. Then turn west again for 0.5 mile. At this point you will be at the 1/4 corner between sec. 24 and 19. Then continue west for 0.8 mile. The anomaly lies about 1/4 mile to the southwest."

QUAD Sparks 7 1/2`

MAP VERNAL

DVEL Surface mining was carried out.

BKG .02 mr/hr

RNG .1 to .30 mr/hr

HOST The host rock is mapped as the Wasatch Formation but may be the Tipton Tongue of the Green River Formation, both of Eocene age. The radioactivity occurs in two, 250-ft square surface remnants, comprised of very hard, iron-stained, buff, fine-grained sandstone. The radioactivity is located in a dark, blue-black mineral band in the upper 1/4 in. of the sandstone.

STRC The anomalous area lies on the west flank of the small Haymower dome, which is a slightly elongated anticline trending north-south. The beds dip greatly to the west and strike approximately N10°E. The Uinta overthrust belt lies 3 to 4 miles south of this area.

MNZ Uranium mineralization was detected, but no visible uranium minerals or fluorescence were observed in the samples examined.

DOI 1956


Agnes No. 7 Claims

LOCATION: sec. 35, T. 7 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "From Maybell, Colorado go 10.0 miles east on Highway US 40. Radioactive anomaly is 3,700 ft due south of highway on south side of brown-colored hill."

QUAD Lay 7 1/2`

DVEL Some underground mining was carried out. Four 10 ft deep pits were dug and 10 holes were drilled in an area 100 ft by 100 ft.

BKG .02 mr/hr

RNG .05 to .12 mr/hr

HOST The radioactive zone is about 100 ft long and lies in the Miocene Browns Park Formation. The mineralization occurs in the basal conglomerate in a medium- to coarse-grained sandstone layer 2 ft thick. The highest radioactivity is in asphaltic and limonitic stained sandstone concretions. The entire hill in which the radioactive anomaly occurs shows a uniform brown limonitic color that is not characteristic of the area.

STRC A northwest trending fault lies 150 ft south of the anomaly.

MNZ There was some uranium mineralization detected, but no visible uranium minerals. There is abundant limonite staining in the mineralized zone and there is some petrolierous residue in some of the concretions.

DOI 1955


Airborne Anomaly

LOCATION: sec. 23, T. 9 N., R. 93 W.

QUAD Iron Springs 7 1/2`

MAP CRAIG

DVEL Some underground mining took place.

MNZ Uranium mineralization was detected.

DOI 1975


B17-15, Airborne Anomaly

LOCATION: sec. 19, T. 12 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "From stoplight in Baggs, Wyoming, yu south on Highway 789 for 4.9 miles; turn right and go 30.0 miles on Moffat County Road 4; turn right and continue on Route 4 for 0.7 miles; turn right and go 3.2 miles; turn right and to 5.3 miles; turn right and go 0.06 miles; turn right and go 2.1 miles; turn left and go 1.2 miles; anomaly lies 1/2 mile to the west."

QUAD Bighole Butte 7 1/2`

MAP CRAIG

DVEL No exploration or production had taken place as of August 1954.

BKG .035 mr/hr

RNG .06 to .07 mr/hr

256
Airborne

HOST The sandstone bed containing the slightly abnormal radioactivity is eight ft thick and lies in the Tertiary Wasatch Formation. The sandstone is fine-grained, buff colored, poorly-consolidated, and is overlain and underlain by shale.

STRC Strata in this area have a gentle regional dip to the north.

MNZ No visible mineralization was observed.

DOI 1954


B17-89, Airborne Anomaly

LOCATION: sec. 14, T. 6 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "Begin log at Standard Station in Maybell, Colorado. Go east on US Highway 40 for 8.2 miles and turn right on Moffat County Road 53; go 4.0 miles and turn left on Moffat County Road 118. Go 2.5 miles, turn left on Moffat County Road 17; go 0.7 mile; anomaly lies 0.7 mile to left across main north-south drainage in a small northwest-southwest tributary drainage."

QUAD Juniper Hot Springs 7 1/2'

MAP CRAIG

DVEL An underground operation was located at this site.

BKG .02 mr/hr

RNG .10 to .15 mr/hr

HOST The host is Miocene Browns Park Formation. The radioactive beds are highly cross-bedded, lemon-yellow, fine- to coarse-grained, poorly-consolidated sandstones, with thin irregular stringers cemented by CaCO3. Two to six in. layers of iron-cemented and stained sandstone with coatings and finely disseminated flakes of carbon were also noted. Interbedded with the sandstone are thin, irregular lenses of conglomerates of varied size and composition.

MNZ Uranium mineralization was detected but none were visible.

DOI 1954


B17-90, Airborne Anomaly

LOCATION: sec. 14, T. 6 N., R. 94 W.

LCRM B17-91, Airborne Anomaly lies about 1/4 mile south of B17-90, Airborne Anomaly, in sec. 15. Directions to the deposits are given as follows: "Begin log at Maybell, Colorado at the Standard Gas Station and Cafe. Go east on US Highway 40 for 8.2 miles, turn right on Moffat County Road 53; go 4.0 miles, take left fork on Moffat County Road 118; go 0.7 mile turn left on trail to north; go 0.6 mile, B17-90 Anomaly lies 0.5 mile to right on top of the next ridge. B17-91, Airborne Anomaly lies about 1/4 mile south of B17-90, Airborne Anomaly, closer to the point of the ridge."

QUAD Juniper Hot Springs 7 1/2'

MAP CRAIG

DVEL An underground operation was located at this site.

BKG .01 mr/hr

RNG .025 to .4 mr/hr

HOST The host is Miocene Browns Park Formation. The bed showing maximum radioactivity is ten in. thick and a reddish- brown, fine- to medium-grained, iron-stained ferruginous cemented, calcareous sandstone containing thin layers, and finely disseminated, flakes of carbon (hydrocarbon?). This bed is underlain by lemon-yellow, fine-grained, poorly-cemented, cross-bedded sandstone showing some abnormal radioactivity.

MNZ Uranium mineralization was detected but no uranium minerals were visible.

DOI 1954


B17-93, Airborne Anomaly

LOCATION: sec. 10, T. 6 N., R. 94 W.

LCRM This deposit is 300 yds north of B17-94, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Standard Gas Stations and Cafe in Maybell, Colorado. Go east on US Highway 40 for 8.3 miles, then turn right on Moffat County Road 53; go 4.0 miles, take left fork on Moffat County Road 118; go 0.7 mile, turn left on trail to north; go 0.6 mile, B17-94 Anomaly lies 30 yds to right; go 0.1 mile; B17-93 Anomaly lies 20 yds to right in small drainage."

QUAD Juniper Hot Springs 7 1/2'

MAP CRAIG

DVEL Underground mining took place.

BKG .02 mr/hr

RNG .025 to .4 mr/hr

HOST The host is the Miocene Browns Park Formation. The maximum radioactivity occurs in a gray to yellow, fine- to coarse-grained, poorly-consolidated sandstone. Alteration bands of gray and yellow color, and minor amounts of limonite staining were noted. A three-ft sandstone strata underlying the radioactive horizon exhibits black staining and may contain minor amounts of asphaltic material or hydrocarbon minerals.

MNZ Uranium mineralization was found in the form of small grains of green to yellow unidentified uranium minerals disseminated through the sandstone.

DOI 1954


B17-94, Airborne Anomaly

LOCATION: sec. 15, T. 6 N., R. 94 W.

LCRM This deposit lies 300 yds south of Airborne Anomaly B17-93. Directions to the deposit are given as follows: "Begin log at Standard Gas Station and Cafe in Maybell, Colorado. Go east on US Highway 40 for 8.2 miles, then turn right on Moffat County Road 53; to 4.0 miles and take left fork on Moffat
County Road 118; go 0.7 mile and turn left on trail to north; go 0.6 mile; anomaly lies 30 yds to right in small tributary drainage."

B17-103, Airborne Anomaly

LOCATION: sec. 34, T. 9 N., R. 93 W.

LORIM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for three miles. Turn left through gate 100 ft east of Chevron sign; go 0.5 mile north to tar paper shack; go north to east-west fence; follow fence to northwest around base of hill to stock dam about 0.7 mile; anomaly lies at east end of stock dam."

QUAD Lay 7 1/2'

MAP CRAIG

DVEL Underground operations were located at this site.

LORIM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for three miles. Turn left through gate 100 ft east of Chevron sign; go 0.5 mile north to tar paper shack; go north to east-west fence; follow fence to northwest around base of hill to stock dam about 0.7 mile; anomaly lies at east end of stock dam."

QUAD Lay 7 1/2'

MAP CRAIG

DVEL Underground operations were carried out.

BKG .025 mr/hr

RNG .08 to .12 mr/hr

HOST The host is the Miocene Browns Park Formation. The bed showing maximum radioactivity is a gray to reddish-brown, fine-grained, well-cemented sandstone, with thin coatings of carbon and calcium carbonate on the joint surfaces. This bed is overlain and underlain by several ft of alternating blue-gray to yellow, fine- to medium-grained, poorly-cemented, calcareous beds of sandstone.

DOI 1954


B17-104, Airborne Anomaly

LOCATION: sec. 33, T. 9 N., R. 93 W.

LORIM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for 0.5 mile and turn left on Moffat County Road 17. Go 10 miles and turn left on Moffat County Road 7; go 3.5 miles turn right up faint trail on west side of northeast-southwest trending drainage. Go 0.5 mile; B17-103, Airborne Anomaly lies 20 yds to the right."

QUAD Iron Springs 7 1/2'

MAP CRAIG

DVEL Underground operations were located at this site.

BKG .02 mr/hr

RNG .03 to .22 mr/hr

HOST The host is reported to be the Tertiary Wasatch Formation. The maximum radioactivity occurs in a reddish-brown, poorly-consolidated, limonite-stained conglomerate lens of mixed composition. This lens is interbedded with lenses of iron-stained, poorly-bedded, poorly-consolidated, fine to coarse-grained sandstone.

DOI 1954

Moffat County

B17-105, Airborne Anomaly

LOCATION: sec. 33, T. 9 N., R. 93 W.

LCRM Directions to the deposit are given as follows:
"Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County Road 17; go 9.9 miles and turn left on Moffat County Road 7; go 3.5 miles, turn right off county road up faint trail on west side of north-south drainage; go 0.1 mile; anomaly lies 20 yds to right across drainage."

HOST The host is mapped as being the Tertiary Wasatch Formation. The radioactive beds are lenses of brown, limonite stained, poorly-consolidated arkosic conglomerate, interbedded with fine- to coarse-grained, limonite-stained, cross-beded, poorly-cemented lenses and beds of sandstone.

MNZ Uranium mineralization was detected, but no uranium minerals were visible.

DOI 1954


B17-106, Airborne Anomaly

LOCATION: sec. 34, T. 9 N., R. 93 W.

LCRM This anomaly lies about 1/4 mile southeast of B17-107, Airborne Anomaly, and about 1/4 mile northeast of B17-108, Airborne Anomaly. Directions to the deposit are given as follows:
"Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County Road 17; go 9.9 miles and turn left on Moffat County Road 7; go 5.3 miles, turn right through fence gate at tarp paper shack; go 1.3 miles to edge of wheat field; keep to south edge of field for 0.1 mile, turn right on trail down small southeast trending drainage; go 0.2 miles; anomaly lies 20 yds to left on point of north-south spur."

B17-107, Airborne Anomaly

LOCATION: sec. 34, T. 9 N., R. 93 W.

LCRM This location lies about 3/4 mile southeast of B17-108, Airborne Anomaly, and about 1/4 mile northeast of B17-106, Airborne Anomaly. Directions to the deposit are given as follows:
"Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile, turn left on Moffat County Road 7; go 9.9 miles and turn left on Moffat County Road 17; go 9.9 miles and turn left on Moffat County Road 7; go 5.3 miles, turn right through fence gate at tarp paper shack; go 1.3 miles to edge of wheat field; keep to south edge of field for 0.1 mile, turn right on trail down small southeast trending drainage; go 0.2 miles; anomaly lies 20 yds to left; Anomaly 107 lies 100 yds northeast on another small spur."

B17-108, Airborne Anomaly

LOCATION: sec. 27, T. 9 N., R. 93 W.

LCRM B17-106 and B17-107, Airborne Anomaly, lie to the southeast of this anomaly. Directions to the deposit are given as follows:
"Begin log at Texaco Station in Lay, Colorado. Go east on US Highway 40 for 0.5 mile; turn left on Moffat County Road 17; to 9.9 miles, turn left on Moffat County Road 7; go 5.3 miles, turn right through fence gate at
tor paper shack; go 1.3 miles east of field; anomaly lies 0.2 mile to northeast on small knoll in center of field."

**QUAD** Iron Springs 7 1/2'
**MAP** CRAIG
**BKG** .02 mr/hr
**RNG** .04 to .05 mr/hr

**HOST** The host is the Tertiary Wasatch Formation. The maximum radioactivity occurs in a gray to buff, silty, sandy, arkosic conglomerate.

**MNZ** No uranium minerals are visible.

**DOI** 1954

**B17-109, Airborne Anomaly**

**LOCATION:** sec. 32, T. 9 N., R. 94 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County Road 19 for 13 miles, take right fork on Moffat County Road 6; go 2.8 miles, take right fork on Moffat County Road 8. Go 2.5 miles, turn left a fence gate at corner of wheat field; go 0.3 mile; anomaly lies on knob to left between wheat field and road."

**QUAD** Adobe Springs 7 1/2'
**MAP** CRAIG
**DVEL** Surface workings are present.
**BKG** .015 mr/hr
**RNG** .03 to .045 mr/hr

**HOST** The host is the Tertiary Wasatch Formation. The abnormal radioactivity occurs in a weathered, iron-stained, brown to gray, poorly-sorted, fine- to coarse-grained sand.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954

**B17-110, Airborne Anomaly**

**LOCATION:** sec. 23, T. 9 N., R. 94 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County Road 19 for 13.0 miles and take right fork on Moffat County Road 6; go 2.8 miles, take right fork on Moffat County Road 8; go 6.2 miles, turn left on Moffat County Road 111; go 2.0 miles across drainage. Go 0.1 mile, take right fork; go 0.4 mile, take faint trail to right; go 0.1 mile, cross small drainage; anomaly lies on low ridge straight ahead."

**QUAD** Adobe Springs 7 1/2'
**MAP** CRAIG
**BKG** .015 mr/hr
**RNG** .02 to .045 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a brown, poorly-consolidated, slightly arkosic, fine- to coarse-grained sandstone.

**MNZ** No uranium minerals were visible.

**DOI** 1954

**B17-111, Airborne Anomaly**

**LOCATION:** sec. 10, T. 9 N., R. 93 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for 0.5 mile; turn left on Moffat County Road 17; go 10.0 miles, turn left on Moffat County Road 7; go 10.0 miles to settlement of Great Divide, turn right at Conoco gas pump; go 3.2 miles turn right off main road; go 1.0 mile take right fork and follow main road; go 1.4 mile take right fork; go 0.6 mile, turn right and follow intermittent trail along north-south ridge; go 0.6 mile; anomaly lies 50 ft to west of dim trail just off crest of ridge."

**QUAD** Great Divide 7 1/2' or Iron Springs 7 1/2'
**MAP** CRAIG
**DVEL** Surface mining was carried out.
**BKG** .02 mr/hr
**RNG** To .07 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. This anomaly occurs in a brown, weathered, slightly arkosic, poorly-sorted sand.

**MNZ** Uranium mineralization was detected, but no uranium minerals were identified.

**DOI** 1954

**B17-112, Airborne Anomaly**

**LOCATION:** sec. 3, T. 9 N., R. 93 W.

**LCRM** B17-113, Airborne Anomaly lies approximately 1/4 mile north of this anomaly, while B17-114, Airborne Anomaly lies approximately 1/4 mile south of this anomaly. Directions to the deposit are given as follows: "Begin log at Texaco Station in Lay, Colorado; go east on US Highway 40; 0.5 mile; turn left on Moffat County Road 17; go 10.0 miles, turn left on Moffat County Road 7; go 10.0 miles to Great Divide settlement; turn right at Conoco gas pump; go 1.2 miles to drainage with large drain pipe under road; anomaly lies 3/4 mile to the right on a north-south trending ridge."

**QUAD** Great Divide 7 1/2'
**MAP** CRAIG
**DVEL** Surface and underground mining was carried out.
**BKG** .02 mr/hr
**RNG** .03 to .05 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a weathered, brown, moderately well-cemented, arkosic conglomerate.

**MNZ** Uranium mineralization was detected, but no uranium minerals were found.

**DOI** 1954
B17-113, Airborne Anomaly

LOCATION: sec. 3, T. 9 N., R. 93 W.

LCRM B17-112, Airborne Anomaly lies approximately 1/4 mile south of this anomaly and B17-114, Airborne Anomaly lies approximately 1/2 mile south of this anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station at Lay, Colorado; go east on U.S. Highway 40, 0.5 mile and turn left on Moffat County road 17. Go 10 miles and turn left on Moffat County road 7; go 10.0 miles to the Great Divide Settlement and turn right at Conoco gas pump; go 1.2 miles to drainage with large drain pipe under road. Anomaly lies 1/2 mile to right on north-south trending ridge."

QUAD Great Divide 7 1/2'

MAP CRAIG

DVEL Several small holes have been dug.

BKG .02 mr/hr

RNG .03 to .04 mr/hr

HOST The host is mapped as the Tertiary Wasatch Formation. The abnormal radioactivity occurs in a weathered, brown, silty, fine-to-coarse-grained, moderately well-cemented sandstone. This bed is overlain by a thin bed of arkosic conglomerate.

MNZ No uranium minerals were visible.

DOI 1954


B17-114, Airborne Anomaly

LOCATION: sec. 3, T. 9 N., R. 93 W.

LCRM B17-113, Airborne Anomaly lies approximately 1/2 mile north of the anomaly and B17-112, Airborne Anomaly lies approximately 1/4 mile north. Directions to the deposit are given as follows: "Begin log at Lay, Colorado at Texaco station; go east on U.S. Highway 40 for 0.5 mile; turn left on Moffat County Road No. 17; go 10.0 miles, turn left on Moffat County road No. 7; Go 10.0 miles to Great Divide Settlement; turn right at Conoco gas pump. Go 1.2 miles to drainage along side large drain pipe under road. Anomaly lies one mile to right on north-south trending ridge."

QUAD Great Divide 7 1/2'

MAP CRAIG

DVEL The host is reported to be the Tertiary Wasatch Formation. The abnormal radioactivity occurs in a weathered, brown, intensely iron-stained, moderately well-cemented, arkosic conglomerate.

MNZ Uranium mineralization was found, but no uranium minerals were visible.

DOI 1954


B17-115, Airborne Anomaly

LOCATION: sec. 14, T. 9 N., R. 93 W.

B17-118, Airborne Anomaly

LOCATION: sec. 32, T. 10 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Lay, Colorado at Texaco Station. Go east on US Highway 40 for 0.5 mile and turn left on Moffat County Road 17; go 10 miles and turn left on Moffat County Road 7; continue to junction of Moffat County Roads 7 and 6. Return 0.1 mile south of this junction; take road to east; go 0.7 mile, take right fork; go 0.7 mile; make left turn; go 1.0 mile to road angling to right. Anomaly lies 100 ft to left on a low, east-west ridge."

QUAD Iron Springs 7 1/2'

MAP CRAIG

DVEL Surface and underground workings are present. A small three ft pit was dug.

BKG .02 mr/hr

RNG .04 to .18 mr/hr

HOST The host is mapped as the Tertiary Wasatch Formation. The maximum radioactivity occurs in a brown to yellow, iron-stained, poorly-cemented, arkosic conglomerate.

MNZ Uranium mineralization was found, but no uranium minerals were visible.

DOI 1954

turn left on Moffat County Road 17. Go 10.0 miles, turn left on Moffat County Road 7; go 11.1 miles, take left fork at bridge; go 1.9 miles, turn left at cattle guard; go 0.5 mile; turn sharp left; go 0.6 mile to corral; go 0.2 mile to end of road; turn up dim trail on north-south drainage bank; go to fence. Anomaly lies 1/2 mile southeast on top of hill."

**BKG**.02 mr/hr

**RNG**.03 to .07 mr/hr

**HOST** The host is mapped as being the Tertiary Wasatch Formation. The anomaly occurs in a slightly arkosic, buff to brown, fine- to coarse-grained, cross-bedded, moderately well-cemented, limonite-stained, slightly arkosic sandstone. Some thin lenses of conglomerate are present.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954


**B17-119, Airborne Anomaly**

**LOCATION:** sec. 32, T. 10 N., R. 93 W.

**LCRM** This anomaly lies approximately 1/4 mile north of B17-120, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado; go east on U.S. Highway 40 for 0.5 miles and turn left on Moffat County road No. 17; go 10.0 miles, turn left on Moffat County road No. 7; go 11.1 miles through settlement of Great Divide and take left fork at bridge; go 1.9 miles, turn left at cattle guard; go 0.3 mile, make sharp left turn; go 0.6 mile to corral at fence gate; go 0.3 mile to road end; Anomaly lies 175 ft to southeast on east bank of north-south drainage."

**QUAD** Great Divide 7 1/2'

**MAP** CRAIG

**BKG**.02 mr/hr

**RNG**.03 to .07 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. The main anomaly occurs in a yellow, buff to brown, fine- to coarse-grained, cross-bedded, moderately well-cemented, limonite-stained, slightly arkosic sandstone. Some thin lenses of conglomerate are present.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954


**B17-120, Airborne Anomaly**

**LOCATION:** sec. 32, T. 10 N., R. 93 W.

**LCRM** This anomaly lies approximately 1/4 mile south of B17-119, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado; go east on U.S. Highway 40 for 0.5 mile; turn left on Moffat County road 17; go 10.0 miles, turn left on Moffat County road 7; go 11.1 miles through the settlement of Great Divide and take left fork at the bridge and go 1.9 miles; turn left at cattle guard; go 0.3 mile, make sharp left turn; go 0.6 mile to corral at fence gate; go 0.2 mile to end of road; anomaly lies 300 ft southeast on east side of north-south drainage."

**QUAD** Great Divide 7 1/2'

**MAP** CRAIG

**BKG**.02 mr/hr

**RNG**.03 to .07 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a yellow, buff to brown, fine- to coarse-grained, cross-bedded, moderately well-cemented, limonite-stained, slightly arkosic sandstone. Some thin lenses of conglomerate are present.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954


**B17-122, Airborne Anomaly**

**LOCATION:** sec. 29, T. 10 N., R. 93 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado; go east on US Highway 40 for 0.5 mile; turn left on Moffat County Road 17; go 10.0 miles,
end of trees parallel to fence; go 0.1 mile, turn right through fence in front of farm house; anomaly lies on point of low ridge on east side of north-south trending drainage.)

QUAD Great Divide 7 1/2
MAP CRAIG
BKG .015 mr/hr
RNG .05 to .08 mr/hr
HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a poorly-consolidated, brown, poorly-sorted, slightly arkosic sandstone.
MNZ Uranium mineralization was detected but no uranium minerals were visible.
DOI 1954

B17-125, Airborne Anomaly

LOCATION: sec. 26, T. 11 N., R. 93 W.
LCRM Directions to the deposit are given as follows:
"Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 miles, turn left on Moffat County road 17; go 10.0 miles, turn left on Moffat County road 7; go 11.0 miles through settlement of Great Divide, turn right on Moffat County road 9; go 8 miles on main road; anomaly lies 800 ft to left on top of low ridge."
QUAD Great Divide 7 1/2
MAP CRIAG
BKG .015 mr/hr
RNG .045 to .06 mr/hr
HOST The host is mapped as the Tertiary Wasatch Formation. The main anomaly occurs in a thin surface mantle of buff to light brown, slightly arkosic gravel. This mantle covers beds of white to red to brown, iron-stained, fine-grained sandstone. Radiometric readings increase with depth.
MNZ Uranium mineralization was detected, but no uranium minerals were visible.
DOI 1954

B17-126, Airborne Anomaly

LOCATION: sec. 9, T. 10 N., R. 94 W.
LCRM Directions to the deposit are given as follows:
"Begin log at Texaco station at Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile, turn left on Moffat County road 17; go 11 miles, take left fork at small bridge just north of settlement of Great Divide; go 6 miles to old windmill on right, turn left up trail on west side of drainage. Go 2.5 miles, turn right on very faint trail for 0.4 mile. Turn left off trail and keep on top of ridge. Go 0.8 mile to major fork in drainage; anomaly lies 300 ft to northeast."
QUAD Mayberry Spring 7 1/2
MAP CRAIG
BKG .015 mr/hr

MOFFAT COUNTY

turn left on Moffat County Road 7; to 11.1 miles through settlement of Great Divide and take left fork at bridge. Go 1.9 miles, turn left at cattle guard; go 0.5 miles, make sharp left turn; go 0.8 mile to end of road. Anomaly lies 150 yds to left on east side of small tributary with northeast-southwest drainage."

QUAD Great Divide 7 1/2
MAP CRAIG
DVEL Surface and underground workings are present.
BKG .02 mr/hr
RNG .03 to .07 mr/hr
HOST The anomaly occurs in what appears to be a stream deposited sand. It could possibly be a part of the Tertiary Wasatch Formation. The sand is light brown, unconsolidated, alluvial and micaceous. A considerable quantity of heavy, black mineral grains was noted. The sand is about 20 ft thick.
MNZ Uranium mineralization was detected, but no minerals were visible.
DOI 1954

B17-124, Airborne Anomaly

LOCATION: sec. 19, T. 9 N., R. 93 W.
LCRM Directions to the deposit are given as follows:
"Begin log at Texaco station at Lay, Colorado; go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County road 17; Go 10.0 miles and turn left on Moffat County road 7; go 4.5 miles, turn left on Moffat County road 6; go 2.4 miles, turn left at row of trees; go 1.2 miles, turn left at
**Moffat County**

**B17-127, Airborne Anomaly**

**LOCATION:** sec. 4, T. 9 N., R. 94 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County road 19 for 13 miles, take right fork on Moffat County road 6; go 5.8 miles, take left fork; go 1 mile, take left fork; go 3.1 miles to farm buildings, turn left on faint trail on south side of creek; go 0.8 mile to fence gate; go 0.2 mile, cross drainage of shack; anomaly lies on low ridge next to drainage 1/2 mile to the northwest."

**QUAD** Mayberry Spring 7 1/2'

**MAP** CRAIG

**BKG** .015 mr/hr

**RNG** .03 to .07 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a brown, coarse-grained, iron-stained placer sand. Small amounts of heavy black minerals are present.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954


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**B17-128, Airborne Anomaly**

**LOCATION:** sec. 4, T. 9 N., R. 94 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County road 19 for 3 miles; take left fork on Moffat County road 6; go 5.8 miles, take left fork; go 1 mile, take left fork; go 3.1 miles to farm buildings, turn left on faint trail on south side of creek; go 0.8 mile to fence gate; go 0.2 mile, cross drainage of shack; anomaly lies 1/2 mile to right across drainage on top of terrace."

**QUAD** Mayberry Spring 7 1/2'

**MAP** CRAIG

**BKG** .015 mr/hr

**RNG** .03 to .07 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a brown, coarse-grained, iron-stained, slightly arkosic placer sand. Small amounts of heavy black minerals are present.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954


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**B17-129, Airborne Anomaly**

**LOCATION:** sec. 8, T. 10 N., R. 93 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County road 17; go 10 miles and turn left on Moffat County road 7; go 11.1 miles through settlement of Great Divide, take left fork at bridge; go 1.9 miles, turn right at cattle guard; go 4 miles; at farm house take trail south along east side of wheat field for 0.4 mile; anomaly lies on low north-south trending ridge 600 ft to left."

**QUAD** Great Divide 7 1/2'

**MAP** CRAIG

**BKG** .015 mr/hr

**RNG** .025 to .07 mr/hr

**HOST** The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a brown, fine- to coarse-grained, slightly arkosic sand and coarse gravel which mantles the area. Underlying this mantel are thin beds of gray to iron-brown, fine- to coarse-grained sandstone.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954


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**B17-130, Airborne Anomaly**

**LOCATION:** sec. 22, T. 8 N., R. 96 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado; go north on Moffat County road 19 for 8.4 miles; turn left on trail just past old farm house; go 1.8 miles; turn left and cross drainage; go 0.3 mile, take left fork; go 0.4 mile, turn left and cross drainage; go 0.3 mile, turn left on caterpillar road to top of hill; go 0.7 mile, take left fork and follow caterpillar road; go 1.4 miles. Anomaly lies 350 ft to left among trees on side of ridge."

**QUAD** Maybell 15'

**MAP** VERNAL

**BKG** .015 mr/hr

**RNG** .03 to .045 mr/hr

**HOST** The host is the Tertiary Wasatch Formation. The maximum radiometric readings occur in a brown, fine-grained, well-cemented, silty sandstone. Small amounts of carbonaceous trash lie along the bedding planes.

**MNZ** Uranium mineralization was detected, but no uranium minerals were visible.

**DOI** 1954


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**B17-95, Airborne Anomaly (Cedars Mining Company Claim No. 1)**

**LOCATION:** NW1/4NE1/4NW1/4 sec. 9, T. 6 N., R. 94 W.

**LCRM** This anomaly lies approximately 1/4 mile north of B17-96, Airborne Anomaly (Cedars...
Moffat County

Mining Company property). Directions to the deposit are given as follows: "Begin log at Standard Station and Cafe at Maybell, Colorado. Go east 8.2 miles on U.S. Hwy 40, turn right on Moffat County road 53. Then go 27 miles; turn left on caterpillar road at exploration trench; go 0.3 mile; anomaly lies 20 yds to right in small drainage."

B17-96, Airborne Anomaly (Cedars Prospect, Cedars Mining Company Claim No. 1, Sec. 10)

LOCATION: SW1/4NE1/4NW1/4 sec. 9, T. 6 N., R. 94 W.

LCRM The maximum radioactive material was found in a 2 ft thick bed of reddish-brown, fine-grained, iron-stained, ferruginous-cemented, slightly calcareous sandstone. Beds above and below the radioactive horizon are gray to yellow, fine-grained, poorly-consolidated, calcareous sandstones.

MNZ Uranium mineralization was detected, but no uranium minerals were visible.

DOI 1954


Biles' Shaft

LOCATION: sec. 31, T. 4 N., R. 100 W.

LCRM Directions to the deposit are given as follows: "From Vernal, Utah, at intersection of U.S. Highway 40 and Utah State Highway 44, drive east on U.S. Highway 40 for 57.2 miles; turn left through steel gate and drive 0.3 mile, right 0.4 mile to Biles' Shaft."

STRC The prospect is on the south flank of the Red Wash anticline. The beds strike N47°W and dip 60°S. There is a conspicuous fracture that cuts the bedding at approximately 90°, but it has no obvious relationship to mineralization.

MNZ The mineralization is associated with the carbonaceous material in the sandstone, but no uranium minerals are megascopically visible.

DOI 1955


Bimbo 1

LOCATION:

LCST UNLOCATABLE

LCRM This deposit is located in the Sand Wash Basin.

PROD By 1971, one ton of ore had been mined at a grade of 0.05% U3O8, producing one lb of U3O8.

HOST The host is the early Tertiary Wasatch Formation. Uranophane was present.

MNZ There are abundant yellow unidentified uranium minerals coating the sandstone and quartzite fragments.

DOI 1971


Blue Mountain Group (Blue Mountains 4, Skull Creek Carnotite Deposit)

LOCATION: N1/2NE1/4 sec. 35, T. 4 N., R. 101 W.

QUAD Gilliam Draw 7 1/2'

PROD From the Blue Mountains 4, as of 1971, 254 tons had been mined at grades of 0.21% U3O8 and 1.02% V2O5, producing 1,084 lbs of U3O8 and 5,158 lbs of V2O5.
Bob Cat Group

LOCATION: S1/2 sec. 2, T. 7 N., R. 93 W.
QUAD Lay SE 1/4
HOST The deposit lies in the Miocene Browns Park Formation.
MNZ Uranium mineralization was noted.
RMKS This deposit is located in the Maybell mining district.
DOI 1973

Breadline

LOCATION: UNLOCATABLE
ROD As of 1971, 8 tons of ore were mined at grades of 0.09% U3O8 and 3.38% V2O5, producing 15 lbs of U3O8 and 541 lbs of V2O5.
DOI 1971

Buffalo Head Prospect (Buffalo Head Mining Co. Claim No. 0)

LOCATION: NE1/4SW1/4 sec. 29, T. 7 N., R. 94 W.
LCRM Directions to the deposit are given as follow: "Drive east on U.S. Highway 40 for 7.7 miles from the Maybell, Colorado store. Turn left through a gate and go 1.2 miles. Turn left and drive 0.1 mile. Turn left and go 0.3 mile. Turn left and drive 1.0 miles, take a trail going left 0.3 mile. The deposit lies 300 yrs to the southeast on a foot path."
QUAD Lay 7 1/2'
DVEL The mine was an underground operation. There is at least one trench, and some drilling was done in 1954.
PROD As of 1971, 96 tons had been mined at grades of 0.11% U3O8, producing 206 lbs of U3O8, and 0.01% V2O5, producing 10 lbs of V2O5.
BKG .04 mr/hr
RNG .16 to .4 mr/hr
HOST The host is the Miocene Browns Park Formation. It is composed of white to gray to buff, interbedded sandstones and siltstones. A 24-in. bed of fine-grained, massive sandstone contains most of the radioactivity.
ALT Moderate alteration shows along fractures and joint planes, and heavy iron staining is present. The alteration has caused the sand grains to be a green color.
MNZ Uranium mineralization was noted, and uranophane was identified.
RMKS This deposit is located in the Maybell mining district.
DOI 1954

Butler Lease

LOCATION: SW1/4SW1/4 sec. 30, T. 8 N., R. 91 W.
DVEL The mining was done in by shallow open pit. The average depth of ore was six ft.
PROD As of 1971, 1,085 tons of ore were mined at a grade of 0.20% U3O8, producing 4,392 lbs of U3O8.
HOST The host is the early Tertiary Wasatch Formation.
MNZ Uranophane was recognized.
DOI 1971

Cacey Machelheny Claims

LOCATION: sec. 12, T. 10 N., R. 101 W.
LCRM The deposit extends to sec. 11-14.
QUAD Irish Canyon 7 1/2'
DVEL The mining was primarily done by underground workings. A few bulldozer cuts were made.
BKG .015 mr/hr
RNG .05 to .08 mr/hr
HOST The host is described as being a sandstone in the Jurassic Morrison Formation. The beds strike N30°W, and dip 80°E.

266
STRC The beds were uplifted on the flanks of the Cold Springs Mountains.
MNZ Uranium mineralization was noted but no visible uranium minerals were seen. Grab samples showed up to three times background radioactivity, increasing in the presence of fossils and other carbonaceous trash. Iron and manganese concretions are present.
DOI 1954

Carol J. Claims

LOCATION: sec. 2, T. 5 N., R. 96 W.
LCRM Directions to the deposit are given as follow: "Beginning at Maybell, Colorado, go 1.8 mile east on Highway U.S. 40; turn right onto county road 57 and go 10.4 miles, turn right on poor dirt road and go 0.1 mile to creek crossing and continue on the same road 1.1 mile, turn right at fork and go 0.3 mile; turn right and go 0.5 mile to west property line of Carol J. Claims."
QUAD Citadel Plateau
BKG .02 to .04 mr/hr
RNG .10 to .20 mr/hr
HOST The host is the Miocene Browns Park Formation. The radioactivity occurs in a series of interbedded, hard, buff, very fine-grained, rounded grained, calcareous sandstones, and soft, friable, buff to gray, non-calcerous siltstone beds. The highest radioactivity readings were in a siltstone that showed abundant ilomite staining.
MNZ Uranium mineralization was noted, but no visible uranium minerals were seen.
DOI 1955

Coal Ridge

LOCATION: T. 4 N., R. 101 W.
LCST UNLOCATABLE
QUAD Skull Creek 7 1/2' or Lazy Y Point 7 1/2'
HOST The radioactivity occurs in a lignite bed of the Upper Cretaceous Lower liles Formation of the Masarvede Group.
MNZ Samples averaging 0.081% U308, with maximums to 0.40% U308 were taken.
DOI 1977

Doc Armor Mine

LOCATION: S1/2N1/2 sec. 33, T. 8 N., R. 91 W.
DVEL This was a shallow open pit mine.
PROD As of 1971, 784 tons of ore had been mined at grades of 0.13% U308 and 0.01% V205, producing 2,016 lbs of U308 and 131 lbs of V205.
HOST The deposit lies in the Eocene Wasatch Formation.
MNZ Carnotite - tyuyamunite - type mineralization was recognized.
DOI 1971

Epsilon Claims No. 3, (56-14, Airborne Anomaly)

LOCATION: sec. 18, T. 7 N., R. 92 W.
LCRM This anomaly is approximately 2,000 ft southeast of Airborne Anomaly 56-13. Directions to the deposit are given as follows: "Beginning at Craig, Colorado, go 12.5 miles west on US Highway 40. Turn right off Highway 40 onto Moffat County Road 15 and go 0.8 miles, turn left and go 1.7 miles. The anomalous area is on top of a rounded ridge 0.7 mile east."
QUAD Lay SE 7 1/2'
MAP CRAIG
DVEL Underground mining was carried out. Two small open pits are located on Epsilon Claim No. 3.
BKG .015 mr/hr
RNG .03 to .10 mr/hr
HOST The host rock is Miocene Browns Park Formation. It is a gray to buff, fine- to medium-grained sandstone and siltstone with locally abundant ilomite staining, and some CaCO3 cementation.
MNZ Uranium mineralization was found, although it was not megascopically visible. It appears to be associated with the ilomite staining.
DOI 1955

Cieta Group

LOCATION: sec. 26, T. 4 N., R. 101 W.
LCRM This deposit is located in the Skull Creek area.
PROD As of 1971, 19 tons of ore had been mined at a grade of 0.11% U308, producing 42 lbs of U308.
HOST The host is the Jurassic Carmel Formation.
DOI 1971

Eskridge Property

LOCATION: sec. 22, T. 7 N., R. 93 W.
QUAD Lay SE 7 1/2'
DVEL There was no production on this property.
HOST The host is the Miocene Browns Park Formation.
MNZ Uranium mineralization was recognized.
REF The property lies in the Lay mining district.
DOI 1973
Farnsworth Uranium Deposit (Housel Gulch Placer, Pardee, Friendship, Mapie, Sage Hen, Housel Gold Placer Mine, Pal, Greyhound Leases)

**LOCATION:** sec. 9, T. 9 N., R. 92 W.

**LCRM** The deposit also extends to sec. 4.

**QUAD** East Timberlake Creek 7 1/2'

**HOST** The host is the Eocene Watsatch Formation.

**MNZ** Uranium, thorium and vanadium mineralization is present, with ilmenite and monazite recognized in black sands on the property.

**DOI** 1975


**Fly Claims (Iles Formation)**

**LOCATION:** NE 1/4 NW 1/4 sec. 17, T. 3 N., R. 101 W.

**LCRM** There are also claims in sec. 7, 8, 16, and 18, all on or near Coal Ridge.

**QUAD** Rangely NE 7 1/2'

**RNG** 2,000 to 5,000 cps

**HOST** The host is a fine-grained sandstone and thinly bedded lignite of the Upper Cretaceous Iles Formation. The mineralization occurs in the lignite near contacts with the sandstone. The lignite becomes barren as the distance from that contact increases.

**STRC** The beds dip 58° to 65° S., and strike N65° W.

**ALT** The sandstone has been bleached.

**MNZ** There is irregular secondary mineralization with visible carnottite or autunite in the sandstones. Assays show values of 0.034% U3O8 in the sandstones and 0.051% U3O8 in the lignite.

**DOI** 1977


Gertrude Mine (Gertrude No. 5 and No. 6 Claims)

**LOCATION:** NW 1/4 NE 1/4 sec. 17, T. 7 N., R. 94 W.

**LCRM** Directions to the deposit are given as follows: "Drive 3.7 miles west of Lay, Colorado on U.S. Hwy 40. Turn right onto a trail, go through a gate, and drive 2.8 miles to a fork in the road. Take the left fork and drive 1.1 miles to the deposit."

**QUAD** Lay 7 1/2'

**PROD** As of 1971, 355,332 tons of ore were mined at a grade of 0.12% U3O8, producing 785,329 lbs of U3O8.

**BKG** .02 mr/hr

**RNG** .05 to 4.5 mr/hr

**HOST** The mine lies in the Miocene Browns Park Formation. The host is a light gray to buff, friable, fine- to medium-grained sandstone. It is more than 700 ft thick at this point, and rests with an angular unconformity on the older sediments. The ore occurs in flat, irregular lenses ranging in depth from 6 to 200 ft.

**STRC** The beds strike N60°E and dip 10° SE. Four faults, showing displacements ranging from 1 to 2 ft, strike N50° - 70° W.

**MNZ** Urenophane and meta-autunite are the important ore minerals in the oxidized zone. Coffinite was the only mineral identified in the oxidized zone. Channel samples assayed 0.212% to 0.236% U3O8 and between 0.212% and 0.543% U3O8.

**DOI** 1956


Glory Bee

**LOCATION:** sec. 5, T. 3 N., R. 101 W.

**LCRM** This deposit lies in the Skull Creek district.

**PROD** As of 1971, 17 tons of ore were mined at grades of 0.04% U3O8 and 0.16% V2O5, producing 15 lbs of U3O8 and 16 lbs of V2O5.

**HOST** The host is the Jurassic Curtis Formation.

**MNZ** Copper minerals and brown iron oxide minerals were found associated with carbonaceous material and uranium minerals in the radioactive zone.

**DOI** 1971


Golden Grain Claims

**LOCATION:** sec. 30, T. 8 N., R. 91 W.

**LCRM** Directions to the deposit are given as follows: "From the junction of US Hwy 40 and State Secondary road 355 west of Craig, Colorado, drive north on the main travelled road 8.5 miles to the Butler Ranch. Turn left through the Butler Ranch and follow a winding road through a wheat field 1.5 miles to the Golden Grain Claims. The anomaly is located on Claim No. 2."

**QUAD** Pine Ridge 7 1/2' or Craig NW 7 1/2'

**BKG** .05 to 10.0 mr/hr

**RNG** .08 to 10.0 mr/hr

**HOST** The host is an outlier of the Miocene Browns Park Formation. The anomalous radioactivity occurs in a dark buff to brown, medium-grained, iron-stained, poorly consolidated member of the formation.

**MNZ** Uranium mineralization was recognized. A light green to yellow fluorescent uranium mineral coats sand grains and is disseminated throughout the sandstone.

**DOI** 1955


Hazel Whetstone Property

**LOCATION:** sec. 27, T. 7 N., R. 94 W.

**LCRM** Directions to the deposit are given as follows: "Begin log at junction of Moffat County Road 53 and US Hwy 40, 8.0 miles east of Maybell, Colorado. Go east on US. Hwy 40 for 0.6 miles. The property lies in a narrow gulch trending north and south. A bladed road and some mine workings may be seen at the head of the gulch. The gulch lies one-quarter of a mile north of the highway."
Moffat County

Lay 7 1/2',

BKG .015 mr/hr

RNG .03 to .2 mr/hr

The host is the Miocene Browns Park Formation. The maximum radioactivity occurs in a six ft bed of blue, fine- to medium-grained quartzite. The rock is intensely iron stained along fracture surfaces.

Lay 7 1/2',

BKG .015 mr/hr

RNG .05 to .07 mr/hr

The host is the Miocene Browns Park Formation. The anomaly occurs in an iron cemented, brown conglomerate. Slightly abnormal radioactivity was noted in thin, irregular lenses of green to yellow sandstones which underlie the conglomerate bed.

Hummimg Bird Claim (B17-100, Airborne Anomaly)

LOCATION: NW1/4SE1/4 sec. 15, T. 7 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "Begin log at junction of U.S. Hwy 40 and Moffat County road 53 west of Lay, Colorado. Go west on U.S. Hwy 40 for 0.1 mile, turn right through fence gate; go 0.7 mile, turn left through fence; go 0.5 mile, take right fork through fence; go 1.0 mile, turn right on faint trail along fence; go 0.5 mile to fence corner, turn left along fence for 0.2 mile; anomaly lies one-half mile to the right at the base of Sugar Loaf Mountain."

QUAD Lay 7 1/2'

BKG .015 mr/hr

RNG .025 to .045 mr/hr

The host is the Miocene Browns Park Formation. The deposit occurs in a brown to white, fine- to coarse-grained, calcareous sandstone. The alluvium is underlain by a flat-lying white, calcareous, fine- to coarse-grained sandstone.

Iron and Copper Claims

LOCATION: sec. 14, T. 7 N., R. 94 W.

LCRM Directions to the property are given as follows: "From the Standard service station in Maybell, Colorado, drive north on a county road 1.6 miles; turn right and go 1.4 miles; turn left and drive 1.0 mile, turn right and go 1.3 mile to a wash, follow the bottom of the wash north 1.6 mile to the discovery area."

QUAD Maybell 15'

BKG .015 mr/hr

RNG .05 to .07 mr/hr

The host is the basal conglomerate of the Miocene Browns Park Formation. The maximum radioactivity occurred in a fine-grained sand lens within the igneous pebble conglomerate.

Hudson Claim Group

LOCATION: sec. 8, T. 7 N., R. 95 W.

LCRM Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County Road 19 for 3.5 miles; turn right at wrecked car body; go 0.2 miles, turn left on trail to north; go 1.2 miles, turn left at pile of tin cans; go 0.4 miles, take right fork; go 0.1 mile; anomaly lies here."


John D. 11 & 12

LOCATION: UNLOCATABLE
PROD No production was reported for these claims.
HOST The deposit lies in the Miocene Browns Park Formation.
MNZ Mineralization of the uraninite (coffinite) type was recognized.
DOI 1971

John D. 8 & 9

LOCATION: UNLOCATABLE
PROD No production was reported for these claims.
HOST The host is the Miocene Browns Park Formation.
MNZ Uraninite (coffinite) type mineralization is present.
DOI 1971

Johnson Lease (Johnson MCS)

LOCATION: sec. 19, T. 7 N., R. 94 W.
QUAD Lay 7 1/2'
PROD As of 1971, 16,984 tons of ore were mined at grades of 0.25% U3O8 and 0.00X% V2O5, yielding 89,046 lbs of U3O8 and 109 lbs of V2O5.
HOST The deposit lies in the Miocene Browns Park Formation.
MNZ Uranium/vanadium minerals are present, and uraninite and/or coffinite.
DOI 1971

Lay-Governor Groups

LOCATION: sec. 11, T. 7 N., R. 94 W.
QUAD Lay 7 1/2'
MNZ Uranium mineralization was found.
DOI 1975

Leon Claims

LOCATION: sec. 8, T. 6 N., R. 91 W.
LCRM Directions to the deposit are given as follows: "From Maybell, Colorado, go 3.9 miles east on US 40; turn right and go 3.2 miles on Axial Trail to anomaly."
QUAD Round Bottom 7 1/2' or Castor Gulch 7 1/2'
BKG .04 mr/hr
RNG .03 to 2.5 mr/hr
HOST The anomalous area is located in the Miocene Browns Park Formation. The mineralization occurs in a fine- to medium-grained, poorly sorted, calcareous, buff sandstone member of the Basal Conglomerate. Hematite staining is dominant in a zone 6 in. above the mineralization.
STRC The formation strikes N45W and dips 13°NE.

Little Snake No. 2 (B17-35, Airborne Anomaly)

LOCATION: sec. 1, T. 11 N., R. 95 W.
LCRM The deposit may also extend to sec. 12. Directions to the deposit are given as follows: "From Baggs, Wyoming, drive south on Wyoming and Colorado State Highway 789 for 4.7 miles, turn right onto graded Moffat County Highway 4 and continue on this road for 22.8 miles; turn sharply left and follow dirt road for 1.1 mile."
QUAD Nipple NE 7 1/2'
BKG .01 to .018 mr/hr
RNG .05 to .15 mr/hr
HOST Slight anomalous radioactivity was detected in a black to brown, iron-stained sandstone layer in the Eocene Wasatch Formation. The formation is comprised of interbedded gray to purple siltstones and mudstones with a few thin, fine- to medium-grained sandstone layers. Siliceous, iron stained fracture coatings and concretions are abundant.
MNZ Uranium mineralization was recognized, but no visible uranium minerals could be found. Abundant limonite and hematite staining was noted in the area.
DOI 1955

Little Star (Little Star Claims, CRIB Unnamed)

LOCATION: NW1/4SE1/4SW1/4 sec. 27, T. 5 N., R. 100 W.
LCRM Directions to the deposit are given as follows: "From Elk Springs, Colorado, drive west on U.S. Hwy 40 for 0.1 miles. Turn right and drive 0.9 miles on Moffat County 16. Turn left and drive 0.4 miles to discovery area."
QUAD M F Mountain 7 1/2'
PROD As of 1971, 1,671 tons of ore had been mined at grades of 0.23% U3O8 and 0.21% V2O5, producing 7,597 lbs of U3O8 and 7,017 lbs of V2O5.
RNG .6 to 4.0 mr/hr
HOST The deposit occurs in the Permian-Pennsylvanian Weber Formation. A highly fractured, mineralized sandstone roll contains abundant carnitite grains disseminated in the sandstone. Vanadium content increases and radiactivity decreases with increasing distance from the face of the roll.
STRC A sharp reversal in the attitude of the bedding one-half mile south of this occurrence indicates the presence of large scale faulting. The beds here dip 40°SW and strike N68°W.
MNZ Carnotite and/or tyuyamunite was identified. A close relationship between mineralization

270
Lucky Boy (Lucky Claim)

LOCATION: sec. 13, T. 7 N., R. 96 W.

LCRM Directions to the deposit are as follows: "Drive north of Maybell, Colorado on Moffat County road 19, 4.1 miles. Turn left on the old Oregon Trail and drive 1.9 miles to the bottom of a short steep hill. The discovery pit lies 300 yds east across a wash." The deposit lies in the Maybell-Lay area.

QUAD Maybell 15

PROD One ton of ore had been mined as of 1971, at grades of 0.20% U3O8 and 1.00% V2O5, producing four lbs of U3O8 and 20 lbs of V2O5.

BGK .03 mr/hr

RNG .05 to 1.0 mr/hr

HOST The host is the Miocene Browns Park Formation. The white to gray ore-bearing sandstone is medium-grained and contains numerous semi-rounded black grains.

MNZ Uranium mineralization was recognized, but no visible uranium minerals were observed.

DOI 1954


Maggie Mine

LOCATION: sec. 9, T. 9 N., R. 92 W.

LCRM Directions to the deposit are given as follows: "Drive 10.9 miles south of Baggs, Wyoming on Wyoming Highway 330. Turn right on county road (not numbered) and follow main traveled road 5.5 miles to a junction. Take the right road at this junction and drive 2.8 miles; thence follow trail going to the left for 4.9 miles to a fork. Take the left fork of this trail 0.7 miles to a cabin on the property."

QUAD East Timberlake Creek 7 1/2" or Craig NW 7 1/2°

BGK .03 mr/hr

RNG .5 to 2.0 mr/hr

HOST The host is mapped as the Tertiary Wasatch Formation. This buff, fine-grained, crossbedded, limonite-stained, mineralized sandstone bed contains an 18-in. tabular layer of manganese which is not abnormally radioactive.

MNZ Uranium, gold, and tungsten minerals are all present. The placer sands include grains of garnet, pyrolusite, gold, and orange and black grains of an unidentified radioactive mineral.

DOI 1954


Marge Mine (Marge 1-5, Maybell 1 & 2, Babs 1-3, Bessie 1-3, Marge Group, Margie Mine, Marge #1 Claim, Bertha)

LOCATION: WI/2NW1/4NE1/4 sec. 19, T. 7 N., R. 94 W.

LCRM The deposit also extends to sec. 13 and NE1/4NE1/4 sec. 24, T. 7 N., R. 95 W. This deposit is located in the Maybell mining district.

QUAD Maybell 15

PROD As of 1971, 455,054 tons were mined at a grade of 0.16% U3O8, producing 1,480,027 lbs of U3O8.

BGK .02 mr/hr

RNG .05 to 2.0 mr/hr

HOST The deposit lies in the Miocene Browns Park Formation. It is a friable, gray to buff, very fine- to medium-grained sandstone, and is more than 700 ft thick in this area. The sandstone has extensive crossbedding and a few thin clay seams. The ore occurs in flat lenses up to 8 ft thick and ranging in depth from 10 to 70 ft below the surface. The host sandstone rests with an angular unconformity upon the older sediments.

STRC The beds strike N70°E and dip 30°N. A major fault crosses the deposit and strikes N30°W, dipping 80°W. Several smaller faults with displacements up to one ft strike N60°W.

MNZ The mineralization is of the uraninite (coffinite) type in the oxidized zone, with meta-autunite and uranophane in the oxidized zone.

DOI 1956


Olds Claim Group (Olds Group of Claims)

LOCATION: sec. 21, T. 11 N., R. 99 W.

LCRM The deposit also extends to sec. 22. Directions to the deposit are given as follows: "South Rock Springs on Highway 430 to Hiawatha, Colorado. Continue on county road toward Craig, Colorado 8.4 miles to the Gutierrez ranch. Continue past ranch 1.2 miles and turn right at grain bin. Continue 1.7 mile and bear right at grain bin. Continue on main road 3.1 miles and bear left at haystack. Continue 2.6 miles on main road to stream bed and northwest corner of Claim 23."

QUAD Hiawatha 7 1/2°

BGK .02 mr/hr

RNG To 10 mr/hr

HOST The host is described as a buff to brown sandstone in the Cathedral Bluffs Tongue of the Tertiary Wasatch Formation.

MNZ Uranium mineralization was recognized, but no visible uranium minerals were observed.
Oscar Orr Claims

LOCATION: sec. 18, T. 7 N., R. 95 W.
LCRM The claims also extend to sec. 17, 19, 20 and 21.
QUAD Maybell 15'
HOST The host is the Miocene Browns Park Formation. The deposit occurs in lenticular ore bodies in a sandstone.
MNZ Uranophane and meta-autunite were identified.
DOI 1977

Oscar No. 1 Claim

LOCATION: sec. 5, T. 3 N., R. 101 W.
LCRM This deposit lies in the Skull Creek district.
QUAD Lazy Y Point 7 1/2' or Skull Creek 7 1/2'
HOST The deposit lies in the Jurassic Entrada Sandstone within forty ft of the Curtis-Entrada contact. The Entrada is a light grey, medium-to coarse-grained, cross bedded, massive sandstone, heavily limonite stained along fractures, and carbonaceous in places.
MNZ No uranium minerals were megascopically visible. The radioactivity is associated with malachite, azurite, and limonite. A grab sample assayed 0.04% eU308 and Cu308, with 0.02% V2O5 and 0.5% CaCO3.
DOI 1955

Owl Group

LOCATION:
HOST The host is the Miocene Browns Park Formation.
MNZ The mineralization is of the uraninite (coffinite) type.
DOI 1971

Rob Rollo

LOCATION: sec. 19, T. 7 N., R. 94 W.
LCRM This deposit extends to sec. 24, T. 7 N., R. 95 W.
DVEL The mine is a large open pit.
PROD As of 1971, 596,701 tons of ore were mined at a grade of 0.11% U308, producing 1,347,892 lbs of U308. The average depth to ore was 170 ft.

HOST The host is the Miocene Browns Park Formation.
MNZ Mineralization is of the uraninite (coffinite) type.
DOI 1971

Sage-Buela

LOCATION: sec. 8, T. 7 N., R. 94 W.
QUAD Lay 7 1/2'
PROD As of 1971, 197,709 tons of ore were mined at a grade of 0.10% U308, producing 410,690 lbs of U308.
HOST The host is the Miocene Browns Park Formation.
MNZ The mineralization of the uraninite (coffinite) type.
DOI 1971

Sec. 16, T. 6 N., R. 94 W.

LOCATION: Sec. 16, T. 6 N., R. 94 W.
LCRM The deposit extends to S1/2 sec. 9, T. 6 N., R. 94 W.
QUAD Juniper Hot Springs 7 1/2'
DVEL The average depth of ore was 30 ft. It was developed as an open pit mine.
PROD As of 1971, 535 tons of ore had been mined at a grade of 0.11% U308, producing 1,141 lbs.
HOST The host is the Miocene-Pliocene Browns Park Formation.
MNZ Uraninite, coffinite, uranophane and autunite were recognized.
RMKS This was a state lease.
DOI 1973

Sec. 16, T. 7 N., R. 93 W.

LOCATION: sec. 16, T. 7 N., R. 93 W.
LCRM The deposit lies in the Miocene-Pliocene Browns Park Formation.
MNZ Uranophane was recognized at the deposit.
DOI 1971

Sec. 16, T. 7 N., R. 94 W.

LOCATION: sec. 16, T. 7 N., R. 94 W.
LCRM The deposit extends to S1/2 sec. 9, T. 6 N., R. 94 W.
QUAD Lay 7 1/2'
DVEL The deposit lies in the Miocene-Pliocene Browns Park Formation.
HOST The host is the Miocene-Pliocene Browns Park Formation.
MNZ Uraninite, coffinite, uranophane and autunite were recognized.
DOI 1971

September Morn Claims

LOCATION: sec. 3, T. 5 N., R. 96 W.
LCRM Directions to the deposit are given as follows: "Beginning at Maybell, Colorado, go 1.8
Moffat County

The deposit also extends to sec. 22. Directions to the deposit area given as follows: "Drive 9.3 miles east of Irene's cafe in Maybell, Colorado, on U.S. Hwy 40. Turn left, through a gate and go right around sheep shearing pens and drive 0.3 miles. Turn left and follow the main traveled road 3.9 miles to the discovery area."

**LOCATION:** S1/2 sec. 7, T. 7 N., R. 95 W.

**LCRM** The deposit also extends to sec. 8. Directions to the deposit are given as follows: "Begin log at Victory hotel in Maybell, Colorado. Go north on Moffat County road 19 for 3.5 miles, turn right at old car body; go 0.2 mile turn left at north-trending trail; go 0.6 mile; deposit lies left on west side of a small ridge."

**HOST** The host is the Miocene Browns Park Formation. The anomaly occurs in a white to brown, thin-bedded, fine- to medium-grained sandstone. Intense iron staining is apparent in many beds and some of those beds are iron cemented.

**MNZ** Uranium mineralization was discovered, but no uranium minerals were visible. Thin stringers of gypsum and calcite were noted.

**DOI** 1954


**Star Prospect (Front Range Star Group)**

**LOCATION:** NW1/4NE1/4 sec. 13, T. 7 N., R. 95 W.

**QUAD** Maybell 15'

**PROD** As of 1971, there had been no production from this prospect.

**HOST** The host is the Miocene Browns Park Formation.

**MNZ** Uranium mineralization was noted, of the uraninite (coffinite) type.

**DOI** 1973


**Sugarloaf (Sugarloaf No. 1, 2, 3, 4, 9, Sugar Loaf Claim No. 1)**

**LOCATION:** sec. 27, T. 7 N., R. 95 W.

**LCRM** The deposit also extends to sec. 22. Directions to the deposit area given as follows: "Drive 1.8 miles north of Maybell, Colorado on Moffat County Road 19 to a junction. Take right road 0.9 mile to area of anomalous radioactivity. The discovery pit lies 100 yds north of the road."

**QUAD** Maybell 15'

**PROD** As of 1971, 357 tons had been mined at grades of 0.13% U3O8 and 0.07% V2O5, producing 1,070 lbs of U3O8 and 553 lbs of V2O5.

**BKG** .04 mr/hr

**DOI** 1955


**ALT** Alteration caused the fusion of the siltstones to produce the blue-gray quartzite.

**MNZ** Uranium and vanadium minerals were noted, with uranophane identified. Iron staining is common. Assays reportedly are in excess of 0.10% U3O8, over a wide area. Selenite, molybdenite, gold, and silver were also found.

**DOI** 1994


**Three Sisters (Three Sisters No. 1)**

**LOCATION:** sec. 32, T. 5 N., R. 95 W.

**QUAD** Axial 7 1/2'

**PROD** As of 1971, 744 tons had been mined at grades of 0.19% U3O8 and 0.00% V2O5, producing 2,897 lbs of U3O8 and 65 lbs of V2O5.

**HOST** The host is the Miocene Browns Park Formation.

**MNZ** Uranophane was identified.

**DOI** 1971


**Tevenen Claims**

**LOCATION:** sec. 20, T. 7 N., R. 95 W.

**LCRM** Directions to the deposit are given as follows: "Drive 1.8 miles north of Maybell, Colorado on Moffat County Road 19 to a junction. Take right road 0.9 mile to area of anomalous radioactivity. The discovery pit lies 100 yds north of the road."

**QUAD** Maybell 15'

**PROD** As of 1971, there had been no production from this prospect.

**HOST** The host is the Miocene Browns Park Formation.

**ALT** Alteration of exposures suggests large scale solution movement in the sandstone.
Moffat County

MNZ Uranium mineralization was noted, but no minerals were identified.

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
QUAD: Craig NW or Pine Ridge 7 1/2'
HOST: The host is the Miocene Browns Park Formation.
MNZ: Uranium minerals were recognized.
DOI: 1973
Unnamed No. 14

LOCATION: sec. 14, T. 9 N., R. 96 W.

RMKS Drilling was carried out by the Cleveland Cliffs Iron Company in 1968. The holes were on 3 mile centers. 23 of 125 holes were mineralized, most in the location given above.

DOI 1977

REF Western Nuclear, 1977, Submittal Files.

Woodpile No. 1

LOCATION: sec. 11, T. 4 N., R. 101 W.

LCST UNCERTAIN

LCRM The deposit also extends to sec. 12. Directions to the deposit are given as follows: "From Vernal, Utah, at intersection of U.S. Hwy 40 and Utah State Hwy 44, drive east on U.S. Hwy 40 for 57.2 miles to Skull Creek, Colorado; turn left at steel gate for 1.7 miles; right 0.2 mile; right 1.4 miles to discovery of Woodpile No. 1."

HOST The deposit lies near the base of the Shinarump Member of the Triassic Chinle Formation. It is a white, conglomeratic, cross-bedded, poorly sorted sandstone containing red and green mudstone galls and partings. There are numerous minor scours along the rim of the outcrop. The mineralized sandstone unit overlain by mudstone is at the base of the Shinarump and probably occupies shallow scours in the Moenkopi Formation. The weakly radioactive pyritized sandstone is less than one ft thick and is exposed for an outcrop thickness of about 5 ft.

STRC The property is located on the east flank of the Red Wash anticline. The dip is about 8°E.

MNZ Weak mineralization is apparently associated with pyrite masses and nodules. Pyrite is in places interstitial, and in places completely replaces the sand grains. Uranium minerals are not megascopically visible. A grab sample assay showed 0.01% eU3O8, 0.04% V2O5 and 2.6% CaCO3.

DOI 1955

Production in the county to 1971 was 455 tons of ore mined that contained 1,449 lb of U₃O₈, and 14,343 lb of V₂O₅. There is excellent potential for more reserves to be found in the county.

Montezuma County is situated in the Four Corners region of southwestern Colorado. It is mesa country, with the mesas capped primarily by Upper Cretaceous rocks, including the Dakota Sandstone and the Mancos Shale. Older sedimentary formations are exposed locally in the many canyon walls. The Tertiary La Plata Mountains of the San Juan Uplift straddle the eastern border, and the Ute Mountains, also Tertiary in age, dominate the west-central part of the county. Older sedimentary strata are exposed around the flanks of the La Plata Mountains in the northeast.

Two types of radioactive deposits are found in the county. The most important of the two is the Colorado Plateau-type tabular deposit, located predominantly in the Jurassic Morrison Formation, but also found occasionally in the Entrada Sandstone or in the Navajo Sandstone. The Morrison Formation in this area is an interbedded sandstone and mudstone unit. The sandstones are generally white, light gray, yellow, or pale brown, and the mudstones are variegated red and green. In the Salt Wash Member of the Morrison Formation, where most deposits lie, the mudstones are predominantly red. In Montezuma County these deposits are concentrated around McElmo Dome on the northwest flanks of the Ute Mountains. The Roberta Jean Mine, located on the flanks of the McElmo Dome, is the largest uranium mine of this type in the county.

Heavy-mineral concentrations in the Point Lookout Sandstone Member of the Mesaverde Group form the second type of radioactive deposit. These deposits, discovered by airborne reconnaissance surveys during the 1950's, are found along the outer northwest edge of the San Juan Basin.

The majority of the ore shipped from the county was from the Roberta Jean Mine. All of the reported production in the county has been from the Morrison Formation, and most of that was from the Salt Wash Member.

Montezuma County was heavily prospected during the uranium boom of the early 1950's, and any large, easily found deposits should have been discovered at that time. Several formations and areas, however, have further potential. Because of the known prospects and minor production in the area, the Morrison Formation along the flanks of McElmo Dome probably offers the best potential for uranium resources. The Morrison Formation is known to be a favorable host rock for this general area of the Colorado Plateau, and the McElmo Dome appears to have acted as a structural trap for uranium and other minerals. In addition to the occurrences listed in this report, small, scattered anomalies, also reported in the Morrison Formation, are found in Cross Canyon south of Dove Creek. Channel sandstones within the Upper Cretaceous fruilland Formation in the San Juan Basin are also known to host uranium. The Fruitland could be a potential producer where it extends into Montezuma County on the southeast. At least one occurrence in the county is found within the Jurassic Entrada Sandstone. This occurrence contains some micaceous minerals and a relatively high ratio of vanadium to uranium. Large uranium-vanadium deposits in the Entrada Sandstone have been mined north of Montezuma County at the Graysill Mine in San Juan County and at Placerville, San Miguel County. Those within the county could be genetically similar to these roscoelite types. The final area of interest lies on the northwest edge of the San Juan Basin, where ancient heavy-mineral placers are found in the black sands of the Point Lookout Sandstone (Mesaverde Group) and Picture Cliffs Sandstone. These placers probably do not have much economic potential for uranium, but may be of some importance as rare-earth or titanium concentration.
**26, Airborne Anomaly**

**LOCATION:** NE1/4SW1/4 sec. 15, T. 32 N., R. 17 W.

**LCST** UNSURVEYED

**LCRM** "Turn east from U.S. Highway 666 onto dirt road 11.5 miles north of Shiprock, N.M., and drive along the main road for 8.4 miles to the top of Palmer Mesa. Turn left at a group of hogans and drive northeast for 2.4 miles to the Ute Reservation fence. Continue northeast for 2.2 miles. Turn left and drive 0.7 mile to a small reservoir, then turn right and proceed 1.7 miles along unimproved road to the anomaly. This lies in the northwestern San Juan Basin.

**STRC** The anomaly is located in the upper part of the massive member of the Point Lookout Sandstone, of the Upper Cretaceous Mesaverde Group. Mineralization occurs in a light-gray, massive, very fine-grained, cross-bedded sandstone.

**MNZ** Radioactivity is associated with detrital heavy mineral grains. Chip samples show 0.03 to 0.04% U3O8 and 0.00%3 U3O8.

**RMKS** Airborne Anomalies 26 and 27 are within a quarter mile of each other, located east to the north and west. Airborne Anomalies 30 and 31 are across the canyon about one mile to the southeast.

**DOI** 1955


**27, Airborne Anomaly**

**LOCATION:** SE1/4SW1/4 sec. 15, T. 32 N., R. 17 W.

**LCST** UNSURVEYED

**LCRM** "Turn east from U.S. Highway 666 onto dirt road 11.5 miles north of Shiprock, N.M., and drive along the main road for 8.4 miles to the top of Palmer Mesa. Turn left at a group of hogans and drive northeast for 2.4 miles to the Ute Reservation fence. Continue northeast for 2.2 miles. Turn left and drive 0.7 mile to a small reservoir, then turn right and proceed 1.7 miles along unimproved road to the anomaly. This lies in the northwestern San Juan Basin.

**STRC** The anomaly is located in the upper part of the Point Lookout Sandstone, of the Upper Cretaceous Mesaverde Group. Mineralization occurs in a light-gray, massive, very fine-grained, cross-bedded sandstone.

**MNZ** Radioactivity is associated with detrital heavy mineral grains. Chip samples show 0.03 to 0.04% U3O8 and 0.00%3 U3O8.

**RMKS** Airborne Anomalies 26 and 27 are within a quarter mile of each other, located east to the north and west. Airborne Anomalies 30 and 31 are across the canyon about one mile to the southeast.

**DOI** 1955

28, Airborne Anomaly

LOCATION: SW1/4NE1/4 sec. 33, T. 33 N., R. 16 W.
LCST UNSURVEYED
LCRM "Drive north from Mancos Creek Trading Post on U.S. Highway 666 for 2.2 miles, then turn east and drive 10.9 miles up Mancos River Canyon. Turn left onto little used road and drive 1.7 miles. Anomaly is on an isolated chunk of sandstone debris is 1/3 mile southwest of the road. This anomaly lies in the northwest San Juan Basin.

RMKS Airborne Anomaly No. 28 is 3 1/4 miles to the southeast.
DOI 1955

31, Airborne Anomaly

LOCATION: SE1/4NW1/4 sec. 23, T. 32 N., R. 17 W.
LCST UNSURVEYED
LCRM "Turn east from U.S. Highway 666 onto dirt road 11.5 miles north of Shiprock, N.M. Drive along well-travelled road to top of Palmer Mesa. Turn left at a group of hogans 8.4 miles from the juncture with Route 666 and proceed northeast 2.4 miles to the Ute Res. fence; continue for 0.4 mile, then turn west and drive for 2 miles. Anomaly is a long drainage to left of the road. This anomaly lies in the northwestern San Juan Basin.

RMKS Airborne Anomaly No. 29 is 3.5 miles northeast.
DOI 1955

29, Airborne Anomaly

LOCATION: SE1/4SE1/4 sec. 24, T. 33 N., R. 17 W.
LCST UNSURVEYED
LCRM "Drive north from Mancos Creek Trading Post on U.S. Highway 666 for 2.2 miles, then turn east and drive 10.9 miles up Mancos River Canyon. Turn left onto little used road and drive 2 miles northwest to a small, dried up reservoir. Walk northwest 3 1/4 miles cross country to the anomaly. This anomaly lies in the northwestern San Juan Basin.

RMKS Airborne Anomaly No. 30 is 1/4 mile to the northwest. Anomalies numbered 25, 26, and 27 are across the canyon about one mile to the north.
DOI 1955
Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Analyses of grab samples show 0.01% U3O8. Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

**Doi**: 1955


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**Location**: NE1/4 sec. 11, T. 33 N., R. 17 W.

**Quadrangle**: Towaoc 7 1/2

**Map**: CORTEZ

**Host**: The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity is located in a dark, yellowish-brown, dark brown to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 400 ft along the outcrop for a width of 75 ft and a thickness of 2-3 ft.

**MNZ**: Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

**Doi**: 1955


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**Location**: NE1/4 sec. 11, T. 33 N., R. 17 W.

**Quadrangle**: Towaoc 7 1/2

**Map**: CORTEZ

**Host**: The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown to dark reddish-brown, very fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 1,300 ft, with a width of 100 ft and a thickness of 2-3 ft.

**MNZ**: Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

**Doi**: 1955


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**Location**: NE1/4 sec. 11, T. 33 N., R. 17 W.

**Quadrangle**: Towaoc 7 1/2

**Map**: CORTEZ

**Host**: The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. The mineralized rock is a zone in a light gray to light yellowish-gray massive cross-bedded, medium- to fine-grained sandstone. The mineralized zone is exposed for about 1,120 ft, for about 600 ft along the outcrop, for a width of 75 ft and a thickness of 2-3 ft.

**MNZ**: Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

**Doi**: 1955

MONTEZUMA COUNTY

32, Airborne Anomaly

LOCATION: sec. 2, T. 33 N., R. 17 W.
LCST UNSURVEYED
LCRM

"Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The anomaly is about 1.5 miles south of the top of the trail across the top of the mesa." This anomaly lies in the northwestern San Juan Basin.

QUAD Towaco 7 1/2'
MAP CORTEZ
HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout-Sandstone at or near the contact with the overlying Menenefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish-gray, massive, cross-bedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed along about 1,800 ft of the outcrop for a width of 75 ft and a thickness of 2-3 ft.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.


42, Airborne Anomaly

LOCATION: sec. 2, T. 33 N., R. 17 W.
LCST UNSURVEYED
LCRM

"Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The anomaly is about 1.5 miles south of the top of the trail across the top of the mesa." This anomaly lies in the northwestern San Juan Basin.

QUAD Towaco 7 1/2'
MAP CORTEZ
HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout-Sandstone at or near the contact with the overlying Menenefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish-gray, massive, cross-bedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed along about 1,800 ft of the outcrop for a width of 75 ft and a thickness of 2-3 ft.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.


44, Airborne Anomaly

LOCATION: N1/2NE1/4 sec. 3, T. 33 N., R. 17 W.
LCST UNSURVEYED
LCRM

"Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The anomaly is about one mile from the top of the trail, southwest across the mesa." This anomaly lies in the northwestern San Juan Basin. Location of this anomaly extends to S1/2 sec. 34, T. 33 1/2 N., R. 17 W.

QUAD Towaco 7 1/2'
MAP CORTEZ
HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout-Sandstone at or near the contact with the overlying Menenefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish-gray, massive, cross-bedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed along about 2,000 ft along the outcrop, for a width of 75 to 100 ft, and a thickness of 2-3 ft.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

**LOCATION:** SE1/4SE1/4 sec. 23, T. 34 N., R. 17 W.

**LCST** UNSURVEYED

**LCRM** "Turn east from U.S. Highway 666 at a point north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. Anomaly is about 2 1/4 miles to the north along the mesa rim from the top of the trails." This anomaly lies in the northwestern San Juan Basin.

**QUAD** Towaoc 7 1/2

**MAP** CORTEZ

**HOST** The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Maneeve Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellow-gray, massive, crossbedded, medium-to-fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 300 ft; 500 ft wide and 2-3 ft thick.

**MINZ** Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Assays range between 0.01 and 0.02% U308.

**RMKS** Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

**LOCATION:** sec. 16, T. 37 N., R. 18 W.

**LCRM** The deposit also extends to sec. 27.

**QUAD** Moqui SE 7 1/2

**MAP** CORTEZ

**DVEL** Some underground work had been carried out, but there is no record of any uranium production.

**HOST** The host is a white, medium-grained sandstone that is reported as either Jurassic upper Navajo or lower Carmel. It outcrops in varying degrees for a distance of one mile.

**MINZ** Grab samples show weak to moderate radioactivity. The radioactivity originates from a brownish-red limonite gossan. Veins of pyrolusite, crusts of barite, and stains of copper are also associated with the uranium mineralization.

**LOCATION:** sec. 34, T. 36 N., R. 18 W.

**LCRM** The prospect lies a few feet north of Colorado Highway 32 on the John Meadows Ranch.

**QUAD** Moqui SE 7 1/2

**MAP** CORTEZ

**DVEL** A pit was opened in 1913, but no ore was shipped from this prospect. The pit is now filled with alluvium.

**HOST** The deposit lies in the Entrada Sandstone.

**STRC** The prospect lies near the Ute Mountains, and many fractures and faults cross the area. These fractures do not seem to have controlled mineralization.

**MINZ** The mineralized zone is about 6 inches thick and is exposed along an outcrop that is 130 ft by 40 ft wide. There are uranium-vanadium minerals and traces of malachite present, concentrated along bedding planes. Within the mineralized zone, a dark gray, 1-inch seam is higher grade than the rest of the zone. The dark gray mineral is believed to be a vanadium mica. Samples taken in 1921 assayed more than 1.0% V2O5 and 0.09% U308. Samples taken in the early 1960's assayed .004 to .008% U308 and .52 to .93% V2O5.
Montezuma County

DOI 1965

Karla Kay

LOCATION: sec. 29, T. 36 N., R. 18 W.
QUAD Moqui SE 7 1/2'
MAP CORTEZ
PROD A sample shipment of ore consisted of 4 tons of 0.19% U3O8. By 1971, 12 tons had been mined at grades of 0.08% U3O8 and 0.45% V2O5, producing 19 lbs of U3O8 and 109 lbs of V2O5.

BKG .004 mr/hr
RNG .016 to .02 mr/hr
HOST The host is the Brushy Basin Member of the Jurassic Morrison Formation.
STRC Clay zones and fractures appear to control and concentrate mineralization.
MNZ Four ft of mineralization occur in a brown stained, trashy, medium-and-angular-grained sandstone. It contains conglomerate and clay lenses and numerous fractures associated with gypsum crustifications. No uranium or vanadium minerals were megascopically visible, but silicified bones were present in the mineralized zone. Radioactivity of grab samples was moderate.

DOI 1971

Pey Day (??)

LOCATION: T. 34 N., R. 18 W.
LCST UNSURVEYED
QUAD Sentinel Peak NE 7 1/2'
MAP CORTEZ
PROD Two truckloads of material were shipped, but none were accepted due to the low grade.

RNG Weak
HUSI The mineralization occurs near the contact of the Brushy Basin and Salt Wash Members of the Upper Jurassic Morrison Formation.
MNZ Carnotite stains are present on the fracture surfaces of silicified logs. There is very little replacement of the sandstone and conglomerate.
RMK 3 Radioactivity was measured by a Detector, and was recorded as "weak".

DOI 1951

Roberta Jean

LOCATION: sec. 8, T. 38 N., R. 19 W.
PROD By 1971, 387 tons of ore had been mined at grades of 0.17% U3O8 and 1.65% V2O5, producing 1,309 lbs of U3O8 and 12,770 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

MNZ Carnotite and tyuyamunite were recognized.

DOI 1971

Surprise

LOCATION: T. 36 N., R. 16 W.
LCST UNSURVEYED
QUAD Arriola 7 1/2'
MAP CORTEZ
DVEL Some underground mining has been carried out.
BKG .004 mr/hr
RNG To .02 mr/hr
HOST The host rock is a brown, trashy sandstone which is probably a unit of the Salt Wash Member of the upper Jurassic Morrison Formation.
MNZ Grab samples show moderate radioactivity in the brown sandstone associated with carbonaceous trash. Fragments of trees, reeds, and bones outcrop in a zone 3 to 5 ft width and 1,000 ft in length. The trees are mostly silicified with sparse carnitite paint.

DOI 1951

Swallow I

LOCATION:
PROD One ton had been mined by 1971, at grades of 0.15% U3O8 and 1.45% V2O5, producing 3 lbs of U3O8 and 29 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, salt wash member.
MNZ Carnotite and/or tyuyamunite were recognized.
DOI 1971

Veach

LOCATION:
PROD By 1971, 11 tons of ore had been mined at grades of 0.03% U3O8 and 0.18% V2O5, producing 6 lbs of U3O8 and 39 lbs of V2O5.
HOST The host is probably the Jurassic Morrison Formation.
DOI 1971

Virginia Ann

LOCATION:
PROD By 1971, 31 tons of ore had been mined at grades of 0.14% U3O8 and 1.71% V2O5, producing 85 lbs of U3O8 and 1,062 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
DOI 1971
Montrose County lies within the Uravan mineral belt and is the most important producing county in the belt and the state. Production in the county from January 1, 1948 to January 1, 1978 was 7,369,000 tons of ore mined at a grade of 0.25 percent $U_3O_8$ producing 36,428,000 lb of $U_3O_8$. Of the ore mined, 7,321,000 tons were processed for vanadium, producing 187,104,000 lb of $V_2O_5$ at a grade of 1.28 percent of $V_2O_5$.

The county is situated on the western slope of Colorado, and it lies within typical Colorado Plateau terrane. The county is covered by Cretaceous, Jurassic, and Triassic sediments. These rocks are exposed on mesas and plateaus or in valleys along the San Miguel and Dolores Rivers. Salt anticlines in Paradox Valley and the Sinbad Valley expose the Pennsylvanian Paradox Formation, which consists of salt, gypsum, and anhydrite in a thick evaporite sequence. Some Precambrian rocks are exposed on the Uncompahgre Plateau in the northeastern part of the county.

The Brushy Basin Member of the Morrison Formation is the most important host of uranium deposits in the county. The ore is contained within tabular or roll-type bodies in stream-channel sands. The Morrison contains large amounts of organic matter that is regarded as a favorable criterion for ore.

The county will remain a producer of ore for years to come. Much has been written about the county and the belt in particular. These references can be found in the cross-index of the bibliography and should be consulted for more information.
By 1971, 2,899 tons had been mined at the
grade of 0.29% U3O8, producing 5,184 lbs of U3O8, and 2.04% V2O5, producing 52,481 lbs of V2O5.

As of 1971, 952 tons had been mined at a grade of 0.21% U3O8, producing 4,048 lbs of U3O8, and 1.40% V2O5, producing 26,721 lbs of V2O5.

Salt Wash Member, Jurassic Morrison Formation.

Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low lime.


Jurassic Morrison Formation, low vanadium.


Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.


URCVD<br />
LOCATION: sec. 1, T. 45 N., R. 18 W, NMPM.
LCRM Bull Canyon district, Fawn Springs locality.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 1,289 tons had been mined at a grade of 0.20% U3O8, producing 5,184 lbs of U3O8, and 2.04% V2O5, producing 52,481 lbs of V2O5.
HOST Salt Wash Member, Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

10, AEC Mining Lease (C-LP-25, DOE Lease Tract)

LOCATION: S1/2NE1/4 sec. 5, T. 47 N., R. 17 W.
LCRM This lease was adjacent to Mill No. 4, and lies on Club Mesa.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD See C-LP-25, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitote - tyuyamunite, high vanadium, low lime.
DOI 1971

11, AEC Mining Lease (C-LP-25, DOE Lease Tract) (Reserve Blocks 3 & 4)

LOCATION: N1/2NE1/4 sec. 5, T. 47 N., R. 17 W.
LCRM This lease is adjacent to Mill No. 2 and lies on Club Mesa.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD See C-LP-25, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitote - tyuyamunite, high vanadium, low lime.
DOI 1971

13, AEC Mining Lease (Reserve Block 1)

LOCATION: NW1/4 sec. 31, T. 48 N., R. 17 W.
LCRM This lease lies on Club Mesa.
QUAD Red Canyon 7 1/2', Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 24,731 tons had been mined at a grade of 0.25% U3O8 and 1.43% V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

14, AEC Mining Lease (C-LP-21, DOE Lease Tract) (Reserve Block 8) (Virgin Shaft)

LOCATION: S1/2SW1/4 sec. 22, T. 47 N., R. 17 W.
LCRM This lease lies in Long Park.
QUAD Uravan 7 1/2'
MAP MOAB
PROD See C-LP-21, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

15, AEC Mining Lease (Reserve Block A) (C-LP-22A, DOE Lease Tract)

LOCATION: NW1/4 sec. 21, T. 47 N., R. 17 W.
LCRM Reserve Block A is adjacent to TNT No. 3, and lies in the Long Park district.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD See C-LP-22A, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnitote - tyuyamunite, high vanadium, low lime.
DOI 1971, 1974

23, AEC Mining Lease (C-LP-22A, DOE Lease Tract)

LOCATION: E1/2 sec. 20, T. 47 N., R. 17 W.
LCRM This lease block lies in the Long Park district, adjacent to the "Dusty" and "TNT No. 1 & 2" properties. The lease itself extends to the W1/2 sec. 21.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD See C-LP-22A, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

24, AEC Mining Lease (C-LP-25, DOE Lease Tract) (Reserve Block No. 6)

LOCATION: NE1/4NW1/4 sec. 5, T. 47 N., R. 17 W.
LCRM The deposit lies on Club Mesa.
By 1971, 42,921 tons had been mined at a grade of 0.25% U3O8, producing 212,693 lbs of U3O8, and 1.28% V2O5 producing 1,185,001 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

DOI 1971


Abajo 1-5 (Laura, Mustard)

LOCATION: sec. 19, T. 48 N., R. 17 W.

QUAD Atkinson Creek 7 1/2'

MAP MOAB

PROD By 1971, 42,921 tons had been mined at a grade of 0.25% U3O8, producing 212,693 lbs of U3O8, and 1.28% V2O5 producing 1,185,001 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

MNZ Carnotite - tyuyamunite.

DOI 1971


Adak

LOCATION: sec. 11, T. 48 N., R. 18 W.

LCRM U.S. A.E.C. Production Records only show sec. 12.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD By 1971, 16,722 tons had been mined at a grade of 0.22% U3O8, producing 73,113 lbs of U3O8, and 0.84% V2O5, producing 282,281 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite.

DOI 1971


All Stars - Evening Star

LOCATION: sec. 28, T. 48 N., R. 17 W.

QUAD Red Canyon 7 1/2' & Atkinson Creek 7 1/2'

MAP MOAB

PROD As of 1971, 7,597 tons had been mined at a grade of 0.29% U3O8, producing 44,102 lbs of U3O8, and 1.38% V2O5, producing 209,267 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite.

DOI 1971


Alta

LOCATION: sec. 23, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD By 1971, 472 tons had been mined at a grade of 0.31% U3O8, producing 2,891 lbs of U3O8, and 1.85% V2O5, producing 17,465 lbs of V2O5.

MNZ Uranium, vanadium, carnotite - tyuyamunite.

DOI 1971

By 1971, 41,011 tons had been mined at a grade of 0.29% U3O8, producing 237,726 lbs of U3O8, and 1.34% V2O5, producing 1,102,476 lbs of V2O5.

The host is the Jurassic Morrison Formation.

American Eagle Group

LOCATION: W1/2 sec. 10, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2
MAP MOAB
PROD By 1971, 19,701 tons had been mined at a grade of 0.22% U3O8, producing 87,787 lbs of U3O8, and 2.34% V2O5, producing 923,681 lbs of V2O5.

The host is the Jurassic Morrison Formation.

American Eagle No. 4

LOCATION: sec. 3, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2
MAP MOAB
PROD By 1971, 2,989 tons had been mined at a grade of 0.26% U3O8, producing 15,816 lbs of U3O8, and 2.26% V2O5, producing 135,011 lbs of V2O5.

The host is the Jurassic Morrison Formation.

Anchor (Invincible)

LOCATION: sec. 3, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2
MAP MOAB
PROD By 1971, 319 tons had been mined at a grade of 0.22% U3O8, producing 1,379 lbs of U3O8, and 1.23% V2O5, producing 7,836 lbs of V2O5.

The host is the Jurassic Morrison Formation.

Andrews and Andrews Claims

LOCATION: sec. 23, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2
MNZ Uranium, vanadium.
DOI 1975

Angle Mine

LOCATION: sec. 1, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2
MAP MOAB
PROD By 1971, 12 tons had been mined at a grade of 0.77% U3O8, producing 359 lbs of U3O8, and 2.64% V2O5, producing 1,163 lbs of V2O5.

The host is the Jurassic Morrison Formation, Salt Wash Member.

American Eagle Group

LOCATION: sec. 17, T. 46 N., R. 17 W.
QUAD By 1971, 40,873 tons had been mined at a grade of 0.33% U3O8, producing 273,047 lbs of U3O8, and 0.98% V2O5, producing 803,292 lbs of V2O5.

The host is the Jurassic Morrison Formation.

Anomaly 18

LOCATION: sec. 10, T. 46 N., R. 18 W.
LCRM Part of sec. 10 is in Bull Canyon 7 1/2.
QUAD Davis Mesa 7 1/2
HOST The host is the Jurassic Morrison Formation.

Uranium, vanadium.
DOI 1975
April (April Group)

LOCATION: sec. 10, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
PROD By 1971, 490 tons had been mined at a grade of 0.24% U3O8, producing 2,385 lbs of U3O8, and 1.61% V2O5, producing 15,826 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
DOI 1971

Arcturus

LOCATION: sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
PROD By 1971, 10,561 tons had been mined at a grade of 0.25% U3O8, producing 52,006 lbs of U3O8, and 1.10% V2O5, producing 233,631 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
DOI 1971

Arrowhead (Colorado Group)

LOCATION: sec. 28, T. 47 N., R. 17 W.
LCRM U.S. Bur. of Mines shows location as T. 46 N.
QUAD Bull Canyon 7 1/2', Naturita 7 1/2'
PROD By 1971, 7,987 tons had been mined at a grade of 0.16% U3O8, producing 25,567 lbs of U3O8, and 0.95% V2O5, producing 152,442 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
DOI 1971

Austin (Dolores)

LOCATION: sec. 21, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2', Atkinson Creek 7 1/2'
PROD By 1971, 9,796 tons had been mined at a grade of 0.24% U3O8, producing 46,436 lbs of U3O8, and 1.15% V2O5, producing 226,243 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971

AWOL and Pet (AWOL 1-20, Pet 1-20)

LOCATION: sec. 15, T. 48 N., R. 17 W.
LCRM Also sec. 16, 21, 22. This deposit lies in Atkinson Mesa.
PROD Reserves, no production.
HOST Jurassic Morrison Formation.
MNZ Carnotite.
DOI 1971

Aztec (1)

LOCATION: sec. 20, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
PROD By 1971, 23,081 tons had been mined at a grade of 0.35% U3O8, producing 159,496 lbs of U3O8, and 1.40% V2O5, producing 644,367 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971

Aztec (Silvery, Silvia Group)

LOCATION: sec. 33, T. 46 N., R. 19 W.
LCRM Also sec. 4, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
PROD By 1971, 123 tons had been mined at a grade of 0.26% U3O8, producing 631 lbs of U3O8, and 1.86% V2O5, producing 4,587 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971

B.T.M. Claim Group

LOCATION: sec. 1, T. 45 N., R. 17 W.
QUAD Naturita NW 7 1/2'
LCRM Also sec. 6, T. 45 N., R. 17 W.
MAP MOAB
PROD By 1971, 9,873 tons had been mined at a grade of 0.18% U3O8, producing 36,188 lbs of U3O8, and 1.79% V2O5, producing 353,271 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971

Babe Ruth (Mitchel - Archer Group)

LOCATION: NW1/4 sec. 14, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 9,873 tons had been mined at a grade of 0.18% U3O8, producing 36,188 lbs of U3O8, and 1.79% V2O5, producing 353,271 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971

Baby Fawn (Big Fawn, Joker)

LOCATION: sec. 6, T. 45 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 1,633 tons had been mined at a grade of 0.28% U3O8, producing 9,052 lbs of U3O8, and 1.98% V2O5, producing 644,367 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971
Montrose County

Badger

LOCATION: sec. 19, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD By 1971, 1,323 tons had been mined at a grade of 0.32% U3O8, producing 8,352 lbs of U3O8, and 1.76% V2O5, producing 46,441 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971

Badger 1 (Badger #3)

LOCATION: sec. 19, T. 47 N., R. 17 W.
MAP MOAB
PROD By 1971, 230 tons had been mined at a grade of 0.34% U3O8, producing 1,560 lbs of U3O8, and 1.82% V2O5, producing 8,391 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
DOI 1971

Badger 2 Dump

LOCATION: sec. 17, T. 47 N., R. 17 W.
MAP MOAB
PROD Prior to 1971, 119 tons had been recovered from the Badger 2 Mine dump at a grade of 0.20% U3O8, producing 467 lbs of U3O8, and 1.39% V2O5, producing 3,305 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Badger and Crown Prince

LOCATION: sec. 23, T. 48 N., R. 18 W.
MAP MOAB
PROD By 1971, 4,538 tons had been mined at a grade of 0.46% U3O8, producing 41,358 lbs of U3O8, and 2.36% V2O5, producing 213,862 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
DOI 1971

Badger Dump

LOCATION: sec. 19, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
PROD Prior to 1971, 109 tons had been recovered from the Badger Mine dump at a grade of 0.69% U3O8, producing 135 lbs of U3O8, and 0.54% V2O5, producing 1,179 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971

Bovine (Bovine 1-4) (Franklin 1-3 & 5, Ben Frac., Ralph 1 & 2)

LOCATION:
PROD Reserves not developed, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971

Banner

LOCATION: sec. 12, T. 46 N., R. 18 W.
L CRM This deposit lies in Bull Canyon district, Monogram Mesa.
QUAD Davis Mesa 7 1/2', Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 7 tons had been mined at a grade of 0.28% U3O8, producing 39 lbs of U3O8, and 2.01% V2O5, producing 281 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Basin Group (Club Mine)

LOCATION: sec. 32, T. 48 N., R. 17 W.
PROD Reserves, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971
Beaver

LOCATION: sec. 32, T. 48 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 6,216 tons had been mined at a grade of 0.23% U3O8, producing 28,917 lbs of U3O8, and 1.48% V205, producing 183,818 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Bed Rock (Red Canyon Claim?)

LOCATION: sec. 2, T. 48 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD By 1971, 1 ton had been mined at a grade of 0.55% U3O8, producing 11 lbs of U3O8, and 2.75% V205, producing 55 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Bernard

LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD By 1971, 4,608 tons had been mined at a grade of 0.27% U3O8, producing 25,040 lbs of U3O8, and 1.44% V205, producing 133,096 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Bertie’s Beauty Claims 1 – 24 (Hard Rock 1 – 3)

LOCATION: sec. 8, T. 46 N., R. 16 W.
QUAD Naturita NW 7 1/2' & Uravan 7 1/2'
MAP MOAB
PROD By 1971, 82 tons had been mined at a grade of 0.22% U3O8, producing 360 lbs of U3O8, and 1.05% V205, producing 1,670 lbs of V205.
HOST Burro Canyon Formation; conglomeratic sandstone and green mudstone with abundant carbonized trash and sparse silicified logs. Lower Cretaceous.
MNZ Uranium, vanadium.
DOI 1971

Beta Wonder

LOCATION: sec. 33, T. 48 N., R. 17 W.
QUAD Uravan, Davis Mesa, and Red Canyon 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1971

Better B #7 (Better B)

LOCATION: W1/2 sec. 31, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 6,070 tons had been mined at a grade of 0.27% U3O8, producing 33,170 lbs of U3O8, and 1.39% V205, producing 168,692 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Betty Jean (Farmer Girl, Hope #1, Monogram 4-7)

LOCATION: SE1/4 sec. 22, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 9,285 tons had been mined at a grade of 0.24% U3O8, producing 44,437 lbs of U3O8, and 1.16% V205, producing 214,958 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Big Bull

LOCATION: sec. 12, T. 45 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 1,179 tons had been mined at a grade of 0.21% U3O8, producing 4,990 lbs of U3O8, and 1.71% V205, producing 40,360 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Big Dick (Dolores)

LOCATION: sec. 19, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 11,264 tons had been mined at a grade of 0.23% U3O8, producing 51,703 lbs of U3O8, and 1.38% V205, producing 311,507 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Big Mitt

LOCATION: sec. 21, T. 48 N., R. 17 W.
LCRM Also sec. 28
QUAD Atkinson Creek 7 1/2', Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 2,978 tons had been mined at a grade of 0.26% U3O8, producing 15,529 lbs
of U3O8, and 1.21% V2O5, producing 72,297 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Quadrant 7/1/2

Big Rock (Starlight) (Wedding Bell Group)

LOCATION: sec. 33, T. 46 N., R. 18 W.
LCRM This deposit lies in the Bull Canyon district.
QUAD Bull Canyon 7 1/2
MAP MOAB
PROD By 1971, 192 tons had been mined at a grade of 0.16% U3O8, producing 610 lbs of U3O8, and 1.23% V2O5, producing 4,707 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Big Shot

LOCATION: sec. 6, T. 47 N., R. 17 W.
LCRM This deposit lies in Club Mesa. U.S. A.E.C. Production Records show location as sec. 31, T. 48 N., R. 17 W.
QUAD Davis Mesa 7 1/2
MAP MOAB
PROD By 1971, 4 tons had been mined at a grade of 0.45% U3O8, producing 36 lbs of U3O8, and 2.13% V2O5, producing 170 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Bill Bady = Lucky Boy

LOCATION: sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2
MAP MOAB
PROD By 1971, 5,877 tons had been mined at a grade of 0.27%, producing 32,095 lbs of U3O8, and 1.27% V2O5, producing 148,719 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
DOI 1971

Binder Group

LOCATION: sec. 33, T. 46 N., R. 19 W.
QUAD Anderson Mesa 7 1/2
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Birthday 1 (Big Bug, Birthday, Morning Star #1 Group)

LOCATION: sec. 2, T. 46 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show location as sec. 12, T. 47 N., R. 20 W.
QUAD Uravan 7 1/2
MAP MOAB
PROD By 1971, 6 tons had been mined at a grade of 0.17% U3O8, producing 20 lbs of U3O8, and 2.08% V2O5, producing 250 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Bismark

LOCATION: sec. 29, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2
MAP MOAB
PROD By 1971, 94 tons had been mined at a grade of 0.20% U3O8, producing 376 lbs of U3O8, and 1.30% V2O5, producing 2,447 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Bitter Creek (Radium King) (Easy)

LOCATION: sec. 12, T. 46 N., R. 17 W.
QUAD Uravan 7 1/2
MAP MOAB
PROD By 1971, 60,738 tons had been mined at a grade of 0.22% U3O8, producing 263,746 lbs of U3O8, and 2.07% V2O5, producing 2,508,873 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
DOI 1971

Black Boss 2

LOCATION: sec. 17, T. 47 N., R. 17 W.
LCRM This deposit lies in Atkinson Mesa.
QUAD Davis Mesa 7 1/2
MAP MOAB
PROD By 1971, 53 tons had been mined at a grade of 0.20% U3O8, producing 210 lbs of U3O8, and 1.42% V2O5, producing 1,503 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Black Dinah

LOCATION: sec. 28, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2, Uravan 7 1/2
MAP MOAB
PROD By 1971, 6,334 tons had been mined at a grade of 0.22% U3O8, producing 28,275 lbs of U3O8, and 1.62% V2O5, producing 205,085 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
DOI 1971
Montrose County


Black Eagle Group

LOCATION: sec. 4, T. 45 N., R. 16 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD By 1971, 11 tons had been mined at a grade of 0.22% U3O8, producing 49 lbs of U3O8, and 1.27% V2O5, producing 280 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Black Gnat

LOCATION: LCST UNLOCATABLE
LCRM This deposit lies in the Uravan district.
MAP MOAB
PROD By 1971, 5 tons had been mined at a grade of 0.08% U3O8, producing 8 lbs of U3O8, and 055% V2O5, producing 124 lbs of V2O5.
MNZ Uranium.
DOI 1971

Black Hawk

LOCATION: sec. 27, T. 49 N., R. 18 W.
LCRM This deposit lies in the Paradox district.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 4 tons had been mined at a grade of 0.45% U3O8, producing 36 lbs of U3O8, and 2.36% V2O5, producing 189 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1975

Black Jack (Joker, Log Cabin, West)

LOCATION: sec. 2, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as being sec. 35, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 88 tons had been mined at a grade of 0.15% U3O8, producing 398 lbs of U3O8, and 1.60% V2O5, producing 2,817 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1975, 1971

Black Point

LOCATION: sec. 13, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB

PROD As of 1971, 397 tons had been mined at a grade of 0.25% U3O8, producing 1,507 lbs of U3O8, and 1.17% V2O5, producing 7,188 lbs of V2O5.
MNZ Uranium, vanadium.

Black Prince (John C., Morning Star, Midnight)

LOCATION: sec. 28, T. 46 N., R. 19 W.
LCRM Also sec. 33 and 34.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 246 tons had been mined at a grade of 0.22% U3O8, producing 1,096 lbs of U3O8, and 1.71% V2O5, producing 8,413 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Black Rock

LOCATION: sec. 23, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 290 tons had been mined at a grade of 0.24% U3O8, producing 1,416 lbs of U3O8, and 1.88% V2O5, producing 10,908 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

Black Tom (Westpart Blackburn)

LOCATION: sec. 20, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 8,058 tons had been mined at a grade of 0.33% U3O8, producing 52,641 lbs of U3O8, and 1.27% V2O5, producing 205,293 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

Blackburn (Joe Dandy Group)

LOCATION: sec. 21, T. 46 N., R. 17 W.
QUAD Naturita 7 1/2', Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 35,216 tons had been mined at a grade of 0.26% U3O8, producing 179,953 lbs of U3O8, and 1.28% V2O5, producing 901,494 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
Blackfoot Rattlesnake

LOCATION: sec. 11, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 2, 3 and 10.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 8,567 tons had been mined at a grade of 0.26% U3O8, producing 44,515 lbs of U3O8, and 1.42% V2O5, producing 243,301 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite – tyuyamunite, high vanadium, low lime.
DOI 1971

Bliss Mine

LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 817 tons had been mined at a grade of 0.15% U3O8, producing 2,508 lbs of U3O8, and 0.84% V2O5, V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite – tyuyamunite, high vanadium, low lime.

Blondy (ESA, Martin Mesa)

LOCATION: SE1/4 sec. 26, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 64 tons had been mined at a grade of 0.14% U3O8, producing 179 lbs of U3O8, and 1.09% V2O5, producing 1,396 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite – tyuyamunite, high vanadium, low lime.
DOI 1971

Blue Bell

LOCATION: sec. 35, T. 47 N., R. 17 W.
Montrose County

Bob 6-7-8

LOCATION: sec. 5, T. 45 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show sec. 29-32, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 38,296 tons had been mined at a grade of 0.18% U3O8, producing 139,862 lbs of U3O8, and 1.48% V2O5, producing 1,135,701 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Bobcat

LOCATION: sec. 19, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 16,487 tons had been mined at a grade of 0.12% U3O8, producing 32 lbs of U3O8, and 2.42% V2O5, producing 628 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Bobcat (La Porte, Wild Horse)

LOCATION: sec. 1, T. 47 N., R. 20 W.
LCRM U.S. A.E.C. Production Records show location as sec. 29 and 30, T. 28 S., R. 27 E.
QUAD Mount Peale 1 SE 7 1/2'
PROD As of 1971, 158 tons had been mined at a grade of 0.19% U3O8, producing 6,246 lbs of U3O8, and 1.04% V2O5, producing 342,129 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Bonanza

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Empire Group, Slick Rock district.
PROD As of 1971, 10 tons had been mined at a grade of 0.14% U3O8, producing 29 lbs of U3O8, and 1.26% V2O5, producing 252 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, intermediate lime.
DOI 1971

Bonita 1 (Bonito)

LOCATION: sec. 32, T. 49 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show location as sec. 4 & 5, T. 49 N., R. 17 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
DVEL As of 1971, 80 tons had been mined at a grade of 0.10% U3O8, producing 162 lbs of U3O8, and 1.02% V2O5, producing 1,634 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, intermediate lime.
DOI 1975

BP 1

LOCATION: LCST UNLOCATABLE
LCRM This deposit lies in the Martin Mesa area.
PROD By 1971, 4 tons had been mined at a grade of 0.38% U3O8, producing 30 lbs of U3O8, and 1.98% V2O5, producing 158 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite.
DOI 1971

Breezy (Wedding Bell Group)

LOCATION: LCST UNLOCATABLE
LCRM This deposit lies in the Bull Canyon district.
PROD As of 1971, 244 tons of ore had been mined at a grade of 0.25% U3O8, producing 1,207 lbs of U3O8, and 6,692 lbs of V2O5, producing 188 lbs of V2O5.
HOST Jurassic Morrison Formation.
DOI 1971

Brooke 1, 2 (Brooks)

LOCATION: sec. 10, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
As of 1971, 3,335 tons of ore had been mined at a grade of 0.16% U308, yielding 10,690 lbs of U308, and a grade of 1.95% V205, yielding 130,211 lbs of V205.

LOCATION: sec. 6, T. 45 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 28 tons had been mined at a grade of 0.15% U308, producing 86 lbs of U308, and 0.73% V205, producing 408 lbs of V205.
HOST Jurassic Morrison Formation.
DOI 1971

LOCATION: sec. 1, T. 46 N., R. 20 W.
LCRM Unlocatable
LCST This deposit lies in the Bull Canyon district.
PROD As of 1971, 636 tons of ore had been mined at a grade of 0.21% U308, producing 2,725 lbs of U308, and 1.27% V205, producing 16,216 lbs of V205.
HOST Jurassic Morrison Formation, Brushy Basin Member.
DOI 1971

LOCATION: sec. 31, T. 48 N., R. 17 W.
QUAD Doris Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 10,094 tons had been mined at a grade of 0.22% U308, producing 44,447 lbs of U308, and 1.21% V205, producing 245,088 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, thanamontite - tyuyamunite, high vanadium, low in 
DOI 1971

LOCATION: sec. 35, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 35 tons had been mined at a grade of 0.10% U308, producing 70 lbs of U308, and 0.56% V205, producing 391 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, thanamontite - tyuyamunite, high vanadium, low in 
DOI 1971
### Montrose County

#### Butterfly

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


Butterfly

**LOCATION:** sec. 10, T. 47 N., R. 17 W.

**DOI** 1958


Butterfly (Wat Nos. 1, 3, 5, 7, 16; Prayer 13-19)

**LOCATION:** sec. 13, T. 47 N., R. 20 W.

**LCRM** U.S. A.E.C. Production Records show location as sec. 13, T. 47 N., R. 20 W., La Sal Creek area.

**QUAD** Mount Peale 1 SE 7 1/2

**MAP** MOAB

**PROD** As of 1971, 6,737 tons had been mined at a grade of 0.26% U3O8, producing 35,673 lbs of U3O8, and 1.69% V2O5, producing 227,898 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


#### C-AM-19, DOE Lease Tract (38, AEC Mining Lease) (Block C - Dolores Bench) (47, AEC Mining Lease) (Block A - Atkinson Mesa)

**LOCATION:** NE1/4 sec. 24, T. 48 N., R. 18 W.

**LCRM** These leases lie in the Atkinson Mesa district.

**QUAD** Red Canyon 7 1/2

**MAP** MOAB

**PROD** From 1954 to 1962, 135,003 tons of ore averaging 0.28% U3O8 and 1.61% V2O5 were produced from 39, AEC Mining Lease. During the same period, 132,884 tons of ore averaging 0.30% U3O8 and 1.43% V2O5 were produced from 47, AEC Mining Lease. From July, 1974 through December, 1977, production from C-AM-19, DOE Lease Tract was 248,720 tons of ore averaging 0.21% U3O8 and 1.06% V2O5.

**HOST** The host is the Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Carnitite - tyuyamunite, high vanadium, low lime.

**DOI** 1978


#### C-AM-20, DOE Lease Tract

**LOCATION:** sec. 20, T. 48 N., R. 17 W.

**LCRM** This lease lies on Atkinson Mesa in the Uravan district.

**QUAD** Red Canyon 7 1/2

**MAP** MOAB

**PROD** No production prior to 1978.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uraninite (coffinite), high vanadium, low lime.

**DOI** 1978


#### C-BL-23A, DOE Lease Tract

**LOCATION:** sec. 35, T. 48 N., R. 17 W.

**QUAD** Urvan 7 1/2

**MAP** MOAB

**PROD** No production prior to 1978.

**HOST** The host is the Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uraninite (coffinite), high vanadium, low lime.

**DOI** 1978


#### C-BL-23B, DOE Lease Tract

**LOCATION:** sec. 12, T. 46 N., R. 17 W.

**LCRM** Also sec. 1.

**QUAD** Urvan 7 1/2, Naturita NW 7 1/2

**MAP** MOAB

**PROD** No production prior to 1978.

**HOST** The host is the Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uraninite, vanadium. Uraninite, vanadium.

**DOI** 1978


#### C-CM-24, DOE Lease Tract (26, AEC Mining Lease) (41, AEC Mining Lease)

**LOCATION:** NE1/4 sec. 32, T. 48 N., R. 17 W.

**LCRM** The lease lies on Club Mesa near the Shamrock Group.

**QUAD** Red Canyon 7 1/2 & Davis Mesa 7 1/2

**MAP** MOAB

**PROD** As of 1955, 1,828 tons of ore had been mined at average grades of 0.21% U3O8 and 1.31% V2O5. No production from 1955 through 1977.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Carnitite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

C-CM-25, DOE Lease Tract (10, AEC Mining Lease) [Lease Block, adjacent to Mill No. 4] (11, AEC Mining Lease) [Lease Blocks 3 & 4, adjacent to Mill No. 2] (24, AEC Mining Lease) [Lease Tract, No. 6] (37, AEC Mining Lease) [Block 8 - Club Mesa]

LOCATION: NE1/4 sec. 5, T. 47 N., R. 17 W.
LCRM Also sec. 6. This lease lies in the Club Mesa district.
MAP MOAB

PROD From 1951 through 1961, production from the four former AEC Mining Leases included in this DOE Lease Tract totaled 138,279 tons of ore averaging 0.28% U3O8 and 1.68% V2O5. This includes, from 10, AEC Mining Lease, 125,221 tons at 0.24% U3O8 and 1.63% V2O5; from 11, AEC Mining Lease, 17,270 tons at 0.42% U3O8 and 1.79% V2O5; from 24, AEC Mining Lease, 5,363 tons at 0.26% U3O8 and 1.86% V2O5; and from 37, AEC Mining Lease, 39,005 tons at 0.35% U3O8 and 1.96% V205, for a total of 188,279 tons of ore. There has been no production from 1971 through 1977.

HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1976

C-JD-6, DOE Lease Tract

LOCATION: sec. 21, T. 46 N., R. 17 W.
LCRM Also sec. 22. This lease lies on Monogram Mesa in the Jo Dandy area.
QUAD Bull Canyon 7 1/2', Naturita 7 1/2'
MAP MOAB

PROD No production prior to May, 1976. From May, 1976 through December, 1977, production from C-JD-6, DOE Lease Tract was 726 tons of ore averaging 0.16% U3O8 and 0.98% V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1976

C-JD-7, DOE Lease Tract

LOCATION: SE1/4 sec. 16, T. 46 N., R. 17 W.
LCRM Also sec. 21, 22. This lease lies on Monogram Mesa in the Jo Dandy area.
QUAD Bull Canyon 7 1/2', Naturita NW 7 1/2'
MAP MOAB

PROD No production prior to 1977.

HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1978

C-JD-7A, DOE Lease Tract

LOCATION: sec. 16, T. 46 N., R. 17 W.
LCRM This lease lies in the Jo Dandy area.
QUAD Bull Canyon 7 1/2'
MAP MOAB

PROD No production prior to 1978.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1978

C-JD-8A, DOE Lease Tract

LOCATION: sec. 17, T. 46 N., R. 17 W.
LCRM This lease lies in the Jo Dandy area.
QUAD Bull Canyon 7 1/2'
MAP MOAB

PROD No production prior to 1978.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1978
C-JD-9, DOE Lease Tract

LOCATION: SE1/4 sec. 30, T. 46 N., R. 17 W.
LCRM Also sec. 19, 29. This lease lies on Monogram Mesa in the Jo Dandy area.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD No production prior to 1978.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
RMKS This property was formerly covered by Reserve Block USGB-7-JDGS.
DOI 1978

C-LP-23, DOE Lease Tract

LOCATION: NE1/4 sec. 21, T. 46 N., R. 17 W.
LCRM Also sec. 22, 26, 27, 28. This deposit lies in the Spring Creek Mesa area of the Uravan district.
QUAD Atkinson Creek 7 1/2'
MAP MOAB
PROD No production prior to 1978.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1978
Cabin View

LOCATION: sec. 33, T. 46 N., R. 18 W.
LCRM This deposit lies in Fawn Springs, Bull Canyon district.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 21 tons had been mined at a grade of 0.25% U3O8, producing 107 lbs of U3O8, and 1.91% V2O5, producing 804 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Calvert 2 (Calvert 3)

LOCATION: sec. 10, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 3.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 3,157 tons had been mined at a grade of 0.24% U3O8, producing 15,327 lbs of U3O8, and 1.18% V2O5, producing 74,758 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Camel (Camel Group, Leighton-Camel Group)

LOCATION: sec. 11, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 334 tons had been mined at a grade of 0.14% U3O8, producing 936 lbs of U3O8, and 1.06% V2O5, producing 7,081 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite-tyuyamunite, high vanadium, low lime.
DOI 1971

Canon 4, 5, 7

LOCATION: sec. 21, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 3,377 tons had been mined at a grade of 0.21% U3O8, producing 14,444 lbs of U3O8, and 1.31% V2O5, producing 88,306 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Canyon View

LOCATION: sec. 4, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show location as being sec. 19, T. 45 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 109 tons had been mined at a grade of 0.26% U3O8, producing 569 lbs of U3O8, and 2.24% V2O5, producing 4,873 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
Cedar Ridge Group (Cedar Ridge Bill #1-3)

LOCATION: sec. 34, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 13 tons had been mined at a grade of 0.11% U3O8, producing 29 lbs of U3O8, and 1.01% V2O5, producing 263 lbs of V205.
HOST Jurassic Morrison Formation.
DOI 1971

CFC

LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 680 tons had been mined at a grade of 0.50% U3O8, producing 6,852 lbs of U3O8, and 2.18% V2O5, producing 29,646 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, high lime.
DOI 1971

Checker

LOCATION: sec. 30, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 4 tons had been mined at a grade of 0.32% U3O8, producing 26 lbs of U3O8, and 0.72% V2O5, producing 58 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, high lime.
DOI 1971

Chesterfield Trespass (Pluto, Saturn)

LOCATION: NE1/4 sec. 13, T. 46 N., R. 18 W.
PROD As of 1971, 931 tons had been mined at a grade of 0.18% U3O8, producing 3,327 lbs of U3O8, and 0.87% V2O5, producing 16,264 lbs of V205.
HOST Jurassic Morrison Formation.
DOI 1971

Chipmunk 1

LOCATION: sec. 4, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 51 tons had been mined at a grade of 0.10% U3O8, producing 98 lbs of U3O8, and 1.33% V2O5, producing 1,357 lbs of V205.
HOST Jurassic Morrison Formation.
DOI 1971
As of 1971, 5,251 tons had been mined at a grade of 0.25% U3O8, producing 26,633 lbs of U3O8, and 1.12% V2O5, producing 127,388 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member. A buff, massive, medium-grained sandstone and thinly laminated sandstone and mudstone with sparse to abundant carbonized logs and other plant remains.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime, coffinite.

DOI 1971


Cliffdweller 2

LOCATION: sec. 34, T. 46 N., R. 19 W.

LCRM U.S. A.E.C. Production Records also show location as sec. 3, T. 45 N., R. 19 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 144 tons had been mined at a grade of 0.58% U3O8, producing 1,659 lbs of U3O8, and 2.52% V2O5, producing 7,254 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Clyde J. Wright (Pinion and Cedar Groups)

LOCATION: sec. 24, T. 48 N., R. 19 W.

QUAD Roc Creek 7 1/2'

MAP MOAB

PROD As of 1971, 9,900 tons had been mined at a grade of 0.31% U3O8, producing 61,790 lbs of U3O8, and 1.58% V2O5, producing 312,272 lbs of V2O5.

HOST Salt Wash Member of the Jurassic Morrison Formation. A buff, massive, medium-grained sandstone and thinly laminated sandstone and mudstone with sparse to abundant carbonized logs and other plant remains.

MNZ Coffinite, carnotite, tyuyamunite.

DOI 1971


Coloradium

LOCATION: sec. 21, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2', Uravan 7 1/2'

PROD As of 1971, 26,665 tons had been mined at a grade of 0.30% U3O8, producing 159,598 lbs of U3O8, and 1.62% V2O5, producing 864,208 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Columbus

LOCATION: sec. 2, T. 46 N., R. 17 W.

LCRM U.S. A.E.C. Production Records also show location as sec. 6, 7, T. 46 N., R. 16 W.

QUAD Uravan 7 1/2'

PROD As of 1971, 96 tons had been mined at a grade of 0.68% U3O8, producing 293 lbs of U3O8, and 1.06% V2O5, producing 1,039 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member. A buff, massive, medium-grained sandstone with sparse to abundant carbonized logs and other plant remains.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime, coffinite.

DOI 1971

CONFUSION MINE (Angle)  
LOCATION: sec. 1, T. 47 N., R. 20 W.  
QUAD: Mount Peale 1 SE 7 1/2.  
PROD: As of 1971, 621 tons had been mined at a grade of 0.41% U3O8, producing 6,755 lbs of U3O8, and 2.17% V2O5, producing 35,641 lbs of V2O5.  
HOST: Jurassic Morrison Formation.  
DOE: 1971  

COTTONWOOD 1, 2, 3 (Red Bird Group)  
LOCATION: SW1/4 sec. 33, T. 46 N., R. 19 W.  
QUAD: Anderson Mesa 7 1/2.  
PROD: As of 1971, 323 tons had been mined at a grade of 0.10% U3O8, producing 193 lbs of U3O8, and 0.32% V2O5, producing 605 lbs of V2O5.  
HOST: Jurassic Morrison Formation, Salt Wash Member.  
MNZ: Uranium, vanadium.  
DOE: 1971  

COPPER JACK (Radium King)  
LOCATION: sec. 19, T. 48 N., R. 18 W.  
QUAD: Roc Creek 7 1/2.  
PROD: As of 1971, 399 tons had been mined at a grade of 0.21% U3O8, producing 1,654 lbs of U3O8, and 1.72% V2O5, producing 13,693 lbs of V2O5.  
HOST: Jurassic Morrison Formation, Salt Wash Member.  
MNZ: Uranium, vanadium.  
DOE: 1971  

CREEK 2  
LOCATION: sec. 21, T. 47 N., R. 17 W.  
QUAD: Davis Mesa 7 1/2, Uravan 7 1/2.  
MAP: MOAB  
PROD: As of 1971, 38 tons had been mined at a grade of 0.16% U3O8, producing 122 lbs of U3O8, and 1.28% V2O5, producing 972 lbs of V2O5.  
HOST: Jurassic Morrison Formation.  
DOE: 1971  
Cripple Creek (Cripple Creek No. 1)

LOCATION: sec. 21, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 28.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 4,789 tons had been mined at a grade of 0.20% U3O8, producing 19,115 lbs of U3O8, and 1.27% V2O5, producing 121,461 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Cue Ball

LOCATION: sec. 3, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
PROD As of 1971, 50 tons had been mined at a grade of 0.34% U3O8, producing 411 lbs of U3O8, and 2.82% V2O5, producing 3,382 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Cycle 3

LOCATION: UNLOCATABLE
LCRM UNLOCATABLE
PROD As of 1971, 16 tons had been mined at a grade of 0.46% U3O8, producing 147 lbs of U3O8, and 2.16% V2O5, producing 692 lbs of V2O5.
DOI 1971

D & D 3

LOCATION: sec. 25, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
PROD As of 1971, 23 tons had been mined at a grade of 0.09% U3O8, producing 42 lbs of U3O8, and 0.57% V2O5, producing 260 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

D & D 5

LOCATION: sec. 30, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'

Dads (Carbon King, Shamrock 1-7, Piper 1-3, Kingpin 1-8, Runrock, Eclipse, A & H)

LOCATION: sec. 14, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
PROD As of 1971, 3,842 tons had been mined at a grade of 0.28% U3O8, producing 21,670 lbs of U3O8, and 1.58% V2O5, producing 121,689 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Dan Patch

LOCATION: sec. 35, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 34.
QUAD Uravan 7 1/2'
PROD As of 1971, 1,963 tons had been mined at a grade of 0.28% U3O8, producing 11,018 lbs of U3O8, and 1.44% V2O5, producing 56,345 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Dawn (Down)(Echo Group)

LOCATION: sec. 3, T. 45 N., R. 18 W.
LCRM UNLOCATABLE
PROD As of 1971, 7 tons had been mined at a grade of 0.16% U3O8, producing 23 lbs of U3O8, and 1.27% V2O5, producing 3,382 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Deer (July, Slim)

LOCATION: sec. 28, T. 46 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show sec. 27.
QUAD Bull Canyon 7 1/2', Naturita NW 7 1/2'
PROD As of 1971, 151,404 tons had been mined at a grade of 0.29% U3O8, producing 779,926 lbs of U3O8, and 1.5% V2O5, producing 4,633,542 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadinite, high vanadium, low lime.
DOI 1971
Deer Shaft

LOCATION: sec. 27, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

Diana (Mitchell-Archer Group)

LOCATION: sec. 14, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 11 and 16.
QUAD Bull Canyon 7 1/2'
PROD As of 1971, 16,362 tons had been mined at a grade of 0.27% U3O8, producing 88,728 lbs of U3O8, and 2.18% V2O5, producing 712,389 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Dora Mine (Yellowbird)

LOCATION:
LCST UNLOCATABLE
MAP MOAB
PROD As of 1971, 186 tons had been mined at a grade of 0.42% U3O8, producing 1,563 lbs of U3O8, and 1.17% V2O5, producing 4,353 lbs of V2O5.
DOI 1971

Dolores Mine (Pippy)

LOCATION: sec. 19, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
PROD As of 1971, 10,224 tons had been mined at a grade of 0.53% U3O8, producing 66,974 lbs of U3O8, and 1.62% V2O5, producing 331,045 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Donald L

LOCATION: sec. 21, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 28.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
PROD As of 1971, 47,279 tons had been mined at a grade of 0.35% U3O8, producing 328,987 lbs of U3O8, and 1.85% V2O5, producing 1,747,779 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Donald L Dump

LOCATION: sec. 27, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

Donna K

LOCATION: sec. 30, T. 47 N., R. 16 W.
QUAD Uravan 7 1/2'
PROD As of 1971, 2,050 tons had been mined at a grade of 0.26% U3O8, producing 10,542 lbs of U3O8, and 0.50% V2O5, producing 20,385 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

Dorothy (M.U. #141, Grace Chato)

LOCATION: sec. 17, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 20.
QUAD Davis Mesa 7 1/2'
PROD As of 1971, 5,951 tons had been mined at a grade of 0.23% U3O8, producing 26,886 lbs of U3O8, and 1.13% V2O5, producing 134,250 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

Dorothy E

LOCATION: sec. 18, T. 48 N., R. 18 W.
LCRM This deposit lies in the Carpenter Ridge area.
QUAD Roco Creek 7 1/2'
PROD As of 1971, 22 tons had been mined at a grade of 0.18% U3O8, producing 79 lbs of U3O8, and 1.19% V2O5, producing 522 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Dorothy Jean No. 1

LOCATION: sec. 18, T. 46 N., R. 17 W.
Montrose County

QUAD Bull Canyon 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

Double Jack
LOCATION: sec. 30, T. 47 N., R. 16 W.
QUAD Urvan 7 1/2'
PROD As of 1971, 445 tons had been mined at a
grade of 0.22% U308, producing 1,956 lbs
of U308, and 1.52% V205, producing 13,499
lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Dry Creek Prospect
LOCATION: sec. 4, T. 48 N., R. 11 W.
QUAD Dry Creek Basin 7 1/2'
MNZ Uranium, vanadium.
DOI 1975

Duchess 2, 3 (Duchess Group, Duchess, Duke 1-3,
Persistence 1-5, Phantom 1-5, Bald Eagle, Red Dog)
LOCATION: sec. 34, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show
sec. 26, 27, 33, and 35.
QUAD Davis Mesa 7 1/2', Red Canyon 7 1/2'
PROD As of 1971, 2,143 tons had been mined at
a grade of 0.22% U308, producing 9,580 lbs
of U308, and 1.53% V205, producing 65,689
lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite,
high vanadium, low lime.
DOI 1971

Dugans Adit
LOCATION: sec. 20, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MNZ Uranium, vanadium.
RMKS This is an alternate mine entry that serves
the Mineral Joe Group and also C-JD-6, DOE
Lease Tract.
DOI 1971
Mines, 1977,(Unpubl.).

Dusty Dump
LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MNZ Uranium, vanadium.
DOI 1971

Eagle Rock 1
LOCATION:
Montrose County

Eight Ball (Julian Group, Eagle Basin)

LOCATION: sec. 3, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 4 in Uravan 7-1/2'.
MAP MOAB
PROD As of 1971, 582 tons had been mined at a grade of 0.24% U308, producing 2,771 lbs of U308, and 1.76% V205, producing 20,514 lbs of V205.
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uraninite, coffinite, high vanadium, low lime.
DOI 1971

Eula Belle Craig

LOCATION: sec. 31, T. 49 N., R. 17 W.
LCRM Also sec. 32.
QUAD Red Canyon 7-1/2'
MAP MOAB
PROD As of 1971, 319,597 tons had been mined at a grade of 0.25% U308, producing 1,576,435 lbs of U308, and 0.87% V205, producing 5,591,420 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

Equinox

LOCATION: sec. 11, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 12.
QUAD Red Canyon 7-1/2'
MAP MOAB
PROD As of 1971, 8,844 tons had been mined at a grade of 0.19% U308, producing 32,902 lbs of U308, and 0.81% V205, producing 143,243 lbs of V205.
HOST Jurassic Morrison Formation.

Elizabeth Ann 1 & 2

LOCATION: sec. 33, T. 46 N., R. 18 W.
LCRM This deposit lies in the Bull Canyon district.
QUAD Bull Canyon 7-1/2'
MAP MOAB
PROD As of 1971, 5 tons had been mined at a grade of 0.21% U308, producing 21 lbs of U308, and 2.23% V205, producing 223 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite, coffinite, high vanadium, low lime.
DOI 1971

Elyra Mine

LOCATION: sec. 30, T. 47 N., R. 19 W.
QUAD Mount Peale 1 SE 7-1/2'
MAP MOAB
MNZ Uraninite, coffinite, high vanadium, low lime.
DOI 1975

Evening Star Mine (Lion Creek Group)(Incline 2, Stick Rock, September, Soldier Boy)

LOCATION: sec. 11, T. 47 N., R. 20 W.
LCRM U.S. A.E.C. Production Records also show location as being sec. 3, T. 46 N., R. 18 W.
QUAD Mount Peale 1 SE 7-1/2'
MAP MOAB
PROD As of 1971, 16,449 tons had been mined at a grade of 0.21% U308, producing 69,141 lbs of U308, and 1.57% V205, producing 515,629 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uraninite, coffinite, high vanadium, low lime.
DOI 1971

Expecant 1 (Rambler)

LOCATION: sec. 3, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7-1/2'
MAP MOAB
PROD As of 1971, 2 tons had been mined at a grade of 0.28% U308, producing 11 lbs of U308, and 1.27% V205, producing 51 lbs of V205.
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uraninite, coffinite, high vanadium, low lime.
DOI 1971
MONTROSE COUNTY

Fairy Queen (Fairy King & Fairy Queen)

LOCATION: sec. 10, T. 47 N., R. 17 W.
QUAD Urvan 7 1/2'
MAP MOAB
PROD As of 1971, 822 tons had been mined at a
grade of 0.24% U3O8, producing 3,956 lbs
of U3O8, and 0.83% V2O5, producing 13,635
lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fairy Boy

LOCATION: sec. 22, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 3,189 tons had been mined at a
grade of 0.32% U3O8, producing 19 lbs of U3O8, and
2.00% V2O5, producing 120 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Fairy Girl

LOCATION: sec. 22, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 532 tons had been mined at a
grade of 0.18% U3O8, producing 1,934 lbs
of U3O8, and 1.61% V2O5, producing 17,079
lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Fawn Springs 3

LOCATION: sec. 6, T. 45 N., R. 17 W.
LCST UNLOCATABLE
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 532 tons had been mined at a
grade of 0.18% U3O8, producing 1,934 lbs
of U3O8, and 1.61% V2O5, producing 17,079
lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fawn Springs 4, 10

LOCATION: sec. 6, T. 45 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 4,142 tons had been mined at a
grade of 0.27% U3O8, producing 21,956
lbs of U3O8, and 1.72% V2O5, producing 142,716
lbs of V2O5.
HOST Jurassic Morrison Formation.

Fawn Springs 9

LOCATION: sec. 6, T. 45 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 4,416 tons had been mined at a
grade of 0.23% U3O8, producing 19,930
lbs of U3O8, and 1.21% V2O5, producing 106,972
lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1917
Montrose County

Fawn Springs 18
LOCATION: sec. 6, T. 45 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 10,988 tons had been mined at a grade of 0.21% U3O8, producing 45,493 lbs of U3O8, and 1.68% V2O5, producing 370,715 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fawn Springs 11
LOCATION: sec. 31, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 15,821 tons had been mined at a grade of 0.21% U3O8, producing 66,246 lbs of U3O8, and 1.41% V2O5, producing 446,943 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fawn Springs 29
LOCATION: sec. 6, T. 45 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 350 tons had been mined at a grade of 0.20% U3O8, producing 1,378 lbs of U3O8, and 1.82% V2O5, producing 12,768 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fawn Springs 21
LOCATION: SE1/4 sec. 6, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,401 tons had been mined at a grade of 0.18% U3O8, producing 4,939 lbs of U3O8, and 1.24% V2O5, producing 34,859 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fawn Springs 30
LOCATION: sec. 5, T. 45 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 813 tons had been mined at a grade of 0.16% U3O8, producing 2,525 lbs of U3O8, and 1.28% V2O5, producing 20,884 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fifth National Bank
LOCATION: sec. 28, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
PROD As of 1971, 764 tons had been mined at a grade of 0.28% U3O8, producing 4,217 lbs of U3O8, and 1.98% V2O5, producing 30,307 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Firebird Mine
LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 5,386 tons had been mined at a grade of 0.30% U3O8, producing 32,247 lbs of U3O8, and 1.29% V2O5, producing 138,720 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Firecracker
LOCATION: sec. 35, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 35,984 tons had been mined at a grade of 0.30% U3O8, producing 216,841 lbs of U3O8, and 1.81% V2O5, producing 1,301,741 lbs of V2O5.
HOST Jurassic Morrison Formation.
Montrose County

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DO1 1971

First National Bank

LOCATION: sec. 20, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show this as being in sec. 21, 28.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 24,074 tons had been mined at a grade of 0.28% U3O8, producing 136,068 lbs of U3O8, and 1.34% V2O5, producing 643,215 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DO1 1971

Flat Top

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in Gypsum Valley.
MAP MOAB
PROD As of 1971, 14 tons had been mined at a grade of 0.21% U3O8, producing 60 lbs of U3O8, and 1.33% V2O5, producing 372 lbs of V2O5.
DO1 1971

Florence Nellie, 75 50, 50 50, 25 50, 10 50

LOCATION: S 1/2 sec. 9, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2' and Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 6,774 tons had been mined at a grade of 0.20% U3O8 and 0.91% V2O5, producing 25,728 lbs of U3O8 and 123,122 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite.
DO1 1971

Fossil

LOCATION: sec. 7, T. 45 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 6.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 220 tons had been mined at a grade of 0.17% U3O8, producing 746 lbs of U3O8, and 1.33% V2O5, producing 5,833 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DO1 1971

Fourth National Bank

LOCATION: sec. 28, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 433 tons had been mined at a grade of 0.25% U3O8, producing 2,181 lbs of U3O8, and 1.66% V2O5, producing 14,417 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DO1 1971

Fox (Little Dick)

LOCATION: sec. 30, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 351 tons had been mined at a grade of 0.86% U3O8, producing 6,606 lbs of U3O8, and 1.49% V2O5, producing 10,458 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
Brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DO1 1971

Fox Cistern

LOCATION: sec. 30, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 19.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 15,791 tons had been mined at a grade of 0.23% U3O8, producing 73,245 lbs of U3O8, and 1.33% V2O5, producing 421,279 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DO1 1971

Fraction (Fraction South)

LOCATION: sec. 19, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 7,500 tons had been mined at a grade of 0.20% U3O8, producing 30,329 lbs of U3O8, and 0.95% V2O5, producing 142,377 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DO1 1971
Montrose County

Franklin
LOCATION: sec. 11, T. 45 N., R. 19 W.
DOI 1958

Franklin 1, 2 (Red Bird Group)
LOCATION: sec. 33, T. 46 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD By 1971, 175 tons had been mined at a grade of 0.18% U3O8, producing 626 lbs of U3O8, and 1.72% V2O5, producing 6,028 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Gilbert
LOCATION: sec. 32, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 5,598 tons had been mined at a grade of 0.17% U3O8, producing 19,246 lbs of U3O8, and 1.63% V2O5, producing 183,015 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Gnome
LOCATION: sec. 17, T. 47 N., R. 17 W.
LCRM This deposit lies in the Long Park district.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 26 tons had been mined at a grade of 0.78% U3O8, producing 407 lbs of U3O8, and 2.52% V2O5, producing 1,310 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Golden Eagle
LOCATION: S1/2 sec. 10, T. 47 N., R. 17 W.
DOI 1958

Golden Eagle 14 & 16
LOCATION: sec. 9, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1975

Golden Eagle 23
LOCATION: sec. 9, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 598 tons had been mined at a grade of 0.29% U3O8, producing 3,478 lbs of U3O8, and 2.01% V2O5, producing 24,047 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Good Hope Red Fox
LOCATION: sec. 10, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 9 tons had been mined at a grade of 0.19% U3O8, producing 34 lbs of U3O8, and 1.25% V2O5, producing 225 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Gramlich Group
LOCATION: W1/2 sec. 1, T. 47 N., R. 20 W.
DOI 1958

Grand Dad
LOCATION: LCST UNLOCATABLE
LCRM This deposit lies in the Carpenter Ridge area.
MAP MOAB
PROD As of 1971, 7 tons had been mined at a grade of 0.33% U3O8, producing 46 lbs of U3O8, and 2.36% V2O5, producing 331 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Grass Roots
LOCATION: sec. 27, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 34.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 2,169 tons had been mined at a grade of 0.21% U3O8, producing 9,203 lbs of U3O8, and 1.00% V2O5, producing 45,448 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

309
Grass Roots Dump

LOCATION: sec. 27, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 34.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD Prior to 1971, 598 tons had been recovered from the Grass Roots mine dump at a grade of 0.10% U₃O₈, producing 1,172 lbs of U₃O₈, and 0.56% V₂O₅, producing 6,641 lbs of V₂O₅.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Gray Dump

LOCATION: sec. 13, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,292 tons had been mined at a grade of 0.16% U₃O₈, producing 4,221 lbs of U₃O₈, 0.74% V₂O₅, producing 19,105 lbs of V₂O₅.
HOST Jurassic Morrison Formation, Brushy Basin Member.
MNZ Uranium, vanadium, carnitite - tyuyamunite, low vanadium, low lime.
DOI 1971

Gray Fox

LOCATION: sec. 11, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 10. This deposit lies in Eagle Basin.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 117 tons had been mined at a grade of 0.26% U₃O₈, producing 620 lbs of U₃O₈, and 1.16% V₂O₅, producing 2,724 lbs of V₂O₅.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Greeror Group

LOCATION: sec. 4, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show sec. 4, 5, T. 45 N., R. 18 W. and sec. 29, 32, 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 18,717 tons had been mined at a grade of 0.25% U₃O₈, producing 92,244 lbs of U₃O₈, and 1.58% V₂O₅, producing 591,568 lbs of V₂O₅.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Great Western Dump

LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD Prior to 1971, 212 tons had been recovered from the Great Western Mine dump at a grade of 0.17% U₃O₈, producing 732 lbs of U₃O₈, and 0.92% V₂O₅, producing 3,886 lbs of V₂O₅.
HOST Jurassic Morrison Formation.
MNZ Carnitite.
DOI 1971

Great Western (Mineral Survey 2018m)

LOCATION: SW1/4 sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 10,117 tons had been mined at a grade of 0.28% U₃O₈, producing 56,234 lbs of U₃O₈, and 1.32% V₂O₅, producing 266,706 lbs of V₂O₅.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

310
Montrose County

Greenback (Mineral Survey 20233)

LOCATION: sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 2,303 tons had been mined at a grade of 0.26% U3O8, producing 12,117 lbs of U3O8, and 0.86% V2O5, producing 39,705 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Groundhog Mine

LOCATION: sec. 20, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 17.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 6,192 tons had been mined at a grade of 0.29% U3O8, producing 35,832 lbs of U3O8, and 1.31% V2O5, producing 152,050 lbs of V2O5.
HOST Jurassic Morrison Formation, Brushy Basin Member. Mostly fine-grained sandstone, locally coarse-grained and conglomeratic, with abundant carbonized logs and plant trash.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Groundhog #2

LOCATION: NE1/4 sec. 16, T. 48 N., R. 19 W.
DOI 1958

Guadalcanal Mine (Long Park 17, Tumis)

LOCATION: sec. 27, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 53,740 tons had been mined at a grade of 0.30% U3O8, producing 327,358 lbs of U3O8, and 1.71% V2O5, producing 1,838,335 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Gyp Lease (Gyp 1-3, Surprise)

LOCATION: sec. 10, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 3 & 10.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 4,470 tons had been mined at a grade of 0.23% U3O8, producing 20,403 lbs of U3O8, and 1.48% V2O5, producing 132,296 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member: a fine- to medium- fine-grained sandstone with abundant carbonized plant remains and some logs.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Happy Jack (Robert Lee #3)

LOCATION: sec. 4, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD By 1971, 1,364 tons had been mined at a grade of 0.30% U3O8, producing 8,070 lbs of U3O8, and 1.44% V2O5, producing 39,315 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Happy Joe (Happy Joe No. 1, Miracle)

LOCATION: sec. 2, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 3, 10, and 11.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 63 tons had been mined at a grade of 0.74% U3O8, producing 929 lbs of U3O8, and 3.20% V2O5, producing 4,037 lbs of V2O5.
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
Montrose County

HAPPY ST.

LOCATION: sec. 20, T. 47 N., R. 17 W.
LCRM Also sec. 21.
QUAD Davis Mesa 7 1/2
MAP MOAB
PROD As of 1971, 29,782 tons had been mined at a grade of 0.21% U3O8, producing 127,542 lbs of U3O8, and 1.09% V2O5, producing 648,668 lbs of V2O5.
HOST Jurasssic Morrison Formation.
MINZ Uranium, vanadium, carnotite - tyyumanite, high vanadium, low lime.
DOI 1971

HAPPY THOUGHT

LOCATION: sec. 18, T. 46 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 17.
QUAD Bull Canyon 7 1/2
MAP MOAB
PROD As of 1971, 15,253 tons had been mined at a grade of 0.52% U3O8, producing 157,484 lbs of U3O8, and 1.46% V2O5, producing 406,977 lbs of V2O5.
HOST Jurasssic Morrison Formation, Salt Wash Member: Fine- to medium- fine-grained sandstone, with abundant carbonized plant remains and with logs common.
MINZ Uranium, vanadium, carnotite - tyyumanite, uraninite, coffinite, high vanadium, low lime.
DOI 1971

HAPPY, HAPPY WEST, HAPPY NO. 1

LOCATION: sec. 21, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2' and Uravan 7 1/2'
MAP MOAB
MINZ Uranium, vanadium.
DOI 1975

HARD LUCK (HOT DOG, HARD LUCK 1-5)

LOCATION: sec. 3, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 25 tons had been mined at a grade of 0.13% U3O8, producing 64 lbs of U3O8, and 0.51% V2O5, producing 256 lbs of V2O5.
DOI 1971

HARDROCK

LOCATION: sec. 18, T. 46 N., R. 16 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 192 tons had been mined at a grade of 0.18% U3O8, producing 687 lbs of U3O8, and 0.80% V2O5, producing 3,074 lbs of V2O5.

HOST Jurassic Morrison Formation.
MINZ Uranium, vanadium, carnotite - tyyumanite, high vanadium, low lime.
DOI 1971

HAROLD (GILBERT CLAIM)

LOCATION: sec. 32, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 650 tons had been mined at a grade of 0.20% U3O8, producing 2,603 lbs of U3O8, and 1.70% V2O5, producing 22,117 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MINZ Uranium, vanadium, carnotite - tyyumanite, high vanadium, low lime.
DOI 1971

HARRISON-BURNETT AND SMALL-LEE

LOCATION: sec. 6, T. 45 N., R. 16 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
MINZ Uranium, vanadium.
DOI 1975

HATCH NO. 8 (ECCHO GROUP)

LOCATION: sec. 2, T. 45 N., R. 18 W.
LCRM This deposit lies in the Bull Canyon district.
PROD There are reserves, but there was no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

HENRY CLAY DUMPS

LOCATION: sec. 29, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD Prior to 1971, 2,688 tons had been recovered at a grade of 0.06% U3O8, producing 3,346 lbs of U3O8, and 0.39% V2O5, producing 20,379 lbs of V2O5.
HOST Jurassic Morrison Formation.
MINZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

HENRY CLAY MINE

LOCATION: sec. 29, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 18,023 tons had been mined at a grade of 0.31% U3O8, producing 110,195 lbs of U3O8, and 1.51% V2O5, producing 542,676 lbs of V2O5.
Montrose County

HOST  Salt Wash Member of the Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


HIDDEN BASIN

LOCATION:  sec. 20, T. 47 N., R. 17 W.

LCRM  U.S. A.E.C. Production Records also show sec. 15, 21.

QUAD  Davis Mesa 7 1/2'

MAP  MOAB

PROD  As of 1971, 29,289 tons had been mined at a grade of 0.29% U3O8, producing 167,598 lbs of U3O8, and 1.35% V2O5, producing 788,756 lbs of V2O5.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite (coffinite), high vanadium, low lime.

DOI  1971


HIGH BALL  5

LOCATION:  sec. 26, T. 46 N., R. 18 W.

LCRM  U.S. A.E.C. Production Records also show sec. 35.

QUAD  Bull Canyon 7 1/2'

MAP  MOAB

PROD  As of 1971, 613 tons had been mined at a grade of 0.24% U3O8, producing 2,917 lbs of U3O8, and 1.03% V2O5, producing 12,573 lbs of V2O5.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


HOB0

LOCATION:  sec. 32, T. 46 N., R. 18 W.

DOI  1958


HOMESTEAD

LOCATION:  sec.

LCRT  UNLOCATABLE

MAP  MOAB

PROD  As of 1971, 7 tons had been mined at a grade of 0.21% U3O8, producing 30 lbs of U3O8, and 1.95% V2O5, producing 273 lbs of V2O5.

DOI  1971


HONEymoon (Phonograph)

LOCATION:  sec. 20, T. 47 N., R. 17 W.

QUAD  Davis Mesa 7 1/2'

MAP  MOAB

PROD  As of 1971, 38,548 tons had been mined at a grade of 0.22% U3O8, producing 170,310 lbs of U3O8, and 0.47% V2O5, producing 363,055 lbs of V2O5.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


HONEYMOON DUMPS

LOCATION:  sec. 20, T. 47 N., R. 17 W.

QUAD  Davis Mesa 7 1/2'

MAP  MOAB

PROD  Prior to 1971, 11,655 tons had been recovered from the Honeymoon Mine dump at a grade of 0.09% U3O8, producing 21,017 lbs of U3O8.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


HORSEHAIR  1

LOCATION:  sec. 1, T. 45 N., R. 18 W.

LCRM  U.S. A.E.C. Production Records show location as sec. 36, T. 46 N., R. 18 W.

QUAD  Bull Canyon 7 1/2'

MAP  MOAB

PROD  As of 1971; 1,837 tons had been mined at a grade of 0.19% U3O8, producing 7,092 lbs of U3O8, and 1.27% V2O5, producing 46,620 lbs of V2O5.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


HORSEHAIR GROUP (HORSEHAIR 2-5)

LOCATION:  sec. 2, T. 45 N., R. 18 W.

LCRM  U.S. A.E.C. Production Records show location as sec. 36, T. 46 N., R. 18 W.

QUAD  Bull Canyon 7 1/2'

MAP  MOAB

PROD  As of 1971; 1,837 tons had been mined at a grade of 0.19% U3O8, producing 7,092 lbs of U3O8, and 1.27% V2O5, producing 46,620 lbs of V2O5.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium.

DOI  1971


HOT ROCKS, BOOMER AND POLE CAT (HOT ROCK 1-5)

LOCATION:  sec. 9, T. 46 N., R. 19 W.

LCRM  U.S. A.E.C. Production Records show location as sec. 12, T. 46 N., R. 17 W.

QUAD  Paradox 7 1/2' or Anderson Mesa 7 1/2'
Montrose County

MNZ Uranium, vanadium, carnotite - tyuyamunite, bayelite, uraninite, coffinite, meta - tyuyamunite, rauvite, high vanadium, low lime.

DOI 1971


Hummer Dumps (Joe Dandy Dump)

LOCATION: sec. 21, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD Prior to 1971, 334 tons had been recovered from the Hummer Mine dumps at a grade of 0.08% U3O8, producing 1,395 lbs of U3O8, and 0.43% V2O5, producing 7,195 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member; fine - to medium-grained sandstone, shaly sandstone and shale-pebble conglomerate. It contains abundant carbonized plant remains and sparse carbonized logs.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Ilene (Mexico Group)

LOCATION: sec. 21, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 24 tons had been mined at a grade of 0.06% U3O8, producing 29 lbs of U3O8, and 0.67% V2O5, producing 329 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Independence

LOCATION: sec. 12, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
HOST Jurasssic Morrison Formation.

MNZ Uranium, vanadium.

DOI 1971


Index

LOCATION: sec. 2, T. 48 N., R. 18 W.
QUAD U.S. A.E.C. Production Records also show sec. 11 and 14.
MAP MOAB
HOST Jurasssic Morrison Formation.

MNZ Uranium, vanadium.
Montrose County

DOI 1971

Indians

LOCATION: sec. 24, T. 48 N., R. 18 W.
DOI 1958

Invincible

LOCATION: sec. 3, T. 48 N., R. 17 W.
QUAD Atkinson Creek 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Irene

LOCATION: sec. 29, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,483 tons had been mined at a grade of 0.34% U3O8, producing 10,087 lbs of U3O8, and 1.17% V2O5, producing 34,596 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Island View 1-2 (Island View 2)

LOCATION: sec. 11, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 12.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 21 tons had been mined at a grade of 0.26% U3O8, producing 85 lbs of U3O8, and 1.50% V2O5, producing 630 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

J M

LOCATION: sec. 32, T. 48 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

J B. Group

LOCATION: sec. 3, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'

Jack Rabbit (Echo Group)

LOCATION: sec. 11, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show sec. 2.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 93 tons had been mined at a grade of 0.45% U3O8, producing 840 lbs of U3O8, and 2.48% V2O5, producing 4,614 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971

Jackpot Mines No. 2 & 3 (Jackpot Group)

LOCATION: sec. 2, T. 48 N., R. 20 W.
QUAD Mount Peale 1 NE 7 1/2'
MAP MOAB
PROD As of 1971, 19 tons had been mined at a grade of 0.15% U3O8, producing 56 lbs of U3O8, and 1.27% V2O5, producing 432 lbs of V2O5.
HOST Jurassic Morrison Formation.
MONTROSE COUNTY

MNZ Uranium, vanadium.
DOI 1971

Jeep

LOCATION: sec. 18, T. 47 N., R. 17 W.
LCRM This deposit lies in the Uravan district. The claim was staked over the patented Monitor Claim, MS 20214.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 15 tons had been mined at a grade of 0.24% U3O8, producing 72 lbs of U3O8, and 1.15% V205, producing 344 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Jitterbug

LOCATION: sec. 21, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 191 tons had been mined at a grade of 0.17% U3O8, producing 652 lbs of U3O8, and 2.51% V205, producing 9,580 lbs of V205.
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Joanne Group (Jo Ann 1-7)

LOCATION: sec. 25, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 529 tons had been mined at a grade of 0.14% U3O8, producing 1,445 lbs of U3O8, and 1.04% V205, producing 11,016 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Joe

LOCATION: sec. 20, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 5,052 tons had been mined at a grade of 0.24% U3O8, producing 23,904 lbs of U3O8, and 1.27% V205, producing 127,867 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.

Jo Ann

LOCATION: sec. 21, T. 48 N., R. 17 W.
QUAD Bull Canyon 7 1/2' or Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 19,861 tons had been mined at a grade of 0.23% U3O8, producing 90,763 lbs of U3O8, and 1.09% V205, producing 431,462 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member. The rock is a light-gray and brown fine-to medium-grained sandstone, shaly sandstone and shale-pebble conglomerate. It contains abundant carbonized plant remains and sparse carbonized logs.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime, meta - tyuyamunite, coffinite, uraninite, rauvite, bayleyite.
DOI 1971

Joe Jr.

LOCATION: SW1/4 sec. 33, T. 48 N., R. 17 W.
DOI 1958

Joe Pete

LOCATION: sec. 13, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Joe Riverside, Joe (Skalla) Mine

LOCATION: sec. 29, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show only sec. 20 and 24.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 19,761 tons had been mined at a grade of 0.24% U3O8, producing 95,761 lbs of U3O8, and 1.06% V205, producing 420,454 lbs of V205.
Montrose County

HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

John Z

LOCATION: sec. 10, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 11, 14 and 15.
QUAD Davis Mesa 7 1/2' and Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 565 tons had been mined at a grade of 0.30% U3O8, producing 3,379 lbs of U3O8, and 1.49% V2O5, producing 15,803 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Joker

LOCATION: NW1/4 sec. 24, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 11, 14 and 15.
QUAD Davis Mesa 7 1/2' and Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 565 tons had been mined at a grade of 0.30% U3O8, producing 3,379 lbs of U3O8, and 1.49% V2O5, producing 15,803 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Joker (Black Jack, Log Cabin, West)

LOCATION: sec. 35, T. 46 N., R. 18 W.
LCRM Also sec. 34 - Bull Canyon district, Corral Group locality.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 633 tons had been mined at a grade of 0.31% U3O8, producing 3,969 lbs of U3O8, and 1.48% V2O5, producing 18,708 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite.
DOI 1971

Jumbo

LOCATION: sec. 11, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 10.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 48 tons had been mined at a grade of 0.25% U3O8, producing 242 lbs of U3O8, and 1.82% V2O5, producing 1,744 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Jungle Basin (Lone Cedar, Vanadium Bar, Tip Top)

LOCATION: SW1/4 sec. 35, T. 46 N., R. 17 W.
LCST UNLOCATABLE
LCRM Bull Canyon district.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 10 tons had been mined at a grade of 0.03% U3O8, producing 6 lbs of U3O8, and 0.21% V2O5, producing 43 lbs of V2O5.
DOI 1971

Just Right

LOCATION: sec. 31, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2', Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 3,647 tons had been mined at a grade of 0.22% U3O8, producing 16,074 lbs of U3O8, and 1.36% V2O5, producing 99,416 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Keystone Claims

LOCATION: sec. 6, T. 48 N., R. 19 W.
QUAD Mount Peale 1 NE 1/2
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

King

LOCATION: sec. 36, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2', Davis Mesa 7 1/2'
MAP MOAB
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

King Solomon #1

LOCATION: sec. 24, T. 48 N., R. 18 W.
DOI 1958

La Salle Mine, Le Salle Group (10, AEC Mining Lease) (C-CM-25, DOE Lease Tract)

LOCATION: sec. 5, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
RMKS See C-CM-25, DOE Lease Tract.
DOI 1975

Lark

LOCATION: sec. 11, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 24,135 tons had been mined at a grade of 0.19% U3O8, producing 92,760 lbs of U3O8, and 1.44% V2O5, producing 694,466 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Last Chance

LOCATION: SW1/4 sec. 19, T. 48 N., R. 17 W.
DOI 1958

Last Chance 1 (Last Chance #1-10)

LOCATION: sec. 9, T. 48 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show location as sec. 14 and 23, T. 47 N., R. 17 W.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 852 tons had been mined at a grade of 0.28% U3O8, producing 4,706 lbs of U3O8, and 1.55% V2O5, producing 26,435 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low lime.
DOI 1971

Last Chance No. 4

LOCATION: sec. 9, T. 48 N., R. 19 W.
LCRM Also sec. 10.
PROD As of 1971, 200 tons of ore had been mined at a grade of 0.26% U3O8, and 1.72% V2O5, producing 1,101 lbs of U3O8 and 7,051 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971

Last Chance-Long Shot

LOCATION:
LCST UNLOCATABLE
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Last Dollar

LOCATION: sec. 17, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 32 tons had been mined at a grade of 0.10% U3O8, producing 62 lbs of U3O8, and 0.66% V2O5, producing 425 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
As of 1971, 3 tons had been mined at a grade of 0.25% U$_3$O$_8$, producing 675 lbs of U$_3$O$_8$, and 1.48% V$_2$O$_5$, producing 5,817 lbs of V$_2$O$_5$.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Levi
LOCATION: sec. 9, T. 45 N., R. 18 W.
QUAD: Bull Canyon 7 1/2'
MAP: MOAB
PROD: As of 1971, 230 tons had been mined at a grade of 0.25% U$_3$O$_8$, producing 675 lbs of U$_3$O$_8$, and 1.48% V$_2$O$_5$, producing 5,817 lbs of V$_2$O$_5$.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Lilly Love
LOCATION: sec. 32, T. 47 N., R. 19 W.
DOI: 1958

Little Alice
LOCATION: sec. 13, T. 46 N., R. 18 W.
QUAD: Bull Canyon 7 1/2'
MAP: MOAB
MNZ: Uranium, vanadium.
DOI: 1975

Little Basin (Grass Roots)
LOCATION: sec. 27, T. 48 N., R. 17 W.
LCRM: U.S. A.E.C. Production Records also show sec. 34.
QUAD: Atkinson Creek 7 1/2'
MAP: MOAB
PROD: As of 1971, 14,853 tons had been mined at a grade of 0.25% U$_3$O$_8$, producing 81,956 lbs of U$_3$O$_8$, and 1.08% V$_2$O$_5$, producing 321,314 lbs of V$_2$O$_5$.

HOST: Salt Wash Member of the Jurassic Morrison Formation.
MNZ: Uranium, vanadium.
DOI: 1971

Little Buckhorn Group (Termitie 1-12)
LOCATION: sec. 10, T. 48 N., R. 19 W.
QUAD: Red Canyon 7 1/2'
MAP: MOAB
PROD: As of 1971, 3,968 tons had been mined at a grade of 0.30% U$_3$O$_8$, producing 24,053 lbs of U$_3$O$_8$, and 1.64% V$_2$O$_5$, producing 3,566 lbs of V$_2$O$_5$.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Little Hope
LOCATION: sec. 22, T. 48 N., R. 18 W.
QUAD: Red Canyon 7 1/2'
MAP: MOAB
PROD: As of 1971, 3 tons had been mined at a grade of 0.10% U$_3$O$_8$, producing 6 lbs of U$_3$O$_8$, and 3.13% V$_2$O$_5$, producing 188 lbs of V$_2$O$_5$.

HOST: Salt Wash Member of the Jurassic Morrison Formation.
MNZ: Uranium, vanadium.
DOI: 1971

Little Buckhorn Group (Termite 1-12)
LOCATION: sec. 10, T. 48 N., R. 19 W.
QUAD: Red Canyon 7 1/2'
MAP: MOAB
PROD: As of 1971, 3,968 tons had been mined at a grade of 0.30% U$_3$O$_8$, producing 24,053
Montrose County

Little Chief

LOCATION: sec. 13, T. 47 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 24, 23, T. 50 N., R. 20 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 7 tons had been mined at a grade of 0.06% U3O8, producing 9 lbs of U3O8, and 0.57% V2O5, producing 80 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Little Dick

LOCATION: sec. 30, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show only sec. 19.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 29,729 tons had been mined at a grade of 0.24% U3O8, producing 140,672 lbs of U3O8, and 1.29% V2O5, producing 756,852 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Little Dick Dumps

LOCATION: sec. 30, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show only sec. 19.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD Prior to 1971, 95 tons had been recovered from the Little Dick Mine dumps at a grade of 0.06% U3O8, producing 115 lbs of U3O8, and 0.34% V2O5, producing 645 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Little Jewel (Black Gem Group)

LOCATION: sec. 3, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'

MAP MOAB
PROD As of 1971, 292 tons had been mined at a grade of 0.39% U3O8, producing 2,303 lbs of U3O8, and 2.23% V2O5, producing 13,030 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Little Joe

LOCATION: sec. 14, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 9 tons had been mined at a grade of 0.22% U3O8, producing 40 lbs of U3O8, and 1.74% V2O5, producing 313 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Little Slip 1

LOCATION: sec. 16, T. 46 N., R. 17 W.
QUAD Uteuan
MAP MOAB
PROD As of 1971, 25 tons had been mined at a grade of 0.82% U3O8, producing 408 lbs of U3O8, and 3.20% V2O5, producing 1,601 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
RMKS Lohi is correct spelling, as recorded in county records.
DOI 1971

Lo High (Lohi)

LOCATION: sec. 17, T. 46 N., R. 17 W.
QUAD Uteuan
MAP MOAB
PROD As of 1971, 95 tons had been mined at a grade of 0.82% U3O8, producing 408 lbs of U3O8, and 3.20% V2O5, producing 1,601 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
RMKS Lohi is correct spelling, as recorded in county records.
DOI 1971

Log Cabin

LOCATION: sec. 35, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 2,152 tons had been mined at a grade of 0.27% U3O8, producing 11,105 lbs of U3O8, and 1.82% V2O5, producing 78,196 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

320
Montrose County


Lone Cedar (Jungle Basin 1-14, Vanadium Bar, Tip Top, Rose 1-5, Dry Basin 1-9, Jumbo 1-10, Speck 1-101)

LOCATION: sec. 34, T. 46 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 35, T. 46 N. R. 17 W. and sec. 2, 3, T. 45 N., R. 17 W.
QUAD Naturita 7 1/2'
MAP MOAB
PROD As of 1971, 33 tons had been mined at a grade of 0.44% U3O8, producing 291 lbs of U3O8, and 1.78% V2O5, producing 1,174 lbs of V2O5.
HOST Dakota Sandstone (?)
MNZ Uranium, vanadium.
DOI 1971

Lone Pine (Big Spruce 1-2, Golo)

LOCATION: sec. 5, T. 48 N., R. 19 W.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 2,813 tons had been mined at a grade of 0.27% U3O8, producing 15,281 lbs of U3O8, and 1.03% V2O5, producing 58,031 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Lone Pine No. 2

LOCATION: sec. 21, T. 24 S., R. 26 W.
LCRM Also sec. 22.
PROD Reserves developed, no production.
HOST Jurassic Morrison Formation.
DOI 1971

Long John

LOCATION: W1/2NW1/4SW1/4 sec. 4, T. 46 N., R. 19 W.
DOI 1958

Long Park 1

LOCATION: sec. 27, T. 47 N., R. 11 W.
LCRM Also sec. 34.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 38,448 tons had been mined at a grade of 0.27% U3O8, producing 208,495 lbs of U3O8, and 2.10% V2O5, producing 1,613,025 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
MNZ Carnotite - tyuyamunite, high vanadium, low lime, uraninite, coffinite, meta - tyuyamunite.
DOI 1971

Long Park 2

LOCATION: sec. 28, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 3,583 tons had been mined at a grade of 0.34% U3O8, producing 24,362 lbs of U3O8, and 1.62% V2O5, producing 115,765 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
MNZ Carnotite - tyuyamunite, high vanadium, low lime, uraninite, coffinite, meta-tyuyamunite.
DOI 1971

Long Park 3

LOCATION: sec. 28, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 9,454 tons had been mined at a grade of 0.23% U3O8, producing 44,290 lbs of U3O8, and 1.05% V2O5, producing 197,610 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Long Park 4

LOCATION: sec. 28, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 7,386 tons had been mined at a grade of 0.23% U3O8, producing 34,447 lbs of U3O8, and 1.22% V2O5, producing 180,714 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Long Park 5 (Black Dinah Group)

LOCATION: sec. 28, T. 47 N., R. 17 W.
Long Park 6

LOCATION: sec. 27, T. 47 N., R. 17 W.

LCRM, also sec. 28.

QUAD Uravan 7 1/2°

MAP MOAB

PROD As of 1971, 849 tons had been mined at a grade of 0.16% U3O8, producing 2,663 lbs of U3O8, and 1.54% V2O5, producing 22,762 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Long Park 10

LOCATION: sec. 27, T. 47 N., R. 17 W.

QUAD Uravan 7 1/2°

MAP MOAB

PROD As of 1971, 9,541 tons had been mined at a grade of 0.29% U3O8, producing 55,035 lbs of U3O8, and 1.67% V2O5, producing 318,195 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Long Park 6 Dumps

LOCATION: sec. 27, T. 47 N., R. 17 W.

LCRM, also sec. 28.

QUAD Uravan 7 1/2°

MAP MOAB

PROD Prior to 1971, 6,732 tons had been recovered from the Long Park 6 mine dumps at a grade of 0.09% U3O8, producing 11,507 lbs of U3O8, and 0.43% V2O5, producing 58,237 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Long Park 12

LOCATION: sec. 27, T. 47 N., R. 17 W.

QUAD Uravan 7 1/2°

MAP MOAB

PROD As of 1971, 31,315 tons had been mined at a grade of 0.30% U3O8, producing 189,960 lbs of U3O8, and 1.47% V2O5, producing 919,564 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Long Park 9

LOCATION: sec. 27, T. 47 N., R. 17 W.

LCRM, also sec. 28.

QUAD Uravan 7 1/2°

MAP MOAB

PROD As of 1971, 6,086 tons had been mined at a grade of 0.22% U3O8, producing 26,506 lbs of U3O8, and 1.03% V2O5, producing 124,919 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.
Lost Horse (Shaerock Group)

LOCATION: sec. 29, T. 48 N., R. 17 W.
LCRM This deposit lies in Club Mesa.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971

Lower Valley View

LOCATION:
LCST UNLOCATABLE
MAP MOAB
PROD By 1971, 155 tons had been mined at a grade of 0.29% U3O8, producing 777 lbs of U3O8, and 0.87% V2O5, producing 2,700 lbs of V2O5.
DOI 1971

Lucky Blunder

LOCATION: sec. 10, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show only sec. 13.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 2,200 tons had been mined at a grade of 0.18% U3O8, producing 7,816 lbs of U3O8, and 0.80% V2O5, producing 35,149 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitote - tyuyamunite, high vanadium, low lime.
DOI 1971

Lucky Day

LOCATION: sec. 2, T. 45 N., R. 18 W.
LCRM This deposit lies in the Bull Canyon district.
QUAD Bull Canyon 7 1/2'

Lucky Marx

LOCATION:
LCST UNLOCATABLE
QUAD Urvan 7 1/2'
MAP MOAB
PROD As of 1971, 8 tons had been mined at a grade of 0.21% U3O8, producing 34 lbs of U3O8, and 1.05% V2O5, producing 158 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971
As of 1971, 7 tons had been mined at a grade of 0.24% U3O8, producing 33 lbs of U3O8, and 1.96% V2O5, producing 275 lbs of V2O5.

Red Canyon 7 1/2' MOAB

As of 1971, 16 tons had been mined at a grade of 0.40% U3O8, producing 128 lbs of U3O8, and 1.21% V2O5, producing 388 lbs of V2O5.

Jurassic Morrison Formation, Salt Wash Member.

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

As of 1971, one ton had been mined at a grade of 0.35% U3O8, producing 7 lbs of U3O8, and 1.80% V2O5, producing 36 lbs of V2O5.

Host Jurassic Morrison Formation.

As of 1971, 4,399 tons had been mined at a grade of 0.42% U3O8, producing 36,961 lbs of U3O8, and 2.13% V2O5, producing 187,230 lbs of V2O5.

Jurassic Morrison Formation.

As of 1971, 12,422 tons had been mined at a grade of 0.49% U3O8, producing 12,410 lbs of U3O8, and 2.35% V2O5, producing 59,583 lbs of V2O5.

Host Jurassic Morrison Formation.

As of 1971, 110,525 lbs of U3O8, and 0.63% V2O5, producing 6,112 lbs of V2O5.

Host Jurassic Morrison Formation.

As of 1971, 33,624 tons had been mined at a grade of 0.25% U3O8, producing 62,795 lbs of U3O8, and 1.33% V2O5, producing 331,624 lbs of V2O5.

Host Jurassic Morrison Formation.

As of 1971, 275 tons had been mined at a grade of 0.49% U3O8, producing 520,980 lbs of U3O8, and 1.28% V2O5, producing 187,000 lbs of V2O5.

Host Jurassic Morrison Formation.

As of 1971, 1,267 tons had been mined at a grade of 0.46% U3O8, producing 110,525 lbs of U3O8, and 1.28% V2O5, producing 360,980 lbs of V2O5.

Host Jurassic Morrison Formation.

As of 1971, 1,267 tons had been recovered from the Maggie C Mine dump, producing 881 lbs of U3O8, and 0.63% V2O5, producing 6,112 lbs of V2O5.

Host Jurassic Morrison Formation.

As of 1971, 36,961 lbs of U3O8, and 0.63% V2O5, producing 6,112 lbs of V2O5.

Host Jurassic Morrison Formation.
As of 1971, 84,067 tons had been mined at a grade of 0.28% U3O8, producing 78,161 lbs of U3O8 and 0.65% V2O5, producing 1,086,905 lbs of V2O5.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, molybdenite (carnotite), high vanadium, low lime.
DOI: 1971

Maybe Dump

LOCATION: sec. 35, T. 46 N., R. 17 W.
QUAD: Naturita NW 7 1/2'
MAP: MOAB
PROD: Prior to 1971, 198 tons had been recovered from the Maybe Mine dumps at a grade of 0.07% U3O8, producing 260 lbs of U3O8, and 0.30% V2O5, producing 1,190 lbs of V2O5.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Merry Christmas (Mesa Creek)

LOCATION: sec. 2, T. 48 N., R. 18 W.
QUAD: Red Canyon 7 1/2'
MAP: MOAB
PROD: As of 1971, 4,946 tons had been mined at a grade of 0.26% U3O8, producing 25,523 lbs of U3O8, and 1.59% V2O5, producing 157,441 lbs of V2O5.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Merry Widow

LOCATION: sec. 10, T. 47 N., R. 17 W.
QUAD: Uravan 7 1/2'
MAP: MOAB
PROD: As of 1971, 21,586 tons had been mined at a grade of 0.31% U3O8, producing 133,038 lbs of U3O8, and 1.39% V2O5, producing 697 lbs of V2O5.

HOST: Jurassic Morrison Formation, Salt Wash Member.
MNZ: Uranium, vanadium.
DOI: 1971

Mary Ann 4 (Dorothy Jean 2)

LOCATION: sec. 18, T. 46 N., R. 17 W.
QUAD: Bull Canyon 7 1/2'
MAP: MOAB
PROD: As of 1971, 41,363 tons had been mined at a grade of 0.42% U3O8, producing 546,801 lbs of U3O8, and 1.60% V2O5, producing 1,322,766 lbs of V2O5.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI: 1971

Maud Mine

LOCATION: sec. 14, T. 47 N., R. 20 W.
QUAD: Mount Peale 7 1/2'
MAP: MOAB
PROD: As of 1971, 121 tons had been mined at a grade of 0.43% U3O8, producing 1,052 lbs of U3O8, and 3.01% V2O5, producing 7,279 lbs of V2O5.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Maybe 1, 2

LOCATION: sec. 26, T. 46 N., R. 17 W.
QUAD: Naturita NW 7 1/2'
MAP: MOAB
PROD: By 1971, 58 tons had been mined at a grade of 0.26% U3O8, producing 301 lbs of U3O8, and 1.60% V2O5, producing 1,853 lbs of V2O5.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Maybe 5 & 6

LOCATION: sec. 26, T. 46 N., R. 17 W.
QUAD: Naturita NW 7 1/2'
MAP: MOAB
PROD: As of 1971, 8,715 tons had been mined at a grade of 0.15% U3O8, producing 50,421 lbs of U3O8 and 50,421 lbs of V2O5.
As of 1971, 2,876 tons had been mined at sec. 6, T. 45 N., R. 19 W. of high vanadium, Jurassic Morrison Formation.

As of 1971, 7 tons had been mined at sec. 4, T. 47 N., R. 17 W. of high vanadium, carnotite - tyuyamunite, low lime. This deposit lies in the Gateway district.
LOCATION: sec. 35, T. 47 N., R. 17 W.
QUAD Urvan 7 1/2'
MAP MOAB
PROD As of 1971, 5,525 tons had been mined at a grade of 0.29% U3O8, producing 31,920 lbs of U3O8, and 2.08% V2O5, producing 230,253 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
MONROSE COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime. Uraninite (coffinite).

DOI 1971

Monogram 12

LOCATION: sec. 27, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 22.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 2,070 tons had been mined at a grade of 0.26% U3O8, producing 10,756 lbs of U3O8, and 1,25% V2O5, producing 91,901 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member, fine- to medium-fine-grained sandstone; abundant carbonized plant remains; logs common.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Monogram Claim

LOCATION: sec. 18, T. 46 N., R. 17 W.
QUAD Bu'll Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 23,302 tons had been mined at a grade of 0.30% U3O8, producing 139,586 lbs of U3O8, and 0.92% V2O5, producing 427,456 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; fine- to medium-fine-grained sandstone; abundant carbonized plant remains; logs common.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime, uraninite (coffinite).
DOI 1971

Moonbeam

LOCATION: sec. 20, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 17.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 21,646 tons had been mined at a grade of 0.25% U3O8, producing 110,246 lbs of U3O8, and 1.56% V2O5, producing 674,043 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Morning Glory 2

LOCATION: sec. 28, T. 47 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show location as sec. 20, 21, 28, 29, 30, T. 47 N., R. 20 W.
QUAD Paradox 7 1/2'
MAP MOAB
PROD As of 1971, 39 tons had been mined at a grade of 0.26% U3O8, producing 206 lbs of U3O8, and 2.56% V2O5, producing 1,999 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation, Brushy Basin Member, conglomerate (?).
MNZ Uranium, vanadium.
DOI 1971

Morning Star Mine

LOCATION: sec. 28, T. 46 N., R. 19 W.
LCRM Gypsum Valley district, Silvey's Pocket locality.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD 46 tons at 0.64% U3O8 and 4.15% V2O5.
MNZ Uranium, vanadium.
DOI 1971

Morning Star-Moonlute

LOCATION: sec. 12, T. 47 N., R. 20 W.
LCRM Mt. Peale 1 SE 7 1/2'
MAP MOAB
PROD As of 1971, 1,275 tons had been mined at a grade of 0.22% U3O8, producing 5,631 lbs of U3O8, and 1.57% V2O5, producing 40,025 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Movie Star

LOCATION: sec. 22, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show sec. 28.
QUAD Atkinson Creek 7 1/2'
MAP MOAB
PROD As of 1971, 398 tons had been mined at a grade of 0.18% U3O8, producing 1,414 lbs of U3O8, and 0.33% V2O5, producing 2,608 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

328
Montrose County

DIU 1971

Mueker
LOCATION: sec. 28, T. 47 N., R. 17 W.
LORM U.S. A.E.C. Production Records also show sec. 20, 21, 29.
QUAD Davis Mesa 7 1/2' and Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 1,852 tons had been mined at a grade of 0.47% U3O8, producing 17,587 lbs of U3O8, and 1.90% V2O5, producing 70,302 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnottite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mustard
LOCATION: sec. 36, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD Reserves, no production.
MNZ Uranium, vanadium.
DOI 1975

Naturita 24
LOCATION: sec. 29, T. 47 N., R. 16 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 37 tons had been mined at a grade of 0.08% U3O8, producing 58 lbs of U3O8, and 0.86% V2O5, producing 635 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnottite - tyuyamunite, high vanadium, low lime.
DOI 1971

Naturita 24
LOCATION: sec. 29, T. 47 N., R. 16 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 15 tons had been mined at a grade of 0.13% U3O8, producing 40 lbs of U3O8, and 1.38% V2O5, producing 413 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnottite - tyuyamunite, high vanadium, low lime.
DOI 1971

Naturita 4
LOCATION: sec. 33, T. 47 N., R. 16 W.
QUAD Uravan 7 1/2'

Navajo (Lark 7 & 8 Mine)
LOCATION: sec. 11, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 119 tons had been mined at a grade of 0.24% U3O8, producing 578 lbs of U3O8, and 1.42% V2O5, producing 3,370 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnottite - tyuyamunite, high vanadium, low lime.
DOI 1971

New Camp Bird (Starlight Group)
LOCATION: sec. 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 31 tons had been mined at a grade of 0.27% U3O8, producing 167 lbs of U3O8, and 1.86% V2O5, producing 1,151 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Newton (Bull Canyon Group)
LOCATION: sec. 31, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD No production.
DOI 1971

329
Montrose County

Nil No. 2 (and Dump)

LOCATION: sec. 26, T. 46 N., R. 17 W.
QUAD Naturita NW 1/4
MAP MOAB
PROD As of 1971, 572 tons had been mined at a grade of 0.07% U3O8, producing 819 lbs of U3O8, and 0.43% V205, producing 4,872 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinitite), high vanadium, low lime.
DOI 1971

Nil Trace

LOCATION: sec. 16, T. 46 N., R. 17 W.
LCRM Also sec. 27.
QUAD Davis Mesa NW 1/4
MAP MOAB
PROD As of 1971, 190,104 tons had been mined at a grade of 0.18% U3O8 producing 690,015 lbs of U3O8, and 0.80% V205, producing 3,652,891 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uraninite (coffinitite), high vanadium, low lime.
DOI 1971

No Name

LOCATION: sec. 10, T. 46 N., R. 19 W.
QUAD Roc Creek 7 1/2
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Noel

LOCATION: sec. 13, T. 46 N., R. 19 W.
PROD No production.
DOI 1971

Nora L. Claims

LOCATION: sec. 25, T. 46 N., R. 17 W.
QUAD Naturita NW 1/4
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

North Star Dump (Mineral Survey 1979)

LOCATION: sec. 20, T. 47 N., R. 17 W.
LCRM This mine dump is in the Long Park locality, Uravan district.
QUAD Davis Mesa NW 1/4
MAP MOAB
PROD Prior to 1971, 333 tons had been mined at a grade of 0.13% U3O8, producing 890 lbs of U3O8, and 0.47% V205, producing 3,159 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

North Star-Unaweep

LOCATION: sec. 14, T. 48 N., R. 18 W.
LCRM The North Star-Unaweep Group extends into sec. 13. The mine is on Atkinson Mesa, Uravan district.
QUAD Red Canyon NW 1/4
MAP MOAB
PROD As of 1971, 54,357 tons had been mined at a grade of 0.15% U3O8, producing 162,385 lbs of U3O8, and 1.45% V205, producing 1,511,906 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; sandstone with some carbonized plant trash.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Nucla (Mineral Survey 1979)

LOCATION: NE1/4 sec. 29, T. 47 N., R. 17 W.
LCRM Long Park locality, Uravan district.
QUAD Davis Mesa NW 1/4
MAP MOAB
PROD As of 1971, 496 tons had been mined at a grade of 0.40% U3O8, producing 4,012 lbs of U3O8, and 2.20% V205, producing 21,798 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Nucla (VCA)

LOCATION: sec. 24, T. 48 N., R. 18 W.
LCRM Atkinson Mesa, Uravan district.
QUAD Red Canyon NW 1/4
MAP MOAB
PROD As of 1971, 2,153 tons had been mined at a grade of 0.27% U3O8, producing 11,666 lbs of U3O8, and 1.03% V205, producing 44,466 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Old Crow 1 (Gregor Group)

LOCATION: sec. 4, T. 45 N., R. 18 W.

Old Grandad

Location: sec. 6, T. 45 N., R. 17 W.

Map MOAB

Prod As of 1971, 92 tons had been mined at a grade of 0.23% U3O8, producing 432 lbs of U3O8, and 1.53% V2O5, producing 2,814 lbs of V2O5.

Host Jurassic Morrison Formation, Salt Wash Member.

DOI 1971


Old Quaker

Location: sec. 18, T. 45 N., R. 17 W.

Map MOAB

Prod As of 1971, 4,531 tons had been mined at a grade of 0.22% U3O8, producing 20,231 lbs of U3O8, and 2.01% V2O5, producing 182,459 lbs of V2O5.

Host Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Old Salt Lick, (Old Salt Lick Extension, Shamrock Group)

Location: sec. 29, T. 48 N., R. 17 W.

Map MOAB

Prod As of 1971, 163 tons had been mined at a grade of 0.25% U3O8, producing 822 lbs of U3O8, and 1.76% V2O5, producing 5,726 lbs of V2O5.

Host Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium.

DOI 1971


Opera Box

Location: sec. 20, T. 46 N., R. 17 W.

Map MOAB

Prod As of 1971, 160,496 tons had been mined at a grade of 0.21% U3O8, producing 684,856 lbs of U3O8, and 0.89% V2O5, producing 2,867,666 lbs of V2O5.

Host Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Ophir

Location: sec. 24, T. 48 N., R. 18 W.

LCST UNLOCATABLE

Map MOAB

Prod As of 1971, 2,849 tons had been mined at a grade of 0.20% U3O8, producing 11,192 lbs of U3O8, and 1.17% V2O5, producing 66,532 lbs of V2O5.

Host Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

RMKS Same deposit as Ophir Bluebird. Two mine entries.

DOI 1971


Ophir Bluebird (Ophir)

Location: sec. 24, T. 48 N., R. 18 W.

Map MOAB

Prod As of 1971, 74,703 tons had been mined at a grade of 0.27% U3O8, producing 400,380 lbs of U3O8, and 1.41% V2O5, producing 2,106,655 lbs of V2O5.

Host Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Ophir Dump

Location: sec. 24, T. 48 N., R. 18 W.

LCRM Also sec. 25.

Map MOAB

Prod Prior to 1971, 3,065 tons had been recovered from the Ophir Mine dump at a grade of 0.7% U3O8, producing 4,578 lbs of U3O8, and 0.51% V2O5, producing 31,303 lbs of V2O5.

Host Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

Montrose County

Oregon

LOCATION: sec. 11, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 10,945 tons had been mined at a grade of 0.17% U3O8, producing 36,180 lbs of U3O8, and 0.55% V2O5, producing 120,188 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Oversight Mine

LOCATION: sec. 21, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2', Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 72,107 tons had been mined at a grade of 0.29% U3O8, producing 419,566 lbs of U3O8, and 0.51% V2O5, producing 2,180,524 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Pain-Obnoxious

LOCATION: sec. 32, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 17,841 tons had been mined at a grade of 0.15% U3O8, producing 52,624 lbs of U3O8, and 1.39% V2O5, producing 494,290 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Paradox 4, 5 & 6

LOCATION: sec. 15, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MAP MOAB

Paradox Belle

LOCATION: sec. 30, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 20 and 29.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 16 tons had been mined at a grade of 0.57% U3O8, producing 181 lbs of U3O8, and 1.92% V2O5, producing 615 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Paradox C

LOCATION: sec. 22, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 3,999 tons had been mined at a grade of 0.17% U3O8, producing 13,839 lbs of U3O8, and 0.52% V2O5, producing 41,660 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Paradox D (Reserve Block A)

LOCATION: sec. 71, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 193,529 tons had been mined at a grade of 0.21% U3O8, producing 800,895 lbs of U3O8, and 0.96% V2O5, producing 3,735,285 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Paradox Right Of Way (Doe Lease Tract C-JD-7)

LOCATION: NW1/4/NE1/4 sec. 22, T. 46 N., R. 17 W.
LCRM UNLOCATABLE

This is ore encountered in a right-of-way easement drift to connect the Paradox "C" Mine with the Paradox 5 & 6 Mine.

QUAD Naturita NW 7 1/2'
Montrose County

**Paradox View**

**LOCATION:** sec. 2, T. 46 N., R. 17 W.  
**QUAD** Uravan 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 117 tons had been mined at a grade of 0.37% U₃O₈, producing 872 lbs of U₃O₈, and 2.14% V₂O₅, producing 5,000 lbs of V₂O₅.  
**MNZ** Uranium, vanadium.  
**DOI** 1971  

**Payday**

**LOCATION:** sec. 22, T. 48 N., R. 18 W.  
**LCRM** U.S. A.E.C. Production Records also show sec. 23.  
**QUAD** Red Canyon 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 7,165 tons had been mined at a grade of 0.27% U₃O₈, producing 19,703 lbs of U₃O₈, and 1.78% V₂O₅, producing 52,226 lbs of V₂O₅.  
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.  
**DOI** 1971  

**Patterson Seep**

**LOCATION:** sec. 18, T. 48 N., R. 18 W.  
**LCRM** U.S. A.E.C. Production Records also show sec. 19.  
**QUAD** Roc Creek 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 8 tons had been mined at a grade of 0.40% U₃O₈, producing 64 lbs of U₃O₈, and 2.71% V₂O₅, producing 454 lbs of V₂O₅.  
**MNZ** Uranium, vanadium.  
**DOI** 1971  

**Patty 2**

**LOCATION:** sec. 34, T. 46 N., R. 18 W.  
**QUAD** Bull Canyon 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 395 tons had been mined at a grade of 0.18% U₃O₈, producing 1,411 lbs of U₃O₈, and 1.20% V₂O₅, producing 9,475 lbs of V₂O₅.  
**HOST** Jurassic Morrison Formation.  
**DOI** 1971  

**Payday**

**LOCATION:** sec. 22, T. 48 N., R. 18 W.  
**LCRM** U.S. A.E.C. Production Records also show sec. 23.  
**QUAD** Red Canyon 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 7,165 tons had been mined at a grade of 0.27% U₃O₈, producing 19,703 lbs of U₃O₈, and 1.78% V₂O₅, producing 52,226 lbs of V₂O₅.  
**HOST** Jurassic Morrison Formation.  
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.  
**DOI** 1971  

**Patty 4**

**LOCATION:** sec. 34, T. 46 N., R. 18 W.  
**QUAD** Bull Canyon 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 501 tons had been mined at a grade of 0.26% U₃O₈, producing 2,652 lbs of U₃O₈, and 1.33% V₂O₅, producing 13,320 lbs of V₂O₅.  
**MNZ** Uranium, vanadium.  
**DOI** 1971  

**Patty 5**

**LOCATION:** sec. 3, T. 45 N., R. 18 W.  
**LCRM** U.S. A.E.C. Production Records show location as sec. 34, T. 46 N., R. 18 W.  
**QUAD** Bull Canyon 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 1,732 tons had been mined at a grade of 0.33% U₃O₈, producing 11,411 lbs of U₃O₈, and 1.78% V₂O₅, producing 61,629 lbs of V₂O₅.  
**HOST** Jurassic Morrison Formation.  
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.  
**DOI** 1971  

**Peg Leg 2**

**LOCATION:** sec. 19, T. 47 N., R. 17 W.  
**QUAD** Davis Mesa 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 661 tons had been mined at a grade of 0.21% U₃O₈, producing 2,827 lbs of U₃O₈, and 1.19% V₂O₅, producing 15,792 lbs of V₂O₅.  
**HOST** Jurassic Morrison Formation.  
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.  
**DOI** 1971  

**Peg Leg 5**

**LOCATION:** sec. 6, T. 47 N., R. 17 W.  
**LCRM** Saucer Basin locality, Uravan district.  
**QUAD** Davis Mesa 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 85 tons had been mined at a grade of 0.34% U₃O₈, producing 583 lbs of U₃O₈, and 1.13% V₂O₅, producing 1,922 lbs of V₂O₅.  
**HOST** Jurassic Morrison Formation.  
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.  
**DOI** 1971  

**Peggy**

**LOCATION:** sec. 6, T. 47 N., R. 17 W.  
**LCRM** Saucer Basin locality, Uravan district.  
**QUAD** Davis Mesa 7 1/2'  
**MAP** MOAB  
**PROD** As of 1971, 85 tons had been mined at a grade of 0.34% U₃O₈, producing 583 lbs of U₃O₈, and 1.13% V₂O₅, producing 1,922 lbs of V₂O₅.  
**HOST** Jurassic Morrison Formation.  
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.  
**DOI** 1971  
Montrose County

REF As of 1971, 17,104 tons had been mined at a grade of 0.19% U308, producing 63,656 lbs of U308, and 0.89% V205, producing 304,895 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low time.
DOI 1971

Point-Empire

LOCATION: sec. 23, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 14 and 22.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 3,765 tons had been mined at a grade of 0.32% U308, producing 23,740 lbs of U308, and 1.13% V205, producing 85,344 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low time.
DOI 1971

Pooch & Pooch 1

LOCATION: sec. 9, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 3, 4 and 10.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 90 tons had been mined at a grade of 0.11% U308, producing 200 lbs of U308, and 1.23% V205, producing 2,218 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Poor Boy

LOCATION: sec. 3, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 16 tons had been mined at a grade of 0.16% U308, producing 52 lbs of U308, and 1.02% V205, producing 325 lbs of V205.
HOST Uranium, vanadium.
DOI 1971

Prayer 11

LOCATION: sec. 13, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
PROD No production.
HOST Jurassic Morrison Formation.
DOI 1971
Montrose County

LOCATION: sec. 14, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
PROD As of 1971, 16,754 tons had been mined at a grade of 0.23% U3O8, producing 76,846 lbs of U3O8, and 1.14% V2O5, producing 383,290 lbs of V2O5.
HOST Brushy Basin Member of the Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Princess

LOCATION: sec. 27, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 456 tons had been mined at a grade of 0.37% U3O8, producing 3,415 lbs of U3O8, and 2.02% V2O5, producing 18,393 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
DOI 1971

Princess Pat

LOCATION: LCST UNLOCATABLE
MAP MOAB
PROD As of 1971, 13 tons had been mined at a grade of 0.38% U3O8, producing 98 lbs of U3O8, and 2.25% V2O5, producing 584 lbs of V2O5.
DOI 1971

Probable

LOCATION: sec. 4, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show location as sec. 33, T. 46 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 55 tons had been mined at a grade of 0.39% U3O8, producing 426 lbs of U3O8, and 2.92% V2O5, producing 3,210 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermedi. lime.
DOI 1971

Production Dumps

LOCATION: sec. 20, T. 47 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 21.

Quad Mesa 7 1/2'
MAP MOAB
PROD Prior to 1971, 91 tons had been recovered from the Production Mine dumps at a grade of 0.05% U3O8, producing 85 lbs of U3O8, and 0.32% V2O5, producing 577 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Production West (Production)

LOCATION: sec. 20, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 21.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 31,586 tons had been mined at a grade of 0.29% U3O8, producing 182,342 lbs of U3O8, and 1.45% V2O5, producing 901,591 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Prohibition (American Eagle MS 19852)

LOCATION: sec. 8, T. 48 N., R. 18 W.
LCRM Also sec. 5, 5, 7. This deposit is the same as the American Eagle, Mineral Survey 19852.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 100 tons had been mined at a grade of 0.22% U3O8, producing 437 lbs of U3O8, and 0.76% V2O5, producing 1,526 lbs of V2O5. (Mined in trespass).
HOST Uranium, vanadium.
MNZ Uranium, vanadium.
DOI 1971

Quarrel Group

LOCATION: sec. 12, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 542 tons had been mined at a grade of 0.57% U3O8, producing 6,214 lbs of U3O8, and 3.28% V2O5, producing 35,552 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Quo Vadis

LOCATION: sec. 3, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD  As of 1971, 8 tons had been mined at a grade of 0.84% U₃O₈, producing 134 lbs of U₃O₈, and 3.38% V₂O₅, producing 540 lbs of V₂O₅.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


R.A.M.  1 & 2

LOCATION:  sec. 23, T. 48 N., R. 18 W.


QUAD  Red Canyon 7 1/2'.

MAP  MOAB

PROD  As of 1971, 1,297 tons had been mined at a grade of 0.20% U₃O₈, producing 5,203 lbs of U₃O₈, and 1.16% V₂O₅, producing 30,009 lbs of V₂O₅.

MNZ  Uranium, vanadium.

DOI  1971


R.A.M.

LOCATION:  sec. 33, T. 48 N., R. 17 W.

LCRM  U.S. A.E.C. Production Records also show sec. 32.

QUAD  Davis Mesa 7 1/2' & Uravan 7 1/2'.

MAP  MOAB

PROD  As of 1971, 129,534 tons had been mined at a grade of 0.19% U₃O₈, producing 498,876 lbs of U₃O₈, and 0.18% V₂O₅, producing 455,556 lbs of V₂O₅.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


R.A.M. Dump

LOCATION:  sec. 33, T. 48 N., R. 17 W.

QUAD  Davis Mesa 7 1/2', Uravan 7 1/2'.

MAP  MOAB

PROD  Prior to 1971, 36,247 tons had been recovered from the R.A.M. Mine dump at a grade of 0.09% U₃O₈, producing 64,134 lbs of U₃O₈.

HOST  Jurassic Morrison Formation.

MNZ  Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971


Rabbit Foot  2 (Rimrock Blues Group)

LOCATION:  sec. 7, T. 45 N., R. 18 W.

QUAD  Bull Canyon 7 1/2'.

MAP  MOAB

PROD  As of 1971, 21 tons had been mined at a grade of 0.24% U₃O₈, producing 100 lbs of U₃O₈, and 1.71% V₂O₅, producing 720 lbs of V₂O₅.

MNZ  Uranium, vanadium.

DOI  1971


Radium Cycle

LOCATION:  sec. 8, T. 48 N., R. 19 W.

QUAD  Roc Creek 7 1/2'.

MAP  MOAB

PROD  As of 1971, 2,142 tons had been mined at a grade of 0.33% U₃O₈, producing 14,157 lbs of U₃O₈, and 1.55% V₂O₅, producing 56,574 lbs of V₂O₅.

HOST  Salt Wash Member of the Jurassic Morrison Formation.

MNZ  Uranium, vanadium.

DOI  1971


Radium Hill 7

LOCATION:  sec. 10, T. 45 N., R. 18 W.

QUAD  Bull Canyon 7 1/2'.

MAP  MOAB

PROD  As of 1971, 3,398 tons had been mined at a grade of 0.18% U₃O₈, producing 12,408 lbs of U₃O₈, and 1.18% V₂O₅, producing 80,278 lbs of V₂O₅.

HOST  Jurassic Morrison Formation.

MNZ  Uraninite (coffinite), high vanadium, low lime.

DOI  1971


Radium Hill 10

LOCATION:  sec. 10, T. 45 N., R. 18 W.

QUAD  Bull Canyon 7 1/2'.

MAP  MOAB

PROD  As of 1971, 29,072 tons had been mined at a grade of 0.22% U₃O₈, producing 127,666 lbs of U₃O₈, and 1.34% V₂O₅, producing 780,439 lbs of V₂O₅.

HOST  Jurassic Morrison Formation.

MNZ  Uraninite (coffinite), high vanadium, low lime.

DOI  1971


Radium Hill 31

LOCATION:  sec. 9, T. 48 N., R. 18 W.

QUAD  Red Canyon 7 1/2'.

MAP  MOAB

PROD  As of 1971, 6,447 tons had been mined at a grade of 0.21% U₃O₈, producing 26,994 lbs of U₃O₈, and 1.88% V₂O₅, producing 242,007 lbs of V₂O₅.

HOST  Jurassic Morrison Formation.

MNZ  Carnotite - tyuyamunite, high vanadium, low lime.

DOI  1971

LOCATION: sec. 15, T. 45 N., R. 18 W.
PROD As of 1971, 560 tons of ore had been mined at a grade of 0.50% U3O8.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Radium Hill Group

LOCATION: sec. 1, T. 46 N., R. 17 W.
LCRM Also sec. 12. Bitter Creek locality of the Urvan district.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 41 tons had been mined at a grade of 0.11% U3O8, producing 89 lbs of U3O8, and 1.00% V2O5, producing 819 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; gray fine- to medium-grained sandstone and shaly sandstone with abundant carbonized plant remains.
MNZ Carnotite.
DOI 1971

Radium Queen 13

LOCATION: sec. 16, T. 48 N., R. 18 W.
LCRM Also sec. 17, 20, 21.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,002 tons had been mined at a grade of 0.35% U3O8, producing 31,138 lbs of U3O8, and 1.24% V2O5, producing 110,284 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rainbow

LOCATION: sec. 27, T. 47 N., R. 19 W.
QUAD Paradox 7 1/2'
MAP MOAB
PROD As of 1971, 18 tons had been mined at a grade of 0.28% U3O8, producing 100 lbs of U3O8, and 2.39% V2O5, producing 860 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Rainy Day

LOCATION: sec. 35, T. 45 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
PROD As of 1971, 5,264 tons had been mined at a grade of 0.20% U3O8, producing 12,981 lbs of U3O8, and 1.33% V2O5, producing 86,738 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rajah (Big Chief 2) (Mineral Survey 19851A and 20019)

LOCATION: sec. 6, T. 48 N., R. 18 W.
LCRM Also sec. 7, T. 48 N., R. 18 W., and sec. 1 and 12, T. 48 N., R. 19 W.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 7,012 tons had been mined at a grade of 0.19% U3O8, producing 27,103 lbs of U3O8, and 0.45% V2O5, producing 62,670 lbs of V2O5.
HOST Upper Triassic Kayenta and/or Wingate, light-gray fine- to medium-grained sandstone and fault breccia and gouge.
STRC Vein deposit.
MNZ Uranium, vanadium, carnotite.
DOI 1971

Rajah Dump Ore (Roc Creek)

LOCATION: sec. 7, T. 48 N., R. 18 W.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 9 tons had been mined at a grade of 0.10% U3O8, producing 18 lbs of U3O8, and 0.22% V2O5, producing 39 lbs of V2O5 (about 6,000 tons of Rajah dump ore is included in the Rajah (Big Chief 2) production).
HOST Upper Triassic/Lower Jurassic Kayenta Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rambler Dumps

LOCATION: sec. 33, T. 48 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD Prior to 1971, 9,677 tons had been recovered from the Rambler Mine dumps at a grade of 0.10% U3O8, producing 18,768 lbs of U3O8, and 0.53% V2O5, producing 101,697 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
Montrose County

Ratex

LOCATION: sec. 7, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 10 tons had been mined at a grade of 0.19% U3O8, producing 38 lbs of U3O8, and 1.68% V2O5, producing 375 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Rattler

LOCATION:
LCST UNLOCATABLE
MAP MOAB
PROD As of 1971, 63 tons had been mined at a grade of 0.21% U3O8, producing 269 lbs of U3O8, and 1.46% V2O5, producing 1,837 lbs of V2O5.
DOI 1971

Rattlesnake (Rattlesnake-David)

LOCATION: sec. 4, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 11 tons had been mined at a grade of 0.07% U3O8, producing 15 lbs of U3O8, and 1.56% V2O5, producing 348 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rattlesnake Turnover

LOCATION: sec. 13, T. 47 N., R. 18 W.
LCRM Also sec. 24.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 2,552 tons had been mined at a grade of 0.24% U3O8, producing 12,194 lbs of U3O8, and 0.62% V2O5, producing 31,558 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, low vanadium, low lime.
DOI 1971

Raven

LOCATION: sec. 3, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 10.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 26,083 tons had been mined at a grade of 0.29% U3O8, producing 151,376 lbs of U3O8, and 1.84% V2O5, producing 960,590 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Red Beds

LOCATION: sec. 23, T. 4d N., R. 19 W.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 35 tons had been mined at a grade of 0.11% U3O8, producing 76 lbs of U3O8, and 0.33% V2O5, producing 228 lbs of V2O5.
HOST Triassic Chinle Formation.
MNZ Uranium, vanadium.
DOI 1971

Red Bird No. 1, 2

LOCATION: sec. 9, T. 48 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 4 and 5.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 1,097 tons had been mined at a grade of 0.25% U3O8, producing 5,543 lbs...
of U3O8, and 0.95% V2O5, producing 20,939 lbs of V2O5.

HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
DOI 1971

Red Bird No. 20
LOCATION: sec. 5, T. 48 N., R. 19 W.
LCRM U.S. A.E.C. Production Records only show sec. 24 and 25.
QUAD Red Creek 7 1/2'
MAP MOAB
PROD As of 1971, 2,418 tons had been mined at a grade of 0.26% U3O8, producing 12,512 lbs of U3O8, and 0.87% V2O5, producing 42,107 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Red Cow (Wild Horse Group)
LOCATION: S1/2 sec. 2, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 339 tons had been mined at a grade of 0.12% U3O8, producing 15,549 lbs of U3O8, and 0.76% V2O5, producing 152 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Red Head 1
LOCATION:
LCST UNLOCATABLE
MAP MOAB
PROD As of 1971, one ton had been mined at a grade of 0.10% U3O8, producing 2 lbs of U3O8, and 0.60% V2O5, producing 12 lbs of V2O5.
DOI 1971

Red Hill Group
LOCATION: sec. 35, T. 48 N., R. 20 W.
QUAD Mount Peale 1 NE 7 1/2', Mount Peale 1 SE 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Red Rock
LOCATION: UNLOCATABLE

MAP MOAB
PROD As of 1971, 96 tons had been mined at a grade of 0.31% U3O8, producing 589 lbs of U3O8, and 2.31% V2O5, producing 4,441 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Red Rock 2
LOCATION: sec. 28, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 33.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 60 tons had been mined at a grade of 0.19% U3O8, producing 230 lbs of U3O8, and 1.58% V2O5, producing 1,897 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
DOI 1971

Red Rock 5
LOCATION: sec. 28, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 496 tons had been mined at a grade of 0.24% U3O8, producing 2,365 lbs of U3O8, and 1.83% V2O5, producing 18,192 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Red Sox, Yankees
LOCATION: sec. 23, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 24.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 103752 lbs of U3O8, and 1.45% V2O5, producing 672,727 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Redbird
LOCATION: N1/2 sec. 4, T. 45 N., R. 18 W.
DOI 1958
Montrose County

Redbird, Yellowbird

LOCATION: sec. 33, T. 46 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1,238 tons had been mined at a grade of 0.24% U3O8, producing 5,867 lbs of U3O8, and 1.23% V2O5, producing 30,515 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member; brown, fine- to coarse-grained sandstone and green mudstone with some carbonized plant remains and sparse logs.
MNZ Uranium, vanadium, carnotite.
DOI 1971

Remnant 1

LOCATION: sec. 7, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records only show sec. 6.
QUAD Roco Creek 7 1/2'
MAP MOAB
PROD As of 1971, 18 tons had been mined at a grade of 0.30% U3O8, producing 109 lbs of U3O8, and 0.38% V2O5, producing 137 lbs of V2O5.
HOST Wingate Sandstone, Triassic.
MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low lime.
DOI 1971

Renegade Group

LOCATION: sec. 12, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 7,703 tons had been mined at a grade of 0.19% U3O8, producing 29,527 lbs of U3O8, and 0.47% V2O5, producing 73,178 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Republican Dump

LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD Prior to 1971, 284 tons had been recovered from the Republican Mine dump at a grade of 0.06% U3O8, producing 351 lbs of U3O8, and 0.59% V2O5, producing 2,236 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Rex Mine

LOCATION: sec. 10, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 3, 4, 9.
QUAD Roco Creek 7 1/2'
MAP MOAB
PROD As of 1971, 50,141 tons had been mined at a grade of 0.27% U3O8, producing 267,387 lbs of U3O8, and 1.46% V2O5, producing 1,466,032 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rigel Mine

LOCATION: sec. 13, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show location as sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 28,273 tons had been mined at a grade of 0.25% U3O8, producing 141,899 lbs of U3O8, and 1.16% V2O5, producing 653,559 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Rim Claims

LOCATION: sec. 23, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
PROD As of 1971, 37 tons had been mined at a grade of 0.21% U3O8, producing 152 lbs of U3O8, and 2.08% V2O5, producing 1,537 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
Montrose County

**Rim Rock**

**LOCATION:** sec. 15, T. 48 N., R. 18 W.
**QUAD:** Red Canyon 7 1/2'
**MAP:** MOAB
**PROD**

As of 1971, 192 tons had been mined at a
grade of 0.52% U₃O₈, producing 1,989 lbs
of U₃O₈, and 2.54% V₂O₅, producing 9,741 lbs
of V₂O₅.

**MNZ** Uranium, vanadium.

**DOI** 1971

**Rim Rock 15-17**

**LOCATION:** sec. 2, T. 45 N., R. 18 W.
**LCRM** U.S. A.E.C. Production Records only show sec. 35 and 36.
**QUAD** Bull Canyon 7 1/2'
**MAP** MOAB
**PROD**

As of 1971, 21,115 tons had been mined at
a grade of 0.15% U₃O₈, producing 64,680 lbs
of U₃O₈, and 1.23% V₂O₅, producing 519,904 lbs
of V₂O₅.

**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

**Rimrock Blues 2**

**LOCATION:** sec. 2, T. 45 N., R. 18 W.
**QUAD** Bull Canyon 7 1/2'
**MAP** MOAB
**PROD**

As of 1971, 795 tons had been mined at
a grade of 0.08% U₃O₈, producing 1,202 lbs
of U₃O₈, and 1.00% V₂O₅, producing 15,974 lbs
of V₂O₅.

**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

**Rimrock Blues 5**

**LOCATION:** sec. 2, T. 45 N., R. 18 W.
**QUAD** Bull Canyon 7 1/2'
**MAP** MOAB
**PROD**

As of 1971, 1,155 tons had been mined at
a grade of 0.14% U₃O₈, producing 85,251 lbs
of U₃O₈, and 1.35% V₂O₅, producing 30,528 lbs
of V₂O₅.

**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

**Rimrock Blues 6E**

**LOCATION:** sec. 2, T. 45 N., R. 18 W.
**LCRM** U.S. A.E.C. Production Records only shows sec. 1.

**QUAD** Bull Canyon 7 1/2'
**MAP** MOAB
**PROD**

As of 1971, 626 tons had been mined at a
grade of 0.15% U₃O₈, producing 1,925 lbs
of U₃O₈, and 1.15% V₂O₅, producing 14,453 lbs
of V₂O₅.

**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

**Rimrock Blues 9**

**LOCATION:** sec. 2, T. 45 N., R. 18 W.
**LCRM** U.S. A.E.C. Production Records only show NW1/4 of sec. 1.
**QUAD** Bull Canyon 7 1/2'
**MAP** MOAB
**PROD**

As of 1971, 5,133 tons had been mined at
a grade of 0.11% U₃O₈, producing 11,684 lbs
of U₃O₈, and 1.10% V₂O₅, producing 112,807 lbs
of V₂O₅.

**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

**Rimrock Blues 12**

**LOCATION:** sec. 2, T. 45 N., R. 18 W.
**LCRM** U.S. A.E.C. Production Records also show sec. 1.
**QUAD** Bull Canyon 7 1/2'
**MAP** MOAB
**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

**Rimrock Blues 20**

**LOCATION:** sec. 2, T. 45 N., R. 18 W.
**LCRM** U.S. A.E.C. Production Records only show location as being T. 46 N., R. 18 W.
**QUAD** Bull Canyon 7 1/2'
**MAP** MOAB
**PROD**

As of 1971, 268 tons had been mined at a
grade of 0.17% U₃O₈, producing 663 lbs
of U₃O₈, and 0.75% U₃O₈, producing 3,996 lbs
of V₂O₅.

**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

**Rimrock Blues 6, 14**

**LOCATION:** sec. 3, T. 45 N., R. 18 W.
**LCRM** U.S. A.E.C. Production Records only show sec. 1.
MONROSE COUNTY

**Rimrock Group**

**LOCATION:** sec. 16, T. 45 N., R. 18 W.
**QUAD** Bull Canyon 7 1/2
**MAP** MOAB
**PROD** As of 1971, 9,166 tons had been mined at a grade of 0.19% U308, producing 35,376 lbs of U308, and 1.31% V205, producing 239,865 lbs of V205.
**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
**DOI** 1971

**Rimrock No. 5**

**LOCATION:** sec. 15, T. 45 N., R. 18 W.
**QUAD** Bull Canyon 7 1/2
**MAP** MOAB
**PROD** As of 1971, 63,977 tons had been mined at a grade of 0.22% U308, producing 279,921 lbs of U308, and 1.26% V205, producing 1,608,119 lbs of V205.
**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
**DOI** 1971

**Riverside**

**LOCATION:** SW1/4 sec. 20, T. 48 N., R. 17 W.
**DOI** 1950

**Rock Raven**

**LOCATION:** sec. 35, T. 48 N., R. 17 W.
**QUAD** Uravan 7 1/2
**MAP** MOAB
**PROD** As of 1971, 4,190 tons had been mined at a grade of 0.18% U308, producing 15,221 lbs of U308, and 1.66% V205, producing 139,119 lbs of V205.
**HOST** Brushy Basin Member of the Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
**DOI** 1971

**Rodman No. 6**

**LOCATION:** SE1/4 sec. 29, T. 46 N., R. 17 W.
**QUAD** Bull Canyon 7 1/2
**MAP** MOAB
**PROD** Drillhole (no production).
**RMKS** See TEM-882.
**DOI** 1971

**Roosevelt**

**LOCATION:** sec. 3, T. 45 N., R. 19 W.
**DOI** 1958

**Rosebud**

**LOCATION:** sec. 13, T. 48 N., R. 18 W.
**QUAD** Red Canyon 7 1/2
**MAP** MOAB
**PROD** As of 1971, 23 tons had been mined at a grade of 0.13% U308, producing 61 lbs of U308, and 0.73% V205, producing 353 lbs of V205.
**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium.
**DOI** 1971

**Royal Oak**

**LOCATION:** sec. 10, T. 45 N., R. 18 W.
**QUAD** Bull Canyon 7 1/2
**MAP** MOAB
**PROD** As of 1971, 17 tons had been mined at a grade of 0.07% U308, producing 24 lbs of U308, and 0.77% V205, producing 265 lbs of V205.
**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium.
**DOI** 1971

**Rubadale (Rubedale)**

**LOCATION:** sec. 28, T. 47 N., R. 17 W.
**LCRM** U.S. A.E.C. Production Records also show sec. 33, T. 47 N., R. 17 W.
**QUAD** Davis Mesa 7 1/2 and Uravan 7 1/2
**MAP** MOAB
**PROD** As of 1971, 125 tons had been mined at a grade of 0.15% U308, producing 332 lbs of U308, and 1.34% V205, producing 3,348 lbs of V205.
**HOST** Jurassic Morrison Formation.
**MNZ** Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
**DOI** 1971
Rusty

LOCATION: sec. 6, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 3 tons had been mined at a grade of 0.40% U3O8, producing 24 lbs of U3O8, and 2.82% V2O5, producing 169 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Ruth K (Pine Group)

LOCATION: sec. 36, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Rye (Rye No. 6)

LOCATION: sec. 32, T. 46 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Salt Lake Extension

LOCATION: sec. 28, T. 48 N., R. 17 W.
LCRM Also sec. 29 and 32. Club Mesa locality, Uravan district.
QUAD Red Canyon 7 1/2', Atkinson Creek 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Sam

LOCATION: sec. 36, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 31, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 6,648 tons had been mined at a grade of 0.15% U3O8, producing 19,299 lbs of U3O8, and 0.15% V2O5, producing 138,744 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Sandy

LOCATION: sec. 20, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 29.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 38,129 tons had been mined at a grade of 0.26% U3O8, producing 197,673 lbs of U3O8, and 1.21% V2O5, producing 921,623 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Saucer Basin Group (Rust 3, Peggy)

LOCATION: sec. 6, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 7.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 2,139 tons had been mined at a grade of 0.18% U3O8, producing 40,301 lbs of U3O8, and 0.86% V2O5, producing 192,354 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

School Marm

LOCATION: sec. 2, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 342 tons had been mined at a grade of 0.20% U3O8, producing 1,340 lbs of U3O8, and 1.38% V2O5, producing 9,425 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Second National Bank

LOCATION: sec. 28, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 21.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD By 1971, 696 tons had been mined at a grade of 0.24% U3O8, producing 3,348 lbs of U3O8, and 0.82% V2O5, producing 11,466 lbs of V2O5.

343
Montrose County

**Uranium, vanadium.**

DOI 1971


**Shadow Rock**

LOCATION: sec. 1, T. 48 N., R. 19 W.

QUAD Roc Creek 7 1/2'

MAP MOAB

PROD By 1971, 485 tons had been mined at a grade of 0.40% U3O8, producing 3,910 lbs of U3O8, and 0.59% V2O5, producing 5,678 lbs of V2O5.

HOST Uranium, vanadium.

DOI 1971


**Shamrock**

LOCATION: sec. 29, T. 48 N., R. 17 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD By 1971, 6,761 tons had been mined at a grade of 0.26% U3O8, producing 35,339 lbs of U3O8, and 1.25% V2O5, producing 168,530 lbs of V2O5.

HOST Jurassic Morrison Formation.


**Shamrock (Shamrock and Roadside)**

LOCATION: sec. 35, T. 46 N., R. 18 W.

QUAD U.S. A.E.C. Production Records also show sec. 25, 26 and 36.

MAP MOAB

PROD By 1971, 25 tons had been mined at a grade of 0.53% U3O8, producing 267 lbs of U3O8, and 2.25% V2O5, producing 1,125 lbs of V2O5.

HOST Jurassic Morrison Formation.


**Sharkey**

LOCATION: sec. 20, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2'

MAP MOAB

PROD By 1971, 3,004 tons had been mined at a grade of 0.16% U3O8, producing 9,815 lbs of U3O8, and 0.82% V2O5, producing 49,097 lbs of V2O5.

HOST Jurassic Morrison Formation.


**Shooting Star**

LOCATION: sec. 25, T. 48 N., R. 18 W.
By 1971, 18 tons had been mined at a grade of 0.37% U3O8, producing 134 lbs of U3O8, and 2.12% V2O5, producing 764 lbs of V2O5.

LOCATION: sec. 11, T. 47 N., R. 20 W.

LOCATION: sec. 10, T. 47 N., R. 17 W.

LOCATION: sec. 20, T. 47 N., R. 17 W.

LOCATION: sec. 20, T. 47 N., R. 17 W.

LOCATION: sec. 20, T. 47 N., R. 17 W.

LOCATION: sec. 20, T. 47 N., R. 17 W.

LOCATION: sec. 20, T. 47 N., R. 17 W.

LOCATION: sec. 1, T. 48 N., R. 19 W.

LOCATION: sec. 1, T. 48 N., R. 19 W.

LOCATION: sec. 1, T. 48 N., R. 19 W.

LOCATION: sec. 1, T. 48 N., R. 19 W.

LOCATION: sec. 1, T. 48 N., R. 19 W.

LOCATION: sec. 1, T. 48 N., R. 19 W.

LOCATION: sec. 1, T. 48 N., R. 19 W.
By 1971, 8,462 tons had been mined at a grade of 0.21% UO3, producing 34,779 lbs of UO3, and 1.27% V2O5 producing 215,536 lbs of V2O5. Also by 1971, 98 tons had been mined at a grade of 0.14% UO3, producing 355 lbs of UO3, and 1.57% V2O5, producing 56,356 lbs of V2O5. By 1971, 13,377 tons had been mined at a grade of 0.21% UO3, producing 56,362 lbs of UO3, and 0.97% V2O5, producing 258,901 lbs of V2O5. By 1971, 31,766 tons had been mined at a grade of 0.24% UO3, producing 154,374 lbs of UO3, and 1.04% V2O5, producing 663,681 lbs of V2O5.

Montrose County

LOCATION: sec. 10, T. 47 N., R. 20 W.
QUAD Mount Pea1 1 SE 7 1/2
MAP MOAB
PROD By 1971, 8,462 tons had been mined at a grade of 0.21% UO3, producing 34,779 lbs of UO3, and 1.27% V2O5 producing 215,536 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

St. Patrick No. 7

LOCATION: sec. 11, T. 47 N., R. 20 W.
QUAD Mount Pea1 1 SE 7 1/2
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Star 3, 4 (Wright Group)

LOCATION: sec. 28, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/21 and Atkinson Creek 7 1/21
MAP MOAB
PROD By 1971, 13,021 tons had been mined at a grade of 0.32% UO3, producing 84,071 lbs of UO3, and 1.70% V2O5, producing 442,217 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Starlight

LOCATION: sec. 35, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/21
MAP MOAB
PROD By 1971, 1,162 tons had been mined at a grade of 0.22% UO3, producing 5,138 lbs of UO3, and 1.57% V2O5, producing 56,526 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Starlight I

LOCATION: sec. 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/21
MAP MOAB
PROD By 1971, 129 tons had been mined at a grade of 0.14% UO3, producing 355 lbs of UO3, and 1.45% V2O5, producing 3,749 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
Starlight 2
LOCATION: sec. 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 65 tons had been mined at a grade of 0.36% U3O8, producing 468 lbs of U3O8, and 3.04% V2O5, producing 3,954 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Starlight 4
LOCATION: sec. 32, T. 46 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD By 1971, 5 tons had been mined at a grade of 0.17% U3O8, producing 17 lbs of U3O8, and 1.38% V2O5, producing 138 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Starlight 8
LOCATION: sec. 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 339 tons had been mined at a grade of 0.33% U3O8, producing 2,246 lbs of U3O8, and 1.71% V2O5, producing 11,620 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Steer 1, 8
LOCATION: sec. 14, T. 46 N., R. 18 W.
LCRM Also sec. 15, 21, 29 and 20.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 6,911 tons had been mined at a grade of 0.33% U3O8, producing 45,784 lbs of U3O8, and 1.59% V2O5, producing 219,512 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Straight Arrow
LOCATION: sec. 3, T. 46 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show location as sec. 34, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD By 1971, 50 tons had been mined at a grade of 0.17% U3O8, producing 170 lbs of U3O8, and 1.08% V2O5, producing 1,076 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.

347
By 1971, 8,269 tons had been mined at a grade of 0.37% U3O8, producing 61,623 lbs of U3O8, and 1.92% V2O5, producing 317,193 lbs of V2O5.

HOST Jurassic Morrison Formation.

LOCATION: sec. 34, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 8,269 tons had been mined at a grade of 0.37% U3O8, producing 61,623 lbs of U3O8, and 1.92% V2O5, producing 317,193 lbs of V2O5.

HOST Jurassic Morrison Formation.

REFERENCES

By 1971, 37 tons had been mined at a grade of 0.23% U3O8, producing 172 lbs of U3O8, and 1.90% V2O5, producing 1,408 lbs of V2O5.

LOCATION: sec. 14, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
PROD By 1971, 24,317 tons had been mined at a grade of 0.39% U3O8, producing 188,156 lbs of U3O8, and 1.85% V2O5, producing 902,125 lbs of V2O5.

HOST Jurassic Morrison Formation.

REFERENCES

By 1971, 24,317 tons had been mined at a grade of 0.39% U3O8, producing 188,156 lbs of U3O8, and 1.85% V2O5, producing 902,125 lbs of V2O5.

HOST Jurassic Morrison Formation.

REFERENCES

By 1971, 24,317 tons had been mined at a grade of 0.39% U3O8, producing 188,156 lbs of U3O8, and 1.85% V2O5, producing 902,125 lbs of V2O5.

HOST Jurassic Morrison Formation.
Three Musketeers
LOCATION: sec. 8, T. 48 N., R. 18 W.
LCRM Aits sec. 7.
QUAD Roc Creek T 7/2
MAP MOAB
PROD By 1971, 62 tons had been mined at a grade of 0.36% U3O8, producing 448 lbs of U3O8, and 0.34% V2O5, producing 422 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermediate lime.
DOI 1971

Thunderbolt
LOCATION: sec. 23, T. 46 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show only sec. 22.
QUAD Naturita NW 7 1/2
MAP MOAB
PROD By 1971, 15,361 tons had been mined at a grade of 0.29% U3O8, producing 90,269 lbs of U3O8, and 0.65% V2O5, producing 97,053 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (cotfinitel), high vanadium, intermediate lime.
DOI 1971

TNT 1, 2
LOCATION: sec. 21, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2
MAP MOAB
PROD By 1971, 274 tons had been mined at a grade of 0.19% U3O8, producing 1,059 lbs of U3O8, and 0.65% V2O5, producing 3,555 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermediate lime.
DOI 1971

TNT 3
LOCATION: sec. 21, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/21', Uravan 7 1/2
MAP MOAB
PROD By 1971, 2,665 tons had been mined at a grade of 0.29% U3O8, producing 15,262 lbs of U3O8, and 1.64% V2O5, producing 86,506 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Too High Mine 2
LOCATION: sec. 36, T. 47 N., R. 20 W.
LCRM U.S. A.E.C. Production Records also show location as sec. 31, T. 47 N., R. 19 W., Wray Mesa, Paradox district.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
PROD By 1971, 1,307 tons had been mined at a grade of 0.39% U3O8, producing 10,190 lbs of U3O8, and 2.85% V2O5, producing 74,434 lbs of V2O5.
HOST Brushy Basin Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Top Notch
LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Paradox district.
MAP MOAB
PROD By 1971, 473 tons had been mined at a grade of 0.20% U3O8, producing 4,041 lbs of U3O8, and 1.98% V2O5, producing 435 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Tornado No. 5 & 6
LOCATION: sec. 3, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show location as sec. 22, T. 44 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 873 tons had been mined at a grade of 0.23% U3O8, producing 4,041 lbs of U3O8, and 1.66% V2O5, producing 28,993 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (ciffinite), high vanadium, low lime.
DOI 1971

Town House (Dolores Group)
LOCATION: sec. 20, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 17,190 tons had been mined at a grade of 0.26% U3O8, producing 90,711 lbs of U3O8, and 1.24% V2O5, producing 425,785 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
Prior to 1971, 15,189 tons had been recovered from the Tripod Mine dumps at a grade of 0.07% U3O8, producing 21,118 lbs of U3O8, and 0.36% V2O5, producing 108,760 lbs of V2O5.

Jurassic Morrison Formation.

Host: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 28, T. 48 N., R. 17 W.

LCRM U.S. A.E.C. Production Records show only sec. 32 and 33.

QUAD Red Canyon 7 1/2', Atkinson Creek 7 1/2''

MAP MOAB

PROD By 1971, 494 tons had been mined at a grade of 0.17% U3O8, producing 1,714 lbs of U3O8, and 0.74% V2O5, producing 7,354 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 2, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD By 1971, 3,621 tons had been mined at a grade of 0.12% U3O8, producing 13,728 lbs of U3O8, and 0.50% V2O5, producing 45,219 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 19, T. 48 N., R. 18 W.

QUAD Roco Creek 7 1/2'

MAP MOAB

PROD By 1971, 122 tons had been mined at a grade of 0.35% U3O8, producing 854 lbs of U3O8, and 2.92% V2O5, producing 7,134 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 34, T. 46 N., R. 18 W.

QUAD Bull Canyon 7 1/2'

MAP MOAB

PROD By 1971, 144 tons had been mined at a grade of 0.25% U3O8, producing 209 lbs of U3O8, and 1.90% V2O5, producing 1,593 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 34, T. 46 N., R. 18 W.

LCRM Also see sec. 35.

QUAD Bully Canyon 7 1/2'

MAP MOAB

PROD By 1971, 92 tons had been mined at a grade of 0.21% U3O8, producing 121 lbs of U3O8, and 1.24% V2O5, producing 7,011 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 34, T. 46 N., R. 18 W.

LCRM Also see sec. 35.

QUAD Bully Canyon 7 1/2'

MAP MOAB

PROD By 1971, 92 tons had been mined at a grade of 0.21% U3O8, producing 121 lbs of U3O8, and 1.24% V2O5, producing 7,011 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 34, T. 46 N., R. 18 W.

LCRM Also see sec. 35.

QUAD Bully Canyon 7 1/2'

MAP MOAB

PROD By 1971, 92 tons had been mined at a grade of 0.21% U3O8, producing 121 lbs of U3O8, and 1.24% V2O5, producing 7,011 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


LOCATION: sec. 34, T. 46 N., R. 18 W.

LCRM Also see sec. 35.

QUAD Bully Canyon 7 1/2'

MAP MOAB

PROD By 1971, 92 tons had been mined at a grade of 0.21% U3O8, producing 121 lbs of U3O8, and 1.24% V2O5, producing 7,011 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

U.S. Grant

LOCATION: sec. 8, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records only show sec. 7
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD By 1971, 5,798 tons had been mined at a grade of 0.37% U3O8, producing 42,803 lbs of U3O8, and 1.70% V2O5, producing 197,251 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Uncle Sam

LOCATION: sec. 13, T. 48 N., R. 18 W.
MAP MOAB
PROD By 1971, 156 tons had been mined at a grade of 0.15% U3O8, producing 513 lbs of U3O8, and 0.86% V2O5, producing 2,859 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Upper Valley View

LOCATION:
LCST UNLOCATABLE
MAP MOAB
PROD By 1971, 177 tons had been mined at a grade of 0.37% U3O8, producing 1,326 lbs of U3O8, and 1.18% V2O5, producing 4,190 lbs of V2O5.
DOI 1971

URA

LOCATION: sec. 29, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 118,005 tons had been mined at a grade of 0.17% U3O8, producing 401,335 lbs of U3O8, and 0.72% V2O5, producing 1,695,886 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Uranium (Emergency Claim)

LOCATION: sec. 14, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
PROD By 1971, 2,211 tons had been mined at a grade of 0.38% U3O8, producing 15,683 lbs of U3O8, and 1.79% V2O5, producing 79,314 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
DOI 1971

Uranus (Dorothy Jean)

LOCATION: sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 29,584 tons had been mined at a grade of 0.56% U3O8, producing 328,443 lbs of U3O8, and 1.61% V2O5, producing 949,861 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Uravan Group No. 5

LOCATION: sec. 3, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MNZ Uranium, vanadium.

Uravan No. 2

LOCATION: SE1/4 sec. 4, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
PROD By 1971, 7,519 tons had been mined at a grade of 0.18% U3O8, producing 26,636 lbs of U3O8, and 0.88% V2O5, producing 132,855 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Uraka (Carpenter Ridge)

LOCATION: sec. 10, T. 48 N., R. 19 W.
QUAD Roc Creek 7 1/2'
MAP MOAB
By 1971, 346 tons had been mined at a grade of 0.09% U3O8, producing 625 lbs of U3O8, and 0.95% V2O5, producing 6,576 lbs of V2O5.

LOCATION: sec. 31, T. 46 N., R. 17 W.

By 1971, 27,205 tons had been mined at a grade of 0.24% U3O8, producing 4,067 lbs of U3O8, and 1.07% V2O5, producing 18,441 lbs of V2O5.

LOCATION: sec. 31, T. 46 N., R. 17 W.

By 1971, 58 tons had been mined at a grade of 0.22% U3O8, producing 257 lbs of U3O8, and 1.52% V2O5, producing 1,766 lbs of V2O5.

LOCATION: sec. 31, T. 46 N., R. 17 W.

By 1971, 9,205 tons had been mined at a grade of 0.27% U3O8, producing 50,366 lbs of U3O8, and 1.13% V2O5, producing 208,090 lbs of V2O5.

LOCATION: sec. 31, T. 46 N., R. 17 W.
Montrose County

Venture Lode (Venture Lode)

LOCATION: sec. 31, T. 46 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show location as sec. 36, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 75 tons had been mined at a grade of 0.10% U3O8, producing 147 lbs of U3O8, and 1.00% V2O5, producing 1,498 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Vernite

LOCATION: sec. 27, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 26, 34, and 35.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, one ton had been mined at a grade of 0.05% U3O8, producing one lb of U3O8, and 1.55% V2O5, producing 31 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Victory 2

LOCATION:
LCRM UNLOCATABLE
QUAD Paradox 7 1/2'
MAP MOAB
PROD By 1971, 8 tons had been mined at a grade of 0.25% U3O8, producing 37 lbs of U3O8, and 1.45% V2O5, producing 232 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Virgin Mine 3

LOCATION: sec. 22, T. 47 N., R. 17 W.
QUAD Uranv 7 1/2'
MAP MOAB
PROD By 1971, 24,044 tons had been mined at a grade of 0.28% U3O8, producing 134,668 lbs of U3O8, and 1.89% V2O5, producing 907,925 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
MNZ Uranium, vanadium, coffinite, uraninite, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Vista Grande Mine (Lion Creek)

LOCATION: SE1/4NE1/4SE1/4 sec. 2, T. 47 N., R. 20 W.
LCRM Also sec. 12.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
PROD By 1971, 69 tons had been mined at a grade of 0.50% U3O8, producing 690 lbs of U3O8, and 2.58% V2O5, producing 3,563 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Wanda 1

LOCATION: sec. 1, T. 45 N., R. 18 W.
LCRM Also sec. 6, T., 45 N., R. 17 W. and sec. 36, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, no production.
HOST Jurassic Morrison Formation.
DOI 1971

Wanda 2

LOCATION: sec. 28, T. 47 W., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 8, 17, 18, 19, 29, 30, 33.
QUAD Davis Mesa 7 1/2', Uxaran 7 1/2'
MAP MOAB
PROD By 1971, 314 tons had been mined at a grade of 0.18% U3O8, producing 1,148 lbs of U3O8, and 1.47% V2O5, producing 9,247 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.

353
Montrose County

Watchman

LOCATION: sec. 34, T. 46 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show location as sec. 3, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD By 1971, 99 tons had been mined at a grade of 0.18% U3O8, producing 347 lbs of U3O8, and 0.88% V2O5, producing 1,740 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Wednesday & Thursday

LOCATION: sec. 22, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD By 1971, 28,141 tons had been mined at a grade of 0.30% U3O8, producing 166,157 lbs of U3O8, and 2.63% V2O5, producing 1,477,980 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Waterloo

LOCATION: sec. 20, T. 48 N., R. 18 W.
LCRM This deposit lies in the Carpenter Flats area.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD By 1971, 6 tons had been mined at a grade of 0.31% U3O8, producing 37 lbs of U3O8, and 2.97% V2O5, producing 357 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

West

LOCATION: sec. 35, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 2, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 36 tons had been mined at a grade of 0.55% U3O8, producing 394 lbs of U3O8, and 2.54% V2O5, producing 1,828 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

West Lode

LOCATION:
LCST UNLOCATABLE
MAP MOAB
PROD By 1971, 131 tons had been mined at a grade of 0.24% U3O8, producing 634 lbs of U3O8, and 1.44% V2O5, producing 3,769 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

West Martha Belle

LOCATION: sec. 31, T. 49 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 6,557 tons had been mined at a grade of 0.21% U3O8, producing 27,512 lbs of U3O8, and 1.00% V2O5, producing 130,824 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
MONTORSE COUNTY

Whang Doodle

LOCATION: NW1/4 sec. 13, T. 46 N., R. 18 W.
LCRM Monogram Mesa area, Bull Canyon district.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 131 tons were produced at grades of 0.19% U3O8 and 1.24% V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

White Cow

LOCATION: sec. 1, T. 45 N., R. 20 W.
LCRM U.S. A.E.C. Production Records also show sec. 2.
QUAD Mount Peale 4 SE 7 1/2'
MAP MOAB
PROD By 1971, 73 tons had been mined at a grade of 0.24% U3O8, producing 349 lbs of U3O8, and 1.85% V2O5, producing 2,698 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

White Crow

LOCATION: sec. 3, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD By 1971, 9 tons had been mined at a grade of 0.23% U3O8, producing 42 lbs of U3O8, and 1.79% V2O5, producing 322 lbs of V2O5.
HOST Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

White Face

LOCATION: sec. 24, T. 47 N., R. 17 W.
QUAD Urauan 7 1/2'
MAP MOAB
PROD By 1971, 14,859 tons had been mined at a grade of 0.27% U3O8, producing 79,351 lbs of U3O8, and 2.08% V2O5, producing 619,270 lbs of V2O5.
HOST Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Whitney

LOCATION: sec. 35, T. 47 N., R. 17 W.
QUAD Urauan 7 1/2'
MAP MOAB
PROD By 1971, 27,329 tons had been mined at a grade of 0.22% U3O8, producing 121,783 lbs of U3O8, and 1.63% V2O5, producing 890,445 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Whitney Bang

LOCATION: S1/2SE1/4 sec. 4, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD By 1971, 32 tons had been mined at a grade of 0.19% U3O8, producing 122 lbs of U3O8, and 1.50% V2O5, producing 957 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Wild Cat 2

LOCATION: sec. 28, T. 48 N., R. 18 W.
LCRM This deposit lies in the Urauan district.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 426 tons had been mined at a grade of 0.55% U3O8, producing 44 lbs of U3O8, and 3.47% V2O5, producing 278 lbs of V2O5.
HOST Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Wild Horse (Adak, Colorado)

LOCATION: E1/2 sec. 11, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 11,242 tons had been mined at a grade of 0.22% U3O8, producing 49,464 lbs of U3O8, and 0.73% V2O5, producing 163,418 lbs of V2O5.
HOST Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Wildcat 3

LOCATION: sec. 28, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 27.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 27,329 tons had been mined at a grade of 0.16% U3O8, producing 1,351 lbs of U3O8, and 1.36% V2O5, producing 11,604 lbs of V2O5.
MNZ Uranium, vanadium.
Montrose County

Wildcat

LOCATION: sec. 27, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2
MAP MOAB
PROD By 1971, 376 tons had been mined at a grade of 0.27% U3O8, producing 2,060 lbs of U3O8, and 1.59% V2O5, producing 11,987 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Willie Dee

LOCATION: sec. 21, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2
MAP MOAB
PROD By 1971, one ton had been mined at a grade of 0.05% U3O8, producing one lbs of U3O8, and 1.99% V2O5, producing 59 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Windy Day

LOCATION: sec. 3, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 10.
QUAD Uravan 7 1/2
MAP MOAB
PROD By 1971, 245 tons had been mined at a grade of 0.33% U3O8, producing 1,603 lbs of U3O8, and 1.86% V2O5, producing 9,214 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Woodchuck

LOCATION: sec. 23, T. 48 N., R. 19 W.
LCRM This deposit lies in the Carpenter Flat area.
QUAD Roc Creek 7 1/2
MAP MOAB
PROD By 1971, 9 tons had been mined at a grade of 0.13% U3O8, producing 23 lbs of U3O8, and 1.19% V2O5, producing 214 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Woodward

LOCATION: sec. 1, T. 45 N., R. 18 W.
LCRM This deposit lies in the Bull Canyon district.
QUAD Bull Canyon 7 1/2
MAP MOAB
PROD By 1971, one ton had been mined at a grade of 0.30% U3O8, producing 6 lbs of U3O8, and 2.60% V2O5, producing 52 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Wray Mesa

LOCATION: sec. 30, T. 47 N., R. 19 W.
QUAD Mount Peaie 1 SE 7 1/2
MAP MOAB
PROD As of 1971, 61 tons had been mined at a grade of 0.24% U3O8, producing 295 lbs of U3O8, and 2.21% V2O5, producing 2,697 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Wright

LOCATION: sec. 27, T. 48 N., R. 17 W.
QUAD Atkinson Creek 7 1/2
MAP MOAB
PROD By 1971, 2,695 tons had been mined at a grade of 0.39% U3O8, producing 20,861 lbs of U3O8, and 1.36% V2O5, producing 73,304 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Yellow Bird (Deer Run)

LOCATION: sec. 32, T. 48 N., R. 19 W.
QUAD Davis Mesa 7 1/2
MAP MOAB
PROD By 1971, 540 tons had been mined at a grade of 0.22% U3O8, producing 2,425 lbs of U3O8, and 0.13% V2O5, producing 1,390 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Yellow Bird Mines (Center)

LOCATION: sec. 13, T. 47 N., R. 20 W.
QUAD Mount Peaie 1 SE 7 1/2
MAP MOAB
PROD By 1971, 2,704 tons had been mined at a grade of 0.21% U3O8, producing 11,338 lbs of U3O8, and 1.65% V2O5, producing 89,095 lbs of V2O5.
HOST: Jurassic Morrison Formation, Salt Wash Sandstone Member; brown, fine- to coarse-grained sandstone and green mudstone, with some carbonized plant remains and sparse logs.

MNZ: Uranium, vanadium, carnotite.

DOI: 1971


Yellow Jacket

LOCATION: sec. 33, T. 48 N., R. 17 W.

LCRM: U.S. A.E.C. Production Records also show T. 47 N.

QUAD: Davis Mesa 7 1/2', Uravan 7 1/2'

MAP: MOAB

PROD: By 1971, 2,581 tons had been mined at a grade of 0.17% U3O8, producing 9,018 lbs of U3O8, and 0.71% V2O5, producing 36,932 lbs of V2O5.

HOST: Jurassic Morrison Formation, Salt Wash Member.

MNZ: Uranium, vanadium.

DOI: 1971


Yellow Spot Group (New Yellow Spot Mine)

LOCATION: SW1/4SW1/4 sec. 6, T. 47 N., R. 19 W.

QUAD: Mount Peale SE 7 1/2'

MAP: MOAB

PROD: By 1971, 466 tons had been mined at a grade of 0.19% U3O8, producing 1,767 lbs of U3O8, and 1.67% V2O5, producing 15,597 lbs of V2O5.

HOST: Jurassic Morrison Formation.

MNZ: Uranium, vanadium.

DOI: 1971


Yellowbird D

LOCATION: SE1/4 sec. 13, T. 47 N., R. 20 W.

LCRM: Same as Butterfly, Yellowbird and Yellowbird D (refer to original mine name). Area now covered by the Wat 16 and Prayer 12, La Sal Creek area, Paradox district.

QUAD: Mount Peale SE 7 1/2'

MAP: MOAB

PROD: By 1971, 184 tons had been mined at a grade of 0.34% U3O8, producing 1,238 lbs of U3O8, and 1.39% V2O5, producing 5,101 lbs of V2O5.

HOST: Jurassic Morrison Formation.

MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.

DOI: 1971


Yip Yip

LOCATION: sec. 1, T. 47 N., R. 20 W.

LCRM: Also reported as sec. 2, 11, 12, T. 46 N.

QUAD: Mount Peale 1 SE 7 1/2'

MAP: MOAB

PROD: As of 1971, 582 tons had been mined at a grade of 0.204% U3O8.

HOST: Brushy Basin Member of the Jurassic Morrison Formation.

DOI: 1971

MORGAN COUNTY

There are no recorded occurrences of uranium in the county. The potential for resources to be found in the county is poor.

The county is largely covered by Quaternary eolian deposits, and in some places Cretaceous Pierre Shale is exposed. Recent gravels and alluvium fill the river valley of the South Platte River.

None of the rocks that outcrop in the county are considered to be favorable host rocks for uranium. This makes the potential for resources of uranium to be found in the county very small.
OTERO COUNTY

No uranium occurrences have been found in the county to date, and the potential is fairly low for discovering any. The surrounding counties have very minor occurrences but none that would indicate any extension into Otero County.

Otero County lies in the southeastern part of the state in sedimentary terrane, primarily of Late Cretaceous age. The Niobrara Formation is exposed over much of the county, with Dakota Sandstone, and Benton Shale also covering large areas. A few exposures of the Lower Cretaceous Purgatoire Formation and the Jurassic Morrison Formation are found, with alluvium covering much of the Arkansas River Valley floor.

Uranium deposits in the Lower Cretaceous Dakota Sandstone and in the Jurassic Morrison Formation have proved economic in the past in other parts of the state, and it is conceivable that resources could also exist in these units within Otero County. The Dockum Group (Upper Triassic) has shown limited potential in certain southeastern areas of the state, and exploration drilling could possibly discover some mineralization in that formation at depth.
OURAY COUNTY

No production of uranium from Ouray County has been reported. The potential for known occurrences to become reserves is small.

The county lies on the northern edge of the San Juan Uplift and is partially covered by the Tertiary volcanic rocks associated with the uplift. The northern half of the county is largely covered by Cretaceous rocks, including the Mancos Shale and the Dakota Sandstone. These sediments dip away from the uplift and quickly become flat-lying in the northern part of the county.

Almost all of the occurrences in Ouray County are associated with some type of hydrothermal activity. They are associated with veins whose primary values are for silver, gold, lead, and zinc. None of the occurrences have potential for developable uranium reserves. The one exception is a group of occurrences in the Uncompaghre slates and quartzites near Bear Creek Falls. These occurrences are reported to contain only uranium as the primary metal, with associated minor pyrite. Although these rocks show some potential for some developable reserves, the area of outcrop of the Uncompaghre is limited in the county.
OURAY COUNTY

Bear Creek Falls

LOCATION: T. 43 N., R. 7 W.
LCST UNSURVEYED
LCRM The occurrence is 300 ft west of Bear Creek Falls, about 1 mile south of Ouray on Highway 550.

QUAD Ironton 7 1/2'

HOST Shear zone in slate of the Precambrian Uncompahgre Formation.

STRC Shear zone is approximately 6 ft wide and strikes about (E-W?).

MNZ A chip sample of the slate had a value of 0.099% U. Four channel samples across the shear had values of 0.003 to 0.014% U. Pyrite is associated with uranium in the shear and is absent outside. Also the slate away from the shear is not radiometrically anomalous.

DOI 1958


Bear Creek Mine

LOCATION: T. 43 N., R. 7 W.
LCST UNCERTAIN
LCRM Original directions are as follows: "From town of Ouray travel south 2.1 mi. on US 550. Mine is just off road on east side".

QUAD Ouray 7 1/2' & Ironton 7 1/2'

DVEL There are about 100 ft of old workings.

BKG .05 mr/hr

RNG .05 to .30 mr/hr

HOST Vein in Precambrian schists and quartzite of the Uncompahgre Formation.

MNZ Pitchblende, calcite, barite, quartz and pyrite. Samples values ranged from .003 to .099% U.


DOI 1958


Campbird Mine

LOCATION: T. 43 N., R. 8 W.
LCST UNSURVEYED
LCRM Mine is shown on topo map.

QUAD Ironton 7 1/2'

DVEL Active base metal and gold mine.

BKG .04 mr/hr

RNG .04 to 1.0 mr/hr

HOST Veins in late Tertiary volcanics.

MNZ Gold, silver, lead, copper, zinc.

RMKS Radioactivity was found in small areas, locations were: 1) NW of vein; 14th level, approximately 760 ft west of vein crosscut. 2) HW and FW of vein; 14th level, approximately 700 ft west of main crosscut. 3) HW and FW of vein; 5th level, approximately 223 ft west of main winze. 4) FW of vein, 5th level, approximately 288 ft east of main winze.

DOI 1953


Carbonate King Mine

LOCATION: T. 47 N., R. 7 W.
LCST UNSURVEYED
LCRM Shown on topo map just east of Red Mountain Creek with Uncompahgre River.

QUAD Ironton 7 1/2'

DVEL Inactive gold-silver mine with extensive workings.

HOST Hydrothermal chimney and veins in Tertiary volcanics.

MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite, pitchblende. An ore sample had a value of .017% U.

DOI 1958


Dunmore Mine

LOCATION: T. 43 N., R. 7 W.
LCST UNCERTAIN
LCRM Original directions to occurrence are as follows: "About 1/4 mile southwest of junction of Red Mountain Creek with Uncompahgre River".

QUAD Ironton 7 1/2'

DVEL Two adits, each with about 1,000 ft of workings.

HOST Disseminations, veins, and chimney in Precambrian slate and quartzite of the Uncompahgre Formation.

STRC Slate has been dragged against the quartzite by the Dunmore Fault.

MNZ Pitchblende?, chalcopyrite, huebnerite, gold, silver, and aikinite, in a gangue of quartz, limonite, hematite, chlorite, biotite, and pyrite.

RMKS Pitchblende is disseminated in minute amounts in the quartzite near the slate-quartzite contact. The anomalous quartzite occurs in an area of about 300 square ft in the lower adit, 350 ft S78°W from the portal.

DOI 1958


Genessee Tunnel

LOCATION: T. 42 N., R. 8 W.
LCST UNSURVEYED
LCRM Mine is shown on topo map just east of the Idarado Mine which is adjacent to US 550.

QUAD Ironton 7 1/2'
Ouray County

Guston Mine

LOCATION: T. 42 N., R. 8 W.
LCST UNSURVEYED
LCRM Approximately 2/3 mile northwest of Ironon.
QUAD Ironton 7 1/2'
DVEL An inactive gold-silver mine with extensive workings.
HOST Hydrothermal chimney in Tertiary volcanics.
MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. An ore sample had a value of .13% U.
DOI 1958

Larson Property

LOCATION: T. 43 N., R. 8 W.
LCST UNSURVEYED
LCRM The property is 1,000 ft east of US 550, 1/2 mile north of Red Mountain Pass, and shown on topo map.
QUAD Ironton 7 1/2'
DVEL Inactive gold-silver mine with extensive workings.
HOST Hydrothermal chimney deposit in Tertiary volcanic latites.
MNZ Pyrite, enargite, chalcopyrite, galena, sphalerite, cinnabarite, and limonite in a zone of quartz, dickite, zinite, sericite, and clays. The radioactive material is in a mixed sulphide mass with galena and in granular pyritic material. One sample of friable granular pyritic lead-sulphide ore from dump at shaft had values of .028% U and .002% U.
DOI 1958

Michael Breen Mine

LOCATION: sec. 21, T. 43 N., R. 7 W.
LCST UNSURVEYED
LCRM The property is 1,000 ft east of US 550, 1/2 mile north of Red Mountain Pass, and shown on topo map.
QUAD Ironton 7 1/2'
DVEL Inactive gold-silver mine with extensive workings.
HOST Hydrothermal chimney deposit in Tertiary volcanic latites.
MNZ Pyrite, enargite, chalcopyrite, galena, sphalerite, cinnabarite, and limonite in a zone of quartz, dickite, zinite, sericite, and clays. The radioactive material is in a mixed sulphide mass with galena and in granular pyritic material. One sample of friable granular pyritic lead-sulphide ore from dump at shaft had values of .028% U and .002% U.
DOI 1958

Ouray Hot Springs

LOCATION: sec. 31, T. 44 N., R. 7 W.
LCST UNSURVEYED
LCRM 500 ft west of main street in town of Ouray.
QUAD Ouray 7 1/2'
HOST Calcareous tufa of a hot spring deposit.
STHC Located near the Ouray Fault which strikes NW-SC.
MNZ Sample of the tufa had a value of .11% eU and .001% U.
DOI 1958

Pony Express Mine

LOCATION: NW1/4 sec. 19, T. 44 N., R. 7 W.
LCST UNSURVEYED
LCRM Approximately 1,000 ft east of Lake Lenore.
QUAD Ouray 7 1/2'
DVEL Inactive silver mine with extensive workings.
HOST Vein and mantos in Jurassic Entrada Sandstone and limestone and shale in Pony Express...
Ouray County

Member of the Wanakha Formation.

STRC Vein strikes N80°E and the dip is nearly vertical.

MNZ Pyrite, galena, sphalerite, chalcopyrite, silver minerals, limonite, malachite, and manganese oxides in a gangue of quartz, barite, calcite and mongano calcite. A 1 ft channel sample taken on some dipping shale beds near the vein had a value of .010% U3O8 and may be indicative of normal uranium values in the shales.

DOI 1951


DOI 1951


Robinson Mine

LOCATION: T. 42 N., R. 8 W.

LCST UNSURVEYED

LCRM 8,100 ft northeast of Red Mountain Pass.

QUAD Ironon 7 1/2°

DYEL Inactive gold-silver mine with extensive workings.

HOST Hydrothermal chimney in Tertiary volcanics.

MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. An ore sample had a value of .06% U.

DOI 1958


Yankee Girl Shaft

LOCATION: T. 42 N., R. 8 W.

QUAD Ironon 7 1/2°

DYEL Inactive gold-silver mine with extensive workings.

HOST Hydrothermal chimney in Tertiary volcanics.

MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. A sample had a value of .16% U.

DOI 1958

Production from Park County has been small. Records show that by 1971, 1,579 tons of ore had been mined, producing 5,532 lb of U₃O₈. Excellent potential exists for uranium reserves to be found within the county.

The geology of the county is quite complex. Rocks of many ages and types are juxtaposed by Tertiary intrusions and a series of northwest-southeast-trending faults and fault zones.

A large part of the county lies within South Park, an intermontane basin ranging from 9,000 to 10,000 feet in elevation. Mesozoic and Upper Paleozoic rocks crop out in the basin.

The Park Range bounds the county on the west, and mountains of the Front Range bound it on the east. Precambrian rocks comprise most of the Front Range, and lower Paleozoic rocks and Tertiary intrusions form the Park Range. Uranium occurrences in the county are found in many of these rock types and structures.

The most important occurrences in the county include Garo Deposit—Shirley May Mine, Gem Dandy, Lucky Jim, and Tedco and Mac George. These mines account for over 90 percent of the uranium production within the county. The Tedco-Mac George and Gem Dandy prospects are located within a mile of each other near Kenosha Pass. The uranium in these prospects occurs as pods and lenses of autunite and uraninite in northwest-trending shear zones within Precambrian granite and biotite gneiss.

The Shirley May Mine near Garo has been explored for various metals since 1900 and was operated as early as 1919 for radium ore. In 1952 the mine was evaluated by the U.S. Geological Survey for uranium and vanadium resources. Uranium, vanadium, and copper are found in faulted sandstone blocks of the Permo-Pennsylvanian Minturn Formation at the deposit. The ore bodies are small, and reserves potential at the site appears to be limited. However, this type of occurrence is common in the Minturn Formation from the area of Vail Pass south to the southern Sangre de Cristo Range, and other prospects of this type may have better uranium potential.

The Lucky Jim Mine is approximately 14 miles north of the community of Hartsel. Forty-seven percent of all production from the county came from this mine. The uranium occurs in lake beds of the Tertiary Antero Formation east of the Elkhorn Thrust Fault. The fault separates the Antero Formation from Precambrian granitic rocks. Autunite, found along fractures and bedding planes, is reported to be the primary ore mineral.

Tertiary lacustrine sediments such as the Antero Formation and the Florissant lake beds have high potential for uranium reserves. Shear zones in Precambrian also have very good reserve potential. These are the two most extensively explored geologic environments in the county because they have been the hosts for a large amount of uranium produced. Uranium occurs in other geologic environments, and the possibility of uranium resources at these sites or in similar environments should not be discounted.
Amrine and Perrigue Claims (Lady Elk No. 1)

LOCATION: sec. 26, T. 12 S., R. 78 W.
LCST UNCERTAIN
LCRM Location also included sec. 27, 34, 35. Original directions to occurrence are as follows: "From Buena Vista take highway 24, 7 miles toward Antero Junction, turn left off highway. Go 2.1 miles, take right fork, go 1.9 miles, take left fork, go 0.4 miles take left fork, go 0.6 miles take right fork, go 0.8 miles to Lady Elk No. 1." Also reported as on south slope of Buffalo Peaks.

QUAD Buena Vista 15'
MAP MONTROSE
DVEL There was one shallow open pit on the claims.

PROD As of 1971, 45 tons had been mined at a grade of 0.12% U3O8, and 0.20% V2O5, containing 108 lbs of U3O8 and 180 lbs of V2O5.

BKG .01 mr/hr
RNG .01 to 1 mr/hr
HOST Silicified, carbonaceous, iron-stained, fine-grained quartzite, thought to be the Ordovician Harding Quartzite, is the host. The mineralized horizon is four ft thick in places.

MNZ No uranium minerals were identified. Manganosite fills vugs and fractures in the quartzite, opal filled vugs are common. The host where mineralized is dark colored.

DOI 1971

Balfour Mines

LOCATION: SW 1/4 sec. 8, T. 13 S., R. 74 W.
LCST UNCERTAIN
LCRM The directions to the location in the original PRR describes the location above. However, the location was given as sec. 6-18, T. 13 S., R. 7 W.; and sec 19-36, T. 12 S., R. 7 W.

QUAD Guffey 7 1/2'
MAP PUEBLO
DVEL The area is reportedly an old gold mining district.

BKG 0.01 mr/hr
RNG 0.02 to 0.05 mr/hr
HOST There are many different rock types in the area of the occurrence. They are a variety of extrusive rocks, and the Morrison, Dakota, Benton, Pierre and Florissant Formations.

RMKS The reconnaissance appears to cover a large area and the location of the 5 x bg anomaly is very uncertain.

DOI 1956

Blue Bull Claim

LOCATION: sec. 35, T. 12 S., R. 78 W.
LCST UNCERTAIN
LCRM Reported to be about one mile southeast of Lady Elk Lode.
DVEL A coal prospect adit.
RNG 2 to 3 x bg.
HOST Lignite in the Belden Shale of Pennsylvanian age.
DOI 1959

Boomer Mine (Shamrock-Irish Group)

LOCATION: sec. 21, T. 11 S., R. 72 W.
QUAD Tarryall 7 1/2'
MAP DENVER
DVEL The mine was developed before 1895 as a silver prospect. A small amount of lead-silver ore was shipped. Later about 1917 the mine was prospected for molybdenum. Uraninite was discovered on the dump in the early 50's and in 1959 the mine was partly reopened as a uranium prospect. Little uranium was found but beryl was noted and the mine was a beryllium producer from 1956 to 1965.

PROD It has been reported (Hawley and Wobus, 1977) "that it is likely the mine has produced more beryllium than any other mine in the U.S." The estimated amount is 3,000 tons of ore at a grade of approximately .5% BeO.

BKG 0.05 mr/hr
RNG 0.06 to 1.2 mr/hr
HOST The deposit is contained in a greisen pipe in gneiss of the Precambrian Idaho Springs Formation, Boulder Creek Granodiorite and Silver Plume Granite.

MNZ Beryl, bertrandite, galena, sphalerite, arsenopyrite, and uraninite were found in a muscovite quartz gangue. Grab samples had values of 0.02% to 0.74% U3O8.

DOI 1969

Buckskin Joe Mine (Phillips Mine)

LOCATION: SW1/4SE1/4 sec. 3, T. 9 S., R. 78 W.
QUAD Alma 7 1/2'
MAP LEADVILLE
DVEL There are extensive workings, with over 7,000 ft of crosscuts and drifts. The mine was worked during the 19th century for gold. After 1941, the mine was worked for zinc.

RNG To 10 x bg.
HOST Replacement bodies in the Cambrian Sawatch Quartzite and Peerless shale.

STRC Yeln strikes N20°E, dips 80°NW.

MNZ Gold, silver, zinc, galena, pyrite. Grab sample had a value of .033% U3O8. No uranium minerals were identified.

DOI 1951

Carson Mining and Development (Nina No. 7)

LOCATION: sec. 19, T. 13 S., R. 76 W.

LCRM Uncertain

Occurrence extends into sec. 20 and 21. Tailings? and prospect pits are shown in south half of sec. 20.

QUAD Antero Reservoir 7 1/2'

MAP PUEBLO

DVEL Work reported consists of four bulldozer trenches and eight drill holes.

BGK .01 to 1 mr/hr

RNG There is a question as to the host of this occurrence. Malan reports it is a trachyte flow, whereas the Preliminary Reconnaissance Report reports it as the following: fine-grained, gray, tuffaceous, bedded sandstone of the Oligocene Tallahassee Creek Conglomerate.

STRC Mineralization occurs along small fractures.

MNZ Autunite

DOI 1955


Champaign Mine (Treasury Vault)

LOCATION: sec. 6, T. 9 S., R. 78 W.

LCRM UNSURVEYED

QUAD Climax 7 1/2'

MAP LEADVILLE

DVEL There are a series of adits and prospects along vein.

HOST Vein in Precambrian granite and Tertiary porphyry.

MNZ Quartz, pyrite, limonite. No uranium minerals are identified.

RMKS Values of 0.06 eU3O8 in radon gas were encountered in the mine, and 25,000 pico curies/l were measured after the tunnel was sealed all winter by snow.

DOI 1951


Chumway Park

LOCATION: sec. 19, T. 15 S., R. 73 W.

MAP PUEBLO

MNZ Uranium, vanadium.

DOI 1975


Garo Deposit (DuVall Discovery, Shirley May Mine)

LOCATION: sec. 16, T. 11 S., R. 76 W.

LCRM One mile south of Garo. Also sec. 6, 7, 8, and 17.

MAP DENVER

DVEL Shallow shafts, pits, and trenches. Prospect was open in 1917. One carload of ore was shipped to the Radium Company of Colorado in 1919 which had a value of about 15% U3O8.

PROD U.S. A.E.C. Production Records show that in 1952, 180 tons were mined at a grade of 0.16% U3O8 and 0.71% V2O5, containing 593 lbs of U3O8.

HOST Permo-Pennsylvanian red beds, micaceous sandstone and shale with thin limestone layers of the Jurassic Morrison Formation.

STRC Beds strike N30°W and dip 50°NE.

MNZ Copper-uranium vanadium minerals. Carnotite, torbernite-volborthite. Various samples range in value from 0.008 to 0.93% U, and 1.26 V2O5.

RMKS The deposit was drilled by the U.S. Bur. of Mines and the report by Wilmarth, 1959, describes the geology.

DOI 1956


Gem Dandy (Jim Dandy)

LOCATION: sec. 9, T. 7 S., R. 75 W.

LCRM UNSURVEYED

QUAD Climax 7 1/2'

MAP DENVER

DVEL By 1971, 372 tons had been mined at a grade of 0.21% U3O8, 0.01% V2O5, producing 1,570 lbs of U3O8, and 43 lbs of V2O5.

BGK .3 mr/hr

RNG 27 mr/hr

HOST Precambrian Pikes Peaks Granite.

STRC Mineralization appears to be in a shear or fault zone.

MNZ Autunite and meta-uranocerite.

DOI 1956


Goermer Lease

LOCATION: N1/2 SW1/4 sec. 19, T. 15 S., R. 73 W.

PROD In 1966, 0.3 tons were mined at a grade of 0.28% U3O8, producing 2 lbs of U3O8, and 0.59% V2O5, producing 4 lbs of V2O5.

HOST Pennsylvanian Minturn Formation.

MNZ Autunite.

DOI 1975

Gold Star

LOCATION: sec. 23, T. 11 S., R. 72 W.
MAP DENVER
DVEL There is one small pit, and a reported grade of 0.25% U3O8.
HOST The mineralization is found in a weathered and decomposed light brown circular breccia body. The mineralization appears in an igneous environment, but it is possibly due to secondary enrichment.
STRC The anomaly occurs in a circular pipe-like structure.
ALT The rock is intensely altered to an earthy material.
MNZ Identified minerals are: Uraninite [UO2]
RMKS Alteration, structure, and mineralization indicate a secondary enrichment, possibly of a greisen pipe which are abundant in the area. See USGS Prof. Paper 608-A for description of the pipes.
Hartsel Ranch (Airborne Anomaly No. 6)

LOCATION: NW¼ sec. 14, T. 13 S., R. 74 W.
LCST UNCERTAIN
LCRM "From Hartsel go south on Colo. 9 for 8.75 miles, go left for 3.5 miles. Anomaly is just right of road."
QUAD Guffey NW 7 1/2'
MAP PUEBLO
BKG .016 mr/hr
RNG .016 to .032 mr/hr
HOST Precambrian granite.
MNZ No visible minerals.
DOI 1954

Hass 1-12

LOCATION: sec. 9, T. 15 S., R. 74 W.
LCST UNCERTAIN
LCRM Also sec. 10.
PROD According to U.S. A.E.C. Production Records in 1960, 16 tons of ore averaging 0.10% U3O8 and containing 32 lbs of U3O8 was produced from the Hass No. 1 Claim.
HOST Oligocene Tallahassee Creek Conglomerate.
MNZ Autunite.
DOI 1971

Kentucky Belle Mine

LOCATION: T. 8 S., R. 78 W.
LCST UNSURVEYED
LCRM Mine located about 1000 ft north-northwest of Kite Lake.
QUAD Climax 7 1/2'
DVEL There are a number of adits and prospects.
RNG To 10 x bg.
HOST Vein in Precambrian and Tertiary Later White Porphyry.
MNZ Chalcopyrite, gold? No uranium mineral identified.
DOI 1951
**London Butte Tunnel**

**LOCATION:** NW1/4 sec. 18, T. 9 S., R. 78 W.

**MAP** LEADVILLE

**RNG** 10 x bg.

**MNZ** Value of 0.005% U3O8 reported.

**RMKS** Radiation due to radon in mine?


**London Extension Mine**

**LOCATION:** NW1/4NE1/4 sec. 18, T. 9 S., R. 78 W.

**QUAD** Climax 7 1/2'

**MAP** LEADVILLE

**DVEL** There are extensive workings. The mine, a gold-silver producer, was shut down about 1943.

**HOST** Vein material from mine dump contains the mineralization.

**MNZ** Pitchblende was found in the vein material as was galena, sphalerite, silver, and gold.

**DOI** 1951


**Lone Star Claim**

**LOCATION:** SE1/4 sec. 36, T. 8 S., R. 79 W.

**LCST** UNCERTAIN

**QUAD** Climax 1/2'2

**MAP** LEADVILLE

**DVEL** There are a shaft and a cut. They are thought to be on the General Canby vein. The district is a gold-silver mining district.

**BKG** .02 mr/hr

**RNG** .04-.08 mr/hr

**HOST** Vein in Precambrian granite and pegmatite.

**MNZ** The vein strikes N50°E.

**STRC** No uranium minerals were observed. There is an estimated value of 0.01% U3O8 from a grab sample of the dump.

**DOI** 1953


**Lucky Jim Claims**

**LOCATION:** NW1/4 sec. 26, T. 10 S., R. 75 W.

**LCRM** The occurrence is 1 miles northeast of Hartsel.

**MAP** DENVER

**DVEL** There is a 30 ft x 60 ft pit, 50 holes were drilled in the area surrounding the pit.

**PROD** U.S. A.E.C. Production Records show that between 1958 and 1963, 741 tons averaging 0.18% U3O8 and containing 2,267 lbs of U3O8 had been produced.

**HOST** The mineralization occurs in lakebeds, and tuffaceous siltstones of the Oligocene Antero Formation.

**STRC** The prospect is on the east side of Elk Horn Thrust Fault.

**MNZ** Autunite is found in lenses and pods in carbonaceous laminations parallel to bedding in altered micaceous and argillaceous tuffaceous siltstone.

**DOI** 1971


**Mud Claims**

**LOCATION:** sec. 20, T. 11 S., R. 74 W.

**LCRM** Also sec. 21.

**DVEL** Mineralized body drilled out on Mud 59, 75 and 77 claims. Average depth to ore is 45 ft.

**HOST** Oligocene Florissant Lakebeds, similar to Lucky Jim deposit.

**MNZ** Uraninite, coffinite.

**DOI** 1971


**Muley Gulch**

**LOCATION:** sec. 11, T. 11 S., R. 75 W.

**LCRM** The occurrence also extends into sec. 12.

**QUAD** Hartsel 7 1/2'

**MAP** DENVER

**DVEL** Four pits were noted in NE1/4 of sec. 14. The trenches were dug in the 1950's.

**PROD** Grade of 0.28% U3O8 reported.

**RNG** To 50 x bg.

**HOST** Vein in fractures in Precambrian granite.

**STRC** In fractures on upthrown side of Elk Horn Fault.

**DOI** 1977


**Orphan Boy Mine**

**LOCATION:** SE1/4 sec. 10, T. 9 S., R. 78 W.

**QUAD** Alma 7 1/2'

**MAP** LEADVILLE

**DVEL** Large mine with 3,450 ft of underground development.

**RNG** To 10 x bg.

**HOST** Vein in Cambrian Sawatch Quartzite and Tertiary gray porphyry.

**MNZ** Gold, pyrite, sphalerite, galena, chalcopyrite and dolomite are reported.

**RMKS** No uranium minerals were observed. It is reported that "Radioactive minerals not determinable megascopically occur in vein
fissures at top of ore shoots, within or immediately below gray porphyry sill. (U.S. A.E.C., 1966).

**LOCATION:** sec. 3, T. 12 S., R. 73 W.
**LCST** UNCERTAIN
**QUAD** Glentivar 7 1/2'
**MAP** DENVER
**DVEL** There is one pit 57 ft long, 15 ft wide, and up to 15 ft deep.
**HOST** Pegmatite in Precambrian biotite granite.
**STRC** Pegmatite strikes N60°E.
**MNZ** Samarskite (eu xenite?), possibly thorite, tourmaline, and garnet.
**DOI** 1952

**Rogers Publishing Co. (Katydid Mine)**

**LOCATION:** NW1/4 sec. 15, T. 11 S., R. 72 W.
**LCRM** Note there is also a Redskin Mine in Park County.
**QUAD** Tarryall 7 1/2'
**MAP** DENVER
**DVEL** Mine was originally worked for molybdenum around 1920. It was abandoned until uraninite was discovered in 1954. In 1959, beryllium was found at the mine and a small amount of low-grade beryllium ore was produced. There has been no recorded production of uranium.
**BKG** .04 mr/hr
**RNG** 1 to 15 mr/hr
**HOST** Greisen pipe in porphyritic Precambrian Pikes Peak granite.
**MNZ** Uranophane and sooty pitchblende is present in pockets of high grade and in small fissures lined with smoky quartz crystals. Also chalcopyrite, molybdenite, sphalerite.
**RMKS** Best reference at this time is Hawley, 1969.
**DOI** 1976

**Sweet Home Mine**

**LOCATION:** W1/2NW1/4, NE1/4, sec. 33, T. 8 S., R. 78 W.
**MAP** LEADVILLE
**MNZ** Uranium.
**DOI** 1975
Tedco and MacGeorge (Mac George 4)

LOCATION: sec. 16, T. 7 S., R. 75 W.
LCRM Also sec. 17, 20, 21.
MAP DENVER
PROD U.S. A.E.C. Production Records show that, in 1956, 176 tons were mined at a grade of 0.23% U₃O₈, producing 814 lbs of U₃O₈, and 36 lbs of V₂O₅ were also recovered from the ore.
HOST Thin fracture fillings in Precambrian Silver Plume Granite.
STRC Host described as being highly broken.
MNZ Autunite is present.
DOI 1973

Two Bit Claims

LOCATION: NE1/4 sec. 7, T. 12 S., R. 71 W.
MAP DENVER
MNZ Uranium.
DOI 1975

Unnamed No. 1

LOCATION: sec. 1, T. 12 S., R. 73 W.
MAP DENVER
HOST Intrusive in quartz monzonite. The radioactivity occurs in a pegmatite.
DOI 1977

Unnamed No. 2

LOCATION: sec. 16, T. 7 S., R. 75 W.
LCRM The mineralization also extends into sec. 17, 20, 21.
MAP DENVER
HOST Granite.
STRC Fracture zone.
MNZ Autunite occurs in a "weathered" granite in or along a fracture zone.
DOI 1977
REF Western Nuclear Submitted file, 1977.

Wheel of Fortune Claim

LOCATION: sec. 25, T. 11 S., R. 72 W.
MAP DENVER
MNZ Uranium.
DOI 1975

Willow Claims (Bell Property)

LOCATION: sec. 9, T. 15 S., R. 74 W.
DVEL One bulldozer cut and two prospect pits.
HOST Uranium occurs in a chalcedonized opal and with volcanic rock fragments in a clay matrix in the Oligocene McCullough Mountain Tuff.
MNZ Autunite.
DOI 1978

Wyandotte Mine

LOCATION: SW1/4NW1/4 sec. 21, T. 8 S., R. 78 W.
MAP LEADVILLE
MNZ Uranium.
DOI 1975
P H I L L I P S  C O U N T Y

No uranium occurrences are reported in Phillips County. The county is underlain by flat-lying Tertiary Ogallala Formation with some minor Quaternary sediments. Potential for uranium resources in the county are small. Sandstone-type uranium occurrences in the Ogallala Formation are the most likely to be found.
PITKIN COUNTY

The only recorded uranium production from the county as of 1971 was from the Frying Pan Claims, which produced 62 tons at an average grade of 0.14 percent U₃O₈. Potential for more reserves to be found is very limited.

The seat of Pitkin County is the city of Aspen--one of the oldest and richest silver mining camps in Colorado. It is located in west-central Colorado and includes some of the state's most rugged mountains. The Elk Mountains and the Sawatch Range dominate with mountain peaks towering over 14,000 feet. Precambrian rocks are found in the Sawatch Range, and Pennsylvanian-Permian formations are dramatically exposed in the Elk Mountains. The southern extension of the Grand Hogback Monocline crosses the western part of the county from north to south. Roughly paralleling the Grand Hogback but cutting the center of the county is the Castle Creek Fault, which forms the eastern border of the Elk Mountains. Trending northwest to southeast between the Grand Hogback and Castle Creek Fault is the Roaring Fork Syncline. The Sawatch Range Anticline and the Homestake Shear Zone lie in the northeastern corner of the county, and the Grizzly Caldera is directly south of them on the southern border. Precambrian rocks in the Grizzly Mountains are overlain by Tertiary intrusives and extrusives. Sedimentary formations ranging in age from Cambrian to Late Cretaceous cover much of the rest of the county.

The Frying Pan Claims, because of their production, are the most important known uranium occurrences in the county. They are similar in nature to the other uranium occurrences found in the county, all of which lie in fault breccias that host the silver and lead ores found in the old mines near Aspen. Most of these fault breccias cut the Pennsylvanian-Permian Weber Shale and the Mississippian Leadville Limestone, but some are found in the Precambrian granites as well. In all cases the Precambrian rocks and Tertiary intrusives are intimately associated with the mineralization.

Based on known occurrences, the Aspen district appears most favorable for additional uranium occurrences. However, the potential for reserves to be developed is small. Uranium mineralization found in the Aspen district is associated with silver and lead ores from the old mines. If any of the mines were reopened for silver and lead, the uranium could possibly be extracted as a by-product. The other potential area in the county is the Grizzly Caldera in the southeastern part of the county. There, Tertiary intrusives are exposed within the caldera, and related extrusives lie around the borders. This caldera could be the host for volcanogenic deposits such as are found in other parts of the world.
LOCATION: sec. 7, T. 9 S., R. 83 W.

HOST The deposit is located at the fault contact between the Pennsylvanian-Permian Weber Shale and the Mississippian Leadville Limestone in a black carbonate shale.

STRC The silver fault appears to control the radioactivity. All anomalies are within the fault breccia.

MNZ Galena, sphalerite, argentite, polybasite, native silver, chalcopyrite, pyrite, barite, and calcite are all present, with no visible uranium minerals.

DOI 1952


Tower Durant Tunnel and Dump

LOCATION: sec. 19, T. 10 S., R. 84 W.

HOST The deposit is located at the fault contact between the Pennsylvanian-Permian Weber Shale and the Mississippian Leadville Limestone in a black carbonate shale.

STRC The silver fault appears to control the radioactivity. All anomalies are within the fault breccia.

MNZ Galena, sphalerite, argentite, polybasite, native silver, chalcopyrite, pyrite, barite, and calcite are all present, with no visible uranium minerals.

DOI 1952


Unnamed Dump

LOCATION: sec. 27, T. 9 S., R. 84 W.

HOST The tunnel portal is in Mississippian Leadville Limestone, and the dump material consists of Leadville Limestone and Pennsylvanian Weber Shale. The anomalous radioactivity occurs in the black mud near the portal and in the dark shale on the dump.

MNZ No visible minerals were noted.

DOI 1952


PITKIN COUNTY

Frying Pan Claims 1-16 (Frying Pan Group, Frying Pan Claims)

LOCATION: sec. 7, T. 9 S., R. 83 W.

LCST UNSURVEYED

LCRM The deposit also extends to sec. 12-13, T. 9 S., R. 84 W.

QUAD Meredith 7 1/2'

MAP LEADVILLE

DVEL There is an adit with underground workings. 2,000 ft of drilling were carried out on the property.

PROD In 1958 and 1960, a total of 62 tons of ore had been mined at a grade of 0.14% U3O8, producing 174 lbs of U3O8.

HOST The deposit occurs in a silicified breccia vein that cuts a Precambrian granite and schist.

STRC A fault zone controlled the emplacement of the mineralization.

MNZ Autunite and torbernite are present in the vein.

DOI 1974


Silver King

LOCATION: sec. 7, T. 10 S., R. 84 W.

LCST UNSURVEYED

LCRM May be in sec. 8. Near Smuggler, Mollie Gibson and J. C. Johnson Mines.

QUAD Aspen 7 1/2'

MAP LEADVILLE

RNG 2 to 3 x bg

HOST The deposit occurs in a fault breccia between the Pennsylvanian-Permian Weber Shale and the Mississippian Leadville Limestone. It appears to be associated with black to gray carbonaceous shale and grey dolomitic limestone. Upper Devonian Harding Quartzite and a Tertiary quartz porphyry are also present.

MNZ Galena, sphalerite, argentite; pyrite, chalcopyrite, calcite and barite are all present in the veins, but no uranium minerals were found.

DOI 1952


Smuggler Mine, (Nos. 1 & 2 Tunnels)

LOCATION: sec. 7, T. 10 S., R. 84 W.

LCST UNSURVEYED

LCRM This deposit lies 1/2 mile east of Aspen.

QUAD Aspen 7 1/2'

MAP LEADVILLE

DVEL There has been production for silver, lead and zinc. Examination of dump by U.S. A.E.C. geologists in 1954 indicated a small amount of uraniferous material existed.

BKG 0.5 mr/hr

RNG To 8.0 mr/hr
Neither production nor occurrences are reported from the county. The potential for any uranium resources to be found is very limited.

Prowers County lies on the southern flank of the Las Animas Arch in the southeastern corner of Colorado. The terrain is almost entirely sedimentary, with nearly equal proportions of Cretaceous Niobrara Formation, Benton Group, and Dakota Sandstone, and Miocene-Pliocene Ogallala Formation covering the county. A few small early Tertiary intrusives are found in the extreme southern part of the county along Two Butte Creek, with older formations locally exposed by the uplift associated with the intrusions.

No uranium occurrences are known within the county. In other areas of the state the Dakota Sandstone and the Jurassic Morrison Formation are favorable hosts for uranium deposits. The Dockum Group also shows interesting anomalies in other parts of the state, and exploration drilling could possibly detect some mineralization at depth. Water sampling done by the U.S. Geological Survey has shown higher than average readings of uranium from waters draining the Ogallala Formation north of the Arkansas River. Some exposures of Ogallala are found in the extreme northeastern section of the county, and these also have some potential.
PUEBLO COUNTY

Production appears to have been limited to one deposit, the George Avery Ranch Mine, which shipped 10,553 tons of ore at an average grade of 0.13 percent $U_3O_8$, producing 32,213 lb of $U_3O_8$ by 1971. Most of this production came in the late 1950's; no recent work is known to have taken place. Potential for more reserves to be found in the county is small.

Pueblo County, located in the south-central part of the state, is dominantly covered with sedimentary rocks ranging in age from Cambrian to Quaternary. A small portion of southwestern Pueblo County contains Precambrian crystalline rocks of the Wet Mountains. In general, the youngest rocks lie in the northeastern quarter of the county, and become progressively older toward the southwest.

The George Avery Ranch contains what are probably the most important occurrences in the county. They are tabular deposits within the Cretaceous Dakota Sandstone and are associated with carbonaceous material. The deposits lie on the eastern flank of the Turkey Creek Anticline in the northwestern corner of the county and are related to occurrences nearby in El Paso County. This and two other occurrences lie within the Fort Carson military reservation, and access to them is limited.

Additional small, scattered ore bodies will probably be found in the Dakota Sandstone within the county. Known isolated occurrences are associated with fossils in the Jurassic Morrison Formation. Further exploration in both formations could develop further reserves in them; however, the potential is limited for the county.
Dinosaur No. 1 Claim (John Gatley Ranch)

**LOCATION:** sec. 10, T. 18 S., R. 67 W.

**LCRM Directions to the deposit are as follow:**
- From the Penrose monument in Penrose, Colorado, go north 0.4 miles on dirt road; continue north on Colorado 115 for 1.2 miles. Turn right on dirt road; continue 3.3 miles, cross Red Creek, go 4.1 miles, cross wooden bridge over gulch, go 1.2 miles; take right fork for 1.1 miles then left fork for 0.3 miles. Go straight ahead for 0.8 miles, through a red gate; turn right on dirt track road for 0.5 miles. Prospect 400 yds further on the foot trail.

**MORRIS Anomalous Unit**
- Host is Morrison Formation; shales and clays 100 ft below the contact with the Dakota Sandstone. The shales are green, gray, brown, and contain dinosaur bones.

**MINERALIZATION**
- Mineralization is present with the dinosaur bones. Calcite, quartz, and minor gypsum are present.

**DOE 1973**

**REF**

George Avery Ranch (George Avery Mine, Kathryn No. 2 Incline Mineral Rights Mine)

**LOCATION:** SW1/4 sec. 6, T. 18 S., R. 66 W.

**LCRM Directions to the deposit are as follow:**
- Take Colo. 115 south 15.9 miles from Colorado Springs to dirt road (Lytle Road) on left. Go 2.2 miles, take left fork on main road. Proceed 7.3 miles to dirt track on right; go 0.3 miles through gate to ranch; deposit on hill 150-200 yds west of house.

**QUAD**
- Timber Mountain 7 1/2

**MAP**
- PUEBLO

**DVEL**
- A test pit 5 ft deep by 5 ft long was sunk along a vertical fracture (2/54), 100 ft tunnel with 45 ft shaft and 12 ft crosscuts completed 10/55.

**PROD**
- By 1971, 10,553 tons of ore had been mined at an average grade of 0.15% U3O8, producing 32,213 lbs of U3O8.

**BKG**
- .02 mr/hr

**RNG**
- 1.0 to 5.0 mr/hr

**HOST**
- The host is Cretaceous Dakota Sandstone(?); gray to buff, fine-grained sandstone with carbonaceous fragments.

**STRC**
- A vertical fracture 0.4 ft wide is present but is not radiometrically anomalous.

**MNZ**
- There is a yellow coating (carnotite?) on the sandstone, in small solution cavities, and as minor fracture filling. Some uraninite is also present. Chip assays covered the range of 0.03-0.23% U3O8, with one assaying at 0.63% U3O8, a 0.4 ft channel sample had a value of 0.103% U3O8.

**RMKS**
- The carnotite-bearing bed was traced along the top of the mesa and was found to be radioactive along its entire length.

**DOE 1973**

**REF**
RIO BLANCO COUNTY

As of 1971 production from the county totaled 36,637 tons mined which produced 223,679 lb of U₃O₈, and 832,933 lb V₂O₅. The county is one of the major producers in the state, and potential for more reserves to be found is excellent. Small-scale mining will continue in the Coal Creek district as long as the price remains at its present value.

Rio Blanco County is situated in the northwestern part of the state. Most of the county lies within the Piceance Creek Basin, an elongate, northwest-trending structure. The north-trending Grand Hogback Monocline forms the boundary between Cretaceous and Tertiary sediments in the Piceance Creek Basin and Paleozoic sediments and Tertiary volcanics in the White River Plateau. At the north end of the Grand Hogback, about 15 miles northeast of Meeker, lies the Coal Creek Anticline, a small uranium district. Uranium mineralization is found where the Morrison Formation is exposed around the nose of the anticline. The ore is of the carnitite-type and concentrated in the Salt Wash Member of the Morrison Formation. This belt of mineralization is less than a mile wide and six miles long.

Most of the deposits in the county are small, commonly less than 500 tons, and were mined by small strip operations and underground methods. The largest producing mine in the county is in the Midnight Group of claims, where over 12,000 tons of ore were mined and shipped. This and all other large producers—Burrell 1, 2, 3, and the Burrell 5, the Butterfly Group, and the Shylo Group are located in the Coal Creek district. The Burrell Mines and the Butterfly Group are separate mines all lying within the same claim group. The Salt Wash Member of the Morrison Formation was the host for these deposits and for most other mines in the county.

Additional small occurrences or deposits will probably be found in the Salt Wash Member of the Morrison Formation near the Coal Creek Anticline. Small occurrences have been reported on the White River Plateau where older sedimentary rocks are exposed along the Grand Hogback. Any study of potential within the county should include those rocks of the hogback with emphasis on the Triassic Chinle Formation and the undivided Pennsylvanian-Permian section. They all host uranium deposits either in this county or in nearby counties. Of the younger rocks to the east, the Lower Cretaceous Dakota Sandstone, the Upper Cretaceous Illies Formation, and the Tertiary Wasatch Formation may be potential hosts as these, too, are known to contain uranium deposits in this or neighboring counties.
As of 1971, 9 tons of ore had been mined at grades of 0.11% $U_3O_8$ and 0.68% $V_2O_5$, producing 19 lbs of $U_3O_8$ and 122 lbs of $V_2O_5$.

HOST Jurassic Morrison Formation, Salt Wash Member.

MINZ Mineralization is probably in the form of tyuyamunite and/or carnotite.

DOI 1971


Brown Group (Brown 2)

LOCATION: sec. 25, T. 2 N., R. 92 W.

QUAD Sawmill Mountain 7 1/2

MAP CRAIG

PROD As of 1971, 206 tons of ore had been mined at a grade of 0.53% $U_3O_8$, producing 2,168 lbs of $U_3O_8$ and 1.41% $V_2O_5$, producing 5,797 lbs of $V_2O_5$. The Brown 5 added 20 tons of ore from these claims by 1971, at a grade of 0.21% $U_3O_8$ and 0.92% $V_2O_5$, producing 85 lbs of $U_3O_8$ and 381 lbs of $V_2O_5$.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971


Burrell 1, 2 and 3 (Last Day?)

LOCATION: NW1/4SE1/4 sec. 25, T. 2 N., R. 92 W.

LCRM This deposit is located in the Coal Creek area. Also in sec. 24 & 26.

QUAD Sawmill Mountain 7 1/2

MAP CRAIG

PROD As of 1971, 6,443 tons had been mined at grades of 0.35% $U_3O_8$ and 1.07% $V_2O_5$, producing 45,435 lbs of $U_3O_8$ and 128,618 lbs of $V_2O_5$.

HOST The host is the Salt Wash Member of the Jurassic Morrison Formation. It is a light gray, medium-grained sandstone and mudstone, with abundant coalified and silicified plant remains.

MINZ The primary minerals are carnotite and/or tyuyamunite.

DOI 1971


Burrell 5

LOCATION: sec. 25, T. 2 N., R. 92 W.

QUAD Sawmill Mountain 7 1/2

MAP CRAIG

PROD As of 1971, 597 tons of ore had been mined at a grade of 0.61% $U_3O_8$, producing 7,334 lbs of $U_3O_8$ and 14,348 lbs of $V_2O_5$ had been produced, with ore grades at 1.20% $V_2O_5$.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

MINZ Carnotite and tyuyamunite were the principal ore minerals.

DOI 1971


Butterfly Group (Butterfly No. 1)

LOCATION: SE1/4SE1/4 sec. 23, T. 2 N., R. 92 W.

LCRM Also in NE1/4NE1/4 sec. 26.

QUAD Sawmill Mountain 7 1/2

MAP CRAIG

DVEL This was primarily an underground mine, with production as shown through 1971.

PROD By 1971, 6,457 tons had been mined at grades of 0.29% $U_3O_8$ and 0.90% $V_2O_5$, producing 37,485 lbs of $U_3O_8$ and 115,596 lbs of $V_2O_5$.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

MINZ Carnotite and/or tyuyamunite were the main ore minerals.

RMKS The Butterfly and Burrell are in the same claim group, but are different mines.

DOI 1971


Chris

LOCATION:

LCST UNLOCATABLE

LCRM This deposit is located in the Coal Creek area.

QUAD Sawmill Mountain 7 1/2

MAP CRAIG

PROD As of 1971, two tons of ore had been mined at grades of 0.25% $U_3O_8$ and 1.48% $V_2O_5$, producing 10 lbs of $U_3O_8$ and 59 lbs of $V_2O_5$.

HOST The host is the Jurassic Morrison Formation, probably the Salt Wash Member.

MINZ Carnotite and tyuyamunite are the principal ore minerals.

DOI 1971


Coal Creek 1

LOCATION: sec. 25, T. 2 N., R. 92 W.

QUAD Sawmill Mountain 7 1/2

MAP CRAIG

PROD 5,105 tons of ore had been mined by 1971, at grades of 0.29% $U_3O_8$ and 0.76% $V_2O_5$, producing 29,405 lbs of $U_3O_8$ and 77,942 lbs of $V_2O_5$.

HOST The host is the Jurassic Morrison Formation, probably the Salt Wash Member.

MINZ Carnotite and tyuyamunite are the principal ore minerals.

DOI 1971


Columbine 1 – 4

LOCATION: sec. 26, T. 2 N., R. 92 W.

QUAD Sawmill Mountain 7 1/2

MAP CRAIG

PROD 298 tons of ore had been mined by 1971, at grades of 0.52% $U_3O_8$ and 1.44% $V_2O_5$, producing 3,084 lbs of $U_3O_8$ and 8,577 lbs of $V_2O_5$.

HOST The host is probably the Salt Wash Member.
Evening Star

LOCATION: T. 1 N., R. 91 W.
LCRM This deposit is located in the Coal Creek area.
PROD As of 1971, 32 tons of ore had been mined at grades of 0.44% U3O8 and 0.54% V2O5, producing 279 lbs of U3O8 and 347 lbs of V2O5.
HOST The host is reported as being the Triassic Chinle Formation.
MNZ Mineralization is of the carnotite type.
DOI 1971

Fawn Springs Group

LOCATION: T. 1 N., R. 90-91 W.
LCST UNLOCATABLE
LCRM Near Coal Creek.
QUAD Fawn Creek 7 1/2' & Lost Park 7 1/2'
HOST Shinarump Member of the Triassic Chinle Formation.
MNZ Carnotite.
DOI 1971

Frying Pan I

LOCATION:
LCST UNLOCATABLE
PROD As of 1971, 2 tons had been mined at grades of 0.25% U3O8 and 0.82% V2O5, producing 10 lbs of U3O8 and 33 lbs of V2O5.
HOST The host is probably the Jurassic Morrison Formation.
MNZ Carnotite and/or tyuyamunite were recognized.
DOI 1971

Iles Formation

LOCATION: sec. 24, T. 3 N., R. 103 W.
QUAD Mellen Hill 7 1/2'
MAP VERNAL
DVEL There is one 30 ft x 10 ft x 10 ft cut and numerous smaller pits.
RNG To 1600 cps
HOST The host rock is an Upper Cretaceous, fine-grained sandstone with carbonaceous debris.
STRC The ore-bearing beds have a dip of 75°S.
ALT Iron staining is common on the outcrop.
MNZ The deposit shows irregular secondary uranium mineralization in the outcrop of the sandstone. A selected outcrop sample assayed 0.035% U3O8.
DOI 1977

Jerry Zochol (Red Doe Claim)

LOCATION: W21/2 sec. 21, T. 2 N., R. 92 W.
LCRM There are many prospects in this section.
QUAD Thornburgh 7 1/2'
MAP CRAIG
DVEL There was no production on these claims.
HOST The host is probably the Salt Wash Member of the Jurassic Morrison Formation.
MNZ Tyuyamunite is probably the principal ore mineral.
DOI 1973

Last Day (Urin Mining Claim)

LOCATION: sec. 22, T. 2 N., R. 92 W.
LCRM There are numerous prospects in this section. This deposit is located in the Coal Creek area.
QUAD Thornburgh 7 1/2'
MAP CRAIG
PROD The Last Day mine, as of 1971, had yielded 1,040 tons of ore at grades of 0.28% U3O8 and 1.13% V2O5, producing 5,836 lbs of U3O8 and 23,581 lbs of V2O5.
HOST The deposit lies in the Salt Wash Member of the Jurassic Morrison Formation. It is a gray and brown, medium-grained sandstone with abundant coalified and silicified plant remains.
MNZ Tyuyamunite was the principal mineral mined.
DOI 1975, 1974, 1971

Lucile 106

LOCATION:
LCST UNLOCATABLE
PROD By 1971, one ton of ore had been mined at grades of 0.30% U3O8 and 1.25% V2O5, producing 6 lbs of U3O8 and 25 lbs of V2O5.
HOST The host is probably the Jurassic Morrison Formation.
DOI 1971

M & G

LOCATION:
LCST UNLOCATABLE
LCRM This deposit is located in the Coal Creek area.
PROD 6 tons of ore were mined from this property by 1971, at grades of 0.35% U3O8 and 1.52% V2O5, producing 42 lbs of U308 and 183 lbs of V2O5.
HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
DOI 1971

Marvine View 10
Rio Blanco County

LOCATION: sec. 26, T. 2 N., R. 92 W.
LCST UNLOCATABLE
LCRM Also sec. 25. This deposit is located in the Coal Creek area.
PROD 147 tons of ore were mined by 1971, at grades of 0.56% U3O8 and 1.25% V2O5, producing 1,647 lbs of U3O8 and 3,668 lbs of V2O5.
HOST The host is probably the Jurassic Morrison Formation.
DOI 1971

Midnight Group (Midnight Mine, Midnight NH, Caywood No. 1 and No. 2, Sleep Cat Uranium Mine, No Name)

LOCATION: NE1/4NW1/4 sec. 28, T. 2 N., R. 92 W.
LCRM The claim group also extends to sec. 21.
QUAD Sawmill Mountain 7 1/2' Map CRAIG
PROD The Midnight Group, as of 1971, had 12,108 tons of ore mined at grades of 0.29% U3O8 and 1.49% V2O5, producing 70,605 lbs of U3O8 and 360,179 lbs of V2O5. The Midnight NH by the same time had yielded 1,046 tons of ore at grades of 0.17% U3O8 and 1.02% V2O5, producing 3,521 lbs of U3O8 and 21,382 lbs of V2O5.
HOST The host is the Salt Wash Member of the Jurassic Morrison Formation. It is a gray to brown, medium-grained sandstone with abundant coalified and silicified plant remains.
MNZ Carnotite and/or tyuyamunite are the principal ore minerals. They are often closely associated with the carbonaceous remains and silicified wood fragments.
DOI 1973

Naomi Ann

LOCATION: sec. 21, T. 2 N., R. 92 W.
LCRM This deposit is located in the Coal Creek area.
QUAD Thornburgh 7 1/2' Map CRAIG
PROD As of 1971, 738 tons had been mined at a grade of 0.29% U3O8, producing 4,237 lbs of U3O8, and 1.10% V2O5, producing 16,246 lbs of V2O5.
HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
DOI 1971

Steely Claims (Guy Stealy Claims, James J. Riland Mine, Stanley Claims, James H. Hilland Mine)

LOCATION: NE1/4SE1/4 sec. 12, T. 1 N., R. 91 W.
LCRM These claims extend slightly into SW1/4E1/2 sec. 7, T. 1 N., R. 90 W. and into sec. 13, T. 1 N., R. 91 W.
Rio Blanco County

Twin Star 500

LOCATION: sec. 22, T. 2 N., R. 92 W.

LCRM UNLOCATABLE

QUAD Thornburgh 7 1/2'

MAP CRAIG

PROD Two tons of ore had been mined as of 1971, at grades of 0.31% U3O8 and 2.06% V2O5, producing 197 tons of ore at grades of 0.31% U3O8 and 2.06% V2O5 had been mined as of 1971, producing 1,207 lbs of U3O8 and 8,116 lbs of V2O5.

HOST The host is the Salt Wash Sandstone Member of the Jurassic Morrison Formation.

MNZ Tyuyamunite is probably the principal ore mineral.

DOI 1971, 1975


Unnamed No. 1

LOCATION: sec. 19, T. 2 N., R. 91 W.

QUAD Thornburgh 7 1/2'

MAP CRAIG

PROD 197 tons of ore at grades of 0.31% U3O8 and 2.06% V2O5 had been mined as of 1971, producing 1,207 lbs of U3O8 and 8,116 lbs of V2O5.

HOST The host is the Salt Wash Sandstone Member of the Jurassic Morrison Formation.

MNZ Tyuyamunite is probably the principal ore mineral.

DOI 1971, 1975

There is no production of uranium from this county, nor are there any reported occurrences.

The county has two geologic terranes. One is the San Luis Valley Graben, which is a downdropped block filled with thick Quaternary sediments. The other terrane, in the western part of the county, is dominated by Tertiary volcanic rocks.

Although no uranium occurrences are reported, some potential exists for uranium resources to be found within the county. In the volcanic terrain is the possibility of uranium mineralization emplaced during several periods of volcanogenic development. The area around the edges of the caldera near Summitville has good potential for this type of occurrence. The sediments of the San Luis Valley have small potential for sandstone-type of occurrences in the subsurface.
No production of uranium has been reported from Routt County to date. Geologically, the county is dominated by relatively flat-lying Cretaceous and Tertiary sediments. The exception is the Park Range on the eastern edge of the county where the uplift has exposed Precambrian rocks.

The potential of the county to contain uranium reserves appears to be limited. Many of the rock types that crop out in the county are not considered favorable hosts for uranium mineralization. Examples are the extensive outcrops of the Mancos and Lance Shales in the western part of the county, and large areas of gneiss in the Park Range on the eastern area of the county.

The Browns Park Formation and Illies Formation have the potential to contain important sandstone-type occurrences similar to those found near Maybell in Moffat County. Granitic rocks, such as the Sherman and Mount Ethel Granites that are exposed in the Park Range could contain uranium occurrences, although not much is known about uranium in these rocks.
Dead Horse Claims

LOCATION: sec. 3, T. 11 N., R. 86 W.
LCST UNCERTAIN
LCRM Sec. 4, 9, 10 also.
MAP CRAIG
DVEL No previous mining or production records. Workings consist of one 250 ft long trench, 12 ft wide and a maximum of 12 ft deep.
BKG .04 mr/hr
RNG To just above bg
HOST Mesaverde Formation(?). A fine-grained, well sorted sandstone. The major concentration of uranium is found adjacent to a rhyolite dike cutting the sandstone. Sandstone is Cretaceous. Dike is probably Tertiary.
STRC Dike appears to have localized the uranium mineralization.
MNZ Autunite ?.
RMKS The amount of autunite observed decreases away from the dike.
DOI 1955

Dennis D. Claims

LOCATION: sec. 6, T. 10 N., R. 83 W.
LCRM Also sec. 17, 20, 21.
MAP CRAIG
DVEL No production.
HOST Pegmatite.
MNZ Uranium.
DOI 1972.

E. C. Ellis Property

LOCATION: T. 10 N., R. 83 W.
LCST UNCERTAIN
LCRM 3 miles from Slavonia.
MAP CRAIG
DVEL 4 prospect pits.
HOST Pegmatite in Precambrian granite gneiss, hornblende and biotite schist.
STRC Pegmatites follow foliation of gneiss.
MNZ Uraninite, euxunite and gummite are reported from the pegmatite with hematite, and magnetite.
DOI 1950

Fair U Claims (Fish Creek Claims)

LOCATION: sec. 12, T. 6 N., R. 84 W.
MAP CRAIG
DVEL One tunnel (100?) ft long. Several prospect pits.
RNG .2 to .5 mr/hr
HOST Precambrian hornblende gneiss with pegmatites intrusions.
STRC Foliation is vertical, striking east-west. Pegmatites follow foliation.
MNZ Gummite?, autunite?, pitchblende? The biotite pods are radioactive.
DOI 1953

Marth Uranesich (Gilpin Falls No. 1 and 2)

LOCATION: sec. 32, T. 10 N., R. 83 W.
LCST UNSURVEYED
LCRM 1/2 mile northeast of Slavonia on east side of Gilpin Creek.
MAP CRAIG
DVEL There is a 200 ft tunnel and one prospect pit on outcrop. This was a lead prospect that was worked in early 1900's.
HOST Precambrian gneiss, lime schist, and pegmatite.
STRC Shear zone striking N70°W dipping 77°N.
MNZ Galena, sphalerite, chalcopyrite, uraninite, gummite, hemitite.
RMKS Radioactive pegmatites have been sheared and then sulfide mineralization introduced.
DOI 1953(?)

Sample No. 1

LOCATION:
LCST UNSURVEYED
LCRM Sample from the Encampment River approximately 25 miles below where Big Creek Trail joins Main Fork Trail.
QUAD Davis Peak 7 1/2.
HOST Stream sediment sample.
RMKS Sample data: 20 ppm U, 18 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 2

LOCATION: NW1/4 sec. 25, T. 7 N., R. 84 W.
LCST UNSURVEYED
LCRM Where trail crosses South Fork Soda Creek.
QUAD Rocky Peak 7 1/2.
MAP CRAIG
HOST Stream sediment sample.
RMKS Sample data: 20 ppm Nb, 17 ppm U, 31 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 3

LOCATION: NW1/4SE1/4 sec. 22, T. 7 N., R. 84 W.
LCST UNSURVEYED
QUAD Rocky Peak 7 1/2.
MAP CRAIG
HOST Stream sediment.
RMKS Sample data: 20 ppm Nb, 10 ppm U, 26 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 4

LOCATION: NW1/4 sec. 16, T. 7 N., R. 84 W.
LCRM Point where pack trail crosses Bear Creek.
QUAD Rocky Peak 7 1/2.
MAP CRAIG

384
Routt County

HOST Stream sediment sample.
RMKS Sample data: 20 ppm Nb, 4 ppm U, 52 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 5

LOCATION: SE1/4NW1/4 sec. 9, T. 7 N., R. 84 W.
LCRM Taken just below small lake.
QUAD Rocky Peak 7 1/2
MAP CRAIG
HOST Stream sediment.
RMKS Sample data: 20 ppm Nb, 10 ppm U, 47 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 6

LOCATION: E1/2NW1/4 sec. 11, T. 10 N., R. 85 W.
LCRM Area west of Farwell Mine.
QUAD Hahns Peak 7 1/2
MAP CRAIG
HOST Rock sample, probably Precambrian hornblende gneiss.
RMKS Sample data: 150 ppm Nb, 3 ppm U, 19 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 8

LOCATION: NW1/4 sec. 17, T. 7 N., R. 83 W.
LCST UNSURVEYED
LCRM North side of Soda Creek.
QUAD Buffalo Pass 7 1/2
MAP CRAIG
HOST Rock sample of Precambrian Mount Ethel granite.
RMKS Sample data: 20 ppm Nb, 34ppm U, 13 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 9

LOCATION: NW1/4NE1/4SW1/4 sec. 10, T. 7 N., R. 84 W.
LCST UNSURVEYED
QUAD Rocky Peak 7 1/2
MAP CRAIG
HOST Rock sample of Precambrian Mount Ethel granite.
RMKS Sample data: 30 ppm Nb, 5 ppm U, 46 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 10

LOCATION: NE1/4NE1/4SE1/4 sec. 29, T. 7 N., R. 84 W.
LCRM Small unnamed creek that enters Gunn Creek.
QUAD Rocky Peak 7 1/2
MAP CRAIG
HOST Stream sediment sample.
RMKS Sample data: 20 ppm Nb, 9 ppm U, 30 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 11

LOCATION: NE1/4NE1/4NE1/4 sec. 29, T. 7 N., R. 84 W.
LCRM In Gunn Creek.
QUAD Rocky Peak 7 1/2
MAP CRAIG
HOST Stream sediment sample.

Sample No. 12

LOCATION: NW1/4NW1/4 sec. 33, T. 7 N., R. 84 W.
LCRM Point where road crosses stream.
QUAD Rocky Peak 7 1/2
MAP CRAIG
HOST Stream sediment sample.
RMKS Sample data: 30 ppm Nb, 14 ppm U, 48 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 13

LOCATION: SW1/4SW1/4 sec. 32, T. 8 N., R. 84 W.
LCRM Point where trail crosses South Fork.
QUAD Rocky Peak 7 1/2
MAP CRAIG
HOST Stream sediment sample.
RMKS Sample data: 100 ppm Nb, 25 ppm U, 146 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sample No. 14

LOCATION: NW1/4NE1/4SW1/4 sec. 32, T. 8 N., R. 84 W.
QUAD Rocky Peak 7 1/2
MAP CRAIG
HOST Stream sediment sample.
RMKS Sample data: 30 ppm Nb, 21 ppm U, 26 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Twenty Mile Park

LOCATION: T. 5 N., R. 86 W.
LCST UNCERTAIN
MAP CRAIG
PROD Maximum of 2.5 ft of 0.25% eU308, depth range from surface to 50 ft.
RNG Max. 2000 cps
HOST Minor secondary tabular type mineralization beneath Fish Creek Coal seam in the Holderness Sandstone Member of the Upper Cretaceous Williams Fork Formation.
STRC 5° to 7° dip.
ALT Hematite and limonite stain.
MNZ Eight wells had mineralization ranging from 0.010% to 0.025% eU308.
RMKS 29 exploration wells were drilled in sec. 10, 14, 22, 27 and 28.

Willow Creek Claims

LOCATION: sec. 12, T. 10 N., R. 86 W.
LCRM Claims are 2.5 miles south of Columbine on Colorado 128 and approximately 1,000 ft west along jeep trail.
MAP CRAIG
DVEL One 250 ft long trench. Numerous prospect pits.
BKG .03 to .05 m/hr
RNG .2 to .8 m/hr
HOST Jurassic Morrison Formation(?). Badly fractured,
weathered and carbonaceous mudstone.

Dip is 46° southwardly.

Autunite is principal mineral, some occasional pitchblende. Sample had value of 0.08% eU.

1955

SAGUACHE COUNTY

Uranium production from the county as of 1971 totaled 596,494 tons of ore at an average grade of 0.22 percent U₃O₈. Development is beginning on a major mine with excellent possibility of more reserves being found in the county.

Igneous rocks of the Miocene Potosi Volcanic Series cover much of Saguache County, located in south-central Colorado. Paleozoic sediments and Precambrian rocks are found along the Sangre de Cristo Range on the eastern edge of the county. These two areas are separated by the valley of the San Luis Graben, which is filled with thousands of feet of recent sediments. Paleozoic and younger rocks crop out in scattered locations around the county. In the Sargents-Marshall Pass-Bonanza area is an extensive field of late Tertiary volcanic flows, known as the Bonanza volcanic field.

Most of the production in the county came from mines in the Cochetopa district and in the Marshall Pass area. No production is currently taking place in these areas, but reserves are large, and at least one major mine, the Pitch, will begin operations soon.

Three mines produced 99 percent of the ore mined in the county—the Los Ochos Mine, the Pitch Mine, and the T-2 Mine. The Los Ochos Group and the T-2 Mine lie on the Los Ochos Fault in the Cochetopa district. Here the mineralization occurs where the Los Ochos fault brecciates the Morrison Formation, the Dakota Sandstone, and the Mancos Shale, which all overlie Precambrian rocks. Morrison Formation sandstones appear to be the most favorable host, but the Dakota Sandstone should not be overlooked.

The Pitch Mine is the important past producer in the Marshall Pass district. The mine has been inactive for many years, but is currently being readied for strip-mining operations. The uranium at the Pitch Mine occurs in the Pennsylvanian Belden Formation. The Pitch Mine and all other occurrences in this area lie on or near the Chester Fault, which displaces Precambrian rocks against remnants of Paleozoic rocks. Although the Belden Formation is mineralized at the Pitch Mine, nearly any of the Paleozoic formations can act as a host. Some of the occurrences, such as the Little Indian No. 36, are found in Harding Quartzite, while others are found in the Leadville Limestone or in the Chaffee Formation.

Saguache County shows excellent potential for the discovery of relatively large ore bodies. The known deposits in this county primarily lie in the Cochetopa district, the Marshall Pass area, and in the Kerber Creek district. The Kerber Creek area's geology is nearly identical to that of the Marshall Pass area. These are the areas with the major potential in the county. In the Cochetopa district, emphasis should be placed on locations where major faults have brecciated the Dakota Sandstone and the Morrison Formation. Mineralization in both the Marshall Pass area and in the Kerber Creek district is found where such structures as the Chester Fault intersect remnants of the Paleozoic section. Similar stratigraphic and structural conditions in Saguache and adjacent counties could yield similar types of deposits.
**Saguache County**

**Anne Claim**

LOCATION: sec. 27, T. 47 N., R. 3 E.

QUAD: Razor Creek Dome 7 1/2'

MAP: MONTROSE

DVEL: Two trenches, 60 to 75 ft long and 2 to 6 ft deep were bulldozed. A 10 ft deep shaft was sunk.

BKG: .015 mr/hr

RNG: .07 to .4 mr/hr

HOST: The country rock is Precambrian granite and Tertiary andesite flows. Although mineralization occurs in the granite, the contact between granite and volcanics is only about 10 to 15 ft from the mineralization and runs parallel to the trend of mineralization.

STRC: Shear zones, which are highly fractured and contain the mineralization, cut the granite. The trends range between S35°W and S65°W and dips lie between 65° and 70°E.

ALT: Alteration is common and intense in the shear zones.

MNZ: The shear zones are characterized by abundant limonite, hematite, and minor manganese staining. No specific uranium mineral was identified, but traverses reveal radioactivity of from 3 to 15 times background. Channel samples range as high as 27 times background.

DOI: 1955


**Apache No. 4**

LOCATION: sec. 19, T. 48 N., R. 6 E.

LCRM: This claim also extends to sec. 30. It lies 1/4 mile west of Indian Creek.

QUAD: Pahlane Peak 7 1/2'

MAP: MONTROSE

DVEL: There has been no production from the claim. 40 diamond drill holes were completed. A small reserve at an average depth of 100 ft has been developed.

HOST: The deposit occurs as a bedded deposit in the Ordovician Harding Quartzite. A 4.5 ft thick carbonaceous zone localized the radioactivity.

STRC: The mineralized area lies on the Indian Creek anticline.

MNZ: The mineralization averaged 0.24% U3O8. Uraninite or pitchblende and scattered sulfides were noted.

DOI: 1972


**Belle Lode (Balls Lode, Freeman Claims)**

LOCATION: sec. 28, T. 48 N., R. 2 E.

LCRM: The deposit also extends to sec. 33.

QUAD: Iris 7 1/2' and Houston Gulch 7 1/2'

MAP: MONTROSE

BKG: .02 mr/hr

RNG: 2.00 mr/hr

HOST: The host is primarily Precambrian granite cut by Tertiary quartz-latite dikes.

STRC: Fault fissures appear to control and localize the ore.

MNZ: Malachite and azurite are abundant in a quartz-carbonate-barite gangue. No visible uranium minerals were originally noted, but pitchblende was later found.

DOI: 1954


**Big Indian Group of Claims**

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388
LOCATION: sec. 20, T. 48 N., R. 6 E.
LCRM UNSURVEYED
LCST Location:
DVEL Two open adits, 15 ft in length have been opened up with access roads to each. Numerous test pits along the mineralized horizon have been dug, but there has been no production.

BKG .003 mr/hr
RNG .1 to .3 mr/hr

HOST Mineralization has taken place in a 5 ft section of fine- to medium-grained felsic, locally carbonaceous, asphaltic pellet bearing, iron stained, rather porous sandstone of the Orдовician Hardin Quartzite. The formation is 18 to 20 ft thick and the mineralized zone is both overlain and underlain by a dense quartzitic sandstone with minor iron staining and no asphaltic or carbonaceous material.

STRC The beds have been folded into an anticlinal fold with Indian Creek roughly bisecting the axis at right angles.

MNZ Select and channel samples ranged between 0.07 and 0.10 mr/hr. Assay results by a private assayer indicate considerable disequilibrium in favor of chemical uranium. Samples assayed averaged 0.10% U3O8. The primary uranium mineral is pitchblende, or uraninite, but gummite, autunite and zirpeite were also found.

1955

DOI 1955


Bob Cat

LOCATION: sec. 26, T. 44 N., R. 11 E.
DVEL Discovered in 1953, working consists of open cuts and pits.

PROD A total of 46 tons of 0.14% U3O8 and 0.08% V2O5 were mined in 1953-1954, producing 131 lbs of U3O8 and 78 lbs of V2O5.

HOST The host is a zone pegmatite in a Precambrian granite. This pegmatite is one of a series of dikes that cut Precambrian schist, gneiss, or uraninite, but gummite, autunite and zirpeite were also found.

STRC Near vertical and strikes northwest.

MNZ Uranium, thorium, and rare earth minerals.

1971

DOI


Bonita Nos. 1 & 2 Claims (Bonita Claim, Bonita Group)

LOCATION: sec. 23, T. 48 N., R. 7 E.
LCST UNSURVEYED
LCRM The mine is adjacent to the road. It also extends to sec. 14.

QUAD Map MONTROSE
DVEL Drifting on the mineralized structure began in the fall of 1954. Workings as of November 1, 1955 consisted of 375 ft of underground work.

1955-1958, a total of 163 tons had been mined at a grade of 0.144% U3O8, producing 472 lbs of U3O8 and 5 lbs of V2O5.

BKG .08 to .10 mr/hr
RNG .2 to 1.0 mr/hr

HOST The host is a carbonaceous regolith of possible Eocene age which rests on Precambrian granite and is overlain by Miocene Potsot Volcanic Series.

STRC A major fault, which branches out to several faults and steepens where it branches, appears to control the mineralization.

ALT Heavy wallrock alteration to sericite and kaolinite is present. Heavy hematite alteration exists in the faults.

MNZ The mineralization appears at one point as minor visible autunite (?) and non-visible minerals in the rhyolitic footwall of the fault. Where the fault branches into vertical trends the mineralization is not megascopically visible, but is associated with the heavy hematite alteration in the faults. Radiometric assays range from 0.008 to 0.35% U3O8, and chemical assays are between 0.026 and 0.526% U3O8. The majority of ore comes from an eight in. seam of black, carbonate material which dips 25 ft to the west. The seam occurs between Precambrian granite below and a Tertiary trachyte porphyry above. The primary mineralization is probably of the uraninite - coffinite type with minor pyrite.

1955

DOI

the shear zones in the Precambrian. Fluorite was noted in the sandstone in the footwall of the shear.

DOI 1955

ONG 1, 2, 3, and 4
LOCATION: sec. 35, T. 47 N., R. 1 E.
LCST UNCERTAIN
QUAD Iris 7 1/2' or Sawtooth Mountain 7 1/2'
MAP MONTROSE
BKG .04 mr/hr
RNG .50 mr/hr
HOST The country rock consists of Precambrian in fault contact with Paleozoic sediments.
STRC A fault zone cuts through the Precambrian and Paleozoic rocks.
MNZ A highly fluorescent mineral (autinite?) is disseminated throughout the sandstone and granite host rock.
DOI 1954

Erie No. 33
LOCATION: SW1/4 sec. 15, T. 48 N., R. 6 E.
QUAD Pah lone Peak 7 1/2'
MAP MONTROSE
DVEL There was no production from this claim.
HOST The deposit consists of a jasperoid in an iron-rich limestone within the Ordovician Harding Quartzite.
MNZ Uranium mineralization was present, assaying 0.14% U3O8.
DOI 1972

Green Cliff Group
LOCATION:
LCST UNLOCATABLE
DVEL This was reported as a past producer; but no figures could be located for a deposit with this name.
DOI 1975

I. Kreiner
LOCATION: NE1/4 sec. 23, T. 44 N., R. 11 E.
LCST UNSURVEYED
QUAD Electric Peak 15'
MAP PUEBLO
DVEL The quartz and feldspar zones of the pegmatite dike were quarried in the past.
BKG .04 mr/hr
RNG to 1.5 to 10.0 mr/hr
HOST The host is a vein in a pegmatite zone of a dike. This is one of a series of dikes which cut Precambrian rocks in a belt 3 miles wide by 25 miles long.
STRC A two ft pegmatitic vein is exposed for 40 ft. The vein appears to be zoned in this area, with the radioactive zone adjacent to a five ft section of feldspar. Next to the feldspar on its other side is a massive milky quartz zone.

DOI 1953

Judith Claim
LOCATION: sec. 14, T. 44 N., R. 11 E.
LCST UNCERTAIN
HOST Northwest trending pegmatite which has intruded a Precambrian granite. This is one of a series of pegmatite dikes which cuts the Precambrian rocks in a belt 25 miles long by 3 miles wide.
MNZ 0.499% U3O8 on a 7 ft channel cut. The mineral is samarskite.
RMKS Also see the I. Kreiner property which is nearby and which a Western Nuclear report said was euxenite mineralization.
DOI 1977
REF Western Nuclear Submittal file.

Kerber Creek Prospect
LOCATION: sec. 36, T. 46 N., R. 8 E.
DVEL Prospects.
HOST Upper part of Ordovician Harding Quartzite. A well-indurated fine-grained sandstone with carbonaceous trash.
STRC Reverse faults with Precambrian rocks faulted against sediments.
ALT Some silicification, there are also some iron oxides.
MNZ 0.01 to 3% U3O8 (usually 0.1%), spotty autunite and uranophane. Average thickness of mineralization is 5 ft.
DOI 1977

La Rue Claims (Elisha Group, Elisha-LaRue, La Rue 2, La Rue 227)
LOCATION: S1/2NE1/4 sec. 29, T. 47 N., R. 2 E.
LCRM The trenches arc 200 ft east of the old Mercury Mine. U.S. A.E.C. Records also show sec. 30.
QUAD Sawtooth Mountain 7 1/2'
MAP MONTROSE
DVEL In 1937, exploration for mercury took place. At that time several trenches, pits, drift, and shaft were dug.
PROD 7 tons of ore were mined during 1954-1960 at a grade of 0.20% U3O8 and 0.11% V2O5, producing 28 lbs of U3O8 and 16 lbs of V2O5.
BKG .03 mr/hr
Saguache County

RNG .3 to 1.5 mr/hr
HOST The old workings were in the Brushy Basin Member of the the Morrison Formation, Cretaceous Dakota Formation, and also the Salt Wash Member of the Jurassic Morrison Formation.
STRC There is a northwest-trending shear zone with abundant brecciation of the sandstone. The shear zone appears to control mineralization at the Los Ochos property.
MNZ Mineralization appears to be, in part at least, associated with overlying fine-grained, silicified Dakota Sandstone boulders. Marcasite (?) was noted, and uranophane, autunite, torbernite, and sparse asphalite are present in the boulders. A selected sample had a value of 0.25% U3O8 and 0.26% U3O8.

Little Indian No. 6 (Indian Creek Group)

LOCATION: sec. 17, T. 48 N., R. 6 E.
LCRM This deposit lies 1/2 mile east of Indian Creek and also extends to sec. 20.
QUAD Pahlone 7 1/2' 
MAP MONTROSE
DVEL There was some diamond core drilling completed.
HOST The host is the Ordovician Harding Quartzite or the sandstone which contains a 4.5 ft thick carbonaceous zone in a fossiliferous, silty sandstone.
MNZ Autunite and uranophane have been indentified. The mineralized zone assays 0.14% U3O8.

Lookout Claims (Lookout Group, Lookout No. 15-34)

LOCATION: NE1/4 sec. 27, T. 48 N., R. 6 E.
LCRM This occurrence extends to sec. 22.
QUAD Pahlone Peak 7 1/2'
MAP MONTROSE
PROD During the period 1956 through 1960, a total of 514 tons averaging 1.17% U3O8 and containing 13,500 lbs of U3O8 were produced from the Lookout #22 Claim. From 1954 to 1961, other claims in the Lookout Group (#2, #33) produced a total of 63 tons averaging .25% U3O8 and producing 371 lbs of U3O8.
HOST A vein at the faulted contact of Precambrian pegmatite and schist. At Lookout #22 several hundred tons of high grade ore were produced from the collium overlying a weakly mineralized contact of pegmatite and schist.
MNZ Pitchblende, uranium, and uranophane are present in the vein, with assays of 1.0% U3O8. The high grade pitchblende was surrounded by orange alteration products, becquerelite and scheelite.

Los Ochos Group (Kathy Jo, East Mine, Thornburg Mine, T-1, Irishman's Dream)

LOCATION: NE1/4 sec. 4, T. 47 N., R. 2 E.
LCRM These properties lie in the NE1/4 sec. 4, T. 47 N., R. 2 E.; SE1/4 sec. 33, T. 48 N., R. 2 E.; SW1/4 sec. 34, T. 48 N., R. 2 E.; and NW1/4 sec. 3, T. 47 N., R. 2 E.
QUAD Razor Creek Dome 7 1/2'
MAP MONTROSE
DVEL Numerous claims and prospects were located in 1954. One property had over 355 ft of underground workings, while the owner of the Los Ochos Group developed over 2,500 ft of drifting and did 6,200 ft of core drilling. Drilling has resulted in the discovery of at least two significant ore bodies.

PROD Prior to 1971, 448,685 tons of ore at a grade of 0.14% U3O8 had been mined, producing 1,253,513 lbs of U3O8.

BKG .04 mr/hr
RNG .05 - .5 mr/hr
HOST The deposits occur along a fault where Precambrian granite and schists have been faulted against Jurassic Morrison Formation (Brushy Basin Member). One ore body is in the altered Precambrian schists, while another is in a brecciated, silicified mudstone of the Brushy Basin Member. Most of the ore was mined from sandstone and shale of the Morrison Formation. Mineralization has been found for about a mile along the fault, with most of the ore being in the fault breccia or immediately adjacent rocks. Some ore bodies did extend to as much as 200 ft from the fault into the Morrison Formation.

STRC The Los Ochos Fault is the dominant structure in the area; it is about 3 1/2 miles long. All of the ore deposits are closely related to it spatially. Veins cut the Precambrian rocks. They are one to two ft in thickness, and were originally mined for gold.

ALT Alteration is reported to be intense in the area of the deposits. The Precambrian rocks are kaolinitized, chloritized, and sericitized. The sediments are highly silicified.

MNZ The veins are bound by clay minerals. Autunite is found coating fractures with abundant hematite and limonite staining. The radioactive minerals primarily occur in the broken and recemented breccia and include uraninite, autunite, uranophane, torbernite, johannite, uranopilite, and zircons. Uranium was the principal ore mineral. The gangue minerals were clays, barite, clay minerals, marcasite, and quartz. The uraninite occurred in veinlets of marcasite and clay minerals.

DOI 1959

391
Saguache County


M & W Group

LOCATION: SW1/4 sec. 20, T. 47 N., R. 2 E.
QUAD Sawtooth Mountain 7 1/2'
MAP MONTROSE
DVEL Four discovery trenches were dug.
BKG .015 - .025 mr/hr
RNG .15 mr/hr
HOST The rocks in the area consist of Precambrian granite gneiss and the Salt Wash Member of the Jurassic Morrison Formation. The anomalous radioactivity occurs in the Precambrian rocks.
STRC A nearly vertical shear zone, striking 35°E, trends through exposures of Precambrian granite gneisses and Jurassic Morrison Formation.
MNZ Radioactivity is associated with the intensely sheared, hematite stained Precambrian rocks. A minor amount of disseminated fluorite is present in the sandstone. No visible uranium mineralization was noted.
DOI 1955

Marshall Pass Group Nos. 1-58

LOCATION: sec. 27, T. 48 N., R. 6 E.
LCST UNSURVEYED
QUAD Pah lone Peak 7 1/2'
MAP MONTROSE
DVEL The prospect consists of a small pit 10 ft x 10 ft x 6 ft. Two to three tons of ore were stockpiled.
PROD In 1956, 18 tons of ore were mined at a grade of 1.06% U3O8 and 0.06% V2O5, producing 380 lbs of U3O8 and 22 lbs of V2O5 from the Marshall Pass No. 5 Claim.
BKG .07 mr/hr
RNG 20.0 + mr/hr
HOST The prospect is in a coarse-grained Precambrian granite that has intruded biotite and muscovite schist. Limestones and quartzites and the Pennsylvanian Belden Shale are all associated with the area. Ore production came from a pegmatoid developed on the Precambrian rocks.
STRC The Chester Fault has thrown younger sediments against Precambrian igneous and metamorphic rocks. The mineralization is intimately related to the faulting as at the Pitch Mine northwest of this occurrence. Other north-trending faults occur in this area.
MNZ Two samples sent in by the owners assayed 21.40 and 30.04% U3O8. The uranium mineral is pitchblende with minor amounts of uranophane (?) and gummite. A minor amount of galena was present in the pitchblende.
RMKS This is in the area of the Pitch Mine.
DOI 1956

Mercury - Alpine Claims

LOCATION: sec. 33, T. 44 N., R. 12 E.
LCRM The deposit also extends to sec. 5, T. 42 N., R. 12 W.
QUAD Electric Peak 15'
MAP PUEBLO
DVEL Open cuts, average depth to ore was 5 ft. Shallow jackhammer drilling done at property.
PROD During 1958-1962, a total of 25 tons had been mined at a grade of 0.31% U3O8, producing 155 lbs of U3O8.
HOST Permian Sangre de Cristo Formation, Carbonaceous Sandstone.
MNZ Uraninite occurs in pockets in silty arkosic beds.
DOI 1971

Mercury Mine

LOCATION: SW1/4NE1/4 sec. 29, T. 47 N., R. 2 E.
QUAD Sawtooth Mountain 7 1/2'
MAP MONTROSE
PROD No production recorded.
HOST The deposit occurs where the Jurassic Morrison Formation has been faulted against Precambrian rocks.
STRC A fault controls the area of mineral deposition.
DOI 1972

Millie Luna (Sylvia, Faith Groups)

LOCATION: sec. 16, T. 45 N., R. 11 E.
QUAD Valley View Hot Springs 7 1/2'
MAP PUEBLO
DVEL Some underground mining was completed on the prospect.
HOST The deposit lies in Pennsylvanian limestones and sandstones where the bedding planes have shears within them.
STRC Shearing?
MNZ Uranium mineralization was recognized, but no uranium minerals were visible.
DOI 1975

Mocking Bird Claim

LOCATION: sec. 4, T. 46 N., R. 10 E.
LCST UNCERTAIN
LCRM Possibly in sec. 3 also.
QUAD Howard 15'
MAP PUEBLO
DVEL Several development cuts and pits were made.
PROD In 1954, six tons of 0.20% U3O8 ore were mined, yielding 24 lbs of U3O8.
LOCATION: NW1/4 sec. 33, T. 46 N., R. 8 E.
HOST The host rock is Ordovician Harding Quartzite.
STRC The Harding Quartzite strikes N60°E and dips N22°W.
MNZ The mineralized zone is confined to a 4.5 ft thick carbonaceous bed within the Upper Harding Quartzite. No uranium minerals were visible but radioactivity appears to be associated with limonite staining and carbonaceous matter in the form of fish scales and asphaltic pellets. An unidentified copper mineral was present in places.

Ram Lode and Pan Lode (Ram Lode 1)

LOCATION: sec. 3, T. 44 N., R. 11 E.
LCRM Also sec. 4. This lease also extends into sec. 33, 34, T. 45 N., R. 11 E.
DVEL Shallow open cuts.
PROD From Ram Lode 10 tons had been mined in 1955, at a grade of 0.06% U3O8 and 0.04% V2O5, producing 12 lbs of U3O8 and 8 lbs. of V2O5. From Ram Lode 1, 19 tons had been mined in 1955 at a grade of 0.16% U3O8 and 0.09% V2O5, producing 61 lbs of U3O8 and 34 lbs of V2O5.

Rainbow's End

LOCATION: S1/2NE1/4 sec. 33, T. 46 N., R. 8 E.
QUAD Villa Grove 7 1/2
MAP PUEBLO
DVEL The property has no history of production. Workings consist of a few small pits 1-2 ft deep.
BKG .02 - .09 mr/hr
RNG .18 mr/hr
HOST The host rock is Ordovician Harding Quartzite.
STRC The Harding Quartzite strikes N60°E and dips N22°W.

Pitch Mine (Erie No. 28)

LOCATION: NE1/4NE1/4 sec. 21, T. 48 N., R. 6 E.
LCRM The deposit also extends to the NW1/4NW1/4 sec. 22, T. 48 N., R. 6 E.
QUAD Pahlone Peak 7 1/2
MAP MONTROSE
DVEL The mine was first established as an underground mine in the 1950's. Later work has been done on the surface. Homestake Mining Company is in the process of developing an open pit mine on property as of 1977.

PROD 104,520 tons were mined prior to 1971 at a grade of 0.58% U3O8, producing 1,206,112 lbs of U3O8. In a paper given at the American Institute of Mining Engineers Meeting, Denver 1978, reserves were reported as 2.1 million tons of ore at a grade of 0.17% U3O8. This would be equivalent to 1.74 million lbs of U3O8. The pit will be approximately 5,000 ft long by 400 ft deep. It is to be elongated along the Chester Fault with the fault being the axis of the pit.

HOST The deposit occurs in the Pennsylvanian Belden shale and limestones where they have been faulted into contact with Precambrian rocks.
STRC The Chester Thrust Fault controlled ore deposition in the vein.

Rocks are altered near the fault. Swelling ground necessitated the use of arched steel sets in areas of highly altered Precambrian rocks.

Uraninite, pitchblende, uranophane, and pyrite are found at the mine.

Ridgeway No. 3 Claim

LOCATION: NW1/4NW1/4 sec. 8, T. 47 N., R. 2 E.
QUAD Sawtooth Mountain Quadrangle 7 1/2'
MAP MONTROSE
DVEL Two small (2 to 4 ft deep) prospect pits were dug.
BK/G .01 to .015 mr/hr
RNG .05 to .3 mr/hr.
HOST The mineralized area lies in Precambrian granite surrounded by Precambrian biotite schist and granite gneiss cut by stringers and irregular bodies of pegmatite.
STRC The mineralization lies in shear zones trending N55°E and N70°W with an apparent intersection at or near the upper prospect pit.
ALT The shear zones are heavily altered.
MNZ Other claims in the group did not show abnormal radioactivity.
DOI 1955

Sage Hen (Friendly Neighbor)

LOCATION: sec. 34, T. 48 N., R. 2 E.
LCRM This also extends to sec. 35, and to sec. 2, 3, T. 47 N., R. 2 E.
QUAD Houston Gulch 7 1/2'
MAP MONTROSE
DVEL The area was explored and some underground mining was carried out.
FRUD Drilling developed on small ore body at an average depth of 475 ft. No uranium production on record with the U.S. A.E.C. According to CRIB, 4,800 tons of ore were mined at a grade of 0.15% U3O8 from the 370 ft level.
HOST The deposit lies in the Jurassic Morrison Formation, Salt Wash Member, silicified sandstones and mudstones in fault contact with Precambrian rocks.
MNZ Uranium mineralization was found, in the form of pitchblende or uraninite. Scattered sulfides are also present.
DOI 1972

Shurshot Claims

LOCATION: T. 47 N., R. 1 E.
QUAD Sawtooth Mountain 7 1/2'
MAP MONTROSE
HOST The deposit occurs where Precambrian metamorphics contact the Jurassic Morrison Formation.
STRC A fault contact controlled the ore emplacement.
MNZ Pitchblende is present.
DOI 1972

T-2 Mine (Sec. 3 Mine)

LOCATION: N1/2NE1/4 sec. 3, T. 47 N., R. 2 E.

Unnamed No. 1

LOCATION: T. 48 N., R. 2 E.
QUAD Houston Gulch 7 1/2' or Iris 7 1/2'
MAP MONTROSE
DVEL This was a small gold mine, with production begun in 1905.
HOST The deposit is in the Jurassic Morrison Formation and/or Cretaceous Dakota Sandstone, in fault contact with Precambrian granites.
STRC A fault brought the sedimentary units into contact with the Precambrian rocks.
MNZ Uranium and gold mineralization is present.
DOI 1972

Unnamed No. 2

LOCATION: sec. 17, T. 48 N., R. 3 E.
LCRM This deposit also extends to sec. 19 through 22 and 28.
QUAD Houston Gulch 7 1/2'
MAP MONTROSE
DVEL There has been some production.
HOST The deposit lies in Cretaceous rocks overlain by the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was found.
DOI 1972

Unnamed No. 3

LOCATION: sec. 29, T. 48 N., R. 3 E.
LCRM This deposit also extends to sec. 30-34.
QUAD Houston Gulch 7 1/2'
MAP MONTROSE
HOST The deposit lies in Cretaceous rocks overlain by Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was discovered.
DOI 1972
Saguache County

Unnamed No. 4
LOCATION: NE1/4 SW1/4 sec. 13, T. 48 N., R. 6 E.
QUAD Pahione Peak 7 1/2'
MAP MONTROSE
HOST The deposit lies in the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was detected.
DOI 1972

Unnamed No. 5
LOCATION: sec. 15, T. 48 N., R. 4 E.
LCRM This deposit also extends to sec. 20, 21, 28, 29, and 32.
QUAD Doyleville 7 1/2'
MAP MONTROSE
HOST The deposit occurs in the Jurassic Morrison Formation and/or the Cretaceous Dakota Group.
MNZ Uranium mineralization was recognized.
DOI 1972

Unnamed No. 6
LOCATION: sec. 1, T. 45 N., R. 7 E.
LCRM This occurrence also extends to sec. 13.
QUAD Cochetopa Park 7 1/2'
MAP MONTROSE
HOST The deposit is in the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was found.
DOI 1972

Unnamed No. 7
LOCATION: NW1/4 NW1/4 SE1/4 sec. 6, T. 45 N., R. 3 E.
QUAD Cochetopa Park 7 1/2'
MAP MONTROSE
HOST The deposit is in the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was recognized.
DOI 1972

Unnamed No. 8
LOCATION: sec. 4, T. 45 N., R. 5 E.
LCRM The deposit extends to parts of sec. 5, 8, 10, 16, and 17. It lies north of Saguache Creek.
QUAD Trickle Mountain 7 1/2'
MAP MONTROSE
HOST The deposit lies in Miocene Potosi Volcanic Series.
MNZ Gold and uranium mineralization were both found.
DOI 1972

Unnamed No. 9
LOCATION: sec. 1, T. 46 N., R. 2 E.
LCRM The deposit extends to sec. 3, 10, 11, and 15.
QUAD Razor Creek Dome 7 1/2'
MAP MONTROSE
HOST The deposit lies in the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was detected.
DOI 1972

Unnamed No. 10
LOCATION: sec. 4, T. 47 N., R. 3 E.
LCRM The occurrence extends to sec. 7, 17, 18, 31 and 33.
QUAD Razor Creek Dome 7 1/2'
MAP MONTROSE
HOST The deposit occurs in Cretaceous rocks overlain by the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was detected.
DOI 1972

Unnamed No. 11
LOCATION: sec. 1, T. 47 N., R. 1 E.
LCRM The occurrence extends to sec. 2, 12, 24, 25, and 36.
QUAD Sawtooth Mountain 7 1/2'
MAP MONTROSE
HOST The deposit occurs in the Jurassic Morrison Formation, overlain by the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was discovered.
DOI 1972

Unnamed No. 12
LOCATION: S1/2S1/2 sec. 25, T. 48 N., R. 1 E.
LCRM The deposit extends to SW1/4NE1/4sec. 25, 36.
QUAD Iris 7 1/2'
MAP MONTROSE
HOST The deposit occurs in the Jurassic Morrison Formation.
DOI 1972

Unnamed No. 13
LOCATION: sec. 5, T. 46 N., R. 3 E.
LCRM The occurrence extends to sec. 6, 7, 16, 17, and 18.
QUAD Razor Creek Dome 7 1/2'
MAP MONTROSE
DVEL There has been no production at this site.
HOST The host is the Miocene Potosi Volcanic Series.
MNZ Uranium mineralization was detected.
DOI 1972

Unnamed No. 14
LOCATION: LCST UNLOCATABLE
PROD U.S. A.E.C. Records show that in 1955 Wycol Minerals shipped 44 tons averaging 0.05% U3O8 and containing 44 lbs. of USO8 to the Kerr Mcgee mill at Shiprock, N.M. from an unnamed property in Saguache County, Colorado.
SAGUACHE COUNTY

Venus 14 (Venus 1-14)

LOCATION: T. 44 N., R. 12 E.
LCST UNCERTAIN
LCRM Located near the Mercury-Alpine Claims.
DVEL A small part of ore was developed at an average depth of 9 ft. No production to date.
HOST The deposit occurs in a carbonaceous sandstone of the Sangre de Cristo Formation.
MNZ Uraninite - coffinite type mineralization was discovered.
DOI 1971

Whale Mine

LOCATION: NW1/4NE1/4 sec. 19, T. 47 N., R. 8 E.
LCRM The deposit also extends to sec. 18.
QUAD Bonanza 15'
MAP MONTROSE
DVEL There are several old shafts and adits that were inaccessible in 1953. The workings were reopened in 1955. The main drift is 800 ft long with several small cross cuts and raises.
BKG .03 to .06 mr/hr
RNG .06 to 20.0 mr/hr
HOST The deposit is a vein deposit in Tertiary Rawley Andesite. The vein is 1,200 ft long, five ft wide, and tabular in shape.
STRC The Michigan Vein is the primary control. It strikes N15°E and dips 70°E. The pitchblende is localized where a small fault intersects the Michigan Vein. It's strike parallels the Michigan Vein's strike, but it dips 35°E.
MNZ Primary ore minerals are pitchblende(?), galena, silver, sphalerite, and chalcopyrite. Malachite is present as a secondary mineral. Gangue minerals include ilmenite, barite, and quartz. The pitchblende(?) occurs as veinlets and coatings in mixtures of sulfides and gangue. A grab sample of lead silver ore taken from the dump registered 2.0 mr/hr.
DOI 1955

Wild Cherry Creek Area (Beginners Luck Claims)

LOCATION: T. 44 N., R. 11 E.
PROD An average value of 0.25% U3O8 is reported.
HOST The host is a vein in a rhyolite porphyry of Tertiary age.
MNZ Mineralization is in a 1 ft to 3 ft zone along steeply dipping rhyolite porphyry hogback 700 ft long.
SAN JUAN COUNTY

The production of uranium from the county has been relatively large. However, it has been from only one mine. The Graysill Mine produced 31,494 tons of ore that contained 51,012 lb of U₃O₈. The potential for more reserves of uranium to be found in the county is limited.

The county is in the center of the San Juan Mountains in the southwestern part of the state. Paleozoic and Precambrian rocks crop out in the southern part of the county. A majority of the county is covered by Tertiary volcanic rocks associated with the San Juan Mountain Uplift. Large caldera systems are associated with the volcanic activity. These systems are important because of the base- and precious-metal mining associated with them. Mining for silver and gold has been important in the county since the late 1800's.

Two mines in the county have produced U₃O₈ -- the Elk Park Prospect and the Graysill Mines. Although Elk Park Mine is a very minor producer of uranium, it is important from the standpoint of being a polymetallic type of uranium occurrence. Cobalt, silver and arsenic are associated with uranium in the mine, making this one of the few mines of this type in Colorado. The Graysill Mine is a sandstone-type of uranium occurrence. The ore occurs in the Jurassic Entrada Sandstone. This is one of the Entrada roscoelite-type deposits that form a north-south belt from the Rifle Mine in Garfield County to the Good Hope-Nevada Group in La Plata County. This type of deposit is typified by primary vanadium and uranium as its by-product. The vanadium mica roscoelite is always in abundance at these deposits, and the Entrada Sandstone is the main host.

The potential for more reserves to be found in the county is small. The Graysill Mine has been closed for a number of years. The majority of the county is covered by volcanics, and, to date, these types of rocks have not been uranium producers, although uranium mineralization has been noted in volcanogenic rocks in other areas. Studies are now being carried out on this type of mineralization. Areas near calderas such as the Silverton could someday become potential host rocks after more research into this type of uranium occurrence. Also, the mineralization at the Elk Park is extremely interesting but appears to be limited.
Black Hawk Mine
LOCATION: sec. 22, T. 42 N., R. 7 W.
LCRM Original directions to mine are as follows: "North from Silverton, on road to Gladstone. Continue past mill site at Gladstone to well-defined branch of road, take right."
DVEL This is an inactive precious metal mine with extensive workings.
HOST Vein in Tertiary volcanics.
STRC Shear zone of varying thickness.
RMKS On traverse from portal to face the background went 0.02 to .18 mr/hr. Radon gas was suspected.
DOI 1953

Bushwacker (B & B No. 1 & 2)
LOCATION: sec. 26, T. 40 N., R. 10 W.
LCRM Near Hermosa Creek.
HOST Entrada Sandstone of Jurassic age.
MNZ Roscoeelite.
DOI 1958

Carbon Lake Shaft
LOCATION: T. 42 N., R. 8 W.
LCST UNSURVEYED
QUAD Ironton 7 1/2'
DVEL This is an inactive gold-silver mine with extensive workings.
HOST Hydrothermal chimney in Tertiary volcanics.
MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. One sample had a value of 0.013% U.
DOI 1958

Elk Park (Surprise Claims, Clyde Long Property)
LOCATION: sec. 20, T. 40 N., R. 7 W.
LCST UNSURVEYED
LCRM Mine is located about 1,000 ft west of the Animas River at point where the railroad crosses river just below Elk Park.
QUAD Snowden Peak 7 1/2'
PROD By 1971, 33 tons had been mined at a grade of 0.45% U3O8 producing 2,972 lbs of U3O8.
BKG 150 cps
NGS 150 to 10,000 cps
HOST Shears and faults in quartzite and schist of the Precambrian Uncompaghre Formation.
STRC Faults?
MNZ Uraninite, autunite, meta-torbernite, and erythrite, plus other uranium (?) oxides.
DOI 1977

Graysill Mine
LOCATION: T. 40 N., R. 10 W.
LCST UNSURVEYED
LCRM Located near the San Juan-Dolores county line near Bolam Pass.
QUAD Hermosa Peak 7 1/2'
DVEL There are numerous adits.
PROD By 1971, 171 tons had been mined at grades of 0.049% U3O8 and 1.907, V2O5 at the Graysill No. 1 Mine. At the Graysill No. 2 Mine, 31,778 tons had been mined at grades of 0.08% U3O8 and 2.41% V2O5. These separations are listed in the U.S. A.E.C. Production Records.
HOST Jurassic Entrada Sandstone with rhyolite sills at base or top.
STRC Sills and faults.
ALT Bleached host.
MNZ Mineralization is of the roscoelite type. The concentration seems to be related to the proximity of the rhyolite sills. Also, mineralization is localized around carbon trash.
DOI 1953

Henrietta Mine
LOCATION:
LCST UNCERTAIN
LCRM Original directions are as follows: "Start at Silverton, and take road to Gladstone for 6.4 miles. Take sharp left turn for 7.9 miles. Henrietta Mine southwest of road. Mine located at elevation of 11,500 ft, on west slope near head of Prospect Gulch."
QUAD Ironton 7 1/2'
DVEL Inactive gold-silver mine with extensive workings.
BGK .02 to .05 mr/hr
RGK .02 to .1 mr/hr
HOST Vein in Tertiary volcanics.
MNZ Galena, sphalerite, bornite, chalcopyrite, pyrite, quartz. Rough table concentrates had reading of 1.2 mr/hr. The washed concentrates had a reading of .1 mr/hr.
DOI 1953

Hercules
LOCATION:
LCST UNCERTAIN
LCRM Directions to mine are as follows: "Start from Silverton on road to Gladstone 6.4 miles - take sharp left turn, 8.5 miles. First mine is Hercules and second is Galena Queen. Mine is located at 12,000 ft in west end of Prospect Gulch, south of Red Mountain #3."
QUAD Ironton 7 1/2'
BGK .03 to .05 mr/hr

398
SAN JUAN COUNTY

Koehler Tunnel

LOCATION: T. 41 N., R. 7 W.
LCST UNSURVEYED
LCRM Location above 1,500 ft southeast of Red Mountain on US 550.
QUAD Ironton 7 1/2'
DVEL This is an inactive silver-gold mine with extensive workings.
HOST Chimney deposit in Tertiary volcanics.
MNZ Pyrite, galena, sphalerite, and tennantite. A sample had a reading of 0.35% U. Tabled tailings of the ore are reported to have been anomalous by as much as 100 x bg.
DOI 1957

Lark Tunnel

LOCATION: T. 42 N., R. 8 W.
LCST UNSURVEYED
DVEL An inactive gold-silver mine with extensive workings.
HOST Hydrothermal chimney in Tertiary volcanics.
MNZ Galena, sphalerite, pyrite, silver, gold, enargite, and tennantite. A sample had a reading of 0.35% U. Tabled tailings of the ore are reported to have been anomalous by as much as 10 x bg.
DOI 1958

Longfellow Mine

LOCATION: T. 42 N., R. 8 W.
LCST UNCERTAIN
LCRM Reported to be about 200 yards north of Koehler Tunnel, but small sketch map shows the anomaly as being on the north side of a pond which would be north of the Longfellow Mine.
QUAD Ironton 7 1/2'
DVEL This is an inactive silver-gold mine.
BKG .02 to .05 m/hr
RNG .07 to .2 m/hr
HOST Chimney deposit in Tertiary volcanics.
MNZ Galena, sphalerite, and hydrothermal clay.
DOI 1953

Mighty Monarch Mine

LOCATION: T. 41 N., R. 7 W.
LCST UNCERTAIN
LCRM Original directions to occurrence are as follows: "Near base northwest slope of Mount Kendall adjacent to Silverton townsite".
HOST Vein in Tertiary volcanics.
MNZ Lead, zinc, copper, and uranium.
DOI 1973

Surprise

LOCATION: sec. 18, T. 40 N., R. 7 W.
LCST UNSURVEYED
LCRM Also reported in sec. 17, 19, 20, 30, 29.
MNZ Uranium.
DOI 1972

Syracuse Pride

LOCATION: T. 43 N., R. 7 W.
LCST UNSURVEYED
LCRM Original directions to mine are as follows: "On road to Engineer Mountain at about 12,500 ft elevation. 7 mile east of Engineer Mountain and 2.17 miles north of Animas Forks." Possibly in Ouray County.
QUAD Handies Peak 7 1/2'
HOST Vein in Tertiary volcanics.
MNZ Sphalerite, galena, chalcopyrite, pyrite, quartz, kaolinite. A grab sample from dump had a value of 0.05% U.
DOI 1952

399
San Miguel County lies within the Uravan mineral belt. Production from the county has been large and will continue to be so.

Production from January 1, 1948 to January 1, 1978 was 3,722,900 tons mined with 15,889,200 lb of $U_3O_8$ produced at a grade of 0.21 percent $U_3O_8$. Of the tons mined, 3,720,000 tons were processed for vanadium and produced 177,416,000 lb $V_2O_5$ at a grade of 1.58 percent $V_2O_5$.

The county lies on the Utah-Colorado border in southwestern Colorado and is underlain by flat-lying Cretaceous and Jurassic sediments. Volcanic rocks associated with the San Juan Mountain Uplift cover much of the eastern panhandle. The major structure in the county is the Big Gypsum Valley Anticline, a breached salt uplift.

Because of the production from the Uravan belt, the county is a major uranium producer in the state. However, a second district separate from the Uravan district has produced uranium. This is the Placerville district in the eastern part of the county. Around the town of Placerville, uranium is associated as a by-product with vanadium in bedded deposits within the Jurassic Entrada Sandstone. This district is part of a large roscouite belt that stretches from the Rifle Mine in Garfield County to the Good Hope-Nevada Group of claims in La Plata County. All along this belt the Entrada Sandstone contains tabular ore bodies in which roscouite is always associated with uranium and vanadium minerals. The uranium in these deposits has a grade of about 0.05 percent $U_3O_8$ and vanadium averages 1 to 1.5 percent $V_2O_5$. Mining is not being carried out at this time.

Reserves in the county are fairly large, and the potential is excellent for more to be found. Production in the county will continue for years to come.
SAN MIGUEL COUNTY

1. AEC Mining Lease (C-SR-10*, DOE Lease Tract) (King No. Z, San (Legin Group))

LOCATION: SW1/4NW1/4 sec. 28, T. 43 N., R. 19 W.
LCRM These deposits lie in the Slick Rock district.
QUAD Egnar 7 1/2'
MAP CORTEZ
DVEL See C-SR-10, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

8. AEC Mining Lease (C-SR-16, DOE Lease Tract) (Fraction No. 1, Summit, Charles T. No. 1, Fraction No. 2, Benne T. No. 1 & 2)

LOCATION: sec. 10, T. 43 N., R. 19 W.
LCRM These deposits lie in the Slick Rock district and are part of Ram Lode (Ramp Lode, Ram Lode)
QUAD Egnar 7 1/2'
MAP CORTEZ
DVEL See C-SR-16, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member, gray and brown shaly sandstone and fine-to-medium-grained sandstone with abundant carbonized logs and other plant remains.
MNZ Carnotite - tyuyamunite, vanadium and uranium.
DOI 1971

16. AEC Mining Lease

LOCATION: SE1/4SE1/4 sec. 20, T. 43 N., R. 19 W.
LCRM This was a lease block adjacent to the Falcon Claim, lying in the Slick Rock district.
PROD As of 1955, 281 tons of ore had been mined at an average grade of 0.23% U3O8 and 2.35% V2O5. Lease expired 1955.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium and vanadium minerals were mined.
DOI 1974

17. AEC Mining Lease (C-SR-13A, DOE Lease Tract) (Georgetown Claim)

LOCATION: S1/2NW1/4 sec. 30, T. 44 N., R. 18 W.
LCRM This lease was located in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
DVEL See C-SR-13A, DOE Lease Tract.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

18. AEC Mining Lease (C-SR-10, DOE Lease Tract) (Legin Group, Eloisa Claims, Otero Claims)

LOCATION: NW1/4 sec. 28, T. 43 N., R. 19 W.
LCRM These deposits lie in the Slick Rock district.
QUAD Egnar 7 1/2'

401
San Miguel County

20. AEC Mining Lease (C-SR-15, DOE Lease Tract) (Knoi, Helen, Cacti, Alice [Lower Group])

LOCATION: SW1/4SW1/4 sec. 23, T. 44 N., R. 19 W.
LCRM The deposit extends to sec. 26. It lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
DVEL Sec C-SR-15, DOE Lease Tract.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

21. AEC Mining Lease (C-SR-14, DOE Lease Tract) (Upper Group) (Sunny Side, Grant, Big Four)

LOCATION: S1/4SW1/4 sec. 5, T. 43 N., R. 18 W., N. M. P.
LCRM This lease is located in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
MAP MOAB
DVEL Sec C-SR-14, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

22. AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Golden Rod Group) (Golden Rod No. 1 & 2, Fraction No. 4)

LOCATION: SE1/4 sec. 11, T. 43 N., R. 19 W.
LCRM The lease area lies in the Slick Rock district.
QUAD Egger 7 1/2'
MAP CORTEZ
DVEL Sec C-SR-16A, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
RMKS The lease was terminated in 1954. The claims adjoin 48, AEC Mining Lease.
DOI 1974

23. AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Golden Rod No. 9)

LOCATION: NE1/4 sec. 14, T. 43 N., R. 19 W.
LCRM The lease lies in the Slick Rock district.
DVEL Sec C-SR-16A, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium and vanadium minerals were mined.
DOI 1974

28. AEC Mining Lease (C-SR-13, DOE Lease Tract) (Hawkeye)

LOCATION: WI/2SW1/4 sec. 32, T. 44 N., R. 18 W.
LCRM The deposit lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
MAP MOAB
DVEL See C-SR-13, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

29. AEC Mining Lease (C-SR-10, DOE Lease Tract) (Legen Group) (Frenchy, King, May, Cowgirl)

LOCATION: NE1/4 sec. 29, T. 43 N., R. 19 W.
LCRM These deposits lie in the Slick Rock district.
QUAD Egger 7 1/2'
MAP CORTEZ
DVEL See C-SR-10, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
RMKS This lease was originally 2, AEC Mining Lease. It became 29, AEC Mining Lease on 7/1/52. Only parts of C-SR-10, AEC Mining Lease were included in 29, AEC Mining Lease.
DOI 1971

30. AEC Mining Lease (C-SR-13, DOE Lease Tract) (Middle Group) (Little Toland, Herbert, Vanadium, Occumough)

LOCATION: W1/2NE1/4 sec. 31, T. 44 N., R. 18 W.
LCRM This lease lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
DVEL See C-SR-13, DOE Lease Tract.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
RMKS This lease was originally 2, AEC Mining Lease. It became 29, AEC Mining Lease on 7/1/52. Only parts of C-SR-10, AEC Mining Lease were included in 29, AEC Mining Lease.
DOI 1971

32. AEC Mining Lease (C-SR-13, DOE Lease Tract) (Middle Group) (Ellison, Burro)

LOCATION: NE1/4NE1/4 sec. 31, T. 44 N., R. 18 W.
LCRM The deposit lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
DVEL Sec C-SR-13, DOE Lease Tract.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.

LOCATION: SW1/4 sec. 30, T. 44 N., R. 18 W.
LCRM This lease lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD See C-SR-13, DOE Lease Tract.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.

46. AEC Mining Lease (C-SR-13A, DOE Lease Tract) (Georgetown Group, Veta Mad, Veta Glad)

LOCATION: NW1/4NW1/4 sec. 30, T. 44 N., R. 18 W.
LCRM This lease lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
DVEL See C-SR-13A, DOE Lease Tract.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
RMKS This lease was originally issued as 12, AEC Mining Lease.

44. AEC Mining Lease (C-SR-16, DOE Lease Tract) (Canyon View, Grants, Black Fox [Upper Group])

LOCATION: SW1/4 sec. 9, T. 43 N., R. 18 W.
LCRM This lease lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
DVEL See C-SR-16A, DOE Lease Tract. 
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium and vanadium minerals were found.
RMKS 22, AEC Mining Lease adjoins this lease.

Ada Doll

LOCATION: sec. 16, T. 45 N., R. 19 W., NMPM.
LCRM U.S. A.E.C. Production Records show location as sec. 9 and 15, T. 45 N., R. 16 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
DVEL See C-SR-16A, DOE Lease Tract.
HOST Jurassic Salt Wash Member of the Morrison Formation.
MNZ Uranium, vanadium.
Ajax Lease (Thomas, Richard; Robin B. 9, 12; Susan

LOCATION: sec. 31, T. 44 N., R. 19 W.

LCRM Also sec. 6, 7, T 43 N. This deposit lies in the Slick Rock district.

QUAD Mt. Peale SE 4 SE 1/2

MAP : MOAB

DYLE No production to 1978.

HOST The host is the Brushy Basin Member.

MNZ Carnotite.

DOI 1971


Alchemist (Alchemist #1)

LOCATION: SW1/4 sec. 33, T. 43 N., R. 10 W.,NMPM.

LCRM Placerville district, Leopold Crock locality.

MAP MOAB

PROD By 1971, 136 tons had been mined at a grade of 0.13% U3O8, producing 341 lbs of U3O8, and 3.15% V2O5, producing 8,570 lbs of V2O5.

HOST Jurassic Entrada Formation.

MNZ Roscoelite.

DOI 1971


April (April 1-13, Rio Grande)

LOCATION: sec. 27, T. 44 N., R. 19 W.

LCRM U.S. A.E.C. Production Records also show Sec. 28.

QUAD Horse Range Mesa SE 1/2

MAP MOAB

PROD By 1971, 1,327 tons had been mined at a grade of 0.29% U3O8, producing 7,710 lbs of U3O8, and 1.72% V2O5, producing 45,733 lbs of V2O5.

HOST Jurassic Morrison Formation.

DOI 1971


Ava Jay Group (Chinense, Four Fingers, Lost Dutchman, Ava Jay)

LOCATION: sec. 25, T. 44 N., R. 20 W.

LCRM U.S. A.E.C. Production Records also show sec. 36.

QUAD Mount Peale SE 1/2

MAP MOAB

PROD By 1971, 1,503 tons had been mined at a grade of 0.39% U3O8, producing 11,597 lbs of U3O8, and 2.05% V2O5, producing 61,484 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite.

DOI 1971


Babe 1-4

LOCATION:

LCST UNLOCATABLE

PROD By 1971, 8 tons had been mined at a grade of 0.29% U3O8, producing 46 lbs of U3O8, and 1.82% V2O5, producing 291 lbs of V2O5.

MNZ Carnotite - tyuyamunite.

DOI 1971


Bachelor Mine (Bachelor #3)

LOCATION: S1/2 sec. 15, T. 45 N., R. 18 W.

QUAD Bull Canyon SE 1/2

MAP MOAB

PROD By 1971, 30,600 tons had been mined at a grade of 0.29% U3O8, producing 179,983 lbs of U3O8, and 1.76% V2O5, producing 1,074,635 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite.

DOI 1971


Bald Eagle (Uravan #1, Morning Glory, Keystone #1)

LOCATION: sec. 50, T. 44 N., R. 16 W.

QUAD Gypsum Gap SE 1/2

MAP MOAB

PROD By 1971, 6,657 tons had been mined at a grade of 0.18% U3O8, producing 24,337 lbs of U3O8, and 1.72% V2O5, producing 229,430 lbs of V2O5.

HOST Pennsylvanian Hermosa Formation.

MNZ Carnotite - tyuyamunite.

DOI 1971


Bay Mule

LOCATION:

LCST UNLOCATABLE

LCRM This deposit lies in Gypsum Valley.

PROD By 1971, 14 tons had been mined at a grade of 0.12% U3O8, producing 34 lbs of U3O8, and 1.07% V2O5, producing 301 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971


Bean 2 and 3

LOCATION: sec. 5, T. 43 N., R. 19 W.

LCRM U.S. A.E.C. Production Records also show sec. 4.

QUAD Horse Range Mesa SE 1/2

MAP MOAB

PROD By 1971, 5,328 tons had been mined at a grade of 0.27% U3O8, producing 28,723 lbs of U3O8, and 1.61% V2O5, producing 171,890 lbs of V2O5.

HOST Jurassic Morrison Formation.
As of 1971, five tons of ore have been mined at a grade of 0.23% U₃O₈, producing 25,206 lbs of U₃O₈, and 1.51% V₂O₅, producing 175,634 lbs of V₂O₅.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium.

DOI 1971


Bean 15, 16, 17

LOCATION: sec. 31, T. 44 N., R. 19 W.

QUAD Mount Peale 4 SE 7 1/2' & Horse Range Mesa 7 1/2'

MAP MOAB

PROD By 1971, 745,070 tons had been mined at a grade of 4.23% U₃O₈, producing 300,047 lbs of U₃O₈, and 2.01% V₂O₅, producing 600,070 lbs of V₂O₅.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium.

DOI 1971


Bean Patch (Parker Lease, Bean Patch Incline 3 and 4)

LOCATION: sec. 5, T. 43 N., R. 19 W.

LCRM U.S. A.E.C. Production Records give location as sec. 4, T. 42 N., R. 10 W.

QUAD Horse Range Mesa 7 1/2'

MAP MOAB

PROD By 1971, 745,070 tons had been mined at a grade of 4.23% U₃O₈, producing 300,047 lbs of U₃O₈, and 2.01% V₂O₅, producing 600,070 lbs of V₂O₅.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium.

DOI 1971


Bear Creek

LOCATION: sec. 4, T. 42 N., R. 10 W.

QUAD Gray Head 7 1/2'

MAP CORTEZ

PROD By 1971, 14,919 tons had been mined at a grade of 0.05% U₃O₈, producing 15,302 lbs of U₃O₈, and 2.01% V₂O₅, producing 600,070 lbs of V₂O₅.

HOST Jurassic Entrada Sandstone; white to buff, fine-grained sandstone.

MNZ Uranium, vanadium.

DOI 1971


Belle

LOCATION:
LCST UNLOCATABLE

LCRM Near Lower Group of claims.

PROD As of 1971, five tons of ore have been mined at a grade of 0.46% U₃O₈, producing 4.23% V₂O₅, and 46 lbs of U₃O₈.

DOI 1971

SAN MIGUEL COUNTY

Bench

LOCATION: LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
MAP MOAB
PROD By 1971, 5 tons had been mined at a grade of 0.59% U3O8, producing 59 lbs of U3O8, and 5.92% V2O5, producing 592 lbs of V2O5.
DOI 1971

Betty Jane 2

LOCATION: sec. 24, T. 45 N., R. 19 W.
PROD By 1971, 10 tons had been mined at a grade of 0.36% U3O8, producing 75 lbs of U3O8, and 1.73% V2O5, producing 345 lbs of V2O5.
DOI 1971

Betty Ruth

LOCATION: sec. 28, T. 43 N., R. 18 W.
LCRM This deposit lies in the Spud Patch area, Slick Rock district. U.S. A.E.C. Production Records also show sec. 33.
PROD As of 1971, 0.91 tons had been mined at a grade of 0.85% U3O8.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971

Big Buck 1 (Little Buck, Jackie)

LOCATION: sec. 26, T. 44 N., R. 20 W.
QUAD Mount Peale 4 SE 7 1/2'
MAP MOAB
PROD By 1971, 6 tons had been mined at a grade of 0.02% U3O8, producing 2 lbs of U3O8, and 1.56% V2O5, producing 187 lbs of V2O5.
MNZ Uranium, varanidum.
DOI 1971

Big Chief (Mineral Survey #20580)

LOCATION: sec. 27, T. 44 N., R. 17 W.
LCRM This deposit lies in Gypsum Valley. U.S. A.E.C. Production Records also show sec. 34.
PROD As of 1971, 564 tons had been mined at a grade of 0.32% U3O8 and 0.78% V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Big Chief (Spud Patch Group)

LOCATION: sec. 29, T. 43 N., R. 18 W.

LCRM This deposit lies in the Slick Rock district.
PROD No production prior to 1977.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Big Gyp 1-8

LOCATION: N1/2 sec. 33, T. 45 N., R. 18 W.
LCRM. This deposit lies in Silvey's Pocket area, Gypsum Valley.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 35 tons had been mined at a grade of 0.08% U3O8.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Big Medicine

LOCATION: sec. 32, T. 44 N., R. 18 W.
PROD As of 1971, 149 tons of ore had been mined at a grade of 0.40% U3O8, producing 1,199 lbs of U3O8, and 1.74% V2O5, producing 5,197 lbs of V2O5.
HOST Jurassic Morrison Formation.
DOI 1971

Big S

LOCATION: sec. 32, T. 44 N., R. 18 W.
PROD As of 1971, 13 tons of ore had been mined at a grade of 0.03% U3O8, producing 9 lbs of U3O8, and 0.34% V2O5, producing 89 lbs of V2O5.
HOST Jurassic Morrison Formation.
DOI 1971

Black Fox (Upper Group Claims)(44, AEC Mining Lease)
C-SR=14, DOE Lease Tract)

LOCATION: sec. 5, T. 43 N., R. 18 W.
DVEL See C-SR-14, DOE Lease Tract.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Black Jack (Hot Rock)

LOCATION: sec. 28, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD By 1971, 12,758 tons had been mined at a grade of 0.24% U3O8, producing 62,287 lbs of U3O8, and 1.91% V2O5, producing 384,929 lbs of V2O5.
HOST Jurassic Morrison Formation.
SAN MIGUEL COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DO1 1971

Black King (Weatherly)

LOCATION: sec. 27, T. 44 N., R. 11 W.
QUAD Placerville 7 1/2'
MAP MOAB
PROD By 1971, 3 tons had been mined at a grade of 1.35% U3O8, producing 81 lbs of U3O8, and 0.03% V2O5, producing 3 lbs of V2O5.
HOST Permian Cutler and Triassic Dolores; fault breccias and gangue in quartz conglomerate and sandy shale with abundant hard "hydrocarbon" and sparse viscous asphalt.
MNZ Uraninite, autunite, torbernite, coffinite, uranophane.
DO1 1971

Black Spider (Red Ant)

LOCATION: NW1/4 sec. 30, T. 43 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show location as sec. 25, T. 43 N., R. 20 W.
QUAD Verdure 1 NE 7 1/2' and Egnar 7 1/2'
MAP CORTEZ
PROD By 1971, 4,054 tons had been mined at a grade of 0.23% U3O8, producing 18,398 lbs of U3O8, and 0.71% V2O5, producing 37,960 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DO1 1971

Blue Horse & Nancy

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, there were 6 tons mined at a grade of 0.12% U3O8, producing 14 lbs of U3O8, and 1.12% V2O5, producing 134 lbs of V2O5.
HOST Jurassic Morrison Formation.
DO1 January 1, 1971.

Blue Moon (Lucky #1, 2)

LOCATION: sec. 16, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 20, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 211 tons had been mined at a grade of 0.20% U3O8, producing 856 lbs of U3O8, and 1.105 V2O5, producing 4,647 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.

DO1 1971

Bluebird (Radium Group)

LOCATION: sec. 36, T. 44 N., R. 20 W.
LCRM U.S. A.E.C. Production Records show location as sec. 36, T. 44 N., R. 20 W.
QUAD Verdure 1 NE 7 1/2'
MAP CORTEZ
PROD By 1971, 19 tons had been mined at a grade of 0.29% U3O8, producing 110 lbs of U3O8, and 1.75% V2O5, producing 666 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DO1 1971

Bluff (Mexico Group)

LOCATION: sec. 35, T. 45 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD By 1971, 100 tons mined at a grade of 0.24% U3O8, producing 435 lbs of U3O8, and 0.95% V2O5, producing 1,906 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DO1 1971

Bobtail

LOCATION: sec. 33, T. 44 N., R. 16 W.
LCST UNLOCATABLE
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite.
DO1 1975

Breezy

LOCATION: sec. 25, T. 45 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 244 tons had been mined at a grade of 0.25% U3O8, producing 1,207 lbs of U3O8, and 1.37% V2O5, producing 6,692 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DO1 1971

Bretton & Norcott

LOCATION:
LCRM This deposit lies in the Georgetown area.
PROD As of 1971, 11 tons had been mined at a grade of 0.04% U3O8, producing 9 lbs of U3O8, and 0.27% V2O5, producing 60 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
San Miguel County

Brown Mule

LOCATION: sec. 7, T. 43 N., R. 16 W.
LORM U.S. A.E.C. Production Records show location as being sec. 6, 7; T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 50 tons had been mined at a grade of 0.18% U3O8, producing 177 lbs of U3O8, and 2.31% V2O5, producing 2,310 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Buck Horn

LOCATION: sec. 30, T. 44 N., R. 19 W.
DOI 1958

Buckhorn (Lon Star 1 & 2, Canary Bird No. 1, Rim, Humming Bird)

LOCATION: sec. 34, T. 43 N., R. 18 W.
LORM U.S. A.E.C. Production Records show location as being sec. 26, 27, 34-36; T. 43 N., R. 18 W; sec. 1, 2, T. 42 N., R. 18 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 318 tons had been mined at a grade of 0.25% U3O8, producing 1,615 lbs of U3O8, and 2.05% V2O5, producing 13,032 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Bugwine (Empire Group)

LOCATION: sec. 1, T. 44 N., R. 20 W.
LORM U.S. A.E.C. Production Records show location as being sec. 1, T. 44 N., R. 19 W., Slick Rock district, McIntyre Canyon.
QUAD Mount Peale 4 SE 7 1/2'
MAP MOAB
PROD As of 1971, 297 tons had been mined at a grade of 0.27% U3O8, producing 1,592 lbs of U3O8, and 1.22% V2O5, producing 7,242 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Bull Moose

LOCATION: sec. 32, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 56 tons had been mined at a grade of 0.27% U3O8, producing 305 lbs of U3O8, and 3.46% V2O5, producing 3,878 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Bull Snake No. 1 and No. 2 Claims

LOCATION: sec. 1, T. 42 N., R. 18 W.
LORM U.S. A.E.C. Production Records also show sec. 2, 11 & 12.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 157 tons had been mined at a grade of 0.21% U3O8, producing 665 lbs of U3O8, and 3.39% V2O5, producing 10,795 lbs of V2O5.
HOST Upper Triassic Wingate Sandstone or Chine Formation.
MNZ Uranium, vanadium, carnitite - tvuyamunite, high vanadium, intermedi. lime.
DOI 1971

Burro Point

LOCATION: sec. 16, T. 45 N., R. 18 W.
LORM U.S. A.E.C. Production Records only show sec. 21.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 2,879 tons had been mined at a grade of 0.25% U3O8, producing 1,504 lbs of U3O8, and 1.80% V2O5, producing 105,411 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tvuyamunite, high vanadium, intermedi. lime.
DOI 1971

Burro Tunnel (Burro-10, Jack 1-5)

LOCATION: sec. 30, T. 44 N., R. 18 W.
LORM U.S. A.E.C. Production Records also show sec. 29.
QUAD Horse Range Mesa 7 1/2'
DVEL As of 1971, 404,804 tons had been mined at a grade of 0.25% producing 1,992,898 lbs of U3O8, and 1.90% V2O5, producing 12,149,659 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, intermedi. lime.
DOI 1971
LOCATION: sec. 32, T. 42 N., R. 9 W.

C-SR-10, DOE Lease Tract (1, AEC Mining Lease) [King No. 2, Sam] (Legin Group) (2, AEC Mining Lease)[Frenchy, King, May, and Cowgirl] (Legin Group) (3, AEC Mining Lease) [Black Jack Strip] (18, AEC Mining Lease) [Eloisa and Otero] (Legin Group) (29, AEC Mining Lease) [Cowgirl, King, Frenchy, and May] (Legin Group)

LOCATION: W1/2 sec. 28, T. 43 N., R. 19 W.

C-SR-13, DOE Lease Tract (28, AEC Mining Lease) (Hawkeye) (30, AEC Mining Lease) (Little Yolanda, Herbert, Vanadium, Ocumpaugh, [Middle Group]) (32, AEC Mining Lease) (Ellison Claim, Burro Claim) (42, AEC Mining Lease) (Dan Claim)

LOCATION: W1/2, and lots 1-4 sec. 32, T. 44 N., R. 18 W.

C-SR-11, DOE Lease Tract (4, AEC Mining Lease) (Tomboy, Beth Emma Lou, Teller, Mercantile, Independence, Avoca, Ike Nos. 1-6, Sibley, Park, Brighton [Mercantile Group])

LOCATION: E1/2SW1/4S1/2NW1/4 sec. 18, T. 43 N., R. 19 W.

C-SR-13A, DOE Lease Tract (12, AEC Mining Lease) (Veta Mad, Veta Glad, Georgeto Group) (17, AEC Mining Lease) (Georgeto Mine) (46, AEC Mining Lease)

LOCATION: NW1/4 sec. 30, T. 44 N., R. 18 W.

**C-SR-15, DOE Lease Tract (6, AEC Mining Lease) (Lower Group, Cougar, Lost Chance, Rainbow, Little Marie, Chico, Lower Fraction) (20, AEC Mining Lease) (Knoll, Helen, Cacti and Alice)**

**LOCATION:** S1/2 sec. 23, T. 44 N., R. 19 W.

**LCRM** This lease extends into the N1/2 sec. 23 and the NW1/4 NW1/4 sec. 26, T. 44 N., R. 19 W. district.

**QUAD** Horse Range Mesa 7 1/2'

**MAP** MOAB

**PROD** From 1949 to 1959, production from the two former AEC mining leases making up this lease had totaled 40,435 tons at average grades of 0.30% U3O8 and 2.18% V2O5. This was 25,638 tons at 0.42% U3O8 and 2.44% V2O5 from 6, AEC Mining Lease; 14,799 tons at 0.32% U3O8 and 1.74% V2O5 from 20, AEC Mining Lease. Also from Sept. 1976 to Dec. 1977, production from C-SR-15, DOE Lease Tract was 2,447 tons at 0.18% U3O8 and 1.11% V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1977


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**C-SR-16, DOE Lease Tract (43, AEC Mining Lease) (Nunes, Easton B., Michael Bray No. 1 & 2) [see 4, AEC Mining Lease] (4, AEC Mining Lease) [Nunes, Easton B., Michael Bray No. 1, Ann No. 1 & 2, Fraction adjacent to the Ann No. 2, Hawk 2, Frankie 2] (9, AEC Mining Lease) [Charles No. 2 & 4, Sunflower] (8, AEC Mining Lease) [Fraction No. 1, Summit, Bennie T. No. 1, Fraction No. 5, Jennie T. No. 2] (8, AEC Mining Lease) [Fraction No. 1, 2, & 3] (43, AEC Mining Lease) [Charles T. No. 2 & 4, 145, AEC Mining Lease]

**LOCATION:** sec. 10, T. 43 N., R. 19 W.

**LCRM** This lease extends into N1/2SE1/2 and W1/2SE1/4 sec. 15 and E1/2NE1/4 and E1/2NW1/4 sec. 16. These deposits lie in the Slick Rock district.

**QUAD** Horse Range Mesa 7 1/2' & Eggnar 7 1/2'

**MAP** MOAB & CORTEZ

**DVEL** From 1949, production from five former AEC leases included in this lease amounted to 30,990 tons at 0.34% U3O8 and 1.92% V2O5. Additional ore mined from the area included in 4, AEC Mining Lease cannot be determined from records available and is included in production from C-SR-11, DOE Lease Tract (4, AEC Mining Lease). The 30,998 tons includes from 3, AEC Mining Lease, 1,862 tons at 0.26% U3O8 and 1.79% V2O5; 5, AEC Mining Lease, 9,490 tons at 0.34% U3O8 & 1.44% V2O5; 8, AEC Mining Lease, 33,536 tons at 0.37% U3O8 & 2.15% V2O5; 9, AEC Mining Lease, 3,555 tons at 0.36% U3O8 & 2.62% V2O5; 43, AEC Mining Lease, 2,555 tons at 0.23% U3O8 & 1.54% V2O5. From December 1976 through
Canyon Group (Snyder Dunning Group)

LOCATION: sec. 29, T. 43 N., R. 18 W.

QUAD Egnar 7 1/2' & Joe Davis Hill 7 1/2'

MAP CORTEZ

DVEL As of 1971, 411 tons had been mined at a grade of 0.28% U308, producing 2,297 lbs of U308, and 2.70% V205, producing 22,215 lbs of V205.

HOST The host is the Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Canyon View

LOCATION: sec. 5, T. 43 N., R. 18 W.
Chesta (Mexico Group)

LOCATION: sec. 26, T. 45 N., R. 18 W.
QUAD Hamm Canyon 7 1/2' and Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 247 tons had been mined at a grade of 0.04% U3O8, producing 208 lbs of U3O8, and 0.60% V2O5, producing 2,959 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, high vanadium, low lime.
DOI 1971

Chief 1 & 3

LOCATION: NW1/4 sec. 21, T. 43 N., R. 19 W.
QUAD Egmar 7 1/2'
MAP CORTEZ
PROD As of 1971, 6,396 tons had been mined at a grade of 0.26% U3O8, producing 33,309 lbs of U3O8, and 1.91% V2O5, producing 244,302 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Chile 5 (Old Mexico, New Mexico, Breezy)

LOCATION: sec. 25, T. 45 N., R. 19 W.
LCRM This deposit lies in the Slick Rock district.
DOI 1971

Chipamon

LOCATION: sec. 16, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 23-27, T. 45 N., R. 18 W.; sec. 1, 6, 7, 12, T. 44 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 630 tons had been mined at a grade of 0.19% U3O8, producing 2,407 lbs of U3O8, and 2.21% V2O5, producing 27,904 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Chipmunk

LOCATION: W1/2 sec. 22, T. 45 N., R. 19 W.
DOI 1958

Chipmunk 1

LOCATION: sec. 34, T. 45 N., R. 19 W.
LCRM Also sec. 35.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 178 tons had been mined at a grade of 0.57% U3O8, producing 2,028 lbs of U3O8, and 2.89% V2O5, producing 10,284 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Civet Cat Group (Vanadium Queen)

LOCATION: sec. 36, T. 45 N., R. 20 W.
LCRM U.S. A.E.C. Production Records show location as sec. 1-2, T. 44 N., R. 20 W.
QUAD Mount Peale 4 SE 7 1/2'
PROD As of 1971, 895 tons had been mined at a grade of 0.32% U3O8, producing 5,775 lbs of U3O8, and 1.16% V2O5, producing 20,682 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Chinnaese (Ava Jay Group)

LOCATION: sec. 25, T. 44 N., R. 20 W.
Clear View

LOCATION: sec. 6, T. 42 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
MNZ Uranium, vanadium.
DOI 1975

Clear View Claims (Horseshoe Group)

LOCATION: sec. 6, T. 42 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
MNZ Uranium, vanadium.
DOI 1975

Cliff Dweller (Cliff Dweller Nael)

LOCATION: sec. 9, T. 44 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 8.
QUAD Hamm Canyon 7 1/2' and Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 917 tons had been mined at a grade of 0.33% U3O8, producing 6,041 lbs of U3O8 and 2.02% V2O5.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; fine-to-medium-grained sandstone.
MNZ Uranium, vanadium, carnotite.
DOI 1971

Colorado Cat

LOCATION: sec. 15, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 16 tons had been mined at a grade of 0.53% U3O8, producing 171 lbs of U3O8 and 2.89% V2O5, producing 926 lbs of V2O5.
HOST Brushy Basin Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Cone 1-6

LOCATION: sec. 30, T. 44 N., R. 19 W.
QUAD Mount Peale 4 SE 7 1/2' & Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1,821 tons had been mined at a grade of 0.23% U3O8, producing 8,334 lbs of U3O8 and 1.62% V2O5, producing 59,115 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tuuyamunit, high vanadium, low lime.
DOI 1971

Cone No. 14

LOCATION: sec. 30, T. 44 N., R. 19 W.
PROD Reserves, no production.
HOST Jurassic Morrison Formation.
MNZ Carnotite.
DOI 1971

Cowhand 2

LOCATION: sec. 31, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show location as being sec. 1-12, 6-7; T. 44 N., R. 19 & 20 W.
QUAD Mount Peale 4 SE 7 1/2'
MAP MOAB
PROD As of 1971, 54 tons had been mined at a grade of 0.20% U3O8, producing 216 lbs of U3O8 and 1.07% V2O5, producing 1,159 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Crucible

LOCATION: sec. 7, T. 43 N., R. 10 W.
LCRM U.S. A.E.C. Production Records also show sec. 8.
QUAD Placerville 7 1/2'
MAP MOAB
PROD As of 1971, 13 tons had been mined at a grade of 0.07% U3O8, producing 17 lbs of U3O8 and 1.58% V2O5, producing 410 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Cub 1

LOCATION:

LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 32 tons had been mined at a grade of 0.26% U3O8, producing 164 lbs of...
SAN MIGUEL COUNTY

U3O8, and 2.49% V2O5, producing 1,594 lbs of V2O5.

HOST Jurasssic Morrison Formation, Salt Wash Member.
DOI 1971

Curtis

LOCATION: sec. 28, T. 43 N., R. 18 W.
LCRM Also sec. 27.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 220 tons had been mined at a grade of 0.43% U3O8, producing 18,893 lbs of U3O8, and 2.11% V2O5, producing 9,281 lbs of V2O5.
HOST Jurasssic Morrison Formation, Salt Wash Member.
DOI 1971

Cusco

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 10 tons had been mined at a grade of 0.13% U3O8, producing 26 lbs of U3O8, and 1.59% V2O5, producing 318 lbs of V2O5.
DOI 1971

D.U. and Vanderualker Groups

LOCATION: sec. 25, T. 44 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Dalpaz

LOCATION:
LCST UNLOCATABLE
PROD As of 1971, 182 tons had been mined at a grade of 0.14% U3O8, producing 518 lbs of U3O8, and 2.18% V2O5, producing 7,948 lbs of V2O5.
HOST Jurasssic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Deluxe & Master Deluxe

LOCATION: sec. 22, T. 44 N., R. 19 W.
LCRM Also sec. 23-27.
QUAD Horse Range Mesa 7 1/2'
PROD As of 1971, 3,674 tons had been mined at a grade of 0.22% U3O8, producing 16,135 lbs of U3O8, and 1.58% V2O5, producing 116,446 lbs of V2O5.

HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Deremo (Bigler Shaft, Pup No. 1, W. B. Snyder, Bigler, Geisinger Leases)

LOCATION: NE1/4N1/2 sec. 2, T. 42 N., R. 20 W.
LCRM U.S. A.E.C. Production Records also show sec. 35 & 36, T. 43 N., R. 20 W.
QUAD Verdure 1 NE 7 1/2'
MAP CORTEZ
PROD As of 1971, 794,810 tons had been mined at a grade of 0.20% U3O8, producing 3,218,079 lbs of U3O8, and 1.97% V2O5, producing 51,240,735 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Deremo Dumps

LOCATION: NE1/4N1/2 sec. 2, T. 42 N., R. 20 W.
QUAD Verdure 1 NE 7 1/2'
MAP CORTEZ
PROD As of 1971, 87 tons had been mined at a grade of 0.20% U3O8, producing 355 lbs of U3O8, and 2.91% V2O5, producing 5,070 lbs of V2O5.
HOST Jurassic Morrison formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Deremo No. 2

LOCATION: SE1/4 sec. 2, T. 42 N., R. 20 W.
QUAD Verdure 1 NE 7 1/2'
MAP CORTEZ
MNZ Uranium.
DOI 1975

Dickie 1 & 3 (Dickie Group)

LOCATION: sec. 12, T. 42 N., R. 18 W.
LCRM Also sec. 13.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 35 tons had been mined at a grade of 0.11% U3O8, producing 75 lbs of U3O8, and 1.20% V2O5, producing 838 lbs of V2O5.
DOI 1971

Dolores River (Horseshoe Group)

LOCATION: NE1/4 sec. 1, T. 42 N., R. 18 W.
LCRM This deposit lies in the Slick Rock district.
San Miguel County

QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 15 tons had been mined at a grade of 0.20% U3O8, producing 60 lbs of U3O8, and 2.25% V2O5, producing 675 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Dolores Uranium (Monument Valley, Red Canyon, Deer, Bush Creek, Slick Claims, Northeastern Slick Rock Claims, Valley, Faulite, Cedar Flats)

LOCATION: sec. 18, T. 43 N., R. 18 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
MNZ Uranium, vanadium.
DOI 1975

Donald Hill

LOCATION: sec. 15, T. 44 N., R. 18 W.
LORM Also sec. 10-14.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 8 tons had been mined at a grade of 0.17% U3O8, producing 28 lbs of U3O8, and 1.56% V2O5, producing 250 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Donegan Lease

LOCATION: sec. 8, T. 43 N., R. 10 W.
LORM This deposit lies in the Slick Rock district.
QUAD Sams 7 1/2'
MAP MOAB
PROD As of 1971, 78 tons had been mined at a grade of 0.04% U3O8, producing 66 lbs of U3O8, and 2.51% V2O5, producing 3,923 lbs of V2O5.
HOST Jurassic Entrada Sandstone; white to buff, fine-grained sandstone.
MNZ Uranium, vanadium.
DOI 1971

Doss Claim Group

LOCATION: sec. 9, T. 43 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Dragon

LOCATION: SEC.

LCST UNLOCATABLE
PROD As of 1971, 498 tons had been mined at a grade of 0.10% U3O8, producing 1,044 lbs of U3O8, and 1.63% V2O5, producing 16,260 lbs of V2O5.
DOI 1971

Duncan (Mexico Group)

LOCATION: sec. 26, T. 45 N., R. 18 W.
LORM U.S. A.E.C. Production Records also show sec. 35.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 33 tons had been mined at a grade of 0.14% U3O8, producing 93 lbs of U3O8, and 0.815 V2O5, producing 535 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Durango and Las Animas

LOCATION: sec. 33, T. 44 N., R. 19 W.
LORM U.S. A.E.C. Production Records also show sec. 28.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 97 tons had been mined at a grade of 0.25% U3O8, producing 476 lbs of U3O8, and 2.64% V2O5, producing 5,119 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Early Morn Group

LOCATION: sec. 24, T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 854 tons had been mined at a grade of 0.14% U3O8, producing 2,375 lbs of U3O8, and 1.6% V2O5, producing 28,555 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Eaverson Lease

LOCATION: sec. 26, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
MNZ Uranium, vanadium.
DOI 1975

Eclipse

LOCATION: sec. 10, T. 44 N., R. 18 W.
LORM This deposit lies in the Uravan district.
Hague, R.

**Empire Group** (Tunis, Libya, Sudan, Algers, Bugwine, Cowhand)

**Edna Mae**

LOCATION: sec. 21, T. 45 N., R. 18 W.

MAP MOAB

PROD As of 1971, 9 tons had been mined at a grade of 0.22% U₃O₈, producing 40 lbs of U₃O₈, and 1.22% V₂O₅, producing 219 lbs of V₂O₅.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium.

DOI 1971


**Fair View**

LOCATION:

LCRM UNLOCATABLE

LCRM This deposit lies in the Slick Rock district, McIntyre Canyon. Also sec. 11 and 12, T. 44 N., R. 20 W. and sec. 6, T. 44 N., R. 19 W.

PROD As of 1971, 12 tons had been mined at a grade of 0.16% U₃O₈, producing 1,532 lbs of U₃O₈, and 1.96% V₂O₅, producing 18,390 lbs of V₂O₅.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971


**Fervanite**

LOCATION: sec. 7, T. 43 N., R. 16 W.

DOI 1958


**Firefly 3 (Firefly Mine)**

LOCATION: sec. 21, T. 43 N., R. 19 W.

QUAD Egnar 7 1/2'

MAP CORTEZ

PROD As of 1971, 1,240 tons had been mined at a grade of 0.24% U₃O₈, producing 35,266 lbs of U₃O₈, and 2.15% V₂O₅, producing 310,855 lbs of V₂O₅.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.

DOI 1971


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416
Five Points (Five Points No. 1-3, 5, 6 and Oneta 2 & 3)
LOCATION: sec. 36, T. 44 N., R. 19 W.
LCRM Also sec. 31, T. 44 N., R. 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 42 tons had been mined at a grade of 0.10% U3O8, producing 84 lbs of U3O8, and 1.21% V2O5, producing 1,015 lbs of V2O5.
HOST Jurasssic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Florence (Radium Group)
LOCATION: sec. 5, T. 43 N., R. 19 W.
LCST UNLOCATABLE
LCRM U.S. A.E.C. Production Records also show location as being sec. 36, T. 44 N., R. 19 W.
PROD As of 1972, 382 tons had been mined at a grade of 0.34% U3O8, producing 22,64 lbs of U3O8, and 1.84% V2O5, producing 14,137 lbs of V2O5.
HOST Jurasssic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Fort Knox Claims
LOCATION: sec. 19, T. 45 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975

Fox Group
LOCATION: sec. 26, T. 43 N., R. 18 W.
LCRM Also sec. 13, 24; 18, 19; T. 44 N., R. 19 W., 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 355 tons had been mined at a grade of 0.12% U3O8, producing 863 lbs of U3O8, and 1.63% V2O5, producing 11,655 lbs of V2O5.
HOST Jurasssic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Fraction
LOCATION: sec. 8, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 303 tons had been mined at a grade of 0.32% U3O8, producing 1,945 lbs of U3O8, and 1.63% V2O5, producing 9,902 lbs of V2O5.
HOST Jurasssic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

France
LOCATION: sec. 20, T. 43 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 19.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 1,436 tons had been mined at a grade of 0.27% U3O8, producing 7,544 lbs of U3O8, and 1.56% V2O5, producing 44,861 lbs of V2O5.
HOST Jurasssic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Frances (Speed Patch Group)
LOCATION: sec. 29, T. 43 N., R. 18 W.
HOST Jurasssic Morrison Formation.
MNZ Carnotite.
DOI 1971

Frazier (Vanadium No. 1-3, Belvedere)
LOCATION: sec. 24, T. 43 N., R. 11 W.
LCRM U.S. A.E.C. Production Records show location as sec. 24, T. 44 N., R. 11 W. (Denver, Belvedere MS)
QUAD Little Cone 7 1/2'
MAP CORTEZ
PROD As of 1971, 671 tons had been mined at a grade of 0.17% U3O8, producing 2,216 lbs of U3O8, and 2.92% V2O5, producing 39,234 lbs of V2O5.
HOST Uranium, vanadium.
DOI 1971

Frazier Mine (Fall Creek Mine)
LOCATION: LCST UNLOCATABLE.
San Miguel County

HOST Jurassic Morrison Formation; white to buff fine-grained sandstone.

MNZ Uranium, vanadium.

DOI 1975


Frenchy 2

LOCATION: sec. 29, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ

PROD As of 1971, 2,365 tons had been mined at a grade of 0.36% U3O8, producing 17,239 lbs of U3O8, and 2.38% V2O5, producing 112,578 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; light brown fine- to medium-grained sandstone & gray & green mudstone with abundant carbonized plant remains and sparse logs.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Full Moon

LOCATION: sec. 4, T. 43 N., R. 10 W.
QUAD Sams 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.

DOI 1975


Full Moon Group (Full Moon #4, Full Moon #7)

LOCATION: sec. 5, T. 43 N., R. 18 W.
LCRM Also E1/2, sec. 8 & 16.
QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
MAP MOAB

PROD As of 1971, 9,425 tons had been mined at a grade of 0.20% U3O8, producing 36,825 lbs of U3O8, and 1.18% of V2O5, producing 221,660 lbs of V2O5.

HOST Brushy Basin Member of the Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


G M D 1 (Little Gyp Group)

LOCATION:
LCRM This deposit lies in Gypsum Valley.

PROD As of 1971, 13 tons had been mined at a grade of 0.14% U3O8, producing 36 lbs of U3O8, and 0.96% V2O5, producing 250 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971


Gap

LOCATION: sec. 16, T. 43 N., R. 16 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Dawson Draw 7 1/2'
MAP CORTEZ

PROD As of 1971, 17 tons had been mined at a grade of 0.16% U3O8, producing 56 lbs of U3O8, and 1.60% V2O5, producing 545 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium.

DOI 1971


Geisinger

LOCATION: sec. 6, T. 42 N., R. 19 W.
QUAD Verdure 1 NE 7 1/2' & Egnar 7 1/2'
MAP CORTEZ

MNZ Uranium, vanadium.

DOI 1975


Gerald T.

LOCATION: sec. 19, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 24, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB

PROD As of 1971, 728 tons had been mined at a grade of 0.21% U3O8, producing 33,38 lbs of U3O8, and 0.75% V2O5, producing 10,944 lbs of V2O5.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Giant (Giant No. 2)

LOCATION: sec. 24, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB

PROD As of 1971, 407 tons had been mined at a grade of 0.12% U3O8, producing 1,005 lbs of U3O8, and 1.13% V2O5, producing 9,171 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium.

DOI 1971


Glen 24 (Dowdy Lease)

LOCATION: sec. 28, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show locations as sec. 30 & 31, T. 45 N., R. 18 W.; sec. 25, 26, 6 & 7, T. 44 N., R. 19 W.
QUAD Hamm Canyon 7 1/2'
San Miguel County

MNM (GNG 4-7, 10-13; GNG South 6 & 7)

LOCATION: sec. 13, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 13 & 24, T. 44 N., R. 18 W.; sec. 18 & 19, T. 44 N., R. 17 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 286 tons had been mined at a grade of 0.23% U3O8, producing 1,313 lbs of U3O8, and 1.33% V2O5, producing 7,671 lbs of V2O5.
MNM Uranium, vanadium.
DOI 1971

Goforth Homestead

LOCATION: sec. 15, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 27,777 tons had been mined at a grade of 0.24% U3O8, producing 133,053 lbs of U3O8, and 1.47% V2O5, producing 818,713 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNM Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Golden Eagle No. 14-16

LOCATION: sec. 18, T. 45 N., R. 10 W.
LCRM Also sec. 19.
PROD As of 1971, 407 tons had been mined at an average grade of 0.29% U3O8, yielding 2,164 lbs of U3O8.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNM Carnotite.
DOI 1971

Golden Rod 1

LOCATION: sec. 11, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 639 tons had been mined at a grade of 0.26% U3O8, producing 3,332 lbs of U3O8, and 2.15% V2O5, producing 27,529 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; gray and brown shaly sandstone and fine- to medium-grained sandstone, with abundant carbonized logs and other plant remains.
MNM Uranium, vanadium, carnotite - tyuyamunite.
DOI 1971

Golden Rod 2

LOCATION: sec. 14, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 1,638 tons had been mined at a grade of 0.25% U3O8, producing 8,259 lbs of U3O8, and 2.45% V2O5, producing 8,310 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNM Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Gopher (Wedding Bell Group)

LOCATION: sec. 21, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,366 tons had been mined at a grade of 0.29% U3O8, producing 6,944 lbs of U3O8, and 1.62% V2O5, producing 44,292 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNM Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Governor Mine

LOCATION: sec. 29, T. 43 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 30.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 207 tons had been mined at a grade of 0.23% U3O8, producing 963 lbs of U3O8, and 2.08% V2O5, producing 8,267 lbs of V2O5.
**SAN MIGUEL COUNTY**

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


**Grass Flats (Philura Group)**

**LOCATION:** sec. 32, T. 44 N., R. 18 W.

**LCRM** U.S. A.E.C. Production Records also show sec. 32.

**QUAD** Horse Range Mesa 7 1/2' and Hamm Canyon 7 1/2'.

**MAP** MOAB

**PROD** As of 1971, 3,513 tons had been mined at a grade of 0.18% U3O8, producing 12,866 lbs of U3O8, and 0.79% V2O5, producing 55,696 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


**Grassy Hill**

**LOCATION:** sec. 24, T. 45 N., R. 19 W.

**QUAD** Anderson Mesa 7 1/2'.

**MAP** MOAB

**PROD** As of 1971, 31 tons had been mined at a grade of 0.12% U3O8, producing 75 lbs of U3O8, and 0.78% V2O5, producing 486 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation.

**MNZ** Uranium, vanadium.

**DOI** 1971


**Green Arrow**

**LOCATION:**

**LCRM** This deposit lies in Gypsum Valley.

**PROD** As of 1971, 4 tons had been mined at a grade of 0.06% U3O8, producing 5 lbs of U3O8, and 3.15% V2O5, producing 252 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**DOI** 1971


**Ground Hog Dump**

**LOCATION:** sec. 21, T. 45 N., R. 18 W.

**QUAD** Bull Canyon 7 1/2'.

**MAP** MOAB

**PROD** As of 1971, 1,111 tons had been mined at a grade of 0.21% U3O8, producing 4,631 lbs of U3O8, and 1.18% V2O5, producing 26,153 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


**Grub Stake**

**LOCATION:** sec. 23, T. 44 N., R. 19 W.

**QUAD** Horse Range Mesa 7 1/2'.

**MAP** MOAB

**PROD** As of 1971, 7 tons had been mined at a grade of 0.28% U3O8, producing 39 lbs of U3O8, and 1.46% V2O5, producing 205 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uranium, vanadium.

**DOI** 1971


**Gypsum Homestead (Big Gyp Homestead)**

**LOCATION:** sec. 33, T. 44 N., R. 18 W.

**QUAD** Hamm Canyon 7 1/2'.

**MAP** MOAB

**PROD** As of 1971, 1,569 tons had been mined at a grade of 0.18% U3O8, producing 5,668 lbs of U3O8, and 1.52% V2O5, producing 47,601 lbs of V2O5.

**MNZ** Uranium, vanadium.

**DOI** 1971


**Gypsum Valley Claims**

**LOCATION:** sec. 33, T. 44 N., R. 16 W.

**QUAD** Gypsum Gap 7 1/2'.

**MAP** MOAB

**PROD** As of 1971, 1,318 tons of ore were mined at a grade of 0.14% U3O8, yielding 4,435 lbs of U3O8.

**MNZ** Uranium, vanadium.

**DOI** 1975


**Hacket**

**LOCATION:** E1/2N1/4 sec. 20, T. 43 N., R. 19 W.

**DOI** 1958


**Halloween**

**LOCATION:**

**LCRM** This deposit lies in Gypsum Valley.
As of 1971, 23 tons had been mined at a grade of 0.07% U3O8, producing 31 lbs of U3O8, and 1.75% V2O5, producing 803 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.

DOI 1971


**Hangover (Hangover No. 3)**

**LOCATION:** NW1/4 sec. 21, T. 43 N., R. 19 W.

**QUAD** Egnar 7 1/2'

**MAP** CORTEZ

**PROD** As of 1971, 10,989 tons had been mined at a grade of 0.25% U3O8, producing 56,001 lbs of U3O8, and 2.62% V2O5, producing 576,525 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI 1971**


**Happy Jack (Gypsy Rose)**

**LOCATION:** sec. 36, T. 44 N., R. 20 W.

**LCRM** U.S. A.E.C. Production Records show location as sec. 4, T. 43 N., R. 19 W.

**QUAD** Mount Peale SE 7 1/2'

**MAP** MOAB

**PROD** As of 1971, 243 tons had been mined at a grade of 0.37% U3O8, producing 1,810 lbs of U3O8, and 2.40% V2O5, producing 11,685 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI 1971**


**Hawk - Frankie**

**LOCATION:** sec. 16, T. 43 N., R. 19 W.

**QUAD** Egnar 7 1/2'

**MAP** CORTEZ

**PROD** As of 1971, 9,681 tons had been mined at a grade of 0.22% U3O8, producing 41,745 lbs of U3O8, and 1.61% V2O5, producing 310,900 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI 1971**


**Haymaker - Sunset (Sunset, Susan H.)**

**LOCATION:** sec. 29, T. 45 N., R. 18 W.

**LCRM** U.S. A.E.C. Production Records also show sec. 32.

**QUAD** Anderson Mesa 7 1/2' and Horse Range Mesa 7 1/2'

**MAP** MOAB

**PROD** As of 1971, 230 tons had been mined at a grade of 0.24% U3O8, producing 1,111 lbs of U3O8, and 1.70% V2O5, producing 7,809 lbs of V2O5.

**HOST** Uranium, vanadium.

**DOI 1971**


**Hazel (Hazel #3, 4, and 5)**

**LOCATION:** sec. 19, T. 43 N., R. 19 W.

**QUAD** Verdure NE 1/2' and Egnar 7 1/2'

**MAP** CORTEZ

**PROD** As of 1971, 119 tons had been mined at a grade of 0.20% U3O8, producing 483 lbs of U3O8, and 2.25% V2O5, producing 5,364 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI 1971**


**Hogback**

**LOCATION:** sec. 19, T. 43 N., R. 19 W.

**LCRM** U.S. A.E.C. Production Records also show sec. 20.

**QUAD** Verdure NE 1/2' and Egnar 7 1/2'

**MAP** CORTEZ

**PROD** As of 1971, 909 tons have been mined at a grade of 0.20% U3O8, producing 3,600 lbs of U3O8, and 1.74% V2O5, producing 31,605 lbs of V2O5.

**HOST** The host is the Salt Wash Member.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI 1971**


**Horseshoe 1**

**LOCATION:** sec. 6, T. 42 N., R. 17 W.

**QUAD** Joe Davis Hill 7 1/2'

**MAP** CORTEZ

**PROD** As of 1971, 799 tons had been mined at a grade of 0.20% U3O8, producing 3,254 lbs of U3O8, and 1.77% V2O5, producing 28,355 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation, Salt Wash Sandstone Member, sandstone and mudstone with abundant carbonized plant remains and sparse logs.

**MNZ** Uranium, vanadium, carnotite.

**DOI 1971**


**Horseshoe 2**

**LOCATION:** sec. 6, T. 42 N., R. 17 W.

**QUAD** Joe Davis Hill 7 1/2'

**MAP** CORTEZ

**PROD** As of 1971, 152 tons had been mined at a grade of 0.17% U3O8, producing 519 lbs of U3O8, and 1.21% V2O5, producing 3,686 lbs of V2O5.

**HOST** The host is the Jurassic Morrison Formation, Salt Wash Member.
**SAN MIGUEL COUNTY**

**Horseshoe 3**

LOCATION: sec. 6, T. 42 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 235 tons had been mined at a grade of 0.15% U308, producing 720 lbs of U308, and 1.265 V205, producing 5,934 lbs of V205.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

**Horseshoe 4**

LOCATION: sec. 6, T. 42 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 12 tons had been mined at a grade of 0.30% U308, producing 71 lbs of U308, and 2.96% V205, producing 710 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

**Horseshoe 5**

LOCATION: sec. 6, T. 42 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 31, T. 43 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 1,857 tons had been mined at a grade of 0.26% U308, producing 9,481 lbs of U308, and 2.22% V205, producing 82,481 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

**Horseshoe 6**

LOCATION: sec. 6, T. 42 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 155 tons had been mined at a grade of 0.20% U308, producing 618 lbs of U308, and 1.56% V205, producing 4,850 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

**Hot Drift II**

LOCATION: sec. 11, T. 42 N., R. 18 W.
LCRM This deposit lies in the Slick Rock district (overlaps S. B. Group).
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 38 tons had been mined at a grade of 0.07% U308, producing 53 lbs of U308, and 0.61% V205, producing 465 lbs of V205.
HOST Triassic Wingate or Chinle Formation.
MNZ Uranium, vanadium, uraninite (coffinite), low vanadium, high lime.
DOI 1971

**Hot Shpt**

LOCATION: sec. 16, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 2,297 tons had been mined at a grade of 0.33% U308, producing 15,223 lbs of U308, and 1.77% V205, producing 81,323 lbs of V205.
MNZ Uranium, vanadium, carnotite, tyuyamunite, high vanadium, intermed. lime.
DOI 1971
SAN MIGUEL COUNTY

Hot Spot

LOCATION: sec. 17, T. 44 N., R. 17 W.
LCRM This deposit lies in Gypsum Valley.
PROD As of 1971, 53 tons had been mined at a grade of 0.16% U3O8, producing 170 lbs of U3O8, and 2.12% V2O5, producing 2,248 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Hoyman Lease (Grady Claims, West Group)

LOCATION: sec. 27, T. 44 N., R. 18 W.
LCRM Also sec. 28, 29, 32, 33, 34.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 4,651 tons had been mined at a grade of 0.21% U3O8, producing 19,579 lbs of U3O8, and 1.26% V2O5, producing 116,860 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971

J.V. Eavenson Lease

LOCATION: sec. 15, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 29 tons had been mined at a grade of 0.18% U3O8, producing 106 lbs of U3O8, and 1.24% V2O5, producing 721 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Independence (Lower Group)

LOCATION: sec. 17, T. 43 N., R. 19 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 13 tons had been mined at a grade of 0.25% U3O8, producing 64 lbs of U3O8, and 0.69% V2O5, producing 179 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Inspiration I (Lost Group)

LOCATION: sec. 33, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 34.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 110 tons had been mined at a grade of 0.06% U3O8, producing 124 lbs of U3O8, and 0.93% V2O5, producing 2,053 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

423
As of 1971, 13,766 tons of ore mined 78,751 lbs of U3O8, and 1.58% V2O5, producing 435,458 lbs of V2O5.

HOST Jurassie Morrison Formation, Salt Wash Member.

DOJ 1971


Jackknife 3 West W

LOCATION: sec. 16, T. 45 N., R. 18 W.


QUAD Buli Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 199 tons had been mined at a grade of 0.05% U3O8, producing 247 lbs of U3O8, and 0.32% V2O5, producing 1,271 lbs of V2O5.

HOST Jurassie Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.

DOJ 1971


Jackknife No. 2

LOCATION: sec. 16, T. 45 N., R. 18 W.

QUAD Buli Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 686 tons had been mined at a grade of 0.29% U3O8, producing 123 lbs of U3O8, and 2.50% V2O5, producing 1,051 lbs of V2O5.

HOST Jurassie Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium.

DOJ 1971


Jackpot Group (Long Ridge Group, Jackpot No. 1-3)

LOCATION: sec. 16, T. 45 N., R. 17 W.

LORI U.S. A.E.C. Production Records also show sec. 17.

QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'

MAP MOAB

PROD As of 1971, 182 tons had been mined at a grade of 0.16% U3O8, producing 582 lbs of U3O8, and 1.23% V2O5, producing 4,492 lbs of V2O5.

MNZ Uranium, vanadium.

DOJ 1971


Jim 2

LOCATION: sec. 11, T. 42 N., R. 18 W.

LORI U.S. A.E.C. Production Records also show sec. 2, 3, 10.

QUAD Joe Davis Hill 7 1/2'

MAP CORTEZ

PROD As of 1971, 4,492 lbs of ore were mined at a grade of 0.19% U3O8, producing 1,251 lbs of U3O8, and 2.59% V2O5, producing 17,098 lbs of V2O5.

MNZ Uranium, vanadium.

DOJ 1971


Joe Dandy Group (Edward, Wesley, Lone Wolf)

LOCATION: sec. 8, T. 43 N., R. 10 W.

QUAD Sams 7 1/2'

MAP MOAB

PROD As of 1971, 686 tons had been mined at a grade of 0.06% U3O8, producing 867 lbs of U3O8, and 1.68% V2O5, producing 23,063 lbs of V2O5.

HOST Jurassie Entrada Sandstone; white to buff fine-grained sandstone.
Jungle Basin

LOCATION: sec. 35, T. 45 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 10 tons had been mined at a grade of 0.03% U3O8, producing 6 lbs of U3O8, and 0.21% V2O5, producing 43 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Katie

LOCATION: sec. 24, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 91 tons had been mined at a grade of 0.21% U3O8, producing 384 lbs of U3O8, and 2.74% V2O5, producing 4,978 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Keystone

LOCATION: sec. 14, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 437 tons had been mined at a grade of 0.19% U3O8, producing 1,691 lbs of U3O8, and 1.94% V2O5, producing 16,952 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Klondike (Lower Group)

LOCATION: sec. 1, T. 43 N., R. 17 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 2 tons had been mined at a grade of 0.10% U3O8, producing 4 lbs of U3O8, and 0.90% V2O5, producing 36 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

La Salle

LOCATION: sec. 30, T. 44 N., R. 19 W.
QUAD Mount Peale 4 SE 7 1/2'
MAP MOAB
PROD As of 1971, 1,407 tons had been mined at a grade of 0.11% U3O8, producing 51 lbs of U3O8, and 0.72% V2O5, producing 330 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Lara's Peninsula

LOCATION: E1/2SE1/4NW1/4 sec. 29, T. 43 N., R. 19 W.
DOI 1958

Larimer Street

LOCATION: sec. 16, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
SAN MIGUEL COUNTY

Last Chance

LOCATION: sec. 23, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 36 tons had been mined at a grade of 0.36% U3O8, producing 261 lbs of U3O8, and 1.49% V2O5, producing 1,076 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Last Chance

LOCATION: sec. 32, T. 45 N., R. 19 W.
LORM Also sec. 33.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 10 tons had been mined at a grade of 0.11% U3O8, producing 22 lbs of U3O8, and 0.94% V2O5, producing 188 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Last Hope

LOCATION: sec. 24, T. 43 N., R. 20 W.
QUAD Verdure II NE 7 1/2'
MAP CORTEZ
PROD As of 1971, 419 tons had been mined at a grade of 0.21% U3O8, producing 1,731 lbs of U3O8, and 2.26% V2O5, producing 18,969 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Latricia

LOCATION: sec. 20, T. 43 N., R. 19 W.
QUAD Sgnar II 1/2'
MAP CORTEZ
PROD As of 1971, 959 tons had been mined at a grade of 0.20% U3O8, producing 3,796 lbs of U3O8, and 1.08% V2O5, producing 20,640 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Lawton (Fall Creek Group)

LOCATION: sec. 1, T. 43 N., R. 11 W.
QUAD Placerville 7 1/2'
MAP MOAB
HOST Jurassic Morrison Formation.

MNZ Roscoelite.
DOI 1971

Leese 875 N W 16

LOCATION: LORM This deposit lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 6 tons had been mined at a grade of 0.53% U3O8, producing 64 lbs of U3O8, and 1.23% V2O5, producing 147 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Loo C

LOCATION: NE1/4NE1/4 sec. 8, T. 43 N., R. 19 W.
DOI 1958

Lee Mack (Lemack)

LOCATION: sec. 1, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 6 tons had been mined at a grade of 0.18% U3O8, producing 22 lbs of U3O8, and 1.82% V2O5, producing 218 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Leopard Vanadium 2 & 3

LOCATION: sec. 26, T. 44 N., R. 11 W.
QUAD Placerville 7 1/2'
MAP MOAB
PROD As of 1971, 150 tons had been mined at a grade of 0.14% U3O8, producing 450 lbs of U3O8, and 2.54% V2O5, producing 7,610 lbs of V2O5.
HOST Jurassic Entrada Sandstone; light gray buff, fine-grained sandstone.
MNZ Uranium, vanadium.
DOI 1971


Letty Jones (Letty Jones Lease)

LOCATION: sec. 1, T. 43 N., R. 20 W.
LORM Also NE1/4 sec. 6, 7, 12, 13, 14, 18, T. 43 N., R. 19 W & 20 W.
DVEL Reserves, no production.
HOST Brushy Basin Member of the Jurassic Morrison Formation.
MNZ Uraninite.
DOI 1971

San Miguel County

E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Liberty Bell

LOCATION: LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 7 tons had been mined at a grade of 0.15% U3O8, producing 21 lbs of U3O8, and 1.17% V2O5, producing 164 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Little Chief

LOCATION: LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 21 tons had been mined at a grade of 0.11% U3O8, producing 47 lbs of U3O8, and 0.97% V2O5, producing 409 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Little Helen

LOCATION: sec. 18, T. 43 N., R. 18 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 31 tons had been mined at a grade of 0.25% U3O8, producing 157 lbs of U3O8, and 2.29% V2O5, producing 1,419 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Little Marie

LOCATION: sec. 23, T. 44 N., R. 19 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 5 tons had been mined at a grade of 0.33% U3O8, producing 33 lbs of U3O8, and 2.36% V2O5, producing 236 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Little Max

LOCATION: sec. 28, T. 43 N., R. 18 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 326 tons had been mined at a grade of 0.21% U3O8, producing 1,342 lbs of U3O8, and 1.84% V2O5, producing 11,977 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971
**San Miguel County**

**Lonesome 34**

**LOCATION:** sec. 36, T. 45 N., R. 18 W.

**QUAD:** Hamm Canyon 7 1/2'

**MAP:** MOAB

**PROD**

As of 1971, 5,195 tons had been mined at a grade of 0.17% U3O8, producing 17,549 lbs of U3O8, and 0.90% V2O5, producing 93,908 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite.

**DOI** 1971


**Lost Brothers**

**LOCATION:** sec. 27, T. 45 N., R. 18 W.

**QUAD:** Bull Canyon 7 1/2' & Hamm Canyon 7 1/2'

**MAP:** MOAB

**PROD**

As of 1971, 166 tons had been mined at a grade of 0.32% U3O8, producing 1,063 lbs of U3O8, and 2.77% V2O5, producing 9,210 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


**Lost Dog**

**LOCATION:** sec. 16, T. 43 N., R. 19 W.

**LORIM** U.S. A.E.C. Production Records only show locs. 21, 22 & 27.

**QUAD:** Egnar 7 1/2'

**MAP:** CORTEZ

**PROD**

As of 1971, 189 tons had been mined at a grade of 0.25% U3O8, producing 928 lbs of U3O8, and 2.21% V2O5, producing 8,367 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


**Lucky 1 and Joe Ray 1**

**LOCATION:** sec. 8, T. 43 N., R. 18 W.

**LORIM** This deposit lies in the Slick Rock district.

**QUAD:** Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'

**MAP:** MOAB

**PROD**

As of 1971, 13 tons had been mined at a grade of 0.26% U3O8, producing 67 lbs of U3O8, and 1.61% V2O5, producing 418 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971


**Lucky B (Rowena, Nancy 1-4, Blue Horse)**

**LOCATION:** sec. 15, T. 44 N., R. 19 W.

**QUAD:** Horse Range Mesa 7 1/2'

**MAP:** MOAB

**PROD**

As of 1971, 57 tons had been mined at a grade of 0.26% U3O8, producing 292 lbs of U3O8, and 2.22% V2O5, producing 2,527 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**DOI** 1971

Lucky Day

LOCATION: sec. 24, T. 43 N., R. 19 W.
QUAD Egan 7 1/2'
MAP CORTEZ
PROD As of 1971, 883 tons had been mined at a grade of 0.23% U3O8, producing 3,997 lbs of U3O8, and 2.79% V2O5, producing 49,528 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Lucky Strike

LOCATION: sec. 19, T. 43 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 36.
QUAD Verdure 1 NE 7 1/2' & Egan 7 1/2'
MAP CORTEZ
PROD As of 1971, 223 tons had been mined at a grade of 0.14% U3O8, producing 637 lbs of U308, and 0.79% V2O5, producing 3,524 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Macintyre Claims

LOCATION: sec. 25, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records only show sec. 36.
QUAD Bull Canyon 7 1/2' & Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 8 tons had been mined at a grade of 0.28% U3O8, producing 44 lbs of U308, and 1.04% V2O5, producing 166 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Magpie

LOCATION: sec. 25, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records only show sec. 36.
QUAD Bull Canyon 7 1/2' & Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 28,330 tons had been mined at a grade of 0.20% U3O8, producing 113,528 lbs of U3O8, and 0.99% V2O5, producing 559,171 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Magpie (Mine)

LOCATION: sec. 10, T. 44 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB

PROD As of 1971, 9,352 tons had been mined at a grade of 0.22% U3O8, producing 40,328 lbs of U3O8, and 1.24% V2O5, producing 231,726 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mainstreet (Almon Street)

LOCATION: sec. 16, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 10,308 tons had been mined at a grade of 0.28% U3O8, producing 57,698 lbs of U3O8, and 1.45% V2O5, producing 297,964 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Margaret C. 1–6

LOCATION: sec. 7, T. 43 N., R. 16 W.
QUAD Dawson Draw 7 1/2'
MAP MOAB
PROD As of 1971, 24 tons had been mined at a grade of 0.23% U3O8, producing 110 lbs of U3O8, and 1.30% V2O5, producing 625 lbs of V2O5.
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Marie

LOCATION: sec. 19, T. 43 N., R. 19 W.
QUAD Verdure 1 NE 7 1/2' & Egan 7 1/2'
MAP CORTEZ
PROD As of 1971, 535 tons had been mined at a grade of 0.20% U3O8, producing 2,185 lbs of U3O8, and 1.33% V2O5, producing 14,284 lbs of V2O5.
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Marie 1 (Legin Group)

LOCATION: sec. 29, T. 43 N., R. 19 W.
QUAD Verdure 1 NE 7 1/2' & Egan 7 1/2'
MAP CORTEZ
PROD As of 1971, 50,430 tons had been mined at a grade of 0.17% U3O8, producing 1,200,192 lbs of U3O8, and 1.3% V2O5, producing 85,748 lbs of V2O5.
HOST Salt Wash Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
Marine Group

LOCATION: sec. 32, T. 43 N., R. 18 W.
QUAD Egner 7 1/2' & Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 790 tons had been mined at a grade of 0.16% U₃O₈, producing 2,543 lbs of U₃O₈, and 1.20% V₂O₅, producing 18,903 lbs of V₂O₅.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Mayflower

LOCATION: sec. 33, T. 44 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 32.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 58 tons had been mined at a grade of 0.26% U₃O₈, producing 301 lbs of U₃O₈, and 1.60% V₂O₅, producing 1,853 lbs of V₂O₅.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Mc Kee Group

LOCATION: sec. 22, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 23.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 28 tons had been mined at a grade of 0.37% U₃O₈, producing 208 lbs of U₃O₈, and 2.83% V₂O₅, producing 1,582 lbs of V₂O₅.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1975, 1971

Mc Millan

LOCATION: LCST UNLOCATABLE
LCRM This deposit lies in Gypsum Valley.
As of 1971, 6 tons had been mined at a grade of 0.08% U3O8, producing 10 lbs of U3O8, and 1.65% V2O5, producing 198 lbs of V2O5.

LOCATION: sec. 29, T. 45 N., R. 18 W.
LCRM U. S. A. E. C. Production Records also show sec. 30, 31, 32.
QUAD Horse Range Mesa 7 1/2' & Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 32 tons had been mined at a grade of 0.14% U3O8, producing 92 lbs of U3O8, and 1.79% V2O5, producing 1,148 lbs of V2O5.
HUST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyaminite, high vanadium, low lime.
DOI 1971

Mercantile (4, AEC Mining Lease) (C-SR-11, DOE Lease Tract)

LOCATION: sec. 18, T. 43 N., R. 19 W.
QUAD Verdure 1 NE 1/4 & Egnar 7 1/2'
MAP CORTEZ
PROD See C-SR-11, DOE Lease Tract.
HUST Jurassic Morrison Formation, Salt Wash Member; light brown, fine- to medium-grained sandstone, and gray and green mudstone with abundant carbonized plant remains and sparse logs.
MNZ Uranium, vanadium, uraninite, carnitite - tyuyaminite.
DOI 1971

Mesa 7

LOCATION: sec. 31, T. 44 N., R. 17 W.
LCRM U. S. A. E. C. Production Records show location as sec. 33, T. 46 N., R. 19 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 23 tons had been mined at a grade of 0.08% U3O8, producing 38 lbs of U3O8, and 1.45% V2O5, producing 668 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Mesa Mill

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
As of 1971, 1 ton had been mined at a grade of 0.95% U3O8, producing 19 lbs of U3O8, and 5.90% V2O5, producing 118 lbs of V2O5.

LOCATION: Hammond Canyon 7 1/2'
MAP: MOAB
PROD: This deposit lies in the Slick Rock district.
HOST: Jurassic Morrison Formation.

Mineral Mines

LOCATION: LCST UNLOCATABLE
LCRM: This deposit lies in the Slick Rock district.
PROD: As of 1971, 556 tons had been mined at a grade of 0.28% U3O8, producing 3,166 lbs of U3O8, and 2.83% V2O5, producing 31,486 lbs of V2O5.
HOST: Jurassic Morrison Formation, Salt Wash Member.
DOI: 1971

Mineral Mountain 6

LOCATION: LCST UNLOCATABLE
PROD: As of 1971, 84 tons had been mined at a grade of 0.23% U3O8, producing 379 lbs of U3O8, and 1.68% V2O5, producing 2,829 lbs of V2O5.
DOI: 1971

Mineral Mountain 7

LOCATION: LCST UNLOCATABLE
PROD: As of 1971, 243 tons had been mined at a grade of 0.19% U3O8, producing 944 lbs of U3O8, and 1.73% V2O5, producing 8,397 lbs of V2O5.
DOI: 1971

Mint #1

LOCATION: S1/2N1/4 sec. 35, T. 45 N., R. 20 W.
DOI: 1958

Mitchel and Archer Group (Baby Ruth, September Horn, Diana)

LOCATION: sec. 14, T. 45 N., R. 18 W.
QUAD: Bull Canyon 7 1/2'
MAP: MOAB
PROD: As of 1971, 427 tons had been mined at a grade of 0.17% U3O8, producing 1,469 lbs of U3O8, and 1.91% V2O5, producing 16,332 lbs of V2O5.
HOST: Jurassic Morrison Formation, Salt Wash Member.
MINZ: Uranium, vanadium.
DOI: 1971

Montezuma

LOCATION: sec. 19, T. 43 N., R. 18 W.
LCRM: This deposit lies in the Speed Patch area, Slick Rock district.
San Miguel County

QUAD Egner 7 1/2'
MAP CORTEZ
PROD As of 1971, 4 tons had been mined at a grade of 0.21% U3O8, producing 17 lbs of U3O8, and 2.29% V2O5, producing 183 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Monument 4

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 14 tons had been mined at a grade of 0.12% U3O8, producing 33 lbs of U3O8, and 1.83% V2O5, producing 513 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Mogul Jug (Depression, Dorothy May)

LOCATION: W1/2 sec. 29, T. 43 N., R. 18 W.
LCRM This deposit lies in the Speed Rock district.
QUAD Egner 7 1/2' and Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 12,389 tons had been mined at a grade of 0.09% U3O8, producing 23,275 lbs of U3O8, and 1.94% V2O5, producing 481,677 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mortgage Lifter (Radium Group)

LOCATION: sec. 4, T. 43 N., R. 18 W.
LCRM Also sec. 9. This deposit lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 25 tons had been mined at a grade of 0.28% U3O8, producing 139 lbs of U3O8, and 1.54% V2O5, producing 772 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Mucho (Grande)

LOCATION: sec. 1, T. 42 N., R. 18 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 724 tons had been mined at a grade of 0.19% U3O8, producing 2,743 lbs of U3O8, and 2.00% V2O5, producing 29,018 lbs of V2O5.
HOST Jurassic Morrison Formation.

Mule Group (Horseshoe Group)

LOCATION: T. 43 N., R. 18 W.
LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 4 tons had been mined at a grade of 0.13% U3O8, producing 10 lbs of U3O8, and 1.80% V2O5, producing 144 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Murietta

LOCATION: sec. 25, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 26 & 36.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
MOAB
PROD As of 1971, 877 tons had been mined at a grade of 0.19% U3O8, producing 3,328 lbs of U3O8, and 0.88% V2O5, producing 15,469 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Mystery (Muleshoe Group)

LOCATION: sec. 26, T. 43 N., R. 18 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 115 tons had been mined at a grade of 0.14% U3O8, producing 330 lbs of U3O8, and 1.58% V2O5, producing 3,625 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
San Miguel County

National

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 7 tons had been mined at a grade of 0.09% U3O8, producing 13 lbs of U3O8, and 2.85% V2O5, producing 400 lbs of V2O5.
HOST Jurassic Morrison Formation.
DOI 1971

Navajo

LOCATION: sec. 22, T. 45 N., R. 18 W.
PROD As of 1971, 41 tons had been mined at a grade of 0.41% U3O8, and 1.491% V2O5.
HOST Brushy Basin Member of the Jurassic Morrison Formation.
DOI 1971

LOCATION: sec. 19, T. 45 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1 ton had been mined at a grade of 0.20% U3O8, producing 4 lbs of U3O8, and 0.50% V2O5, producing 10 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

LOCATION: sec. 19, T. 45 N., R. 18 W.
QUAD Egnar 7 1/2' & Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 4,793 tons had been mined at a grade of 0.35% U3O8, producing 31,356 lbs of U3O8, and 1.82% V2O5, producing 174,384 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamanite, high vanadium, low lime.
DOI 1971

LOCATION: sec. 3, T. 44 N., R. 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1,025 tons had been mined at a grade of 0.11% U3O8, producing 13 lbs of U3O8, and 0.79% V2O5, producing 95 lbs of V2O5. This ore came from stockpile cleanup at the North Continent Mill at Slick Rock, Colorado, in 1952.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamanite, high vanadium, low lime.
DOI 1971

LOCATION: sec. 5, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP CORTEZ
PROD As of 1971, 1,025 tons had been mined at a grade of 0.17% U3O8, producing 3,426 lbs of U3O8, and 0.97% V2O5, producing 19,985 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

New Deal

LOCATION: sec. 26, T. 45 N., R. 18 W.
LCST UNLOCATABLE
M100 As of 1971, 294 tons had been mined at a grade of 0.17% U3O8, producing 902 lbs of U3O8, and 1.36% V2O5, producing 7,033 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

New Discovery (Barbara Jo Claim, White Spur)

LOCATION: sec. 35, T. 43 N., R. 11 W.
QUAD Little Cone 7 1/2'
MAP CORTEZ

434
Northern Light
LOCATION: sec. 22, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 31,936 tons had been mined at a grade of 0.23% U3O8, producing 144,724 lbs of U3O8, and 1.64% V2O5, producing 1,044,613 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

Old Mexico
LOCATION: SW1/4 sec. 19, T. 44 N., R. 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 338 tons had been mined at a grade of 0.41% U3O8, producing 2,786 lbs of U3O8, and 2.00% V2O5, producing 13,547 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitine - tyuyamunite, high vanadium, low lime.
DOI 1971

Omega
LOCATION: sec. 55, T. 44 N., R. 11 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 9 tons had been mined at a grade of 0.17% U3O8, producing 30 lbs of U3O8, and 0.78% V2O5, producing 140 lbs of V2O5.
HOST Jurassic Entrada Sandstone; light gray to buff, fine-grained sandstone.
MNZ Uranium, vanadium.
DOI 1971

Owensby
LOCATION: sec. 16, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 69 tons had been mined at a grade of 0.16% U3O8, producing 221 lbs of U3O8, and 1.67% V2O5, producing 2,300 lbs of V2O5.

Painted Rock
LOCATION: sec. 31, T. 44 N., R. 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 4 tons had been mined at a grade of 0.30% U3O8, producing 24 lbs of U3O8, and 1.48% V2O5, producing 118 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Parrot Group
LOCATION: SW1/4 sec. 26, T. 43 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 27, 34 & 35.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 5,298 tons had been mined at a grade of 0.20% U3O8, producing 21,247 lbs of U3O8, and 1.55% V2O5, producing 164,202 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitine - tyuyamunite, high vanadium, low lime.
DOI 1971

Payday
LOCATION: sec. 34, T. 45 N., R. 18 W.
LCRM Location from U.S. A.E.C. Production Records.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 21 tons had been mined at a grade of 0.06% U3O8, producing 27 lbs of U3O8, and 0.92% V2O5, producing 387 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

Paystreak No. 3
LOCATION: sec. 30, T. 43 N., R. 18 W.
LCRM This deposit lies in the Speed Patch area, Slick Rock district.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 290 tons had been mined at a grade of 0.15% U3O8, producing 844 lbs of U3O8, and 1.95% V2O5, producing 11,329 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
Peanut Group (Mines)

LOCATION: sec. 31, T. 45 N., R. 17 W.

LCRM U.S. A.E.C. Production Records also show sec. 32.

QUAD Hamm Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 61,920 tons had been mined at a grade of 0.26% U3O8, producing 316,061 lbs of U3O8, and 2.30% V2O5, producing 2,851,891 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member; gray, very fine- to medium-grained sandstone with abundant carbonized plant remains.

MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.

DOI 1971


Pecas No. 1

LOCATION:

LCST UNLOCATABLE

PROD As of 1971, 6 tons had been mined at a grade of 0.03% U3O8, producing 3 lbs of U3O8, and 0.45% V2O5, producing 54 lbs of V2O5.

HOST Jurassic Morrison Formation.

DOI 1971


Penigal

LOCATION: sec. 32, T. 44 N., R. 16 W.

QUAD Gypsum Gap 7 1/2'

MAP MOAB

PROD As of 1971, 1,044 tons had been mined at a grade of 0.29% U3O8, producing 6,067 lbs of U3O8, and 2.99% V2O5, producing 62,429 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971


Three Bigs No. 1

LOCATION: sec. 24, T. 43 N., R. 19 W.

QUAD Egnar 7 1/2'

MAP CORTEZ

PROD As of 1971, 8 tons had been mined at a grade of 0.37% U3O8, producing 59 lbs of U3O8, and 3.16% V2O5, producing 505 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium.

DOI 1971


Phillips 66 1 (cone)

LOCATION: sec. 24, T. 44 N., R. 17 W.

QUAD Gypsum Gap 7 1/2'

MAP MOAB

PROD As of 1971, 110 tons had been mined at a grade of 0.12% U3O8, producing 266 lbs of U3O8, and 1.96% V2O5, producing 4,319 lbs of V2O5.

MNZ Uranium, vanadium.

DOI 1971


Pine Bug (Legen Group, Pine Berg)

LOCATION: sec. 29, T. 43 N., R. 19 W.

QUAD Egnar 7 1/2'

MAP CORTEZ

PROD No production.

DOI 1971


Pinto #1

LOCATION: sec. 20, T. 44 N., R. 11 W.

QUAD Gypsum Gap 7 1/2'

PROD No production.

DOI 1971


Pitchfork

LOCATION: sec. 32, T. 44 N., R. 16 W.

LCRM U.S. A.E.C. Production Records show only sec. 33.

QUAD Gypsum Gap 7 1/2'

MAP MOAB

PROD As of 1971, 19,080 tons had been mined at a grade of 0.21% U3O8, producing 79,510 lbs of U3O8, and 1.13% V2O5, producing 422,650 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation, Salt Wash Sandstone Member; light brown and gray sandstone.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
San Miguel County

Pointed Rock

LOCATION: sec. 31, T. 44 N., R. 18 W.
LCRM Also sec. 32.
DOI 1971

LOCATION: LCST UNLOCATABLE
PROD As of 1971, 50 tons had been mined at a grade of 0.10% U3O8, producing 99 lbs of U3O8, and 2.61% V2O5, producing 2,613 lbs of V2O5.
DOI 1971

Polaris

LOCATION: sec. 32, T. 44 N., R. 18 W.
DOI 1971

Pour Off

LOCATION: sec. 9, 10, 11, 14, 15. This deposit lies in Gypsum Valley.
DOI 1971

Prospectors Fortune Group

LOCATION: sec. 25, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 22 - 27 and 36.
DOI 1971

Queen of Spades

LOCATION: sec. 18, T. 43 N., R. 18 W.
QUAD Egnar 7 1/2'
MAP MOAB
PROD As of 1971, 85 tons had been mined at a grade of 0.21% U3O8, producing 364 lbs of U3O8, and 2.26% V2O5, producing 3,841 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

R. L. Duncan Mining Property

LOCATION: sec. 5, T. 43 N., R. 18 W.
DOI 1975

Radium, Early Morning

LOCATION: sec. 24, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 9 & 30, T. 45 N., R. 18 W.
DOI 1971

Radio

LOCATION: sec. 5, T. 43 N., R. 18 W.
DOI 1971

Radium

LOCATION: sec. 5, T. 43 N., R. 19 W.
DOI 1971
As of 1971, 11 tons had been mined at a grade of 0.06% U3O8, producing 14 lbs of U3O8, and 0.64% V2O5, producing 141 lbs of V2O5.

As of 1971, 431 tons had been mined at a grade of 0.20% U3O8, producing 1,739 lbs of U3O8, and 1.40% V2O5, producing 12,035 lbs of V2O5.

As of 1971, 2,776 tons had been mined at a grade of 0.16% U3O8, producing 9,192 lbs of U3O8, and 1.19% V2O5, producing 66,658 lbs of V2O5.

As of 1971, 52,723 tons had been mined at a grade of 0.21% U3O8, producing 44,790 lbs of U3O8, and 1.06% V2O5, producing 226,580 lbs of V2O5.

As of 1971, 55 tons had been mined at a grade of 0.35% U3O8, producing 191,717 lbs of U3O8, and 1.84% V2O5, producing 1,021,190 lbs of V2O5.

As of 1971, 52,132 tons had been mined at a grade of 0.33% U3O8, producing 52,132 lbs of U3O8, and 1.75% V2O5, producing 1,819,985 lbs of V2O5.

As of 1971, 82,135 tons had been mined at a grade of 0.28% U3O8, producing 14,404 lbs of U3O8, and 1.61% V2O5, producing 82,135 lbs of V2O5.

As of 1971, 55 tons had been mined at a grade of 0.10% U3O8, producing 113 lbs of U3O8, and 1.02% V2O5, producing 1,125 lbs of V2O5.

As of 1971, 11 tons had been mined at a grade of 0.06% U3O8, producing 14 lbs of U3O8, and 0.64% V2O5, producing 141 lbs of V2O5.

As of 1971, 431 tons had been mined at a grade of 0.20% U3O8, producing 1,739 lbs of U3O8, and 1.40% V2O5, producing 12,035 lbs of V2O5.

As of 1971, 2,776 tons had been mined at a grade of 0.16% U3O8, producing 9,192 lbs of U3O8, and 1.19% V2O5, producing 66,658 lbs of V2O5.

As of 1971, 52,723 tons had been mined at a grade of 0.21% U3O8, producing 44,790 lbs of U3O8, and 1.06% V2O5, producing 226,580 lbs of V2O5.

As of 1971, 55 tons had been mined at a grade of 0.35% U3O8, producing 191,717 lbs of U3O8, and 1.84% V2O5, producing 1,021,190 lbs of V2O5.

As of 1971, 52,132 tons had been mined at a grade of 0.33% U3O8, producing 52,132 lbs of U3O8, and 1.75% V2O5, producing 1,819,985 lbs of V2O5.

As of 1971, 82,135 tons had been mined at a grade of 0.28% U3O8, producing 14,404 lbs of U3O8, and 1.61% V2O5, producing 82,135 lbs of V2O5.

As of 1971, 55 tons had been mined at a grade of 0.10% U3O8, producing 113 lbs of U3O8, and 1.02% V2O5, producing 1,125 lbs of V2O5.
As of 1971, 285 tons had been mined at a grade of 0.27% U3O8, producing 1,513 lbs of U3O8, and 1.25% V2O5, producing 7,117 lbs of V2O5.

HOST
Jurassic Morrison Formation.
MNZ
Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI
1971
REF

**Radium 22**

LOCATION: sec. 32, T. 44 N., R. 19 W.
QUAD
Horse Range Mesa 7 1/2'
MAP
MOAB
PROD
As of 1971, 97 tons had been mined at a grade of 0.15% U3O8, producing 292 lbs of U3O8, and 0.77% V2O5, producing 1,503 lbs of V2O5.

HOST
Jurassic Morrison Formation.
MNZ
Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI
1971
REF

**Radium Hills**

LOCATION: sec. 16, T. 45 N., R. 18 W.
QUAD
Bull Canyon 7 1/2'
MAP
MOAB
MNZ
Uranium, vanadium.
DOI
1975
REF

**Rainy Day**

LOCATION: sec. 25, T. 45 N., R. 18 W.
LCRM
Also sec. 26.
PROD
As of 1971, 11,013 tons had been mined at a grade of 0.29% U3O8, producing 22,223 lbs of U3O8, and 0.62% V2O5, producing 76,270 lbs of V2O5.

HOST
Jurassic Morrison Formation.
MNZ
Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI
1971
REF
As of 1971, 2,900 tons had been mined at a grade of 0.17% U3O8, producing 10,119 lbs of U3O8 and 1.11% V2O5, producing 64,139 lbs of V2O5.

As of 1971, 21 tons had been mined at a grade of 1.57% U3O8, producing 658 lbs of U3O8 and 6.98% V2O5, producing 2,932 lbs of V2O5.

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Red Snake

LOCATION: sec. 13, T. 44 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show location as sec. 6, T. 42 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP MOAB
PROD As of 1971, 42 tons had been mined at a grade of 0.02% U3O8, producing 19 lbs of U3O8, and 0.17% V2O5, producing 5 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, high vanadium, low lime.
DOI 1971

Red Top

LOCATION: sec. 9, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 6, T. 42 N., R. 17 W.
QUAD Joe Davis Hill 7 1/2'
MAP MOAB
PROD As of 1971, 42 tons had been mined at a grade of 0.02% U3O8, producing 19 lbs of U3O8, and 0.17% V2O5, producing 5 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, high vanadium, low lime.
DOI 1971

Riverview

LOCATION: sec. 33, T. 45 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 264 tons had been mined at a grade of 0.21% U3O8, producing 1,097 lbs of U3O8, and 1.42% V2O5, producing 7,520 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, high vanadium, low lime.
DOI 1971

Robert M

LOCATION: sec. 16, T. 44 N., R. 17 W.
QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 44 tons had been mined at a grade of 0.16% U3O8, producing 144 lbs of U3O8, and 1.99% V2O5, producing 1,794 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Retribution

LOCATION: SE1/4 sec. 9, T. 44 N., R. 17 W.
QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
As of 1971, 2,486 tons had been mined at a grade of 0.24% U3O8, producing 11,778 lbs of U3O8, and 1.52% V2O5, producing 75,791 lbs of V2O5.

HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermediate lime.
DOI: 1971

Sage II

LOCATION: sec. 15, T. 43 N., R. 18 W.
QUAD: Egnar 7 1/2'
MAP: CORTEZ
PROD: As of 1971, 7,622 tons had been mined at a grade of 0.30% U3O8, producing 45,635 lbs of U3O8, and 2.80% V2O5, producing 427,497 lbs of V2O5.
HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Saint Jude

LOCATION: sec. 13, T. 44 N., R. 18 W.
QUAD: Hamm Canyon 7 1/2'
MAP: MOAB
MNZ: Uranium, vanadium.
DOI: 1975

San Miguel (Radium Group)

LOCATION: sec. 14, T. 43 N., R. 19 W.
QUAD: Horse Range Mesa 7 1/2'
MAP: MOAB
PROD: As of 1971, 3,679 tons had been mined at a grade of 0.28% U3O8, producing 20,532 lbs of U3O8, and 1.27% V2O5, producing 93,550 lbs of V2O5.
HOST: Jurassic Morrison Formation.
MNZ: Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI: 1971

Santa Maria (Charles T and Golden Rod Group)

LOCATION: sec. 26, T. 43 N., R. 19 W.
QUAD: Egnar 7 1/2'
MAP: CORTEZ
PROD: As of 1971, 47 tons had been mined at a grade of 0.17% U3O8, producing 157 lbs of U3O8, and 2.75% V2O5, producing 2,587 lbs of V2O5.
HOST: Jurassic Morrison Formation, Salt Wash Member.
MNZ: Uranium, vanadium.
DOI: 1971
SAN MIGUEL COUNTY

Sarah Ellen (Muleshoe Group)

LOCATION: W1/2 sec. 26, T. 43 N., R. 18 W.
LCRM U. S. A. E. C. Production Records also show sec. 13, 14, 22, 23.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 396 tons had been mined at a grade of 0.18% U3O8, producing 1,389 lbs of U3O8, and 1.76% V2O5, producing 13,962 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Sarah Jane

LOCATION:
LCST UNLOCATABLE
PROD As of 1971, 24 tons had been mined at a grade of 0.24% U3O8, producing 113 lbs of U3O8, and 2.34% V2O5, producing 1,121 lbs of V2O5.
DOI 1971

Sarah M. (Muleshoe Group, Mystery Group)

LOCATION: sec. 26, T. 43 N., R. 18 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 382 tons had been mined at a grade of 0.15% U3O8, producing 1,112 lbs of U3O8, and 2.26% V2O5, producing 17,233 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Schlee (Golden Rod Group)

LOCATION: sec. 26, T. 43 N., R. 19 W.
LCRM U. S. A. E. C. Production Records also show sec. R. 18 W.
QUAD Egner 7 1/2'
MAP CORTEZ
PROD As of 1971, 14 tons had been mined at a grade of 0.19% U3O8, producing 54 lbs of U3O8, and 2.90% V2O5, producing 812 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Sibley

LOCATION: sec. 17, T. 43 N., R. 19 W.
QUAD Egner 7 1/2'
MAP CORTEZ
PROD As of 1971, 223 tons had been mined at a grade of 0.22% U3O8, producing 977 lbs of U3O8, and 2.83% V2O5, producing 12,609 lbs of V2O5.
MNZ Uranium, vanadium.

Silver Chief

LOCATION: sec. 12, T. 42 N., R. 9 W.
QUAD Telluride 7 1/2'
MAP CORTEZ
PROD As of 1971, 34 tons had been mined at a grade of 0.09% U3O8, producing 60 lbs of U3O8, and 3.23% V2O5, producing 2,193 lbs of V2O5.
HOST Jurasssic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Single Jack

LOCATION: sec. 26, T. 44 N., R. 11 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Placerville 7 1/2'
MAP MOAB
PROD As of 1971, 137 tons had been mined at a grade of 0.29% U3O8, producing 314 lbs of U3O8, and 1.91% V2O5, producing 2,098 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyumnumite, high vanadium, low lime.
DOI 1971

Slick Rock Mill

LOCATION: SE1/4 sec. 25, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 137 tons had been mined at a grade of 0.45% U3O8, producing 1,225 lbs of U3O8, and 1.89% V2O5, producing 5,179 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Snyder (Snyder and Peterson)

LOCATION: SE1/4 sec. 2, T. 42 N., R. 20 W.
LCRM U. S. A. E. C. Production Records also show sec. 11.
QUAD Verdure 1 NE 7 1/2'
MAP CORTEZ
PROD As of 1971, 97,727 tons had been mined at a grade of 0.17% U3O8, producing 334,770 lbs of U3O8, and 1.91% V2O5, producing 1,121 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, high vanadium, low lime.
DOI 1971
SAN MIGUEL COUNTY

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

Spring

LOCATION: LCRM This deposit lies in the Long Ridge area, Gypsum Valley.

PROD As of 1971, 34 tons had been mined at a grade of 0.16% U3O8, producing 4,992 lbs of U3O8, and 2.03% V2O5, producing 62,048 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation, Salt Wash Sandstone Member, buff and grey medium-grained sandstone, shaly sandstone, grit, and conglomerate, with abundant carbonized plant remains and sparse logs.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

Spud Patch

LOCATION: sec. 29, T. 43 N., R. 18 W.

LCRM U.S. A.E.C. Production Records show location as Slick Rock district.

PROD As of 1971, 1,529 tons had been mined at a grade of 0.16% U3O8, producing 4,992 lbs of U3O8, and 2.03% V2O5, producing 62,048 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation, Salt Wash Sandstone Member, buff and grey medium-grained sandstone, shaly sandstone, grit, and conglomerate, with abundant carbonized plant remains and sparse logs.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

Star

LOCATION: sec. 30, T. 43 N., R. 18 W.

LCRM This deposit lies in the Speed Patch area.

PROD As of 1971, 7 tons had been mined at a grade of 0.14% U3O8, producing 19 lbs of U3O8, and 1.19% V2O5, producing 167 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971

Start

LOCATION: sec. 30, T. 43 N., R. 18 W.

QUAD Egner 7 1/2'

MAP CORTEZ

PROD As of 1971, 7 tons had been mined at a grade of 0.14% U3O8, producing 19 lbs of U3O8, and 1.19% V2O5, producing 167 lbs of V2O5.

MNZ Uranium, vanadium.

DOI 1971

State Line

LOCATION: SW1/4NE1/4 sec. 23, T. 44 N., R. 20 W.

DOI 1958

Strawberry Roan

LOCATION: sec. 32, T. 43 N., R. 19 W.

LCRM U.S. A.E.C. Production Records also show sec. 31.

QUAD Egner 7 1/2'

MAP CORTEZ

PROD As of 1971, 7,829 tons had been mined at a grade of 0.35% U3O8, producing 55,275 lbs of U3O8, and 2.86% V2O5, producing 446,066 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, intermed. lime.

DOI 1971

Summit Incline 1 (Summit No. 211)

LOCATION: sec. 28, T. 43 N., R. 19 W.

QUAD Egner 7 1/2'

MAP CORTEZ

DVEL Suncup (Puckett)

PROD As of 1971, 16,403 tons had been mined at a grade of 0.20% U3O8, producing 65,165 lbs of U3O8, and 1.12% V2O5, producing 368,793 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

Suncup (Puckett)

LOCATION: SW1/4 sec. 31, T. 43 N., R. 17 W.

QUAD Joe Davis Hill 7 1/2'

MAP CORTEZ

DVEL Suncup (Puckett)

PROD As of 1971, 16,130 tons had been mined at a grade of 0.20% U3O8, producing 65,165 lbs of U3O8, and 1.12% V2O5, producing 368,793 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

Sunday Group

LOCATION: S1/2 sec. 13, T. 44 N., R. 18 W.

LCRM U.S. A.E.C. Production Records also show N1/2 sec. 24, T. 43 N., R. 18 W.

QUAD Hamm Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 26,316 tons had been mined at a grade of 0.27% U3O8, producing 143,221 lbs of U3O8, and 2.11% V2O5, producing 1,111,112 lbs of V2O5.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
Sundown

LOCATION: sec. 27, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 85 tons had been mined at a grade of 0.25% U3O8, producing 419 lbs of U3O8, and 2.45% V2O5, producing 4,161 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Sundown Group

LOCATION: sec. 22, T. 45 N., R. 19 W.
LCRM Also sec. 25, 26, 27 and 34.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 46 tons had been mined at a grade of 0.26% U3O8, producing 242 lbs of U3O8, and 1.48% V2O5, producing 1,364 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, intermediate.
DOI 1971

Sunnyside

LOCATION: W1/2 sec. 32, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show E1/2 of sec. 31.
QUAD Horse Range Mesa 7 1/2' and Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 227 tons had been mined at a grade of 0.15% U3O8, producing 699 lbs of U3O8, and 1.12% V2O5, producing 5,073 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971

Sunrise

LOCATION: sec. 5, T. 43 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 33, 34, T. 46 N., R. 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 12,150 tons had been mined at a grade of 0.33% U3O8, producing 81,254 lbs of U3O8, and 1.89% V2O5, producing 458,160 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Sunrise 1 (one)

LOCATION: sec. 8, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 8,295 tons had been mined at a grade of 0.27% U3O8, producing 44,928 lbs of U3O8, and 1.65% V2O5, producing 274,283 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Sunrise 3, 4 and 5

LOCATION: sec. 8, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 666 tons had been mined at a grade of 0.16% U3O8, producing 2,191 lbs of U3O8, and 0.37% V2O5, producing 4,939 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Sunrise and Patented Land

LOCATION: sec. 5, T. 43 N., R. 19 W.
LCRM Also sec. 8
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 16,749 tons had been mined at a grade of 0.32% U3O8, producing 106,644 lbs of U3O8, and 2.04% V2O5, producing 683,173 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Sunshine 6

LOCATION: sec. 21, T. 44 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 34.
QUAD Gypsum Gap 7 1/2' and Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 29 tons had been mined at a grade of 0.16% U3O8, producing 93 lbs of U3O8, and 1.70% V2O5, producing 988 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971

Tallhoit

LOCATION: SW1/4 sec. 27, T. 44 N., R. 19 W.
San Miguel County

LCRM U.S. A.E.C. Production Records also show sec. 28.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 3,206 tons had been mined at a grade of 0.32% U3O8, producing 20,327 lbs of U3O8, and 2.03% V2O5, producing 130,176 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Texas Chief 1

LOCATION:
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 28 tons had been mined at a grade of 0.08% U3O8, producing 46 lbs of U3O8, and 0.35% V2O5, producing 198 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Tiny

LOCATION: sec. 30, T. 44 N., R. 16 W.
LCRM U.S. A.E.C. Production Records also show sec. 25, T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 3,118 tons had been mined at a grade of 0.18% U3O8, producing 11,346 lbs of U3O8, and 1.40% V2O5, producing 87,026 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Topaz Group

LOCATION: sec. 9, T. 44 N., R. 18 W.
LCRM Also sec. 10, 11, 14-16.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1971

Two Bar

LOCATION: sec. 24, T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 1,258 tons had been mined at a grade of 0.17% U3O8, producing 4,255 lbs of U3O8, and 1.96% V2O5, producing 49,215 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971

Valley View

LOCATION: sec. 19, T. 45 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
**San Miguel County**

**Vanura Claims**

**LOCATION:** sec. 11, T. 44 N., R. 18 W.

**QUAD** Hamm Canyon 7 1/2'

**MAP** MOAB

**PROD** As of 1971, 43 tons had been mined at a grade of 0.09% U3O8, producing 77 lbs of U3O8, and 1.11% V2O5, producing 958 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. limo.

**DOI** 1971


**Veta Med Mine**

**LOCATION:** sec. 19, T. 44 N., R. 18 W.

**QUAD** Horse Range Mesa 7 1/2'

**MAP** MOAB

**MNZ** Uranium, vanadium.

**DOI** 1975


**Victor**

**LOCATION:** sec. 7, T. 43 N., R. 16 W.

**LCRM** U.S. A.E.C. Production Records also show.

**QUAD** Gypsum Gap 7 1/2'

**MAP** MOAB

**PROD** As of 1971, 5 tons had been mined at a grade of 0.16% U3O8, producing 16 lbs of U3O8, and 1.45% V2O5, producing 145 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uranium, vanadium.

**DOI** 1971


**Vanadium 7**

**LOCATION:** sec. 23, T. 44 N., R. 17 W.

**LCRM** This deposit lies in the Uravan district.

**QUAD** Gypsum Gap 7 1/2'

**MAP** MOAB

**PROD** As of 1971, 30 tons had been mined at a grade of 0.18% U3O8, producing 110 lbs of U3O8, and 1.70% V2O5, producing 1,019 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**DOI** 1971


**Vanadium (Middle Group)**

**LOCATION:** sec. 31, T. 44 N., R. 18 W.

**LCRM** This deposit lies in the Slick Rock district.

**QUAD** Horse Range Mesa 7 1/2'

**MAP** MOAB

**PROD** As of 1971, 6 tons had been mined at a grade of 0.21% U3O8, producing 25 lbs of U3O8, and 0.84% V2O5, producing 101 lbs of V2O5.

**HOST** Jurassic Morrison Formation, Salt Wash Member.

**MNZ** Uranium, vanadium.

**DOI** 1971


**Vanadium Queen**

**LOCATION:** sec. 12, T. 44 N., R. 20 W.

**LCRM** U.S. A.E.C. Production Records show location as sec. 23, T. 47 N., R. 17 W (?); sec. 1-7, 30-36, T. 44 N., R. 19 W.

**QUAD** Mount Peale 4 SE 7 1/2'

**MAP** MOAB

**PROD** By 1971, 2,273 tons had been mined at a grade of 0.36% U3O8, producing 16,544 lbs of U3O8, and 1.23% V2O5, producing 56,024 lbs of V2O5.

**HOST** Jurassic Morrison Formation.

**MNZ** Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

**DOI** 1971

SAN MIGUEL COUNTY

Wally (Wally I, Double Jack, Double Buck)

LOCATION: sec. 14, T. 43 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 15.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 1,375 tons had been mined at a grade of 0.26% U3O8, producing 7,019 lbs of U3O8, and 1.76% V2O5, producing 48,280 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971

Weatherly Claims (Evans Claims, Black King No. 5)

LOCATION: T. 44 N., R. 11 W.
LCST UNLOCATABLE
QUAD Placerville 7 1/2'
MAP MOAB
HOST Triassic Dolores Formation and Permian Cutler Formation. Fault breccia and gauge in quartz conglomerate and sandy shale; with abundant hard "hydrocarbon" and sparse viscous asphalt.
MNZ Uranium, vanadium, uraninite, autunite, torbernite, coffinite, uranophane.
DOI 1975

Wedding Bell Group (Ground Hog Claims)

LOCATION: NE1/4 sec. 21, T. 45 N., R. 18 W.
LCRM Also sec. 16 and 22, Wedding Bell Mountain area, Bull Canyon district.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,530 tons of ore were mined at grades of 0.33% U3O8 and 1.5% V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971

White Star and Black King Claims

LOCATION: sec. 35, T. 44 N., R. 11 W.
QUAD Placerville 7 1/2'
MAP MOAB
HOST Triassic Dolores Formation & Permian Cutler Formation. Fault gouge in a conglomerate with abundant hard "hydrocarbon".
MNZ Uranium, vanadium, uraninite, coffinite.
DOI 1975

Wilmuth

LOCATION: sec. 24, T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB

PROD As of 1971, 143 tons had been mined at a grade of 0.11% U3O8, producing 318 lbs of U3O8, and 1.17% V2O5, producing 3,352 lbs of V2O5.
HOST Uranium, vanadium.
DOI 1971

Windswepth

LOCATION: sec. 15, T. 44 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 14, 22, 23.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 2,764 tons had been mined at a grade of 0.15% U3O8, producing 8,928 lbs of U3O8, and 0.99% V2O5, producing 54,527 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Windy Day (Bell)

LOCATION: sec. 8, T. 43 N., R. 16 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 506 tons had been mined at a grade of 0.21% U3O8, producing 2,167 lbs of U3O8, and 2.64% V2O5, producing 26,749 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnitite - tyuyamunite, high vanadium, low lime.
DOI 1971

Wyoming

LOCATION: This deposit lies in the Slick Rock district.
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 40 tons had been mined at a grade of 0.26% U3O8, producing 707 lbs of U3O8, and 1.86% V2O5, producing 1,468 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971

Yellow Girl

LOCATION: NE1/4 sec. 13, T. 44 N., R. 20 W.
DOI 1957

Yellow Girl (Lower Group)

LOCATION: NE1/4 sec. 13, T. 44 N., R. 13 W.
QUAD Oak Hill 7 1/2'
MAP MOAB
As of 1971, 349 tons had been mined at a grade of 0.20% U\textsubscript{3}O\textsubscript{8}, producing 1,428 lbs of U\textsubscript{3}O\textsubscript{8}, and 1.16% V\textsubscript{2}O\textsubscript{5}, producing 8,127 lbs of V\textsubscript{2}O\textsubscript{5}.

Jurassic Morrison Formation, Salt Wash Member.

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

1971


LOCATION: sec. 4, T. 43 N., R. 19 W.

Horse Range Mesa 7 1/2'

As of 1971, 3,802 tons had been mined at a grade of 0.31% U\textsubscript{3}O\textsubscript{8}, producing 23,521 lbs of U\textsubscript{3}O\textsubscript{8}, and 1.81% V\textsubscript{2}O\textsubscript{5}, producing 137,286 lbs of V\textsubscript{2}O\textsubscript{5}.

Jurassic Morrison Formation.

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

1971


LOCATION: sec. 19, T. 45 N., R. 18 W.

Anderson Mesa 7 1/2'

As of 1971, 13 tons had been mined at a grade of 0.30% U\textsubscript{3}O\textsubscript{8}, producing 79 lbs of U\textsubscript{3}O\textsubscript{8}, and 1.93% V\textsubscript{2}O\textsubscript{5}, producing 502 lbs of V\textsubscript{2}O\textsubscript{5}.

Jurassic Morrison Formation.

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

1971


LOCATION: sec. 15, T. 43 N., R. 16 W.

Dawson Drew 7 1/2' & McKenna Peak 7 1/2'

As of 1971, 28 tons had been mined at a grade of 0.07% U\textsubscript{3}O\textsubscript{8}, producing 41 lbs of U\textsubscript{3}O\textsubscript{8}, and 1.59% V\textsubscript{2}O\textsubscript{5}, producing 678 lbs of V\textsubscript{2}O\textsubscript{5}.

Jurassic Morrison Formation.

Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

1971

SEDGWICK COUNTY

There are no reported occurrences of uranium in this county.

The geology of the county is very simple, consisting of flat-lying Tertiary and Quaternary sediments.

Potential for uranium resources in the county is small. The Ogallala Formation is the most favorable unit in the county for such resources.
No recorded production of uranium is reported in Summit County. Only three occurrences of uranium have been reported in the county, and the validity of one is questionable.

Geologically, the county is quite complex. Its southern part lies astride the Colorado mineral belt in the Park Range and includes the mining districts of Breckenridge, Montezuma, and Kokomo. The northern half includes the Gore Range and the Williams Forks Mountains separated by the valley of the Blue River.

Precambrian, Palaeozoic, and Tertiary rocks are intermingled in all of the mountain ranges. Quaternary and Cretaceous rocks are found in the valley of the Blue River.

Potential for reserves to be found in the county appears to be small, due to the unfavorable host-rock types that occur in the county. Because of the complexity of structures and intrusions, the most likely occurrences that would be found in the county would be the vein-type or igneous-type.
Como Claims

LOCATION: sec. 30, T. 6 S., R. 77 W.
MAP LEADVILLE
MNZ Uranium.
DOI 1975

Loveland Pass

LOCATION: T. 4 S., R. 76 W.
LCST UNSURVEYED
LCRM Just west of Pass Lake.
MAP DENVER
HOST Precambrian Idaho Springs Formation and Precambrian granite.
STRC Area is in the Loveland Pass-Berthoud Pass shear zone with moderate to intense shear in the rocks of the area.
MNZ 0.031% to 0.964% U3O8 assay by Charlie Parker reported.
RMKS Claims located as the Tel, Pete, Nell and Sher Claims.
DOI 1977
REF Western Nuclear Inc. submittal file, 1977.

Unnamed No. 1

LOCATION: sec. 22, T. 6 S., R. 76 W.
MAP DENVER
RNG 2 x bg
STRC Fissure vein.
MNZ 0.027% eU3O8, cerussite, pyrolusite, limonite.
DOI 1955
Little uranium has been produced from Teller County. Records show that by 1971, 401 tons of ore were mined that yielded 1,226 lb of U₃O₈.

The geology of the county is not complex. It is almost entirely underlain by Precambrian igneous rocks, mostly the Pikes Peak Granite. Scattered volcanics are found in the southern part of the county, and some Tertiary lake beds lie along the western edge. A large graben near the town of Woodland Park has preserved Cambrian to Mississippian sediments. Uranium occurrences are recorded in most all these rock types, except for the Paleozoic sediments found in the graben.

Only five mines or prospects out of 13 total uranium occurrences in the county have recorded uranium production. All of these mines have produced from one formation, the Tallahassee Creek Conglomerate. The producing mines include Abril 2, 6, 8, Genevieve Lode, High Park Prospect, McVey Lease, and SWQ NEQ, sec. 36. Three of these producers are clustered in the southwestern corner of the county. One is on Grouse Mountain southwest of Victor. The other producing mine is near Rhyolite Mountain north of the town of Cripple Creek. These three producers all occur in the Tertiary Tallahassee Creek Conglomerate in an area known as High Park. This area was extensively explored in the 1950's, and recent exploration carried out by Cyprus Mines has found economic reserves at the High Park Prospect. In 1977 a small pilot open pit was under development at this site to test the feasibility of mining. Mining at High Park Prospect is planned to commence at the same time the Hansen Ore Body at Tallahassee Creek in Fremont County begins production.

The SWQ NEQ, sec. 36 mine on Grouse Mountain has produced approximately 1/6 percent of the recorded tonnage mined for uranium in the county. This mine also is reported to be in the Tallahassee Creek Conglomerate.

The last-mentioned producer is the Genevieve Lode north of Cripple Creek. It is reported to occur in Tertiary volcanics, tuffs, and in a conglomeratic sandstone possibly within the Tallahassee Creek Conglomerate.

The potential for more reserves to be found in the county is high. All producing mines in Teller County are within the Tallahassee Creek Conglomerate, which is the host for the large Hansen Ore Body in the Tallahassee Creek area. Therefore, this formation will become a high-priority exploration target. Other rock types showing potential are the Florissant lake beds. These sediments were explored near the towns of Divide and Lake George (Del Rio, 1960, p. 364) in the 1950's. Exploration was also carried out at these localities in 1976-77. It is very likely that these areas contain uranium reserves, but we were not able to document them. Another potential host for uranium resources in the county is the Mt. Rosa alkaline granite, a series of granitic bodies that extend from Teller into El Paso County. A number of occurrences associated with this granite are noted in El Paso County with one in Teller County. The areas where this granite is sheared and/or altered have potential for uranium occurrences and resources. For more information on this particular host see Murphy, H., Wollenberg, H., Strisow, B., and others, 1978, Uranium in Alkaline Rocks, U.S. Department of Energy GJBX07878(78), p. 60.

Uraninite and uranathorite are found in small pegmatites within the Pikes Peak Granite. However, these are too small to be considered economic.

In conclusion, rock types and structures in the county have potential for hosting uranium resources. The small historical production bolies the future potential for uranium resources in the county.
Teller County

April Nos. 2, 6, 8

LOCATION: NE1/4 sec. 30, T. 15 S., R. 70 W.
LCRM Occurrence is on Four Mile Creek 1/2 mile north of Booger Red Hill.
QUAD Cover Mountain 15°
MAP PUEBLO
PROD In 1961, 8 tons were mined at a grade of 0.185 U3O8, producing 29 lbs of U3O8.
HOST Oligocene Tallahassee Creek Conglomerate, conglomeratic sandstone associated with volcanics.
MNZ Autunite and uranium.
DOI 1973

Carl Claim No. 1

LOCATION: sec. ?, T. 15 S., R. 68 W.
LCST UNCERTAIN
LCRM The directions to claim are as follows:
"From the junction of S. Tejon St. and Cheyenne Blvd. in Colorado Springs go west on Cheyenne Blvd. for 2.9 miles and take a right fork onto Gold Camp Road. Proceed for 3.2 miles and take left fork toward Cripple Creek for 8.9 miles. Now take a left fork for .4 mile and a right fork for 3.2 miles. Then take left fork for 0.15 mile and a right fork onto work road for .7 mile. Park and go up hill in direction of N41°W for 350 yds to claim".
QUAD Pikes Peak 7 1/2°
MAP PUEBLO
BKG .08 mr/hr
RNG .08 to 4.8 mr/hr
HOST Coarse-grained, almost pegmatitic Precambrian Pikes Peak Granite.
MNZ No radioactive minerals were observed.
DOI 1954

Curtis, Thorpe & Green Lease (Tree No. 3)

LOCATION: E1/2 sec. 25, T. 15 S., R. 71 W.
LCRM Not same as Sand Creek No. 4. (U.S. A.E.C. note).
HOST Arkosic sandstone in Oligocene Tallahassee Creek Conglomerate.
MNZ Uraninite.
DOI 1971

Fluorine Mine

LOCATION: sec. ?, T. 15 S., R. 70 W.
LCST UNCERTAIN
MAP PUEBLO
RNG 5 x bg.
HOST Replacement in Tertiary phonolite and phonolite breccia.
MNZ Gold, silver, no uranium observed.
DOI 1950

Genevieve Lode (Phonolite Mountain)

LOCATION: SE1/4 sec. 19, T. 14 S., R. 69 W.
QUAD Cripple Creek North 7 1/2°
MAP PUEBLO
PROD In 1957 and 1958, a total of 5 tons were mined at a grade of 0.44% U3O8, producing 44 lbs of U3O8 and 0.02% Y2O5, producing 2 lbs of V2O5.
HOST Tertiary volcanics and welded tuffs associated with conglomeratic sandstone (probably Oligocene Tallahassee Creek Conglomerate).
MNZ Autunite identified on fractures.
DOI 1971

High Park Prospect

LOCATION: N1/2 sec. 31, T. 15 S., R. 70 W.
LCRM On High Creek 1 mile south of the April Mine.
QUAD Cover Mountain 15°
MAP PUEBLO
DVEL There is a small open pit.
PROD Prior to 1971, 46 tons were mined averaging .13% U3O8 and containing 115 lbs of U3O8.
HOST Oligocene Tallahassee Creek Conglomerate.
MNZ Autunite, saleelite, sabugalite (a uranium bearing titanium oxide) were identified in oxidized ores. Uraninite was identified in unoxidized ores.
DOI 1977

Hilda May Claim No. 3

LOCATION: sec. 22, T. 11 S., R. 71 W.
LCST UNCERTAIN
QUAD Hackett Mtn. 7 1/2°
MAP DENVER
BKG .02 mr/hr
RNG .02 to .45 mr/hr
HOST Pegmatite in Precambrian Pikes Peak Granite.
STRC Pegmatite strikes NW.
MNZ Quartz, biotite, feldspar, fluorite, lepidolite, thorium? No radioactive minerals identified.
DOI 1955

Lady Stith Claim (Globe Hill Group)

LOCATION: sec. 18, T. 15 S., R. 69 W.
LCST UNCERTAIN
LCRM Two shafts and underground workings which were inaccessible in 1955. There was substantial gold production prior to 1902.

453
DVEL There has been no uranium production. There was an estimated reserve of 12 tons at a grade of 0.24% U3O8 stockpiled.
BKG .05 mr/hr
RNG .15 to 4.0 mr/hr
HOST Tertiary volcanic breccia intruded by a phonolite or basic dike.
STRC Uranium occurs in a shear zone at the contact between the breccia and altered zone. Uraniferous zone is 4-8 in. wide with a strike length of 5 ft.
ALT "Talc and Kaolinite in strangely altered zone."
MNZ Tyuyamunite, fluorite, talc, kaolinite, gypsum. A 1-ft channel sample assayed 0.44% eU3O8.
RMKS This claim is a patented claim. Patent number is 7686.
DOI 1955

McVey Lease
LOCATION: NE1/4 sec. 25, T. 15 S., R. 71 W.
QUAD Cover Mountain 15'
MAP PUEBLO
DVEL Adit with small workings.
PROD In 1939, 37 tons averaging 0.10% U3O8 and containing 73 lbs of U3O8 were mined.
HOST Conglomeratic sandstone associated with volcanics in the Oligocene Tallahassee Creek Conglomerate.
MNZ Uraninite.
DOI 1971

Rhyolite Mountain
LOCATION: SW1/4NE1/4 sec. 36, T. 15 S., R. 70 W.
QUAD Cripple Creek
MAP PUEBLO
DVEL Drilling has been carried out by a major company on the property.
BKG Rhyolite 100-150 cps
RNG 500-1000 cps
HOST Tertiary altered rhyolite plug.
ALT Bleached
MNZ Autunite and torbernite associated with fluorite. (Pods 3 ft across in area of much clay. Area nearby has petrified wood per Comm. Nate Salo).
DOI 1977

School Section (Park City No. 1)
LOCATION: NE1/4NE1/4 sec. 36, T. 15 S., R. 71 W.
QUAD Cover Mountain 15'
MAP PUEBLO
PROD No production reported, drilled out ore body.
HOST Tertiary conglomeratic sandstone associated with volcanics (Tallahassee Creek Conglomerate).
MNZ Uraninite, average depth to ore 40 ft.
WASHINGTON COUNTY

Neither uranium production nor occurrences have been reported from this county. The county is underlain by flat-lying Quaternary and Tertiary sediments. Potential for uranium resources within the county is small, but the most favorable unit for occurrences is the Tertiary Ogallala Formation, which outcrops in the eastern area of the county.
WELD COUNTY

No production of uranium from Weld County has taken place to date. Production will begin in the near future as Power Resources Corporation and Wyoming Minerals Corporation develop their in-situ leach project near the communities of Grover and Keota.

Weld County is in northeastern Colorado in the Great Plains Province. Upper Cretaceous sedimentary rocks dip gently southwest into the Denver Basin. The bedrock formations are mantled extensively by Tertiary gravels and clays and Quaternary eolian sands and valley-fill deposits.

Exploration in the northern part of the Denver Basin for uranium has been underway since 1970. Occurrences in outcrops of the Laramie Formation caused accelerated exploration, and subsequent wide-spaced drilling discovered several deposits. These deposits occur in what may be unaltered beach sands in the Laramie Formation, very similar to the uranium deposits in Texas. The deposit near Grover was chosen as an in-situ leach test site. The pilot test of this program is in operation at this time. Reserves at the Grover site have been reported to be about 1,000,000 lb of U₃O₈ (Reade, H. L., 1976). Other deposits of this type will likely be discovered in the county. The 30 occurrences in the county almost all lie in the Laramie or Fox Hills Formations.
Grover Deposit

LOCATION: sec. 27, T. 9 N., R. 65 W.
LCRM Other anomalies in sec. 28, 33, 34.
QUAD Antelope Reservoir 7 1/2' northeast.
MAP GREELEY
BKG 100 cps
RNG 1100 cps or 11 x bg.
HOST Cretaceous Laramie Formation.
ALT Heavy Fe and Mn staining in the sands.
RMKS These were some of the first finds of anomalies when the Grover anomaly was discovered. Radioactive anomalies in stream valleys and irrigation ditches.

SOLOMON
LOCATION: sec. 24, T. 10 N., R. 62 W.
LCRM See also sec. 23, 25, 36.
HOST Sandstone, gray, medium- to fine-grained, quartzose, micaceous, in part carbonaceous, in the Upper Cretaceous Fox Hills Sandstone and Laramie Formation.
RMKS Exploration was carried out extensively in this area 1970-1973 by Hyland Nuclear and Trend Exploration Limited. Development now being carried out by Power Resources Corp. and Wyoming Mineral Corp. Several deposits reported found by drilling in the area. This deposit is being tested for possible solution mining.

Indian Creek

LOCATION: sec. 19, T. 10 N., R. 67 W.
HOST Sandstone, gray, medium- to fine-grained, quartzose, micaceous, in part carbonaceous, in the Upper Cretaceous Fox Hills Sandstone and Laramie Formation.
RMKS Exploration was carried out extensively in this area 1970-1973 by Hyland Nuclear and Trend Exploration Limited. Development now being carried out by Power Resources Corp. and Wyoming Mineral Corp. Several deposits reported found by drilling in the area. This deposit is being tested for possible solution mining.
unnamed no. 7
location: se1/4 sec. 4, t. 9 n., r. 65 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 8
location: sw1/4 sec. 3, t. 9 n., r. 65 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 9
location: sw1/4 sec. 22, t. 10 n., r. 65 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 10
location: se1/4 sec. 19, t. 10 n., r. 65 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 11
location: ne1/4 sec. 15, t. 9 n., r. 65 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 12
location: nw1/4 sec. 34, t. 9 n., r. 65 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 13
location: sw1/4 sec. 22, t. 9 n., r. 64 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 14
location: ne1/4 sec. 27, t. 9 n., r. 64 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 15
location: se1/4 sec. 10, t. 8 n., r. 64 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 16
location: nw1/4 sec. 24, t. 8 n., r. 64 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 17
location: se1/4 sec. 28, t. 8 n., r. 64 w.
map greeley
host cretaceous lance formation, equivalent to fox hills formation at base.
rmks no radioactivity range given - merely noted as a "sand outcrop with uranium showings".
doi 1977
ref ken holmes, mobil oil corp., 1977, personal communication.

unnamed no. 18
Held County

Unnamed No. 19
LOCATION: NW1/4 sec. 24, T. 8 N., R. 64 W.
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 20
LOCATION: NW1/4 sec. 4, T. 9 N., R. 63 W.
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 21
LOCATION: SE1/4 sec. 10, T. 9 N., R. 63 W.
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 22
LOCATION: SI/2 sec. 14, T. 9 N., R. 63 W.
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 23
LOCATION: NE1/4 sec. 4, T. 8 N., R. 62 W.
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Wildhorse
LOCATION: sec. 20, T. 9 N., R. 63 W.
MAP GREELEY
MNZ Uranium.
DOI 1975
YUMA COUNTY

There has been no production of uranium from Yuma County, nor are any occurrences reported.

The geology of the county is simple, consisting of flat-lying Quaternary, Tertiary, and Cretaceous sediments.

Potential for uranium resources in the county is small. The Tertiary Ogallala Formation is the most favorable unit for uranium occurrences.
PART TWO

Bibliography
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Introduction

This bibliography is a compilation of references dealing with radioactive occurrences and radioactivity in Colorado. We have attempted to make it complete as of approximately October 1977, with more recent references added as they came to our attention. Obviously a "complete" bibliography is virtually impossible, but this work is as comprehensive as we could achieve within the given time constraints. Readers' contributions of any additional references will be added to our files.

DESCRIPTION OF COMPILATION METHODS, STYLE AND FORMAT

References were compiled from a large variety of sources and entered in a standard format onto a mini-computer. The format chosen was taken from "Suggestions to Authors", 5th edition, 1958, by the U.S. Geological Survey. The references are arranged alphabetically by the first author's last name, and then by additional authors where they exist. This alphabetization was done by computer and carries to additional authors where they exist. This alphabetization was done by computer and carries to the beginning of the bibliography, title of the article, publication source, and number of pages:


The names of serial publications are abbreviated but are listed in full in the serials list at the beginning of the bibliography. Cross-references, where known to us, are shown in parentheses with each reference (see example), so that if one publication is unobtainable, the same or similar information may be found in another journal or book.

DESCRIPTION OF SOURCES

Sources of information include published and unpublished bibliographies, computerized bibliographic searches, state and federal libraries and librarians, and miscellaneous references furnished by many people who have helped in completing the project. The U.S. Geological Survey Library in Lakewood, Colorado was the main reference facility used, with some additional work done at the Department of Energy Library in Grand Junction, Colorado and at the Colorado State Library in Denver, Colorado. The primary literature sources include:


Lockheed DIALOG System Data Bases

# 6: NTIS 1964-1976
# 34: SCISEARCH 74-76
# 35: DISSERTATIONS Nov. 76
# 8: ENGR INDEX 70-76/NOV
# 40: ENVIROLINE OCT 76


Oak Ridge Retrieval, February, 1977, Ecological Sciences Information Center of Oak Ridge National Laboratory, retrieval of information on uranium and thorium in Colorado and RECON printouts from the ERDA Energy Data Base and Nuclear Science Abstracts.


Several types of references need some explanation for those who are not already familiar with them. These include Trace Elements Investigations Reports (TEI), Trace Elements Memorandum Reports (TEM), Raw Materials Exploration Reports (RME) and Raw Materials Operations Reports (RMO).

Trace Elements Investigations reports (TEI) and Trace Elements Memorandum reports (TEM) resulted from investigations conducted by the U.S. Atomic Energy Commission and/or the U.S. Geological Survey, primarily during the 1950's. Raw Materials Exploration Reports (RME) and Raw Materials Operations Reports (RMO) were issued by the Division of Raw Materials of the Atomic Energy Commission. All of these reports concerned investigations of and for defense-related minerals--primarily uranium, thorium, and beryllium. The reports were not originally intended for public inspection and were considered "classified" or for "official use only". When information contained in these reports was to be made public, it was published in journal articles or other forms such as U.S. Geological Survey Circulars, Bulletins, Professional Papers, and Open-file reports. Where known, the reference to the published form of these previously classified reports is given as a note following each individual reference in this bibliography.

In 1975 the U.S. Geological Survey reviewed and declassified many of the older TEM's and TEM's. However, some 350 of these reports remained classified as "official use only". In response to requests resulting from this current study, the majority of the remaining 350 classified reports are being or have been declassified. Microfiche copies of these will soon be available for public inspection at various federal government depositories. Since declassification is nearing completion, we have included references to these reports.

**USE OF THE BIBLIOGRAPHY**

The bibliography volume is broken into two major sections: the bibliographic references and the cross-indexes. The references are presented first and have already been described partially as to style and format. The cross-indexes follow the references and are divided into the general categories of county and host rock, and the special categories of "Colorado Plateau", "Front Range", and "Thorium".

The bibliography primarily includes references to specific information on uranium or other radioactive minerals in Colorado. Some reports, however, contain only general reference to uranium and uranium geology, applicable to Colorado as well as to other uranium-producing states. A few references contain no information on uranium but deal with geographic areas or deposits in which uranium has been found in significant amounts.

Keywords were assigned to each reference in the bibliography and were determined by consulting the individual reports or their abstracts when possible. Most of the reports deal with specific deposits or localities within Colorado and, therefore, include information on counties and host rocks. All reports were specifically keyworded and cross-indexed for these two subjects, with additional keywords added as known and appropriate. The generalized host rock type names which were used for the cross indexing include:

- coal, shale
- igneous-metamorphic
- limestone, phosphorite
- sandstone, siltstone
- spring deposits, groundwater
If the report was unlocatable or unobtainable, the keywords were taken from the title of the report.

Some reports of a general nature discuss only such larger provinces as the "Colorado Plateau" or the "Front Range" and do not cite specific counties or host rocks. These reports were included in the cross-index as special categories since they are major uranium provinces in Colorado. When specific locations could be inferred from these general citations, the appropriate county and host-rock keywords were added to facilitate retrieval by the cross-indexes.

Stratigraphic nomenclature used in keywording is taken from many sources and from references written over a period of years; therefore, certain nomenclature may be outdated. We sought to make the names consistent as the entries were keyworded. As a result, names like "Entrada sandstone", "Entrada Formation", "Entrada Sandstone", and "Entrada formation" have all been standardized to "Entrada Sandstone" in the keywording. Also, if old nomenclature was used in the reports, and if the currently accepted formation names were known, both terms were used in keywording the entries.

To use the cross-indexes, first look for the county, host rock, or special category in which you are interested. For example, if you want information on Lake County, turn to the cross-index for Lake County to find:

LAKE COUNTY

Pierson, C. T., and Singewald, Q. D., 1953, Sugar Loaf district/St. Kevin district/Lake County/igneous-metamorphic/

This report discusses deposits in Lake County, with information on all of the other subjects in the keywords. Note that this reference would also be listed under the host-rock cross-index for "igneous-metamorphic". If the subjects listed within the keywords describe a reference of interest, turn to the bibliography and look for the author's name(s):


This reference is one of the TEI's, which are sometimes difficult to obtain. In this case, because of the cross-reference, the U.S. Geological Survey Bulletin that should contain similar or identical information can easily be obtained from any major library.

We hope that you will find the bibliography and cross-indexes both useful and easily useable, as these were two of the major goals in compiling them. If the general features and limitations of each are kept in mind, we think that they can be valuable tools for geologists, explorationists, planners, government officials, students, and many others, for years.
Serials List


Am. Inst. Mining Eng. Trans. ............. American Institute of Mining Engineers Transcript.


Arch. Ind. Health .......................... Archives of Industrial Health.


Atom - U.S. .................................. Atom - United States.

Austria, Z. Bergwirtsch. Huetteniwoes ... Austria, Z. Bergwirtsch. Hue Hen'wes.


California Inst. Technology ............. California Institute of Technology.


Canadian Mineralogist .................... Canadian Mineralogist.


Chem. Abs. .................................. Chemical Abstracts.

Chemical News ............................. Chemical News.

Chemikerzeitung .......................... Chemikerzeitung.

Colorado Basic Data Report ............. Colorado Basic Data Report.


Colorado Magazine ....................... Colorado Magazine.

Colorado Metal Mining Fund ............. Colorado Metal Mining Fund.
Colorado Mineral Resources Board ................. Colorado Mineral Resources Board.
Colorado Mining Assoc. Mining Yearbook .......... Colorado Mining Association Mining Yearbook.
Colorado Mining Assoc., Nat'l. Western Mining Conf. Trans. ..................................... Colorado Mining Association, National Western Mining Conference Transcript.
Compass .............................................. Compass of Sigma Gamma Epsilon. Lawrence, Kansas.
Comptes Rendus ........................................ Comptes Rendus.
Dallas Dig. ............................................ Dallas Digest.
Denver Magazine ....................................... Denver Magazine.
Explosives Engineer ..................................... Explosives Engineer.
Four Corners Geol. Soc. Field Conf. ................. Four Corners Geological Society Field Conference.
Geol. Soc. America Abs. with Programs ............ Geological Society of America, Abstracts with Programs.
Globus .................................................. Globus.
Health Physics ......................................... Health Physics.
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<tr>
<td>Isochron West</td>
<td>Isochron/West; a Bulletin of Isotopic Geochronology. Socorro, New Mexico.</td>
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<td>Jour. Geology</td>
<td>Journal of Geology.</td>
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<td>Metallurgia</td>
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<td>Mine &amp; Quarry Eng.</td>
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<td>Mining World</td>
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<td>Moscow Atomizdat</td>
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<td>New Mexico Univ. Pubs. Geology</td>
<td>New Mexico University Publications Geology.</td>
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<td>NSA</td>
<td>Nuclear Science Abstracts.</td>
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<td>Nuclleonics</td>
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<td>Oak Ridge National Lab. ORNL</td>
<td>Oak Ridge National Laboratory. Oak Ridge, Tennessee.</td>
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<td>Oil and Gas Jour.</td>
<td>Oil and Gas Journal. Tulsa, Oklahoma.</td>
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<td>Ores and Metals</td>
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<td>Pan-American Geology</td>
<td>Pan America Geology. Des Moines, Iowa.</td>
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<td>Precambrian</td>
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<td>Science</td>
<td>Science (American Association for the Advancement of Science). Washington, D.C.</td>
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</table>
Ser. Hydro, France, Office Recherches Sci.


Soil Sci. Soil Science, Williams & Wilkins Co., Baltimore, Maryland.

U. K. Atomic Energy Authority United Kingdom Atomic Energy Authority.

Uranium Uranium Publications.


U.S. Environmental Protection Agency Cont. U.S. Environmental Protection Agency, Conference.
U.S. Environmental Protection Agency, Office Water Program U.S. Environmental Protection Agency, Office Water Program.
U.S. Environmental Protection Agency PB U.S. Environmental Protection Agency Report PB.
U.S. Environmental Protection Agency Radiation Data and Repts. U.S. Environmental Protection Agency Radiation Data and Reports.
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soils/Adams County/ground control/radioelements/composition/radioelement concentration/

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basalt/spectroscopy/Cenozoic rocks/potassium/thorium/uranium/Rio Grande depression/New Mexico/geochemistry/ore composition/Baca County/Las Animas County/igneous-metamorphic/Conejos County/Costilla County/Rio Grande County/Alamosa County/

ALAMOSA COUNTY

arkose/uranium/ore deposits/exploration/aerial prospecting/reconnaissance/El Paso County/Denver basin/Dawson Arkose/sandstone/Arapahoe County/Elbert County/Douglas County/

Colorado/Wyoming/Utah/field trip/guidebook/Tertiary/Cretaceous/energy resources/uranium/sandstone/ore deposits/oil/gas/oil shale/coal/Denver basin/Dawson Formation/Laramie Formation/Dakota Sandstone/Morrison Formation/Weld County/Douglas County/Arapahoe County/Elbert County/Rocky Mountains/
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Morrison Formation/Colorado Plateau/sandstone/Moffat County/Rio Blanco County/Garfield County/Delta County/Montrose County/San Miguel County/Dolores County/Montezuma County/La Plata County/Archuleta County/Mesa County/stratigraphy/Glen Canyon group/San Rafael group/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/Morrison Formation/Mesa County/stratigraphy/Glen Canyon group/Montezuma County/Delta County/San Rafael group/Dolores County/Gunnison County/Montrose County/sandstone/Moffat County/Ouray County/San Juan County/San Miguel County/La Plata County/Rio Blanco County/Garfield County/Archuleta County/
Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/shale/reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/Shale/ Front Range/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1959
stratigraphy/ Cretaceous/ Jurassic/ sandstone/ conglomerate/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan basin/

Fassett, J. E., and Hinds, J. S., 1971
géology/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Río Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Morrison County/ Río Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Uranium mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Río Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/

Hess, F. L., 1914
genesis/ carnitite/ Colorado/ uranium/ vanadium/ Río Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hunt, C. B., 1956
Cenozoic/ géology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Colorado Plateau/ Río Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formation environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Río Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Río Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Río Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ igneous-metamorphic/

Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Río Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Utah/ Colorado Plateau/ igneous-metamorphic/

571
Kerr, P. F., 1958
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/

McMillan, W. D., 1960
minerals/ resources/ Colorado/ New Mexico/ sandstone/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan irrigation project/ Chama irrigation project/
ARCHULETA COUNTY

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

BACA COUNTY

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

basalt/ spectroscopy/ Cenozoic rocks/ potassium/ thorium/ uranium/ Rio Grande depression/ New Mexico/ geochemistry/ ore composition/ Baca County/ Las Animas County/ igneous-metamorphic/ Conejos County/ Costilla County/ Rio Grande County/ Alamosa County/

Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ BENT COUNTY

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Landis, E. R., 1961
ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/
Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ Bent County/ reconnaissance/ ore deposits/ sandstone/ radioactivity/

BOULDER COUNTY
Anonymous, 1920
ore deposits/ resources/ pitchblende/ Boulder County/ igneous-metamorphic/ Front Range/

Anonymous, 1950
development/ Boulder County/ igneous-metamorphic/ Caribou mine/

Anonymous, 1950
Boulder County/ igneous-metamorphic/ Caribou mine/ development/ Front Range/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Bastin, E. S., and Hill, J. M., 1951
Gilpin County/ igneous-metamorphic/ Boulder County/ Quartz Hill/ gold/ silver/ uranium/ copper/ tungsten/ Front Range/ ore deposits/ Clear Creek County/

Beroni, E. P., Granger, H. C., and King, R. U., 1950
Jamestown district/ Boulder County/ fluorite deposits/ Argo mine/ Blue Jay mine/ Burlington mine/ Emmett mine/ General Chemical fluorite deposit/ igneous-metamorphic/ radioactivity/ ore deposits/ Front Range/ Williamson fluorite deposit/

Bieniewski, C. L., Persse, F. H., and Brauch, E. F., 1971
Colorado Plateau/ Rifle district/ Front Range/ Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/

Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Bray, J. M., 1942
fluorite/ Jamestown district/ Boulder County/ Front Range/ veins/ igneous-metamorphic/ chemistry/ minor elements/

Brinkworth, G. L., 1974
geophysical investigations/ Front Range/ mineral

Campbell, R. H., 1953
Gold Hill district/ Boulder County/ zoning/ igneous-metamorphic/ Black Cloud mine/ pitchblende/ reconnaissance/ Front Range/ ore deposits/

Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/ petrology/ geochemistry/ breccia reefs/ zoning/ Front Range/ pitchblende/ schroeckingerite/ torbernite/ Black Cloud mine/ Goldsmith Maid vein/ Snowbound mine/ reconnaissance/ veins/ igneous-metamorphic/

Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/ petrology/ geochemistry/ breccia reefs/ zoning/ Front Range/ veins/ pitchblende/ schroeckingerite/ torbernite/ Black Cloud mine/ Goldsmith Maid vein/ Snowbound mine/ reconnaissance/ veins/ igneous-metamorphic/

Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/

Finch, W. L., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fraser, G. D., 1948
Coal Creek Quartzite/ igneous-metamorphic/ Jefferson County/ Boulder County/ Front Range/

Gable, D. J., 1969
geology/ Nederland quadrangle/ Boulder County/ Gilpin County/ igneous-metamorphic/ ore deposits/ Caribou district/ veins/ map/ Caribou mine/ Front Range/

George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnotite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

Goddard, E. N., 1946
Boulder County/ veins/ igneous-metamorphic/ fluorite/ Tertiary intrusions/ Jamestown district/ ore deposits/ fluor spar/ Front Range/

Goddard, E. N., and Glass, J. J., 1940
radioactive cerite/ Jamestown district/ ore deposits/ igneous-metamorphic/ uranium/ Boulder County/ geology/ mineralogy/ chemistry/ Front Range/ Precambrian rocks/

Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/

Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/

Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/ Jefferson County/ Clear Creek County/ Gilpin County/ Pikes Peak batholith/ Log Cabin batholith/ Boulder Creek batholith/ igneous-metamorphic/ Boulder County/

Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/
Boulder County

Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/ Jenkins, E. D., 1961
records/ logs/ wells/ test holes/ chemical analyses/ radiometric analyses/ ground water/ Boulder area/ Boulder County/ Front Range/ Kaiser, E. P., King, R. U., 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/ Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
Kerr, P. F., 1950
uraninite/ Canada/ Idaho/ Lake Superior/ Caribou mine/ Wood's Hole/ Colorado/ Radium vein/ Boulder County/ igneous-metamorphic/ Front Range/ mineralogy/ veins/ ore deposits/ Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/ Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/ King, R. U., 1950
Boulder County/ pitchblende/ veins/ igneous-metamorphic/ Precambrian rocks/ Caribou mine/ geology/ ore deposits/ No Name vein/ Radium vein/ silver/ uranium/ lead/ zinc/ analyses/ Front Range/ King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ B. B. County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/ King, R. U., 1952
ore deposits/ Boulder County/ Caribou mine/ veins/ No Name vein/ Radium vein/ uranium/ geology/ igneous-metamorphic/ Front Range/ pitchblende/ King, R. U., 1952
uranium/ veins/ Caribou mine/ Boulder County/ Front Range/ igneous-metamorphic/ pitchblende/ ore deposits/ geology/ King, R. U., 1953
reconnaissance/ Front Range/ igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/ King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/ King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/ King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore deposits/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/
Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS imagery/
Boulder County

Jefferson County/ Boulder County/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ igneous-metamorphic/

Larsen, E. S., 3d, 1957 analyses/ Colorado/ Wyoming/ Montana/ quartz monzonite/ granite/ Log Cabin batholith/ solubility/ uranium/ thorium/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Sherman batholith/ igneous-metamorphic/

Leonard, B. F., 3d, 1952 Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/

Leonard, B. F., 3d, 1952 veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ igneous-metamorphic/

Lester, O. C., 1918 springs/ radioactivity/ mineral springs/ Colorado/ spring deposits/ Delta County/ Boulder County/

Lovering, T. S., 1942 Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/

Lovering, T. S., and Goddard, E. N., 1938 Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/

Malloy, N. S., and Bird, A. G., 1953 exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951 geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

Merritt, P. L., 1950 uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
BOULDER COUNTY

Jamestown district/ Lawson area/ Quartz Hill area/ fluorite deposits/ Calhoun mines/ Caribou mines/ Jo Reynolds mine/ Kirk mine/ Wood mine/ pitchblende/ breccia deposits/ igneous-metamorphic/ exploration/

Moore, G. W., 1953
Boulder County/ Centennial coal mine/ Crested Butte/ Rio Blanco County/ uranium/ coal/ Gunnison County/ aqueous solutions/ uranium extraction/ Kebler mine/

Moore, G. W., 1954
uranium extraction/ uranium/ coal/ Boulder County/ Centennial coal mine/ Crested Butte/ Kebler mine/ Rio Blanco County/ Gunnison County/ aqueous solutions/

Neuerburg, G. J., 1967
Boulder County/ Caribou stock/ accessory minerals/ magnetite/ zircon/ sulfides/ igneous-metamorphic/ uranium/ Front Range/

Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/

Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/

Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/

Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/ structural controls/ tectonic patterns/ Front Range/ Denver basin/ uranium/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ Larimer County/

Phair, George, 1953
Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/ pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Chrome Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/

Phair, George, 1955
ore deposits/ mineralization/ igneous-metamorphic/ thorium/ analyses/ granite/ Front Range/ Boulder Creek batholith/ Sherman granite/ Pikes Peak granite/ New Hampshire/ Boulder County/

Phair, George, 1956
Colorado/ New Hampshire/ ore deposits/ geochemistry/ igneous rocks/ igneous-metamorphic/ Precambrian rocks/ granite/ Boulder Creek batholith/ Silver Plume granite/ Front Range/ Boulder County/

Phair, George, 1958
uranium/ thorium/ intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/

Phair, George, and Gottfried, David, 1955
Front Range/ Boulder Creek batholith/ Silver Plume/ ore deposits/ uranium/ Precambrian rocks/ granite/ igneous-metamorphic/ thorium/ Boulder County/

Phair, George, and Gottfried, David, 1958
fractionation/ uranium/ rocks/ minerals/ Boulder Creek batholith/ igneous-metamorphic/ Front Range/ Boulder County/

Phair, George, and Gottfried, David, 1958
zircon/ Boulder Creek batholith/ Front Range/ igneous-metamorphic/ granite/ uranium/ Precambrian rocks/ age dates/ ore deposits/ Boulder County/

Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/

Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ isotopic variation/ igneous-metamorphic/

Phair, George, and Onoda, Kiyoko, 1950
Boulder County/ Jamestown district/ ore deposits/ mineralogy/ petrology/ geochemistry/ uraninite/ Blue Jay mine/ igneous-metamorphic/ Front Range/ fluorite/ veins/ fluorite breccias/

Phair, George, and Onoda, Kiyoko, 1951
Jamestown district/ Boulder County/ ore deposits/ hydrothermal uranothorite/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ thorium/ haloes/ Blue Jay mine/ igneous-metamorphic/ Front Range/
Phair, George, and Shimamoto, K. O., 1952
veins/ hydrothermal uranorthite/ Blue Jay mine/ Jamestown district/ Boulder County/ thin sections/ heavy minerals/ New Zealand/ Alaska/ comparisons/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ haloes/ Front Range/ igneous-metamorphic/

Ridland, G. C., 1950
veins/ ore deposits/ pitchblende/ Boulder County/ Caribou mine/ radioactivity/ No Name vein/ Radium vein/ igneous-metamorphic/ Front Range/ silver/

Ridland, G. C., 1951
ore deposits/ pitchblende/ Boulder County/ Caribou mine/ radioactivity/ No Name vein/ Radium vein/ igneous-metamorphic/ Front Range/ silver/

Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/ gamma-ray detectors/ sandstone/ Front Range/ instrumentation/ Morrison Formation/ Salt Wash Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ igneous-metamorphic/ Entrada Sandstone/

Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ igneous-metamorphic/

Sims, P. K., 1963
gEOLOGY/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fal River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

gEOLOGY/ ore deposits/ Front Range/ genesis/ mineralogy/ analyses/ emission spectroscopy/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/

Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/ uranium/ veins/ Front Range/ Boulder County/ Larimer County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ ore deposits/

Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/

Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/

Tovote, W. L., 1906
Boulder County/ igneous-metamorphic/ Front Range/

Trautwein, C. M., 1975
Precambrian rocks/ stratigraphy/ structure/ metamorphic petrology/ Eldorado Springs quadrangle/
Ralston Buttes quadrangle/ Jefferson County/ Boulder County/ Front Range/ igneous-metamorphic/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/ radioactivity/ Boulder County/ Front Range/ ore deposits/ reconnaissance/ igneous-metamorphic/ sandstone/

U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/

Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamastown district/ Cochetopa district/ Powderhorn district/ Placerville district/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leadville coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/

Wallace, S. R., and Campbell, R. H., 1953
Gold Hill/ ore deposits/ zoning/ Boulder County/ metalliferous districts/ igneous-metamorphic/ Front Range/

ore deposits/ zoning/ Gold Hill/ Boulder County/ igneous-metamorphic/ Front Range/

veins/ Colorado/ Arizona/ ore deposits/ exploration/ zoning/ metalliferous deposits/ Gold Hill/ Boulder County/ igneous-metamorphic/ Front Range/

Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/ Freeland-Lamartine district/ Front Range/ Georgetown district/ Silver Plume district/ Idaho Springs district/ Lawson- Dunton district/ igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/

Wells, J. D., 1967
geology/ Eldorado Springs quadrangle/ Boulder County/ Jefferson County/ igneous-metamorphic/ Front Range/

Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and Wyant, D. G., 1951
uranium/ fluorite/ ore deposits/ ore classification/ Front Range/ Boulder County/ igneous-metamorphic/ veins/

Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and others, 1952
veins/ fluorite/ uranium/ Front Range/ Boulder County/ ore deposits/ igneous-metamorphic/ mineral association/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/

Wood, J. R., 1912
vanadium/ Boulder County/ igneous-metamorphic/ Front Range/

Wright, H. D., 1950
ore deposits/ radium/ veins/ wall-rock alteration/
Boulder County

Caribou mine/ Radium vein/ igneous-metamorphic/ uraninite/ Front Range/ Boulder County/

Wright, H. D., 1951
ore deposits/ paragenesis/ Boulder County/ Caribou district/ Radium vein/ igneous-metamorphic/ uraninite/ silver/ Caribou mine/ Front Range/ veins/

Wright, H. D., 1951
Canada/ Ontario/ ore deposits/ uraninite/ Caribou mine/ alteration/ Boulder County/ paragenesis/ Front Range/ igneous-metamorphic/

Wright, H. D., 1954
ore deposits/ uraninite/ mineralogy/ Boulder County/ silver/ Radium vein/ uranium/ veins/ wall-rock/ igneous-metamorphic/ geochemistry/ Caribou mine/ Front Range/ Caribou district/

Wright, H. D., and Shuhof, W. P., 1957
veins/ sulfide minerals/ Front Range/ Boulder County/ igneous-metamorphic/ ore deposits/

Wyant, D. G., 1949
Boulder County/ Wheelman (mine) tunnel/ pegmatites/ igneous-metamorphic/ Precambrian rocks/ granite/ gold/ wolframite/ veins/ Front Range/ analyses/

Chaffee County

Adams, J. W., 1948
Chaffee County/ Gunnison County/ Mount Antero/ igneous-metamorphic/ beryl/ beryllium/ White Mountain/

Adams, J. W., 1951
Chaffee County/ Carbonate Mountain/ Garfield quadrangle/ Mount Antero region/ brannerite/ California mine/ veins/ molybdenum/ pegmatites/ igneous-metamorphic/ aquamarine/ White Mountain/ granite/ quartz monzonite/ beryllium/

Adams, J. W., 1953
veins/ pegmatite/ quartz/ beryllium/ Mount Antero/ White Mountain/ granite/ quartz monzonite/ California mine/ brannerite/ aquamarine/ molybdenum/ Chaffee County/ igneous-metamorphic/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

De Voto, R. H., 1961
South Park/ Park County/ sandstone/ Chaffee County/ geology/ ore deposits/

De Voto, R. H., 1971
South Park/ Park County/ Chaffee County/ sandstone/ geology/ geologic history/ Antero Reservoir quadrangle/ ore deposits/

Dings, M. G., 1952
Garfield quadrangle/ Taylor Park quadrangle/ Chaffee County/ Gunnison County/ Bon Ton mine/ Little Jimmie prospect/ Madonna mine/ Silent Friend mine/ reconnaissance/ radioactive material/ mining districts/ fault breccia/ shear zone material/ ore deposits/ veins/ igneous-metamorphic/ geology/

Dings, M. G., and Robinson, C. S., 1952
geology/ ore deposits/ Quartz Creek district/ Gunnison County/ Tin Cup district/ production/ igneous-metamorphic/ Garfield quadrangle/ Chaffee County/

Dings, M. G., and Robinson, C. S., 1957
geology/ ore deposits/ Gunnison County/ Chaffee County/ production/ volcanic rocks/ Quartz Creek district/ Tin Cup district/ Garfield quadrangle/ igneous-metamorphic/

Dings, M. G., and Schafer, Max, 1953
veins/ Garfield quadrangle/ Taylor Park quadrangle/ igneous-metamorphic/ geology/ ore deposits/ Gunnison County/ Chaffee County/ Mount Antero region/ Bon Ton mine/ Madonna mine/ brannerite/ black (marine carbonaceous) shales/ pegmatites/ reconnaissance/ radiometrics/ Silent Friend mine/

Dings, M. G., Robinson, C. S., and Brock, M. R., 1952
Garfield quadrangle/ Chaffee County/ Gunnison County/ igneous-metamorphic/ geology/ ore deposits/

chronology/ age dating/ uranium/ thorium/ lead/ zircons/ granite/ Chaffee County/ Gunnison County/ analyses/ St. Kevin granite/ igneous-metamorphic/ Sawatch Range/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

Guilloule, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek pegmatites/ Clear Creek County/ carnitite/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huartano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

photogeology/ exploration/ hydrogeology/ remote

581
sensing/ uranium/ multispectral photography/ photomapping/ ore deposits/ Bonanza test site/ Saguache County/ Chaffee County/ geologic analyses/ Lee, Keenan, 1975
Colorado/ geology/ remote sensing/ hydrogeology/ uranium/ water/ resources/ Saguache County/ Chaffee County/ Bonanza test site/ ore deposits/
Lovering, T. G. and Beroni, E., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/
Lovering, T. G. and Beroni, E., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/
Olson, J. C., 1977
uranium/ Pitch mine/ Gunnison County/ Saguache County/ Chaffee County/ map/ igneous-metamorphic/ limestone/ shale/ ore deposits/ geology/
Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/
Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/
Page, L. R., 1950
pegmatite/ geochemistry/ igneous-metamorphic/ uranium/ mineralogy/ Gunnison County/ Larimer County/ Chaffee County/ Fremont County/ Front Range/
Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ isotopic variation/ igneous-metamorphic/
Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alma district/ Lake County/ igneous-metamorphic/ Park County/
U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Chaffee County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
Van Alstine, R. E., 1968
structural geology/ Tertiary trough/ Arkansas Valley/ San Luis Valley/ Rio Grande depression/ Fremont County/ Chaffee County/ Lake County/ Saguache County/
Van Alstine, R. E., 1971
g eo d lo g y/ map/ Ponche Springs SE quadrangle/ Chaffee County/
Walker, G. W., 1957
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
Walker, G. W., 1963
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger Shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/

CHEYENNE COUNTY
Landis, E. R., 1954
Colorado/ Kansas/ exploration/ black shale/
**Cheyenne County**

Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/

Landis, E. R., 1955
Cheyenne County/ Crowley County/ Kiowa County/ Las Animas County/ Pueblo County/ genesis/ Pierre Shale/ Niobrara Formation/ shales/ Sharon Spring Member/ black shales/ ore deposits/ radioactivity/ uranium/ Yuma County/ stratigraphy/ uraniferous/

Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1959
Colorado/ Kansas/ ore deposits/ Cretaceous/ Pierre Shale/ Sharon Springs Member/ radioactivity/ Cheyenne County/ Crowley County/ Kiowa County/ Yuma County/ Las Animas County/ Pueblo County/ shale/ black shales/

Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/

Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/

**Clear Creek County**

properties/ areal geology/ economics/ veins/ uranium/ igneous-metamorphic/ Clear Creek County/ gneiss/ schist/ pegmatite/ Front Range/

Anonymous, 1950
Clear Creek County/ pitchblende/ igneous-metamorphic/ Front Range/

Armstrong, F. C., 1952
pitchblende/ ore deposits/ Quartz Hill/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ uranium/ ore grade/ veins/ Front Range/ Central City district/

Armstrong, F. C., 1952
pitchblende/ ore deposits/ Quartz Hill/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ gneiss/ schist/ pegmatite/ Front Range/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Bain, H. F., 1914
Idaho Springs/ Clear Creek County/ springs/ radium/ Front Range/ igneous-metamorphic/

Bastin, E. S., and Hill, J. M., 1915
Gilpin County/ igneous-metamorphic/ Boulder County/ Quartz Hill/ gold/ silver/ uranium/ copper/ tungsten/ Front Range/ ore deposits/ Clear Creek County/

Bertrand, Didier, 1950
biogeochemistry/ vanadium/ rocks/ sediments/ water/ soil/ coal/ Jamestown district/ Front Range/ Gilpin County/ igneous-metamorphic/ plants/ animals/ oil/ asphalt/ Clear Creek County/

Bleniewski, C. L., Persse, F. H., and Brauch, E. F., 1971
Colorado Plateau/ Rifle district/ Front Range/ Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/

Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Braddock, W. A., 1969
geochemistry/ ore deposits/ Empire quadrangle/ Grand County/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Brinkworth, G. L., 1974
geophysical investigations/ Front Range/ mineral belt/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ geophysics/

**Clear Creek County**

Alsdorf, P. R., 1916
Gilpin County/ ore deposits/ pitchblende/ occurrence/
Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chiricahua Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnitite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnitite/ uranium/ vanadium/ igneous-metamorphic/ uranium/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

Decker, E. R., 1969
geophysics/ geothermal/ radioactive materials/ heat flow/ Colorado/ New Mexico/ Summit County/ Jefferson County/ Clear Creek County/ La Plata County/ igneous-metamorphic/ Roberts tunnel/

Drake, A. A., Jr., 1955
ore deposits/ Wood mine/ Central City district/ pitchblende/ Gilpin County/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Front Range/

Drake, A. A., Jr., 1955
Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ geology/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ Calhoun mines/ Wood mine/ production/ veins/ Precambrian rocks/ Quartz Mill vein/ Wood vein/ Willowdale vein/ paragenesis/ alteration/ bostonite porphyry/ Clear Creek County/

Drake, A. A., Jr., 1957
veins/ Precambrian rock/ bostonite porphyry/ pitchblende/ production/ Central City district/ Gilpin County/ structure/ geology/ Wood-East Calhoun area/ igneous-metamorphic/ East Calhoun mine/ Clear Creek County/ mineralogy/ Front Range/ Wood mine/

Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/

Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/

Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Gilpin County/ Clear Creek County/

Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/ Jefferson County/ Clear Creek County/ Gilpin County/ Pikes Peak batholith/ Log Cabin batholith/ Boulder Creek batholith/ igneous-metamorphic/ Boulder County/

Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ swims/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/

Guillotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek pegmatites/ Clear Creek County/ carnitite/

Guillotte, G. B., 1944
uranium/ ore deposits/ Grover pegmatite mine/ igneous-metamorphic/ Clear Creek County/ Front Range/ columbia/ North Beaver Brook area/

Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/

Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown district/ Nederland district/ Boulder County/ Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ igneous-metamorphic/ reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/ Belcher mine/ trace elements/ Front Range/

Harrison, J. E., 1952
Clear Creek County/ ore deposits/ Front Range/ Spring Gulch/ Lawson-Dumont district/ pegmatite/ granite/ schist/ minerals/ autunite/ metatorbernite/
Harrison, J. E., 1953
Fracture patterns/ Freeland-Lamartine district/ Colorado/ Clear Creek County/ igneous-metamorphic/ veins/ Gilpin County/ thorium/ hypogene zoning/ Front Range/

Harrison, J. E., 1953
Freeland-Lamartine district/ Clear Creek County/ veins/ igneous-metamorphic/ Gilpin County/ Front Range/

Harrison, J. E., 1955
Fracture patterns/ Freeland-Lamartine district/ Clear Creek County/ igneous-metamorphic/ Gilpin County/ veins/ thorium/ hypogene zoning/ Front Range/

Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont district/ pitchblende/ Jo Reynolds mine/ veins/ stratigraphy/ Idaho Springs Formation/ Precambrian rocks/ igneous-metamorphic/ structure/ ore deposits/ geology/ metamorphic rocks/ bostonite porphyry/ economic geology/

Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont district/ pitchblende/ Jo Reynolds mine/ veins/ stratigraphy/ Idaho Springs Formation/ Precambrian rocks/ igneous-metamorphic/ structure/ ore deposits/ geology/ metamorphic rocks/ bostonite porphyry/ economic geology/

Harrison, J. E., and Wells, J. D., 1953
Igneous-metamorphic/ Clear Creek County/ Freeland district/ Chicago Creek area/ structure/ pitchblende/ Front Range/

Harrison, J. E., and Wells, J. D., 1954
Freeland-Lamartine district/ Front Range/ autunite/ dumontite(?)/ Ariadne mine/ Belle Creole mine/ Invincible mine/ Golden Rod mine/ veins/ stratigraphy/ Idaho Springs Formation/ igneous-metamorphic/ geology/ ore deposits/ Lone Tree mine/ Clear Creek County/ Belle of the West (mine) tunnel/

Harrison, J. E., and Wells, J. D., 1956
Clear Creek County/ Chicago Creek area/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ pitchblende/ igneous-metamorphic/ intrusive igneous rocks/ uranium/

Harrison, J. E., and Wells, J. D., 1956
Veins/ ore deposits/ production/ geology/ bostonite/ alaskite/ migmatite/ Freeland-Lamartine district/ Clear Creek County/ igneous-metamorphic/ metamorphic rocks/ Front Range/

Harrison, J. E., and Wells, J. D., 1959
Clear Creek County/ Chicago Creek area/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ minerals/ pitchblende/ intrusive igneous rocks/ pegmatites/ veins/ uranium/ geology/ genesis/ production/ ore deposits/ igneous-metamorphic/

Hawley, C. C., and Moore, F. B., 1955
Fall River area/ ore deposits/ genesis/ garnet/ quartz/ Clear Creek County/ veins/ uranium/ ore controls/ igneous-metamorphic/ pitchblende/ wall rocks/ Front Range/ geology/

Hawley, C. C., and Moore, F. B., 1967
Clear Creek County/ ore deposits/ resources/ Front Range/ geology/ genesis/ Lawson-Dumont-Fall River district/ veins/ Idaho Springs Formation/ Precambrian rocks/ igneous-metamorphic/

Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/

Hirschi, H., 1923
Igneous-metamorphic/ Clear Creek County/ volcanic rocks/ pitchblende/ Central City district/ genesis/ Front Range/

Kerr, P. F., Anderson, T. P., and Hamilton, Peggy-Kay, 1951
Veins/ Bellevue-Rochester mine/ igneous-metamorphic/ Clear Creek County/ alteration/ Front Range/ geology/

King, R. U., 1951
Reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., 1951
Lawson area/ Clear Creek County/ Jo Reynolds mine/ minerals/ pitchblende/ Precambrian rocks/ veins/ igneous-metamorphic/ ore deposits/ geology/ schist/ granite/ Elida tunnel/ Front Range/

King, R. U., 1953
Reconnaissance/ Front Range/ igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/

King, R. U., and Beroni, E. P., 1953
Igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/

King, R. U., and Granger, H. C., 1952
Clear Creek County/ forbernite/ George Peabody claim/ Little MacGregor claim/ Robineau claims/ Front Range/ granite/ pegmatites/ veins/ Little Mac claim/ ore deposits/ geology/ igneous-metamorphic/

King, R. U., and Moore, F. B., 1951
Pitchblende/ ore deposits/ Clear Creek County/
Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ KIowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/

King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/ Front Range/ San Miguel County/ pitchblende/ ore deposits/ Larimer County/ Jefferson County/ Gilpin County/ Ralston Creek district/ Jamestown district/ Caribou district/ Lawson district/ Clear Creek County/ igneous-metamorphic/

Larsen, E. S., 3d, 1957
analyses/ Colorado/ Wyoming/ Montana/ quartz monzonite/ granite/ Log Cabin batholith/ solubility/ uranium/ thorium/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Sherman batholith/ igneous-metamorphic/

Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/

Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ igneous-metamorphic/

Leonard, B. F., 3d, 1952
Central City district/ Front Range/ pitchblende/ base metals/ precious metals/ Clear Creek County/ igneous-metamorphic/ Gilpin County/ zoning/ ore deposits/

Leonard, B. F., 3d, 1953
ore deposits/ zoning/ pitchblende/ hypogene zoning/ Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ Clear Creek County/

Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Cœur d'Alene/ Idaho/

Lovering, T. S., 1942
Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/

Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectons/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/

Lovering, T. S., and Goddard, E. N., 1950
veins/ Front Range/ economic geology/ production/ uranium/ Quartz Hill/ Clear Creek County/ geology/ ore deposits/ Gilpin County/ bostonite/ porphyry/ igneous-metamorphic/ Central City district/

McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/

McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/

McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnitite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/

McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/

genesis/uranium/ore deposits/veins/bituminous substances/sandstone/limestone/coal/shale/pitchblende/geochemistry/age/Front Range/Colorado Plateau/Gilpin County/Clear Creek County/Montrose County/San Miguel County/Mesa County/igneous-metamorphic/


veins/bituminous substances/genesis/uranium/ore deposits/igneous-metamorphic/sandstone/limestone/coal/shale/pitchblende/geochemistry/age/Front Range/Colorado Plateau/Gilpin County/Clear Creek County/San Miguel County/Montrose County/Mesa County/

McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956

veins/bituminous substances/ore deposits/migmatites/sandstone/shale/igneous-metamorphic/Colorado/Colorado Plateau/San Juan County/San Miguel County/coal/Jefferson County/Montrose County/Old Leyden mine/uranium/Gilpin County/Clear Creek County/Front Range/genesis/Mesa County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951.
geochemistry/mineralogy/geophysics/geobotany/veins/pitchblende/thorium/uranium/resources/exploration/igneous-metamorphic/Front Range/Gilpin County/Clear Creek County/migmatites/sandstone/limestone/Colorado Plateau/Custer County/Gunnison County/Boulder County/Larimer County/Jefferson County/coal/San Miguel County/Montrose County/Mesa County/Hoffat County/

Merritt, P. L., 1950

uranium/Colorado Plateau/Front Range/exploration/Morrison Formation/phosphates/shale/sandstone/igneous-metamorphic/Mesa County/Montrose County/San Miguel County/Montezuma County/Dolores County/Gilpin County/Clear Creek County/Garfield County/Boulder County/

Merritt, P. L., 1950

uranium/exploration/Colorado Plateau/sandstone/Morrison Formation/Entrada Sandstone/Mesa County/San Miguel County/Dolores County/Montezuma County/Front Range/Boulder County/Gilpin County/Caribou district/igneous-metamorphic/Montrose County/Clear Creek County/

Merritt, P. L., 1950

uranium/Colorado Plateau/Morrison Formation/Entrada Sandstone/sandstone/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/Gilpin County/Front Range/Colorado Plateau/Boulder County/Caribou district/igneous-metamorphic/Montrose County/Clear Creek County/

Merritt, P. L., 1950

uranium/Colorado Plateau/Morrison Formation/Entrada Sandstone/sandstone/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/Gilpin County/Clear Creek County/Caribou district/igneous-metamorphic/Montrose County/Clear Creek County/

Merwin, S. S., 1956

Front Range/ore deposits/uranium/Jefferson County/Gilpin County/Clear Creek County/Boulder County/Schwartzwaldor mine/Caribou mine/Wood mine/igneous-metamorphic/

Merwin, S. S., 1956

Front Range/ore deposits/ore controls/Jefferson County/Boulder County/Gilpin County/Clear Creek County/igneous-metamorphic/

Moench, R. H., 1953

mapping/Idaho Springs district/Precambrian rocks/veins/igneous-metamorphic/mineralogy/Stanley mines/Lawrence L claim/P. J. claim(?)/radioactivity/Clear Creek County/Gilpin County/Front Range/geology/

Moench, R. H., 1964

g eo logic/ Precambrian rocks/Idaho Springs district/petrography/Clear Creek County/Gilpin County/igneous-metamorphic/Front Range/

Moench, R. H., and Drake, A. A., Jr., 1966

economic geology/pitchblende/coffinite/uranophane/Idaho Springs district/Clear Creek County/Gilpin County/mineralogy/ore deposits/Front Range/production/igneous-metamorphic/

Moench, R. H., Harrison, J. E., and Sims, P. K., 1954

Precambrian rocks/structure/Idaho Springs district/Front Range/geology/Gilpin County/Jefferson County/igneous-metamorphic/Clear Creek County/

Moench, R. H., Harrison, J. E., and Sims, P. K., 1962

Precambrian rocks/structure/Idaho Springs district/Central City district/Front Range/Gilpin County/Clear Creek County/igneous-metamorphic/

Moore, F. B., 1953

Dumont-Fall River area/Clear Creek County/radioactivity/veins/Golden Calf mine/Front Range/igneous-metamorphic/

Moore, F. B., and Hawley, C. C., 1952

g eo logy/ore deposits/Lawson-Dumont-Fall River district/Clear Creek County/igneous-metamorphic/Front Range/

Moore, F. B., and Hawley, C. C., 1953

Dumont-Fall River district/Clear Creek County/igneous-metamorphic/mapping/veins/radioactivity/Front Range/

Moore, F. B., King, R. U., and Hinrichs, E. N., 1951

Caribou district/Central City district/Front Range/Clear Creek County/Gilpin County/Boulder County/ore deposits/Grand Island district/Jamestown district/Lawson area/Quartz Hill area/fluorite deposits/Cahoun mines/Caribou mines/Jo Reynolds mine/Kirk mine/Wood mine/pitchblende/breccia deposits/igneous-metamorphic/exploration/
Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ front Range/ Colorado Plateau/

Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/

Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Gilpin County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/ Teller County/ structural controls/ ore deposits/ Cordilleran foreland/ igneous-metamorphic/ Gilpin County/ Front Range/ tectonics/ El Paso County/ Larimer County/ Clear Creek County/

Osterwald, F. W., 1955
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/

Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/

Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/ structural controls/ tectonic patterns/ Front Range/ Denver basin/ uranium/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ Larimer County/

Phair, George, 1952
ore deposits/ porphries/ radioactivity/ Gilpin County/ Central City district/ pitchblende/ Tertiary/ deposition/ Front Range/ mineralogy/ petrology/ geochemistry/ zircon/ veins/ uranium/ thorium/ analyses/ Quartz Hill/ Nigger Hill dike/ Clear Creek County/ igneous-metamorphic/ ore deposits/

Phair, George, 1952
Front Range/ Central City district/ ore deposits/ Clear Creek County/ Gilpin County/ analyses/ quartz monzonite/ igneous-metamorphic/ Wood mine/ Kirk Mine/ Quartz Hill area/ pitchblende/ Copper King mine/ Larimer County/ paragenesis/

Phair, George, 1953
Front Range/ veins/ igneous-metamorphic/ ore deposits/ Central City district/ Idaho Springs district/ Gilpin County/ Clear Creek County/ reserves/ Wood mine/ Kirk mine/ Bonanza mine/ German mine/ pitchblende/ Martha E mine/

Phair, George, 1958
uranium/ thorium/ intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/

Phair, George, and Antweiler, J. C., 1954
Larimer County/ Copper King mine/ ore deposits/ geochemistry/ mineralogy/ uranium/ coffinite/ pitchblende/ Front Range/ Central City district/ Gilpin County/ igneous-metamorphic/ absolute age/ Clear Creek County/

Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Gilpin County/ Jefferson County/ Larimer County/

Phair, George, and Herz, Norman, 1953
ore deposits/ pitchblende/ coffinite/ geochemistry/ Front Range/ igneous-metamorphic/ quartz bostonite dikes/ Central City district/ Clear Creek County/ Gilpin County/ mineralogy/ petrology/

Phair, George, and Levine, Harry, 1952
Central City district/ Wood mine/ geochemistry/ uranium/ radium/ lead/ pitchblende/ solutions/ Katanga/ Great Bear Lake/ Russel Gulch/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/ differential leaching/

Phair, George, and Levine, Harry, 1952
uranium/ radium/ lead/ pitchblende/ Wood mine/ Central City district/ Gilpin County/ analyses/ exploration/ igneous-metamorphic/ Clear Creek County/ Front Range/ differential leaching/

Phair, George, and Meila, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramie/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder
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  Front Range/ ore deposits/ mineralization/ mineralogy/ petrology/ geochemistry/ porphyries/ pitchblende/
  Central City district/ igneous-metamorphic/ Clear Creek County/ Gilpin County/

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  Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnotite project/ sandstone/ igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/

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  Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ igneous-metamorphic/ Boulder County/

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  Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ igneous-metamorphic/ Gilpin County/ Clear Creek County/

  veins/ uranium/ ore deposits/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison County/ Saquache County/ Marshall Pass district/ Schwartzwalder mine/ igneous-metamorphic/

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  Colorado Plateau/ ore deposits/ genesis/ exploration/ gamma-ray detectors/ sandstone/ Front Range/ instrumentation/ Morrison Formation/ Salt Wash Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ igneous-metamorphic/ Entrada Sandstone/

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  Front Range/ ore deposits/ exploration/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

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  veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/

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  veins/ Front Range/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

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  Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ igneous-metamorphic/

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  Gilpin County/ ore deposits/ pitchblende/ genesis/ structural controls/ veins/ Front Range/ Clear Creek County/ geology/ uranium/ igneous-metamorphic/ Central City district/ mineralogy/ paragenesis/

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  Front Range/ igneous-metamorphic/ veins/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

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  mineralogy/ hypogene zoning/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Front Range/

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  hypogene zoning/ mineralogy/ Gilpin County/ Clear Creek County/ Central City district/ Front Range/ igneous-metamorphic/

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  Clear Creek County/ Gilpin County/ geology/ igneous-metamorphic/ Central City district/ Front Range/ Idaho Springs district/ guidebook/

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  geology/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

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  Gilpin County/ Clear Creek County/ igneous-metamorphic/ Central City quadrangle/ Russell Gulch/ geology/ Front Range/

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  Front Range/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Jefferson County/ geology/ ore deposits/

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  cordierite/ gneiss/ Central City quadrangle/ Gilpin County/ Clear Creek County/ Front Range/ minerals/ Central City district/ geology/ Precambrian rocks/ igneous-metamorphic/

589
Sims, P. K., and Gable, D. J., 1964
geology/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/

Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

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Front Range/ igneous-metamorphic/ uranium/ ore deposits/ geology/ Clear Creek County/ Gilpin County/

groundwater/ mining/ Colorado Plateau/ geology/ orogeny/ Colorado/ Precambrian/ Precambrian rocks/ uranium/ thorium/ paragenesis/ uranium/ ore deposits/ igneous-metamorphic/ ore deposits/ bostonite/ Front Range/ genesis/

Tooker, E. W., 1953
wall rock alteration/ Front Range/ igneous-metamorphic/ Gilpin County/ Clear Creek County/

Taylor, R. B., 1975
dermatite/ Colorado/ uranium/ ore deposits/ igneous-metamorphic/ uranium/ ore deposits/ igneous-metamorphic/ uranium/ veins/ Front Range/

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geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactive/ uranium/ geology/ exploration/ Front Range/ igneous-metamorphic/ uranium/ ore deposits/

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mapping/ Colorado Plateau/ Front Range/ igneous-metamorphic/ uranium/ ore deposits/ Colorado Plateau/ uranium/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/

volcanic rocks/ Colorado Plateau/ Front Range/ igneous-metamorphic/ uranium/ ore deposits/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ uranium/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochronology/ exploration/ stream sediments/ ground water/ mine waters/
U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/

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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/

Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/

Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1956
 ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, W. G., 1956
 alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Caribou mine/ Los Ochos mine/ Copper King mine/

Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/

Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/

Walker, G. W., and Osterwald, F. W., 1956
 ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1957
 ore deposits/ veins/ geometry/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Southeast district/ Custer County/ Powderhorn district/ Placerville district/

Walker, G. W., and Osterwald, F. W., 1963
 ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/

Wallace, G. W., and Osterwald, F. W., 1963
 Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/ Freeland-Lamartine district/ Front Range/ Georgetown district/ Silver Plume district/ Idaho Springs district/ Lawson - Dunant district/ igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/

Wells, J. D., 1955
 structure/ granodiorite/ Ute Creek/ Clear Creek County/ Front Range/ igneous-metamorphic/ petrology/

Wells, J. D., 1960
 petrology/ Tertiary rocks/ igneous-metamorphic/ thorium/ Front Range/ radioactivity/ bostonite porphyry/ Gilpin County/ Clear Creek County/ volcanic rocks/ uranium/ petrography/

Wells, J. D., n.d.
 geology/ Tertiary rocks/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/

Wells, J. D., and Harrison, J. E., 1953
 Clear Creek County/ reconnaissance/ radioactivity/ igneous-metamorphic/ Front Range/

Wells, J. D., and Harrison, J. E., 1954
 Clear Creek County/ ore deposits/ exploration/ veins/ radioactivity/ reconnaissance/ Front Range/ igneous-metamorphic/

 metamorphism/ structure/ geologic history/ Coal Creek area/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/

Wells, J. D., Sheridan, R. M., and Albee, A. L., 1964
 Precambrian/ quartzite/ schist/ Coal Creek/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Idaho Springs Formation/
CLEAR CREEK COUNTY

veins/ igneous-metamorphic/ Clear Creek County/ sulfide minerals/ base metals/ mineral associations/ analyses/ paragenesis/ trace elements/ Idaho/ Arizona/ Central City district/ Carroll mine/ pitchblende/ solid solution/ ore deposits/ Front Range/

CONEJOS COUNTY

Gow, T. T., 1914
basalt/ Table Mountain/ igneous-metamorphic/ Jefferson County/ Conejos County/ Rio Grande County/ Gilmore/ Front Range/ radioactivity/

Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

basalt/ spectroscopy/ Cenozoic rocks/ potassium/ thorium/ uranium/ Rio Grande depression/ New Mexico/ geochemistry/ ore composition/ Baca County/ Las Animas County/ igneous-metamorphic/ Conejos County/ Costilla County/ Rio Grande County/ Alamosa County/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Conejos County/ reconnaissance/ ore deposits/ sandstone/

COSTILLA COUNTY

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek - Victor district/

Emerson, J. F., 1943
vanadium/ uranium/ sandstone/ Huerfano County/ Costilla County/ Huerfano Park district/ Raton basin/

FINCH, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

basalt/ spectroscopy/ Cenozoic rocks/ potassium/ thorium/ uranium/ Rio Grande depression/ New Mexico/ geochemistry/ ore composition/ Baca County/ Las Animas County/ igneous-metamorphic/ Conejos County/ Costilla County/ Rio Grande County/ Alamosa County/

Simon, M. R., 1956
ore deposits/ Huerfano County/ Raton basin/ Fremont County/ Custer County/ Las Animas County/ sandstone/ Costilla County/ uranium/ geology/ arkose/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Costilla County/ reconnaissance/ ore deposits/ Front Range/ sandstone/

CROWLEY COUNTY

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Landis, E. R., 1954
Colorado/ Kansas/ exploration/ black shale/ Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/

Landis, E. R., 1955
Cheyenne County/ Crowley County/ Kiowa County/ Las Animas County/ Pueblo County/ genesis/ Pierre Shale/ Niobrara Formation/ shale/ Sharon Spring Member/ black shales/ ore deposits/ radioactivity/ uranium/ Yuma County/ stratigraphy/ uraniferous/

Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/
shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1959
Colorado/ Kansas/ ore deposits/ Cretaceous/ Pierre Shale/ Sharon Springs Member/ radioactivity/ Cheyenne County/ Crowley County/ Kiowa County/ Yuma County/ Las Animas County/ Pueblo County/ shale/ black shale/

Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Tulsa County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/ Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/

Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/

Custer County
Armbrustmacher, T. J., 1975
thorium/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ veins/ ore deposits/

Armbrustmacher, T. J., 1976
thorium/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ veins/ ore deposits/

geochemistry/ Mount Tyndall quadrangle/ Custer County/ thorium/ igneous-metamorphic/ ore deposits/ Wet Mountains/

Buck, K. L., 1955
bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

Buck, K. L., 1957
ore deposits/ bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/
Dellwig, L. F., 1951
Willis Tuttle ranch/ Greenwood thorium property/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ igneous-metamorphic/ alkaline rocks/

Dellwig, L. F., and Gott, G. B., 1951
Custer County/ rare earth minerals/ shear zone material/ veins/ Haputa Ranch/ ore deposits/ Wet Mountains/ thorium/ thorite/ fault breccia/ igneous-metamorphic/

Finch, W. L., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

brockite/ thorium/ Wet Mountains/ Chemical properties/ igneous-metamorphic/ crystal chemistry/ Bassick mine/ Custer County/ phosphate/ ore deposits/

Gerhard, L. C., and Mark, Anson, 1968
Pueblo County/ Custer County/ Wet Mountains/ Paleozoic/ Mesozoic/ geology/ sandstone/ guidebook/ Fremont County/ igneous-metamorphic/ alkaline igneous rocks/

Gillerman, Elliot, 1958
thorium/ Wet Mountains/ igneous-metamorphic/ Custer County/ ore deposits/

Hall, C. R., 1976
alkaline/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison County/ production/ thorium/ Fremont County/ Custer County/ igneous-metamorphic/

Heinrich, E. W., and Reuss, R. L., 1969
Fremont County/ Custer County/ igneous-metamorphic/ petrology/ carbonatites/ Gem Park/ gabbro/ intrusives/

breccia dikes/ rare earths/ Iron Hill/ Custer County/ igneous-metamorphic/ thorium/ apatite/ molybdenite/ magnetite/

Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/

Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Clear Creek County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/

Malan, R. C., 1969
genesis/ ore deposits/ Tertiary/ intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

Moore, D. G., 1970
Custer County/ Fremont County/ igneous-metamorphic/ thorium/ geology/ mineralogy/ genesis/ Wet Mountains/ feldspar rocks/ alkaline rocks/ carbonatite/

Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/ igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/

thorium/ alkaline rocks/ age dating/ carbonatite/
CUSTER COUNTY

Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonic/ igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/

Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonic/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Parker, R. L., and Hildebrand, F. A., 1963
alkalic rocks/ Intrusives/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ geology/ petrology/

Parker, R. L., and Sharp, W. N., 1970
carbonatites/ mafic-ultramafic/ thorium/ monazite/ geology/ Gem Park complex/ Custer County/ Fremont County/ mineralogy/ geochemistry/ igneous-metamorphic/

Phair, George, 1957
Wet Mountains/ ore deposits/ Custer County/ thorium/ veins/ igneous-metamorphic/ Haputa Ranch/ Hardwick property/ Mystery Lode/ shear zones/

Phair, George, 1958
Wet Mountains/ ore deposits/ wallrock alteration/ thorium/ Custer County/ igneous-metamorphic/ chemical properties/

Phair, George, and Fisher, F. G., 1961
Wet Mountains/ ore deposits/ genesis/ metasomatism/ processes/ potassic feldspathization/ thorium/ Custer County/ Powderhorn district/ Precambrian rocks/ thorite/ igneous-metamorphic/

Phair, George, and Gilbert, F. L., 1959
igneous-metamorphic/ thorium/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ veins/ zoning/

Salotti, C. A., 1965
mineralogy/ paragenesis/ Cotopaxi area/ Chaffee County/ Custer County/ Fremont County/ Park County/ igneous-metamorphic/ petrology/ geology/ skarn/ ore deposits/ copper/ zinc/ uranium/

Simon, M. R., 1956
ore deposits/ Huerfano County/ Raton basin/ Fremont County/ Custer County/ Las Animas County/ sandstone/ Costilla County/ uranium/ geology/ arkose/

Singewald, O. D., 1955
map/ thorium/ Wet Mountains/ Custer County/ igneous-metamorphic/ ore deposits/

Singewald, O. D., and Brock, M. R., 1956
thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ igneous-metamorphic/ gneiss/ veins/ pegmatites/ ore deposits/

Singewald, O. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ Custer County/ thorium/ igneous-metamorphic/

Singewald, O. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ exploration/ Custer County/ thorium/ igneous-metamorphic/

Singewald, O. D., Christman, R. A., and Brock, W. R., 1953
Haputa Ranch area/ Custer County/ Fremont County/ veins/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Precambrian rocks/ Sewell property/ Anna Lee property/ igneous-metamorphic/

Singewald, O. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinley Mountain area/ igneous-metamorphic/ geology/ radiometrics/ maps/ City/ Colorado Plateau/ Gilpin County/ metamorphic/ ore deposits/ Colorado/ sandstone/ Front Range/

Staatz, M. H., 1964
ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ igneous-metamorphic/

Staatz, M. H., 1973
veins/ thorium/ igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/

Staatz, M. H., 1974
ore deposits/ veins/ mineralogy/ geochemistry/ minerals/ thorite/ monazite/ genesis/ controls/ ore controls/ structural controls/ thorium/ igneous-metamorphic/ Wet Mountains/ Powderhorn district/ Gunnison County/ carbonatite/ alkaline complexes/ Custer County/ Fremont County/

Staatz, M. H., 1975
thorium/ ore deposits/ igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ deposits/ Colorado/ igneous-metamorphic/ sandstone/ Front Range/

Staatz, M. H., 1976
thorium/ igneous-metamorphic/ alkaline igneous rocks/ Fremont County/ Custer County/ Gunnison County/

Staatz, M. H., 1976
thorium/ resources/ igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ Front Range/

Staatz, M. H., and Conklin, N. M., 1966
thorium/ veins/ carbonate/ Road Gulch area/ Wet Mountains/ rare-earths/ igneous-metamorphic/ thorite/ geology/ mineralogy/ Fremont County/ Custer County/

Staatz, M. H., and Olson, J. C., 1973
thorium/ igneous-metamorphic/ resources/ Custer County/ Fremont County/ Gunnison County/

Twenhofel, W. S., and Buck, K. L., 1956
thorium/ Powderhorn district/ Gunnison County/ veins/ Custer County/ Fremont County/ Colorado/ Idaho/ Wyoming/ Precambrian rocks/ Montana/
CUSTER COUNTY

California/ geology/ New Mexico/ Wisconsin/ New York/ Michigan/ Wet Mountains/ ore deposits/ igneous-metamorphic/

Twenhofel, W. S., and Buck, K. L., 1956
g eo l o gy/ thorium/ Powderhorn district/ Gunnison County/ Wet Mountains/ Custer County/Fremont County/ veins/ Precambrian rocks/ Colorado/ Wyoming/ Idaho/ Montana/ California/ New Mexico/ Wisconsin/ New York/ Michigan/ ore deposits/ igneous-metamorphic/

U.S. Atomic Energy Commission, 1966
g eo lo gy/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Custer County/ reconnaissance/ ore deposits/ Front Range/ sandstone/ igneous-metamorphic/

U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ Cochetopa district/ Saguache County/ Powellhorn district/ Custer County/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/

DELTA COUNTY

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/

Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/ genesis/ Colorado/ general/ Mesa County/ Delta

Delta County/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ Archuleta County/ Garfield County/ La Plata County/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Plinkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Cadigan, R. A., and Felmlee, J. K., 1975
Delta County/ spring deposits/ radioactive springs/ radium/ geochemistry/

Cadigan, R. A., and Felmlee, J. K., 1975
geochemistry/ radioactive springs/ exploration/ Delta County/ spring deposits/ radium/ uranium/

springs/ spring deposits/ Delta County/ geochemistry/ exploration/ radioactive springs/ uranium/

Delta County/ radioactive springs/ spring deposits/ geochemistry/

Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/
DELTA COUNTY

Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/

Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Urvan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Río Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/

Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ Delta County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/

Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/

Chew, R. T., 3d, 1956
Rifle mine/ Urvan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Río Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/

Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Río Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Garfield County/ Archuleta County/

stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/

Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Río Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Urvan district/ Gateway district/ map/ geology/

Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chiricahua Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Río Blanco County/ geology/

Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chiricahua Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Río Blanco County/ geology/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Río Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

Fischer, R. P., 1955
Durango district/ Placerville district/ Río district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Río Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Montezuma County/ Montrose County/ Río Blanco County/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Río Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Río Blanco mine/ Garfield County/ Río Blanco County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/

597
Delta County

Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coel/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/

Hackman, R. J., 1958
Mesa County/ Montrose County/ Delta County/ photogeologic map/ sandstone/ Colorado Plateau/ Escalante Forks quadrangle/

Headden, W. P., 1905
Delta County/ spring deposits/ radium/ Doughty Springs/ Colorado Plateau/

Headden, W. P., 1905
Delta County/ spring deposits/ radium/ Doughty Springs/ Colorado Plateau/

Hoodden, W. P., 1905
Delta County/ spring deposits/ radium/ alunogen/ Doughty Springs/ Colorado Plateau/

Headden, W. P., 1909
Delta County/ springs deposits/ Doughty Springs/ radium/ Colorado Plateau/

Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/

Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chilie Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/

Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/
DENVER COUNTY

Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/:

Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/:

Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ igneous-metamorphic/:

Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ La Plata County/:

Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/:

Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/:

Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/:

Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/:

Walcott, E. R., 1904
radioactivity/ springs/ minerals/ Colorado/ Delta County/:

DENVER COUNTY

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/:

Williams, P. L., 1964
Colorado/ Utah/ Moab quadrangle/ ore deposits/ uranium/ maps/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Ouray County/ geology/ structure/ sandstone/:

Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/:

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/:

DENVER COUNTY

Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/:

Boberg, W. W., and Runnellis, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/ uranium/ analyses/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/ reconnaissance/:

Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/:

Popenoe, Peter, 1965
Larimer Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/:

U.S. Atomic Energy Commission, 1966
geochemistry/ uranium/ geophysical prospecting/ economic
DENVER COUNTY

- geology/ mining engineering/ petrology/ minerals/
  radioactivity/ Denver County/ reconnaissance/
  ore deposits/ Front Range/ slag/

DOLORES COUNTY

Adler, H. H., 1963
- genesis/ sandstone/ ore deposits/ Jefferson
  County/ Pueblo County/ Gunnison County/ Moffat
  County/ Garfield County/ Mesa County/ Delta
  County/ Montrose County/ San Miguel County/
  Dolores County/ Montezuma County/ La Plata County/
  Archuleta County/ Colorado Plateau/ Front Range/
  Rio Blanco County/

Adler, H. H., 1964
- uranium/ roll ore/ exploration/ sandstone/ ore
  deposits/ Jefferson County/ Pueblo County/ Gunnison
  County/ Rio Blanco County/ Garfield County/
  Mesa County/ Delta County/ Montrose County/
  San Miguel County/ Montezuma County/ La Plata
  County/ Archuleta County/ Moffat County/ Colorado
  Plateau/ Front Range/ Dolores County/

Anonymous, 1952
- Colorado Plateau/ Uravan belt/ sandstone/mill /
  exploration/ Mesa County/ San Miguel County/
  Dolores County/

Archbold, N. L., 1955
- lithology/ vanadium/ uranium/ ore deposits/
  Morrison Formation/ Salt Wash Member/ Colorado
  Plateau/ sandstone/ analyses/ Mesa County/ Montrose
  County/ San Miguel County/ Dolores County/ calcium
  carbonate/

Archbold, N. L., 1956
- uranium/ vanadium/ Colorado Plateau/ Salt Wash
  Member/ Morrison Formation/ sandstone/ Mesa
  County/ Montrose County/ Dolores County/ Montezuma
  County/ ore deposits/ lithology/ San Miguel
  County/

Archbold, N. L., 1958
- carbonato comont/ lithology/ vanadium/uranium/
  sandstone/ Morrison Formation/ Colorado Plateau/
  Salt Wash Member/ Slick Rock district/ Urvan
  geochemistry/ ore deposits/ weathering/ alteration/
  Mesa County/ Montrose County/ San Miguel County/
  Dolores County/ Cougar mine/ Golden Cycle mine/
  Virgin mine/ Upper Group/

Archbold, N. L., 1959
- carbonate cement/ lithology/ vanadium/uranium/
  sandstone/ Morrison Formation/ Colorado Plateau/
  Salt Wash Member/ Slick Rock district/ Urvan
  geochemistry/ ore deposits/ weathering/ alteration/
  Mesa County/ Montrose County/ Dolores County/
  Cougar mine/ Golden Cycle mine/ Virgin mine/
  Upper group/

Bain, G. W., 1953
- Colorado Plateau/ ore deposits/ sediments/ sandstone/
  stratigraphy/ Dakota Group/ Morrison Formation/
  structure/ topography/ geologic history/ Mesa
  County/ Montrose County/ San Miguel County/

Bain, G. W., 1955
- colorado Plateau/ or deposits/ observations/
  sedimentation/ Shinarump Member/ carnotite/
  Morrison Formation/ tectonic structure/ sandstone/
  fluvial sediments/ simulation/ precipitation/
  Mesa County/ Montrose County/ San Miguel County/
  Montezuma County/ conglomerate/ Chirile Formation/
  Dolores County/ experimental studies/ Salt Wash
  Member/

Bain, G. W., 1957
- Colorado Plateau/ ore deposits/ organic ores/
  genesis/ Colorado/ general/ Mesa County/ Delta
  County/ sandstone/ Montrose County/ San Miguel
  County/ Dolores County/ Archuleta County/ Garfield
  County/ La Plata County/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and
  others, 1953
- Colorado Plateau/ ore deposits/ experimental
  studies/ sandstone/ fluvial sediments/ field
  observations/ heavy minerals/ Shinarump Member/
  Morrison Formation/ Dakota Sandstone/ geology/
  sedimentation/ ground water/ stratigraphy/ Mesa
  County/ Montrose County/ San Miguel County/
  Dolores County/ Montezuma County/ Chinle Formation/

Baltz, E. H., Jr., 1955
- Colorado/ New Mexico/ ore deposits/ exploration/
  carbonaceous rocks/ sandstone/ mesa County/
  delta County/ montrose County/ Gunnison County/
  Ouray County/ san Miguel County/ Hinsdale County/
  Dolores County/ Montezuma County/ La Plata County/
  Archuleta County/ coal/ shale/ reconnaissance/
  Colorado Plateau/

Baltz, E. H., Jr., 1957
- stratigraphy/ structure/ salt/ salt anticlines/
  Colorado/ Utah/ Hermosa Formation/ Colorado
  Plateau/ evaporites/ general/ San Miguel County/
  montrose County/ Dolores County/ Montezuma County/
  sandstone/ Paradox Basin/

Bates, R. C., 1959
- Colorado Plateau/ ore deposits/ resources/ exploration/
  statistical analysis/ uranium/ mesa County/
  montrose County/ san Miguel County/ dolores
  County/ Montezuma County/ Morrison Formation/
  sandstone/

Bethke, P. M., 1953
- uranyl salts/ Colorado Plateau/ simulation/
  precipitation/ Mesa County/ Montrose County/
  san Miguel County/ Dolores County/ montezuma
  County/ sandstone/ ground water/ Morrison Formation/
  Salt Wash Member/ uraninite/ carnotite/

Botinelly, Theodore, and Weeks, A. O., 1957
- sandstone/ uranium/ venadum/ Colorado Plateau/
  mesa County/ montrose County/ minerals/ Dolores
  County/ San Miguel County/ or deposits/ mineralogic
  classification/

- Slick Rock district/ Disappointment Valley/
DOLORES COUNTY

Bromfield, C. S., 1967
San Miguel County/ Dolores County/ Mount Wilson quadrangle/ San Juan Mountains/ vanadium/ uranium/ vanadium/ uranium/ Morrison Formation/ San Miguel County/ Salt Wash Member/ Dolores County/ ore guides/ Colorado Plateau/

San Miguel County/ Dolores County/ Mount Wilson quadrangle/ vanadium/ San Juan Mountains/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/ geology/ Colorado Plateau/

Bromfield, C. S., and Williams, F. E., 1972
resources/ Wilson Mountains Primitive area/ uranium/ San Miguel County/ Dolores County/ vanadium/ sediments/ sandstone/ Colorado Plateau/ geophysics/

Bromfield, C. S., 1954
Colorado Plateau/ ore deposits/ sandstone/ Dolores County/ history/ San Miguel County/ Montrose County/ Mesa County/

Burke, P., 1961
vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uranium District/ Rico district/ metallurgy/ Rifle district/

Bush, A. L., 1956
vanadium/ uranium/ ore deposits/ Entrada Sandstone/ veins/ sandstone/ San Juan Mountains/ San Miguel County/ Dolores County/ mineralogy/ Placerville district/ geology/ Colorado Plateau/

Dolores Peak quadrangle/ Dolores County/ San Miguel County/ geology/ Colorado Plateau/

Bush, A. L., and Bryner, Leonid, 1953
carnotite/ rosscoelite/ stratigraphy/ Entrada Sandstone/ minerals/ Pony Express Limestone Member/ Wanakah Formation/ limestone/ sandstone/ Colorado Plateau/ uranium/ vanadium/ San Juan Mountains/ San Miguel County/ ore deposits/ San Juan County/ Dolores County/ La Plata County/ Dolores County/ San Juan County/ Garfield County/ uranium/ sandstone/ veins/

Bush, A. L., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/ geophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetics/ sandstone/ geophysics/ Montrose County/

Busch, A. L., 1954
San Juan Mountains/ San Miguel County/ mapping/ uranium/ vanadium/ sandstone/ Colorado Plateau/ veins/ Entrada Sandstone/ geology/ ore deposits/ Placerville district/ Dolores County/

Busch, A. L., 1954
San Juan Mountains/ Placerville district/ San Miguel County/ uranium/ vanadium/ Entrada Sandstone/ sandstone/ structure/ geology/ ore deposits/ Dolores County/ Colorado Plateau/ veins/

Busch, A. L., 1955
San Juan Mountains/ San Miguel County/ Dolores County/ Placerville district/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ Morrison Formation/ San Miguel County/ Salt Wash Member/ Dolores County/ ore guides/ Colorado Plateau/ geology/
Cadigan, R. A., 1972
stratigraphy/ genesis/ Chiricahua Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/

Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/

Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/

Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/

Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/

Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/

Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/

Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
gеophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ igneous-metamorphic/
DOLORES COUNTY

Colorado Plateau/ Morrison Formation/ Delta County/ Stratigraphy/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/

Stratigraphy/ Morrison Formation/ Colorado Plateau/ Recapture Member/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/

Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977
Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/

Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ igneous-metamorphic/

Curran, T. F., 1913
Ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ igneous-metamorphic/

Eastman, H. P., 1955
detritus/ sandstone/ sphericity/ simulation/ transportation/ Shinarump Member/ river channels/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/

Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Uravan district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/

sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/ stratigraphy/

604
Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Sagusche County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fischer, R. P., 1937
uranium/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ San Miguel County/

Fischer, R. P., 1942
uranium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/

Fischer, R. P., 1948
Morrison Formation/ Entrada Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Uranium district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/

Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/ genesis/ structure/ ground water/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

Fischer, R. P., 1955
uranium/ vanadium/ potential/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/

Fischer, R. P., 1952
uranium/ vanadium/ potential/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San Miguel County/ San 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DOLORES COUNTY

Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/ sandstone/ vanadium/ uranium/ ore deposits/ Colorado Plateau/ geochemistry/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/

Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Urvan district/

Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Urvan district/

Fischer, R. P., 1956
ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ Entrada Sandstone/ sandstone/ Rifle district/ Garfield County/ genesis/ San Miguel County/ La Plata County/ Placerville district/ Rico district/ Dolores County/

Fischer, R. P., 1956
vanadium/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ La Plata County/ Rifle district/ Placerville district/ Rico district/ Durango district/ genesis/ localization/ Dolores County/ Entrada Sandstone/

Fischer, R. P., 1956
geology/ structure/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chiricahua Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/ Colorado Plateau/ ore deposits/

Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/ supergene processes/ ore deposits/ sandstone/ configuration/ distribution/ uranium/ Arizona/ mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/ Rio Blanco County/

Fischer, R. P., 1974
exploration/ ore guides/ uranium/ ore deposits/ Colorado Plateau/ Urvan district/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ ore guides/ genesis/ Morrison Formation/ carnotite/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ ore deposits/ Calamity group/ geology/ structure/

Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Urvan mineral belt/ sandstone/ ore deposits/ Morrison Formation/ Colorado Plateau/ carnotite/ exploration/ geology/ vanadium/ uranium/ Urvan district/

Fischer, R. P., and Hilpert, L. S., 1951
Urvan mineral belt/ ore deposits/ carnotite/ Mesa County/ Montrose County/ Outlaw Mesa/ Calamity Mesa/ Club Mesa/ Long Park/ exploration/ geology/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ Urvan district/ Dolores County/ San Miguel County/ ore guides/ production/ vanadium/

Fischer, R. P., Hilpert, L. S., Schumacher, J. L., and others, 1951
investigations/ carnotite/ ore deposits/ sandstone/ Colorado Plateau/ Morrison Formation/ Chiricahua Formation/ Entrada Sandstone/ San Miguel County/ Mesa County/ Dolores County/ Garfield County/

Fleck, Herman, and Haldane, W. G., 1909
car not i te/ uranium/ vanadium/ radioactivity/ Dolores County/ Montrose County/ Mesa County/ San Miguel County/ sandstone/ Colorado Plateau/

Fleck, Herman, and Haldane, W. G., 1909
car not i te/ uranium/ vanadium/ radioactivity/ Dolores County/ Montrose County/ Mesa County/ San Miguel County/ sandstone/ Colorado Plateau/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Four Corners Geological Society, 1960
Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ sandstone/ sediments/ geology/ structures/ Paradox basin/ oil/ gas/ uranium/

Freeman, H. D., 1935
uranium/ vanadium/ Triassic/ Jurassic/ sandstone/ Colorado/ Utah/ Colorado Plateau/ ore deposits/ Dolores County/ Montrose County/ San Miguel County/
Gabelman, J. W., 1956
uranium/ore deposits/limestone/Colorado Plateau/Gypsum Valley area/Dolores County/San Miguel County/Montrose County/Mesa County/Wanakah Formation/

Gabelman, J. W., 1956
uranium/ore deposits/limestone/Colorado Plateau/Gypsum Valley area/Dolores County/San Miguel County/Montrose County/Mesa County/Wanakah Formation/

Gabelman, J. W., 1958
Colorado Plateau/Uravan district/mineral belts/structure/Montrose County/San Miguel County/Dolores County/sandstone/alterations/tectonic control/

Gabelman, J. W., and Boyer, W. H., 1974
exploration/status/uranium/technology/history/pitchblende/radium/vanadium/Colorado Plateau/Front Range/Montrose County/Mesa County/San Miguel County/Dolores County/Moffat County/Jefferson County/sandstone/igneous-metamorphic shale/

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ore deposits/mineralogy/geochemistry/sandstone/ground water/clay/mudstone/organics/Peanut mine/J. J. mine/Montrose County/Rifle mine/Garfield mine/Moffat County/Rio Blanco County/Mesa County/Delta County/San Miguel County/Dolores County/La Plata County/Montezuma County/Archuleta County/

George, R. D., 1917
minerals/rocks/Colorado/occurrences/uses/Colorado Plateau/sandstone/igneous-metamorphic/uranium/vanadium/radium/carnotite/pitchblende/Jefferson County/Gilpin County/Front Range/Montrose County/San Miguel County/Dolores County/Garfield County/Rio Blanco County/Routt County/Boulder County/

Gilbert, C. C., 1954
resources/sandstone/Uravan district/Morrison Formation/Mesa County/Montrose County/Gateway district/Gypsum Valley district/Slick Rock district/Colorado Plateau/Salt Wash Member/Dolores County/San Miguel County/Paradox district/

Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ore deposits/uranium/lithology/mineralogy/sandstone/subsurface stratigraphy/Morrison Formation/Sage Plain area/Colorado Plateau/Utah/Colorado/Dolores County/Montezuma County/La Plata County/San Miguel County/

Gruner, J. W., 1951
Shinarump Member/Morrison Formation/Colorado Plateau/conglomerate/sandstone/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/Utah/pitchblende/genesis/Chinle Formation/ore deposits/

Gruner, J. W., 1953
Colorado Plateau/ore deposits/syngenic processes/hydrothermal processes/ground water/genesis/Shinarump Member/Morrison Formation/sandstone/conglomerate/mudstone/limestone/Tolito Limestone/Mesa County/Montrose County/Dolores County/San Miguel County/Montezuma County/Chinle Formation/

Gruner, J. W., 1953
Colorado Plateau/ore deposits/intrusives/ore sources/sandstone/Mesa County/Dolores County/Montrose County/San Miguel County/extrusives/Montezuma County/ground water/igneous-metamorphic/

Gruner, J. W., 1956
uranium concentration/sediments/geochemistry/Colorado Plateau/sandstone/Mesa County/genesis/Montrose County/San Miguel County/Dolores County/Montezuma County/multiple migration-accretion/

Gruner, J. W., 1956
uranium concentration/sediments/geochemistry/sandstone/genesis/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/multiple migration-accretion/Colorado Plateau/

Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/Wyoming/ore deposits/uranium/Colorado Plateau/sandstone/siltstone/shale/coffinite/uraninite/organics/Hop Buttes/diartemes/Arizona/Colorado/New Mexico/Utah/Mesa County/Montrose County/San Miguel County/Dolores County/

Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/sandstone/Colorado Plateau/uranium/coffinite/Jurassic/Larimer County/Black King mine/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/mineralogy/Morrison Formation/Bull Canyon district/Calamity Mesa/Paradox Valley/Salt Wash Member/Front Range/

Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1953
clay/Colorado Plateau/Chinle Formation/Dolores County/San Juan County/Arizona/Utah/New Mexico/Colorado/San Juan Mountains/Entrada Sandstone/Greysill mine/sandstone/San Miguel County/

Colorado Plateau/ore deposits/mineralogy/uraninite/coffinite/vanadium/uranium/Colorado/Utah/New Mexico/Tolito Limestone/limestone/Morrison Formation/sandstone/Entrada Sandstone/Dolores County/San Miguel County/Greysill mine/Mesa County/Montrose County/San Juan County/

Guillotte, G. B., 1947
drilling/well logging/drill cores/tables/data/ore deposits/gamma-ray logs/Slick Rock district/Colorado Plateau area/Dolores County/San Miguel County/sandstone/Dolores Plateau/
Hackman, R. J., 1952
Dolores County/ San Miguel County/ photogeologic map/ Verdue-1 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1952
Dolores County/ photogeologic map/ Verdue-8 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1952
Dolores County/ Montezuma County/ photogeologic map/ Verdue-9 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1959
Dolores County/ Montezuma County/ photogeologic map/ Yellow Jacket quadrangle/ sandstone/ Colorado Plateau/

Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral belt/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/

Hastings, J. S., 1963
Uranium mineral belt/ Colorado Plateau/ sandstone/ exploration/ Montrose County/ San Miguel County/ Dolores County/ geology/ mining methods/

Colorado/ Utah/ geology/ structure/ ore deposits/ uranium/ Cortez quadrangle/ map/ host formations/ sandstone/ San Miguel County/ Dolores County/ La Plata County/ Colorado Plateau/ stratigraphy/ Montezuma County/

Hess, F. L., 1914
genesis/ carnitite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Hess, F. L., 1925
carnitite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/

High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/

High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ igneous-metamorphic/ San Miguel County/ Colorado Plateau/ Mesa County/

High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Mesa County/ Saguache County/ igneous-metamorphic/ Pitch mine/ Colorado Plateau/ Dolores County/

High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/ mines/ reports/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/

High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ mines/ Colorado Plateau/

High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/ drilling/ Dolores County/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/ Rico-Argentine district/

Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ drilling/ Morrison Formation/ Uravan district/ Yellow Cat mine/ Monogram Mesa/ Gateway district/

Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/ Mesa County/ San Miguel County/ Dolores County/ drilling/ exploration/ ore deposits/ Morrison Formation/ Salt Wash Member/ Uravan district/ Gateway district/ Gypsum Valley district/ Montrose County/

Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/

Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/

Houser, F. N., and Ekren, E. B., 1959
Ute Mountains/ Montezuma County/ Dolores County/ sandstone/ Cretaceous strata/ Colorado Plateau/ Dakota Sandstone/

Huff, L. C., 1954
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ mapping/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores County/ San Miguel County/ ore deposits/
Huff, L. C., 1955
Colorado/ Utah/ ore deposits/ Colorado Plateau/ Dolores County/ San Miguel County/ stratigraphy/ Salt Wash Member/ sandstone/ uranium/ vanadium/ Sage Plain area/ Morrison Formation/

Huff, L. C., and Lesure, F. G., 1956
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ Salt Wash Member/ geochemistry/ Middle Montezuma group/ Coyote No. 1 mine/ Verdeure mine/ Strawberry mine/ Rainbow mine/ ore deposits/ geophysical logs/ Lucky Boy mine/

Huff, L. C., and Lesure, F. G., 1956
Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ mines/ Salt Wash Member/ peat/ Sage Plain area/ Utah/ ore deposits/

Huff, L. C., and Lesure, F. G., 1957
Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Salt Wash Member/ sandstone/ stratigraphy/ mapping/ structure/ ore deposits/ geochemistry/ mines/ Sage Plain area/ Morrison Formation/

Huleatt, W. P., Hazen, S. W., Jr., and Traver, W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/

Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ Montrose County/ San Miguel County/ Dolores County/ Big Indian Wash - Lisbon Valley district/ Mesa County/ stratigraphy/ structure/

Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash - Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954
uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnnotite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/

Jobing, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/

Jobing, H. R., and Byerly, P. E., 1956
Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ sandstone/ Colorado Plateau/ geology/ Dolores County/ Montrose County/ Montezuma County/ aeromagnetics/ gravity profiles/ sandstone/ Colorado Plateau/ Colorado/ Utah/ Mesa County/ Montrose County/ Dolores County/ Uravan district/ geology/ ore deposits/ geophysics/ San Miguel County/

Jobing, H. R., and Byerly, P. E., 1958
Disappointment Valley/ Disappointment syncline/ Nucla district/ Paradox district/ Uncompahgre
DOLORES COUNTY

Plateau/ Mesa County/ Montrose County/ San Miguel County/ geophysics/ salt anticlines/ map/ ore deposits/ sandstone/ Gypsum Valley district/ Uravan district/ geology/ Dolores County/ Colorado Plateau/


Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952 Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Roult County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952 Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Roult County/ Huerfano County/ Ouray County/ Larimer County/ Delta County/ Eagle County/ igneous-metamorphic/

Kellogg, J. P., 1962 clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955 sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955 sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956 Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Rio Blanco County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956 Colorado Plateau/ ore deposits/ genesis/ Delta County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1959 jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kelley, V. C., and Clinton, N. J., 1960 Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kellogg, J. P., 1952 Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Salt Wash Member/ Tenderfoot Mesa/

Kellogg, J. P., 1954 drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/
Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/

Kirkemo, Harold, 1954
Colorado Plateau/ sandstone/ exploration/ drilling/ Mesa County/ Montrose County/ San Miguel County/ Utevan district/ ore deposits/ Morrison Formation/ Colorado/ Utah/ Arizona/ Long Park district/ Dolores County/ Yellow Cat mine/ Slick Rock district/

Koeberlin, F. R., 1938
copper/ vanadium/ uranium/ silver/ Colorado/ Utah/ genesis/ ore deposits/ discussion/ Montrose County/ Colorado Plateau/ Mesa County/ Montezuma County/ San Miguel County/ Dolores County/ sandstone/

Langan, L. V., and Ash, H. O., 1955
Colorado Plateau/ ore deposits/ uranium/ field trip/ New Mexico/ Utah/ Colorado/ stratigraphy/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ Montezuma County/ Montrose County/ San Miguel County/

Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Leaming, G. F., 1971
economic development/ Arizona/ economic analysis/ New Mexico/ Utah/ Colorado/ economic conditions/ minerals/ mining/ fuels/ industries/ iron/ uranium/ silver/ copper/ titanium/ coal/ natural gas/ oil shale/ sandstone/ ore deposits/ Colorado Plateau/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/

hendersonite/ vanadium/ Colorado Plateau/ vanadates/ Paradox Valley/ Montrose County/ Morrison Formation/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ crystallography/ geochemistry/

Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnotite/ roscelite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata County/

Sandstone/ McElmo Formation/ genesis/ Gilpin County/ igneous-metamorphic/ ore deposits/ Front Range/

Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground waters/ mineralization/ sandstone/ Jurassic/ syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

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McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coals/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/

McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coals/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/

McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coals/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/

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ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/

Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/

Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/
Dolores County

Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/

Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/ chemical composition/ size determination/ Jurassic/ sandstone/ ore guides/ uranium/ statistics/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Morrison Formation/

Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/

chemical composition/ ore guides/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ statistics/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ geology/

Colorado Plateau/ ore deposits/ sandstone/ ore guides/ deposit size/ Jurassic/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ uranium/ chemical composition/ Morrison Formation/

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Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/

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lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/ uranium/ vanadium/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Newman, W. L., 1959
Colorado Plateau/ ore deposits/ sandstone/ resources/ indicators/ ore guides/ chemical composition/ exploration/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Urvan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Nininger, R. D., and Wentzel, Volkmar, 1954
exploration/ ore deposits/ Colorado Plateau/ Urvan district/ Dolores County/ San Miguel County/ Montrose County/ sandstone/

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ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompaghre district/ Colorado Plateau/ igneous-metamorphic/

San Juan Mountains/ Dolores County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ endsite/ San Miguel County/ hydrocarbons/ calcareous tufa/ hot springs/ limonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompaghre Formation/ igneous-metamorphic/ spring deposits/ Colorado Plateau/
Pommer, A. M., 1956
oxidation potential/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Morrison Formation/ Utah/ Arizona/ Colorado/ New Mexico/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ Jo Dandy area/ ore deposits/ genesis/ Woody material/ San Miguel County/

Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chiricahua Formation/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chiricahua Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/

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Colorado Plateau/ Uravan district/ structure/ ore deposits/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Ruckmick, J. C., 1953
heavy minerals/ simulation/ ore deposits/ placers/ gravels/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ sanpete/ Shinarump Member/ conglomerate/ Colorado Plateau/ fluvial deposits/ San Miguel County/

Schultz, L. G., 1963
clay minerals/ Moenkopi Chiricahua/ Morrison Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/

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San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ ore deposits/ geology/

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Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ Colorado Plateau/ ore deposits/ geology/

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Colorado Plateau/ ore localization/ Uravan district/ sedimentation/ uranium/ vanadium/ Morrison Formation/ Sandstone/ carbonaceous materials/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/

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Slick Rock district/ ore deposits/ Chiricahua Formation/ Morrison Formation/ San Miguel County/ Dolores County/ petrography/ sandstone/ uranium/ vanadium/ Colorado Plateau/

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ore deposits/ minerals/ Utah/ Uravan district/ exploration/ Montrose County/ San Miguel County/ Dolores County/ uranium/ vanadium/ sandstone/ Morrison Formation/ Colorado Plateau/

Shawe, D. R., 1970
geology/ tectonics/ ore deposits/ Slick Rock district/ structure/ San Miguel County/ Dolores County/ salt anticlines/ uranium/ vanadium/ sandstone/ Colorado Plateau/

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alteration/ red beds/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Slick Rock district/ San Miguel County/ sandstone/ Mancos Shale/ Morrison Formation/ Colorado Plateau/ San Miguel County/ Dolores County/ sandstone/ Morrison Formation/ Colorado Plateau/

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geologic history/ Slick Rock district/ Colorado Plateau/ Dolores County/ structure/ ore deposits/ tectonics/ uranium/ San Miguel County/ vanadium/

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uranium ore/ rolls/ Rifle district/ Uravan district/ Colorado Plateau/ sandstone/ Entrada Sandstone/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Morrison Formation/

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San Miguel County/ Dolores County/ sandstone/ Cougar mine/ Slick Rock district/ Colorado Plateau/ ore deposits/ geology/

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Colorado Plateau/ geology/ uranium/ vanadium/ ore deposits/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ genesis/ Morrison Formation/

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Colorado Plateau/ geology/ uranium/ vanadium/ ore deposits/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ genesis/ Morrison Formation/

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San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ ore deposits/

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stratigraphy/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Chiricahua Formation/ Colorado Plateau/

Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ igneous-metamorphic/

Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Moenkopi County/ Dolores County/ Archuleta County/

Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/

Moenkopi Formation/ salt anticlines/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/

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uranium industry/ Colorado Plateau/ history/ sandstone/ San Miguel County/ Dolores County/ Montrose County/

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sandstone/ Burro Canyon Formation/ Dakota Sandstone/ formation contacts/ Slick Rock district/ correlation/ fossils/ Dolores County/ San Miguel County/ geology/ stratigraphy/ Colorado Plateau/ Dolores County/ Colorado Plateau/ geology/

Simmons, G. C., 1957
Dakota Sandstone/ stratigraphy/ Slick Rock district/ correlation/ Burro Canyon Formation/ sandstone/ San Miguel County/ Dolores County/ Colorado Plateau/ Dolores County/ geology/

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Colorado Plateau/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ reserves/ La Sal Creek district/ Paradox Valley district/

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Dolores County/ San Miguel County/ Montrose County/ Chiricahua Formation/ sandstone/ Moenkopi Formation/ Wingate Sandstone/ correlation/ Triassic/ Colorado Plateau/ salt anticlines/ Paradox basin/

Dolores County/ Mesa County/ Montrose County/ isopach maps/ Colorado Plateau/ sandstone/ Morrison Formation/ stratigraphy/ Cutler Formation/ Hoskinini tongue/ Moenkopi formation/ Utah/ Arizona/

stratigraphy/ Triassic/ Colorado Plateau/ Chiricahua Formation/ sandstone/ ore deposits/ sedimentary structure/ lithofacies/ San Miguel County/ Dolores County/ sedimentary petrology/

Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

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Colorado Plateau/ sandstone/ airborne radiometrics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ New Mexico/ Arizona/ Utah/ exploration/ instrumentation/ Mesa County/

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Verdure quadrangle/ Utah/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ ore deposits/ economic map/ resources/

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geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Dolores County/ reconnaissance/ ore deposits/ Colorado Plateau/ sandstone/

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geology/ San Miguel County/ Uravan district/ sandstone/ Colorado Plateau/ Powderhorn district/ igneous-metamorphic/ exploration/ Slick Rock district/ Gypsum Valley district/ Morrison Formation/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ Login group/ Monogram Mesa/ Club Mesa/ carnitide/ ore deposits/ Gunnison County/

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sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/
DOLORES COUNTY

County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

Weir, D. B., 1951
Colorado Plateau/ sandstone/ carnitite/ ore guides/ exploration/ ore deposits/ Morrison Formation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geology/

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Colorado Plateau/ ore guides/ exploration/ carnitite/ ore deposits/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geology/

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exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ geology/ sandstone/

uranium/ sandstone/ ore deposits/ Colorado Plateau/ Uarvan district/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Uranium district/ ore deposits/ sandstone/ uranium/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

DOUGLAS COUNTY

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/

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surface water/ rivers/ South Platte River/ geochemistry/ uranium/ analyses/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/ reconnaissance/

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tectonics/ Front Range/ igneous-metamorphic/

DOUGLAS COUNTY

Gilibin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

arkose/ uranium/ ore deposits/ exploration/ aerial prospecting/ reconnaissance/ El Paso County/ Denver basin/ Dawson Arkose/ sandstone/ Arapahoe County/ Elbert County/ Douglas County/

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Colorado/ Wyoming/ Utah/ field trip/ guidebook/ Tertiary/ Cretaceous/ energy resources/ uranium/ sandstone/ ore deposits/ oil/ gas/ oil shale/ coal/ Denver basin/ Dawson Formation/ Laramie Formation/ Dakota Sandstone/ Morrison Formation/ Weld County/ Douglas County/ Arapahoe County/ Elbert County/ Rocky Mountains/

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pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/

Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South Platte area/ Douglas County/ Teller County/ Park County/ igneous-metamorphic/ mineralogy/ analyses/ rare earth minerals/

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reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

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uranium/ alteration zones/ LANDSAT MSS imagery/ Jefferson County/ Boulder County/ Mesa County/ Monsro County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ igneous-metamorphic/

Otton, J. K., and Ward, F. N., 1975
uranium/ trace elements/ stream sediments/ Denver basin/ Castle Rock/ Douglas County/ Jefferson County/ Arapahoe County/

616
EAGLE COUNTY

Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/

Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

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gEOLOGY/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Douglas County/ reconnaissance/ ore deposits/ Front Range/ sandstone/

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ore deposits/ exploration/ stream sediments/ sampling techniques/ San Juan County/ Douglas County/ surface water/

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Colorado/ Utah/ Arizona/ vanadium/ Placerville district/ San Miguel County/ sandstone/ Eagle County/ carnitite/ uranium/ Paradox Valley/ production/ uses/ ore treatment/ geology/ Colorado Plateau/

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petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Silt Wash Member/

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stratigraphy/ genesis/ Chiricahua Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

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uranium/ ore deposits/ stratigraphy/ mineralization/ geology/ geological surveys/ meteoric water/ siltstone/ Eagle County/ sandstone/ limestone/ Minturn Formation/ Vail Pass area/

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map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

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thermal/ luminescence/ radioactive minerals/ limestone/ ore deposits/ limestone/ Gilman district/ ore guides/ hydrothermal alteration/ Eagle County/ Puerto Rico limestone/ igneous-metamorphic/

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ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Hess, F. L., 1914
genesis/ carnitite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

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uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/ minerals/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata
EAGLE COUNTY

Keevil, N. B., 1941
uranium/ exploration/ Gilman district/ Eagle County/ ore deposits/ radioactive aureoles/ veins/ igneous-metamorphic/

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ore deposits/ resources/ production/ uranium/ exploration/ Gilman district/ Eagle County/ igneous-metamorphic/ veins/ radioactive aureoles/

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radioactive aureoles/ ore deposits/ uranium/ exploration/ Gilman district/ Eagle County/ igneous-metamorphic/ veins/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/

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Gilman district/ Colorado/ Santa Rita district/ New Mexico/ ore deposits/ alteration/ radioactivity/ Eagle County/ igneous-metamorphic/

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uranium/ ore deposits/ exploration/ drilling/ geology/ topography/ carnallite/ sandstone/ Piney Drilling Project/ Eagle County/ Shinarump Member/ Chine Formation/

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lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ Eagle County/

Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Montezuma District/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structural/

Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ or deposit/ tectonics/

Phair, George, 1953
Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/
Eagle County

pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/

Stafford, H. S., 1955
uranium/ exploration/ geology/ stratigraphy/ sedimentary rocks/ carnitote/ Triassic sediments/ Eagle County/ State Bridge-Malcolm area/ sandstone/ ore deposits/

tweto, Ogden, Bryant, Bruce, and Williams, F. E., 1970
minerals/ resources/ Gore Range-Eagles Nest Primitive Area/ Summit County/ Eagle County/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Eagle County/ reconnaissance/ ore deposits/ sandstone/ limestone/

Vine, J. O., and Flege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/

Elbert County

arkose/ uranium/ ore deposits/ exploration/ aerial prospecting/ reconnaissance/ El Paso County/ Denver basin/ Dawson Arkose/ sandstone/ Arapahoe County/ Elbert County/ Douglas County/

Colorado/ Wyoming/ Utah/ field trip/ guidebook/ Tertiary/ Cretaceous/ energy resources/ uranium/ sandstone/ ore deposits/ oil/ gas/ oil shale/ coal/ Denver basin/ Dawson Formation/ Laramie Formation/ Dakota Sandstone/ Morrison Formation/ Weld County/ Douglas County/ Arapahoe County/ Elbert County/ Rocky Mountains/

Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/

Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

El Paso County

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Elbert County/ reconnaissance/ ore deposits/ sandstone/

El Paso County

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Beroni, E. P., and King, R. U., 1950
Front Range/ minerals/ carnitote/ Mike Doyle mine/ continental carbonaceous shale/ Morrison Formation/ El Paso County/ geology/ ore deposits/ sandstone/

Beroni, E. P., and King, R. U., 1952
Colorado Springs/ Mike Doyle mine/ ore deposits/ carnitote/ El Paso County/ sandstone/ Front Range/ carbonaceous shale/ Morrison Formation/ geology/

Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/ coal/ uraninite/ uranyl ion/ geochemistry/ reduction/ Colorado Plateau/ Front Range/ sandstone/ carbonaceous substances/

ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek - Victor district/

arkose/ uranium/ ore deposits/ exploration/ aerial prospecting/ reconnaissance/ El Paso County/ Denver basin/ Dawson Arkose/ sandstone/ Arapahoe County/ Elbert County/ Douglas County/

Buck, K. L., 1955
bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

Buck, K. L., 1957
ore deposits/ bibliography/ thorium/ rare earths/
Finch, W. I., 1967
Colorado Plateau: Front Range; igneous-metamorphic; geology/Larimer County/Jackson County/Routt County/Moffat County/Garfield County/Grand County/Eagle County/Boulder County/Jefferson County/Park County/Mesa County/Montrose County/El Paso County/San Miguel County/Bent County/Park County/Saguache County/Pueblo County/Dolores County/Las Animas County/Huerfano County/Costilla County/Custer County/San Juan County/La Plata County/Montezuma County/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/mineralized waters/springs/spring deposits/Front Range/Jefferson County/Pitkin County/Pueblo County/Garfield County/Park County/El Paso County/Ouray County/Boulder County/Gunnison County/Delta County/Chaffee County/

Gill, J. R., 1953
Colorado/Montana/Wyoming/ordeposits/carbonate rocks/coal/Park County/Gunnison County/Delta County/Las Animas County/El Paso County/Teller County/La Plata County/Montezuma County/Denver Basin/Larimer County/shale/Creede Basin/Laramie Formation/Colorado Plateau/Front Range/

Hall, C. R., 1976
alkaline/igneous rocks/igneous-metamorphic/Gilpin County/Front Range/bibliography/San Juan County/Custer County/Fremont County/La Plata County/Montezuma County/Gunnison County/Saguache County/El Paso County/Rio Grande County/Jefferson County/Larimer County/Boulder County/Colorado Plateau/Clear Creek County/Teller County/

Hanley, E. S., 1948
El Paso County/Golden Cycle mill dump/tailings/Cripple Creek ore/Teller County/Front Range/igneous-metamorphic/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/geology/mineralogy/Chaffee County/Boulder County/Clear Creek County/Douglas County/Fremont County/Gunnison County/Jefferson County/Larimer County/Montrose County/Park County/monazite/thorium/production/Front Range/El Paso County/igneous-metamorphic/Colorado Plateau/Wyoming/Utah/Summit County/

Hurley, P. M., and Fairbairn, H. W., 1957
uranium/thorium/zircon/analyses/Front Range/sphere/apatite/epidote/monazite/granite/minerals/pegmatites/mineralogy/Climax/Colorado/Massachusetts/Nova Scotia/Canada/Germany/El Paso County/Eagle County/Lake County/Summit County/igneous-metamorphic/

Kelly, F. N., 1962
thorium/Wet Mountains/Custer County/El Paso County/Fremont County/Gunnison County/Jefferson County/Park County/mineralogy/Powderhorn district/rare earths/resources/igneous-metamorphic/Colorado/Wyoming/New Mexico/economics/Front Range/Gilpin County/

King, R. U., 1951
reconnaissance/Front Range/geology/mineralogy/pitchblende/Boulder County/Clear Creek County/Gilpin County/Chaffee County/Custer County/El Paso County/Fremont County/Huerfano County/Jefferson County/Larimer County/Teller County/veins/igneous-metamorphic/stream sediments/spring deposits/shear zones/pegmatites/sandstone/coal/Eagle County/Grand County/Gunnison County/Lake County/Moffat County/ordeposits/Douglas County/San Miguel County/Summit County/

King, R. U., and Beroni, E. P., 1953
igneous-metamorphic/reconnaissance/Jefferson County/Park County/El Paso County/Clear Creek County/prospects/uranium/thorium/Front Range/ordeposits/geology/

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/Golden Gate Canyon/Haputa Ranch area/Ouray hot springs/Chaffee County/Custer County/Gunnison County/Jefferson County/Ouray County/radioactive monazite/Lucky Break iron mine/sandstone/thorium/uranium/spring deposits/Front Range/conglomerate/limestone/tufa/analyses/igneous-metamorphic/ordeposits/El Paso County/

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/Golden Gate Canyon/Haputa Ranch area/Ouray hot springs/Chaffee County/Custer County/Gunnison County/Jefferson County/Ouray County/radioactive monazite/Lucky Break iron mine/thorium/uranium/spring deposits/Front Range/sandstone/conglomerate/limestone/tufa/El Paso County/igneous-metamorphic/ordeposits/

Canon City embayment/airborne radiometrics/Pueblo County/shale/clay/George Avery Ranch/carnotite/analyses/Hoyt Adkins Ranch/Burgess prospect/El Paso County/Dawson Arkose/sandstone/Dakota Formation/Fremont County/geology/Morrison Formation/Front Range/

Olson, J. C., and Adams, J. W., 1962
thorium/rare earths/United States/Colorado/igneous-metamorphic/Gunnison County/Fremont County/Custer County/Larimer County/Gilpin County/Montezuma County/Moffat County/El Paso County/

Osterwald, F. W., 1956
Cordilleran foreland/Clear Creek County/Jefferson County/ordeposits/Routt County/Jackson County/El Paso County/Park County/Grand County/Front Range/igneous-metamorphic/Larimer County/Eagle County/Summit County/Fremont County/Saguache County/Teller County/Charleston County/tectonics/Gilpin County/Pueblo County/Custer County/Precambrian/genesis/structures/
EL PASO COUNTY

Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/
Teller County/ structural controls/ ore deposits/
Cordilleran foreland/ igneous-metamorphic/ Gilpin County/
Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/

Phair, George, and Shedd, H. A., 1955
La Plata County/ Front Range/ tectonics/
Cordilleran foreland/ igneous-metamorphic/ Gilpin County/
Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/

Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/
Jefferson County/ Kiowa County/ Larimer County/
Pueblo County/ mineralogy/ petrology/ geochemistry/
black shale/ alteration/ White River group/
uranium/ radioactivity/ Cretaceous shales/ Great
Plains/ El Paso County/

Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/
El Paso County/ Jefferson County/ Kiowa County/
Larimer County/ Pueblo County/ petrology/
geochemistry/ black shale/ alteration/ White
River group/ uranium/ radioactivity/ Cretaceous
shales/ Great Plains/ Cheyenne County/ mineralogy/

U.S. Atomic Energy Commission, 1966
geochemistry/ uranium/ geophysical prospecting/ economic
geochemistry/ mining engineering/ petrology/ minerals/
radioactivity/ El Paso County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ igneous-metamorphic/

FREMONT COUNTY

Armbrustmacher, T. J., 1975
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/

Armbrustmacher, T. J., 1976
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/
Chaffee County/ Clear Creek County/ Douglas
County/ El Paso County/ Fremont County/ Huerfano
County/ Jefferson County/ Larimer County/ Park
County/ igneous-metamorphic/ Front Range/

Bever, J. E., 1952
Park County/ Fremont County/ igneous-metamorphic/
geology/ petrology/ Guffey-MicaHonite region/

Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/
Gilpin County/ Larimer County/ Boulder County/

Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/

Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/
reconnaissance/ province/ Canyon City embayment/
City Slicker mine/ igneous-metamorphic/ El Paso
County/ Las Animas County/ La Veta Pass/ Alamosa
County/ Costilla County/ sandstone/ Fremont
County/ Huerfano County/ Pueblo County/ Rio
Grande County/ Sagache County/ Teller County/ Dakota
Sandstone/ Morrison Formation/ Cripple Creek - Victor
district/

Christman, R. A., Brock, M. R., and Singewald,
Q. D., 1954
Wet Mountains/ ore deposits/ exploration/ Custer
County/ thorium/ Fremont County/ Pueblo County/
veins/ igneous-metamorphic/

Christman, R. A., Brock, M. R., Pearson, R. C.,
and Singewald, Q. D., 1954
Wet Mountains/ Heputa Ranch/ Silver Cliff district/
McKinley Mountain area/ Rosita district/ Tuttle
Ranch/ Westcliff area/ Custer County/ Fremont
County/ Pine Tree claim/ stratigraphy/ ore deposits/
structure/ Precambrian rocks/ rare earths/ veins/
thorium/ igneous-metamorphic/

Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1955
Wet Mountains/ ore deposits/ thorium/ Custer
County/ Fremont County/ veins/ igneous-metamorphic/
rare earths/ Pueblo County/

Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1960
Wet Mountains/ ore deposits/ resources/ production/
geology/ thorium/ Custer County/ Pueblo County/
Fremont County/ veins/ igneous-metamorphic/

Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953
thorium/ Wet Mountains/ Custer County/ Fremont
County/ metamorphic rocks/ thorite/ ore deposits/
veins/ igneous-metamorphic/ shear zones/

Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953
thorium/ reconnaissance/ Wet Mountains/ Fremont
County/ Custer County/ igneous-metamorphic/
exploration/ veins/ ore deposits/

Christman, R. A., Heyman, A. M., Dellwig, L. F.,
1953
drilling/ analyses/ igneous-metamorphic/ Wet
Mountains/ structure/ geology/ mineralogy/ Custer
County/ Fremont County/ Heputa Ranch/ Tuttle
Ranch/ stratigraphy/ Precambrian rocks/ thorium/
rare earths/ ore deposits/ veins/ Atomic Mountain
group/ Barite lode/ thorite/ Big Chief I claim/
Darby extension/

Dehlem, D. H., 1965
geochemistry/ Lookout Mountain area/ Fremont County/
alpine complex/ petrology/ McClure Mountains/
igneous-metamorphic/
Del Rio, S. M., compiler, 1960
minerals/resources/ Colorado/ uranium/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Front Range/ Jefferson County/ Fremont County/ sandstone/ igneous-metamorphic/ Moffat County/

DeWitt, L. F., 1951
Willis Tuffie ranch/ Greenwood thorium property/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ igneous-metamorphic/ alkalic rocks/

Egip, R. C., and Chapin, C. E., 1974
stratigraphy/ Thirty-nine Mile volcanic field/ Summit County/ Fremont County/ stratigraphic nomenclature/ igneous-metamorphic/

Fenton, M. D., and Faure, G., 1970
Gunnison County/ Iron Hill complex/ Rb-Sr/ age determinations/ carbonatite/ alkalic complexes/ thorium/ Fremont County/ igneous-metamorphic/ McClure Mountain complex/

Fix, P. F., 1955
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Gerhard, L. C., and Mark, Anson, 1968
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Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/

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alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

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pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/

Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison County/ production/ thorium/ Fremont County/ Custer County/ igneous-metamorphic/

Heinrich, E. W., 1948
pegmatites/ thorium/ rare earth minerals/ Chaffee County/ Fremont County/ monazite/ igneous-metamorphic/ ore deposits/ fluorite/

Heinrich, E. W., and Bever, J. E., 1957
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/

Heinrich, E. W., and Dahlem, D. H., 1966
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/ carbonatite/ Arkansas River Canyon area/

Heinrich, E. W., and Dahlem, D. H., 1967
carbonatites/ alkalic rocks/ Fremont County/ McClure Mountain/ Iron Mountain/ geology/ petrography/ genesis/ igneous-metamorphic/ Arkansas River area/

Heinrich, E. W., and Dahlem, D. H., 1970
Fremont County/ igneous-metamorphic/ dikes/ Iron Mountain alkalic complex/ alkalic rocks/ McClure Mountain alkalic complex/

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Fremont County/ Custer County/ igneous-metamorphic/ petrology/ carbonatites/ Gem Park/ gabbro/ intrusives/

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alkaline rocks/ carbonatites/ Arkansas River Canyon/ Iron Mountain/ McClure Mountain/ geology/ mineralogy/ petrology/ amethyst carbonatites/ Fremont County/ igneous-metamorphic/

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uranium/ crude oil/ petroleum/ Moffat County/ conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/ Morrison Formation/ Archuleta County/ Cretaceous/ Dakota Sandstone/ Mancos Shale/ Morgan County/ Rio Blanco County/ sandstone/ trace elements/ Shinarump Member/ Fremont County/

Jensen, F. S., 1957
Fremont County/ Tallahassee Creek district/ ore deposits/ uranium/ sandstone/ arkose/ volcanic detritus/ igneous-metamorphic/ Dickson-Snooper mine/ Sunshine mine/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ La Plata County/ Park County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/
bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

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thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/

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reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., and Theobald, P. K., Jr., 1955
Canon City/ ldledale/ ore deposits/ exploration/ Jefferson County/ veins/ FMD mine/ Front Range/ geology/ igneous-metamorphic/ Fremont County/

MacPherson, B. A., 1959
uranium/ ore deposits/ geology/ stratigraphy/ topography/ lithology/ mineralogy/ Fremont County/ igneous-metamorphic/ volcanics/ conglomerate/ arkose/ uraninite/ Sunshine mine/ genesis/ ore controls/ Mary L mine/ Tallahassee Creek district/ Dickson-Snooper mine/

Malan, R. C., 1969
intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/

Malan, R. C., 1969
genesis/ ore deposits/ Tertiary/ intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/

McCarn, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/

Moore, D. G., 1970
Custer County/ Fremont County/ igneous-metamorphic/ thorium/ geology/ mineralogy/ genesis/ Wet Mountains/ feldspar rocks/ alkaline rocks/ carbonatite/

Canons City embayment/ airborne radiometrics/ Pueblo County/ shale/ clay/ George Avery Ranch/ carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess prospect/ El Paso County/ Dawson Arkose/ sandstone/ Dakota Formation/ Fremont County/ geology/ Morrison Formation/ Front Range/

Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/ igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/

thorium/ alkaline rocks/ age dating/ carbonatite/ Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonics/ igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/

Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/

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Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/

Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/

Page, L. R., 1950
pegmatite/ geochemistry/ igneous-metamorphic/ uranium/ mineralogy/ Gunnison County/ Larimer County/
FREMONT COUNTY

County/ Chaffee County/ Fremont County/ Front Range/
Parker, R. L., and Hildebrand, F. A., 1963
alkalic rocks/ intrusive/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ geology/ petrology/
Parker, R. L., and Sharp, W. N., 1970
carbonatites/ mafic-ultramafic/ thorium/ monazite/ geology/ Gem Park complex/ Custer County/ Fremont County/ mineralogy/ geochemistry/ igneous-metamorphic/
Phair, George, and Gilbert, F. L., 1959
igneous-metamorphic/ thorium/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ veins/ zoning/
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Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ Isotopic variation/ igneous-metamorphic/
Salotti, C. A., 1961
Fremont County/ igneous-metamorphic/ sandstone/ Cotopaxi area/ Howard area/ geology/ petrology/
Salotti, C. A., 1962
Fremont County/ igneous-metamorphic/ petrology/ structure/ Howard area/ metasediments/ Precambrian rocks/
Salotti, C. A., 1965
mineralogy/ paragenesis/ Cotopaxi area/ Chaffee County/ Custer County/ Fremont County/ Park County/ igneous-metamorphic/ petrology/ geology/ skarn/ ore deposits/ copper/ zinc/ uranium/
Shappirio, J. R., 1963
Fremont County/ sandstone/ geology/ petrology/ Tallahassee Creek area/ ore deposits/ conglomerate/
Shappirio, J. R., and Heinrich, E. W., 1961
Tallahassee Creek area/ ore deposits/ Fremont County/ uranium/ conglomerate/ sandstone/
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Tallahassee Creek area/ ore deposits/ Fremont County/ uranium/ conglomerate/ sandstone/
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thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ igneous-metamorphic/ gneiss/ pegmatites/ ore deposits/
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ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ igneous-metamorphic/
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ore deposits/ veins/ mineralogy/ geochemistry/ minerals/ thorite/ monazite/ genesis/ controls/ ore controls/ structural controls/ thorium/ igneous-metamorphic/ Wet Mountains/ Powderhorn district/ Gunnison County/ carbonatite/ alkaline complexes/ Custer County/ Fremont County/
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thorium/ igneous-metamorphic/ alkaline igneous rocks/ Fremont County/ Custer County/ Gunnison County/
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thorium/ resources/ igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ Front Range/
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thorium/ veins/ carbonate/ Road Gulch area/ Wet Mountains/ rare earths/ igneous-metamorphic/
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mineralogy/ ore deposits/ minerals/ Colorado Plateau/ sandstone/ Montrose County/ Jo Dandy area/ Rifle mine/ Garfield County/ clay minerals/
Garfield County

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 ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrel mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/

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Rifle mine/ Garfield County/ McElmo Sandstone/ sandstone/ ore deposits/ mining methods/ mining costs/ uranium/ vanadium/ exploration/ geology/ history/ Entrada Sandstone/

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vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/

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Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todilto Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/

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petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/

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geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geography/ Garfield County/ Moenkopi Formation/

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stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

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Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Dolores County/ Montrose County/ La Plata County/ geobotany/

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map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

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geochemistry/ structure/ map/ Grand Junction quadrangle/ Colorado/ Utah/ Colorado Plateau/ Mesa County/ sandstone/ Rio Blanco County/ Garfield County/

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sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnallite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/

Chenoweth, W. L., 1977
Garfield County/ sandstone/ Colorado Plateau/ San Miguel County/ Dolores County/ Montezuma County/ Montrose County/

Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/

Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/

Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits/ Rifle district/ Rio Blanco County/ Colorado/ Moffat County/ Maybell-Lay district/ Coal Creek area/ Skull Creek district/ Browns Park Formation/ Garfield County/ Meeker district/ Utah/ Entrada Sandstone/ sandstone/ Colorado Plateau/

Craig, I. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
Garfield County

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/

Doyle, J. W., 1975
Garfield County/ Garfield mine/ Rifle mine/ sandstone/ uranium/ vanadium/ Colorado Plateau/ Entrada Sandstone/

Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Uravan district/ Gateway district/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/

Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/

Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chine Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montezuma County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chine Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/

Garfield County

Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fischer, R. P., 1942
vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/

Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/ radium/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ sandstone/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Dolores County/ Colorado Plateau/

Fischer, R. P., 1944
vanadium/ Colorado/ Utah/ Colorado Plateau/ uranium/ Entrada Sandstone/ sandstone/ Garfield County/ San Miguel County/

Fischer, R. P., 1947
Colorado Plateau/ exploration/ drilling/ sandstone/ carnotite/ recommendations/ Garfield County/ San Miguel County/ Montrose County/ Mesa County/

Fischer, R. P., 1947
sandstone/ Colorado Plateau/ vanadium/ genesis/ ore deposits/ Garfield County/ San Miguel County/

Fischer, R. P., 1948
Morrison Formation/ Entrada Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Uravan district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

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Morrison Formation/ Colorado Plateau/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ Garfield County/ Rio Blanco County/ sandstone/ ore rolls/ carnotite/ geology/ ore deposits/ mineralogy/ alteration/ Club mine/ uranium/ radium/ vanadium/ Entrada Sandstone/ genesis/

Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/

627
Garfield County

Fischer, R. P., 1955
vanadium/uranium/geochemistry/Colorado Plateau/
igneous-metamorphic/sedimentary rocks/veins/
sandstone/ore deposits/San Miguel County/
Mesa County/Montrose County/Dolores County/
Garfield County/hot springs/

Fischer, R. P., 1955
veins/igneous-metamorphic/sedimentary rocks/
sandstone/vanadium/uranium/ore deposits/
Colorado Plateau/geochemistry/San Miguel County/
Mesa County/Montrose County/Dolores County/
Garfield County/hot springs/

Durango district/Placerville district/Rico
district/uranium/vanadium/chromium/Delta
County/Garfield County/La Plata County/Ouray
County/Rio Blanco County/San Juan County/
San Miguel County/minerals/mariposite/sandstone/
Entrada Sandstone/regional relations/ore deposits/
Colorado Plateau/Mesa County/Moffat County/
Montezuma County/Montrose County/Rifle area/
Dolores County/

Fischer, R. P., 1956
ore deposits/Colorado Plateau/uranium/vanadium/
localization/Entrada Sandstone/sandstone/
Rifle district/Garfield County/genesis/San
Miguel County/La Plata County/Placerville
district/Rico district/Dolores County/

Fischer, R. P., 1956
vanadium/uranium/ore deposits/Colorado Plateau/
sandstone/Garfield County/San Miguel County/
La Plata County/Rifle district/Placerville
district/Rico district/Durango district/genesis/
localization/Dolores County/Entrada Sandstone/

Fischer, R. P., 1957
ore deposits/Colorado Plateau/uranium/vanadium/
localization/genesis/Rifle Creek area/Garfield
County/Entrada Sandstone/sandstone/geostratigraphy/mineralogy/

Fischer, R. P., 1960
vanadium/uranium/mineralogy/Rifle mine/Rifle
Creek area/Garfield County/ore deposits/Entrada
Sandstone/Morrison Formation/sandstone/Colorado
Plateau/

Fischer, R. P., 1962
Colorado/vanadium/sandstone/Entrada Sandstone/
Garfield County/United States/Colorado Plateau/

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geology/structure/genesis/sandstone/San
Miguel County/Montrose County/Mesa County/
Dolores County/Chinle Formation/Morrison Formation/
Montezuma County/La Plata County/San Juan
County/Garfield County/Rio Blanco County/
Moffat County/Entrada Sandstone/production/
stratigraphy/Colorado Plateau/ore deposits/

Fischer, R. P., and Stewart, J. H., 1960
bed distribution/lithology/sandstone/uranium/
vanadium/copper/Colorado/Morrison Formation/
Colorado Plateau/ore deposits/San Miguel County/
Garfield County/Entrada Sandstone/

Fischer, R. P., and Stewart, J. H., 1961
copper/vanadium/uranium/ore deposits/sandstone/
Colorado Plateau/Entrada Sandstone/geochemistry/
San Miguel County/Garfield County/

Fischer, R. P., Hilpert, L. S., Schumacher, J.
L., and others, 1951
investigations/carnotite/ore deposits/sandstone/
Colorado Plateau/Morrison Formation/Chinle
Formation/Entrada Sandstone/San Miguel County/
Mesa County/Dolores County/Garfield County/

Fischer, R. P., Stokes, W. L., and Smith, L. E., 1944
Rifle mine/Garfield mine/uranium/vanadium/
Garfield County/Entrada Sandstone/sandstone/
geology/Rifle Creek area/Colorado Plateau/
ore deposits/

Fischer, R. P., Stokes, W. L., and Smith, L. E., 1945
Garfield County/vanadium/Entrada Sandstone/
sandstone/uranium/geology/Rifle Creek area/
Rifle mine/Garfield mine/Colorado Plateau/
ore deposits/

Fleck, Herman, and Haldane, W. G., 1907
uranium/vanadium/Colorado Plateau/San Miguel
County/Garfield County/sandstone/ore deposits/

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Colorado Plateau/ore deposits/mineralogy/
geology/clay mineralogy/uranium/vanadium/
sandstone/Moffat County/Rio Blanco County/
Garfield County/Mesa County/Delta County/
San Miguel County/Montrose County/Dolores
County/Montezuma County/La Plata County/Archuleta
County/

Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/oxidation/reduction/ore
deposits/organic/uraninite/pyrite/sandstone/
geology/geochemistry/San Miguel County/Garfield County/
Montrose County/Mesa County/

Garrels, R. M., and Pommer, A. M., 1959
oxidation/reduction/ores/minerals/geochemistry/
ore deposits/mineralogy/Colorado Plateau/
sandstone/San Miguel County/Mesa County/
Montrose County/Garfield County/

thermodynamics/uranium oxides/oxidation states/
Colorado Plateau/ore deposits/San Miguel County/
genesis/sandstone/Montrose County/Garfield
County/Mesa County/

George, R. D., 1917
minerals/rocks/Colorado/occurrences/uses/
Colorado Plateau/sandstone/igneous-metamorphic/
vandium/uranium/radium/carnotite/pitchblende/
Jefferson County/Gilpin County/Front Range/
Montrose County/San Miguel County/Dolores
County/Garfield County/Rio Blanco County/
Routt County/Boulder County/

George, R. D., Curtis, H. A., Lester, O. C., and
others, 1920
Colorado Plateau/mineralized waters/springs/
spring deposits/Front Range/Jefferson County/
Guillot, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado
Utah/ Garfield County/ Rio Blanco County/ uranium
Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ gilsonite/ shale/ Green River Formation/ oil shale/ native asphalts/

Hendricks, T. A., 1948
Green River Formation/ shale/ oil shale/ radioactivity
Garfield County/ analyses/ reconnaissance/ Colorado Plateau/

Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium
Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone
Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/ Hunter, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

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Skull Creek district/ Uranium Peak district/ ore deposits/ Garfield County/ sandstone/ Rio Blanco County/ Moffat County/ guidebook/ Colorado Plateau/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entreda Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Joncon, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/ geochemistry/ sulfur isotopes/ sandstone/ uranium/ Montrose County/ San Miguel County/ Garfield County/ Morrison Formation/ Entrada Sandstone/

Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/ uranium/ ore deposits/ Colorado Plateau/ Wyoming/

Jobin, D. A., 1955
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water
La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water
La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation
Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale
Archuleta County/ Routt County/ Eagle County
Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite
Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Eagle County/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite
Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite
Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Eagle County/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/

Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ structural controls/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/
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Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/

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633
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnitite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

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ore deposits/ milling/ vanadium/ uranium/ veins/ Gilpin County/ Beicher mine/ Quartz Hill district/ Wood vein/ Kirk vein/ German vein/ pitchblende/ Front Range/ igneous-metamorphic/

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Colorado Plateau/ ore deposits/ carnitite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ igneous-metamorphic/

Curran, T. F., 1913
ore deposits/ carnitite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ igneous-metamorphic/

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ore deposits/ Wood mine/ Central City district/ pitchblende/ Gilpin County/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Front Range/

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Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ geology/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ Calhoun mines/ Wood mine/ production/ veins/ Precambrian rocks/ Quartz Mill vein/ Wood vein/ Willowdale vein/ paragenesis/ alteration/ bostonite porphyry/ Clear Creek County/

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rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/

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Gilpin County/ ore deposits/ pitchblende/ production/ vanadium/ Placerville district/ San Miguel County/ rare metals/ uranium/ Entrada Sandstone/ sandstone/ igneous-metamorphic/ Front Range/ Colorado Plateau/

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ore deposits/ production/ rare metals/ tungsten/ molybdenum/ vanadium/ uranium/ Colorado Plateau/ Placerville district/ San Miguel County/ sandstone/ Front Range/ Gilpin County/ igneous-metamorphic/

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Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/
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Freeland-Lamartine district/ Clear Creek County/ veins/ igneous-metamorphic/ Gilpin County/ Front Range/

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Central City district/ Gilpin County/ pitchblende/ Wood mine/ igneous-metamorphic/ Front Range/ ore deposits/ geology/

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reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

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Wood mine/ ore deposits/ pitchblende/ Gilpin County/ igneous-metamorphic/ Front Range/ Central City district/ geology/

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Central City district/ Front Range/ pitchblende/ base metals/ precious metals/ Clear Creek County/ igneous-metamorphic/ Gilpin County/ zoning/ ore deposits/

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Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/

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ore deposits/ zoning/ pitchblende/ hypogene zoning/ Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ Clear Creek County/ 

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copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnalite/ roscoelite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McElmo Formation/ genesis/ Gilpin County/ igneous-metamorphic/ ore deposits/ Front Range/ 

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Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/ 

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veins/ Front Range/ economic geology/ production/ uranium/ Quartz Hill/ Clear Creek County/ geology/ ore deposits/ Gilpin County/ bostonite/ porphyry/ igneous-metamorphic/ Central City district/ 

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veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/

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Dolores County/ Mesa County/ exploration/ carnallite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/

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ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/ Mesa County/ igneous-metamorphic/

genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/

veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/

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veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ coal/ Jefferson County/ Montrose County/ Old Leyden mine/ uranium/ Gilpin County/ Clear Creek County/ Front Range/ genesis/ Mesa County/

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veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunns County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/

Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/

Merwin, S. S., 1956
Front Range/ ore deposits/ uranium/ Jefferson County/ Gilpin County/ Clear Creek County/ Boulder County/ Schwartzwelder mine/ Caribou mine/ Wood mine/ igneous-metamorphic/

Merwin, S. S., 1956
Front Range/ ore deposits/ ore controls/ Jefferson County/ Boulder County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/

Moench, R. H., 1953
mapping/ Idaho Springs district/ Precambrian rocks/ veins/ igneous-metamorphic/ mineralogy/ Stanley mines/ Lawrence L claim/ P. J. claim (?)/ radioactivity/ Clear Creek County/ Gilpin County/ Front Range/ geology/

Moench, R. H., 1964
geology/ Precambrian rocks/ Idaho Springs district/ petrography/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/

Moench, R. H., and Drake, A. A., Jr., 1966
economic geology/ pitchblende/ coffinite/ uranophane/ Idaho Springs district/ Clear Creek County/ Gilpin County/ mineralogy/ ore deposits/ Front Range/ production/ igneous-metamorphic/

Moench, R. H., Harrison, J. E., and Sims, P. K., 1954
Precambrian rocks/ structure/ Idaho Springs district/ Front Range/ geology/ Gilpin County/ Jefferson County/ igneous-metamorphic/ Clear Creek County/

Moench, R. H., Harrison, J. E., and Sims, P. K., 1962
Precambrian rocks/ structure/ Idaho Springs district/ Central City district/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
Moore, F. B., and Butler, C. R., 1950
ore deposits/ Gilpin County/ Central City district/
pitchblende/ Calhoun (east and west) mines/
Wood mine/ base metals/ precious metals/ veins/
igneous-metamorphic/ Front Range/ geology/ reserves/
bostonite porphyry/ Front Range/

Moore, F. B., and Butler, C. R., 1952
Gilpin County/ Central City district/ ore deposits/
pitchblende/ Wood mine/ Calhoun mine/ veins/
igneous-metamorphic/ Front Range/ bostonite/
porphyry/

Moore, F. B., King, R. U., and Hinrichs, E. N., 1951
Caribou district/ Central City district/ Front
Range/ Clear Creek County/ Gilpin County/ Boulder
County/ ore deposits/ Grand Island district/
Jamestown district/ Lawson area/ Quartz Hill
area/ fluorite deposits/ Calhoun mines/ Caribou
mines/ Jo Reynolds mine/ Kirk mine/ Wood mine/
pitchblende/ breccia deposits/ igneous-metamorphic/
exploration/

Moore, R. B., 1913
ore deposits/ carnellite/ Colorado/ Utah/ mining/
uranium/ radium/ vanadium/ North Carolina/ marketing/
San Miguel County/ Montrose County/ Mesa County/
Gilpin County/ pitchblende/ Huerfano County/
Colorado Plateau/ Front Range/ sandstone/

Moya, E. A., 1969
structure/ stratigraphy/ analyses/ Precambrian
rocks/ North Clear Creek area/ Jefferson County/
Gilpin County/ igneous-metamorphic/ Front Range/

Nishimori, R. K., Ragland, P. C., Rogers, J. J.,
and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/
Wheeler Basin/ Grand County/ Front Range/ Park
County/ Clear Creek County/ Gilpin County/ Boulder
County/ Jefferson County/ bostonite dikes/ Central
City district/

Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/
igneous-metamorphic/ Gunnison County/ Fremont
County/ Custer County/ Larimer County/ Gilpin
County/ Montezuma County/ Moffat County/ E1
Paso County/

Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/

Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/
Teller County/ structural controls/ ore deposits/
Cordilleran foreland/ igneous-metamorphic/ Gilpin
County/ Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/

Osterwald, F. W., 1956
ore deposits/ genesis/ veins/ mining districts/
structural controls/ Moffat County/ pitchblende/
conglomerate/ Front Range/ igneous-metamorphic/
sandstone/ Jefferson County/ Boulder County/
Montrose County/ Clear Creek County/ Gilpin
County/ Saguache County/ Fremont County/

Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/
Larimer County/ Boulder County/ Jefferson County/
Clear Creek County/ igneous-metamorphic/ sandstone/
Front Range/ Grand County/ Jackson County/ Summit
County/ Eagle County/ Rio Blanco County/ Garfield
County/ Routt County/ Moffat County/ ore deposits/
tectonics/

Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/
Larimer County/ Boulder County/ Jefferson County/
Gilpin County/ Clear Creek County/ igneous-metamorphic/
sandstone/ Front Range/ Grand County/ Jackson
County/ Summit County/ Eagle County/ Rio Blanco
County/ Garfield County/ Routt County/ Moffat
County/

Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/
structural controls/ tectonic patterns/ Front
Range/ Denver basin/ uranium/ igneous-metamorphic/
Jefferson County/ Boulder County/ Clear Creek
County/ Gilpin County/ Larimer County/

Pearce, Richard, 1966
ore deposits/ uraninite/ Gilpin County/ igneous-metamorphic/
veins/ Front Range/ Wood mine/

Pearce, Richard, 1968
uraninite/ veins/ igneous-metamorphic/ Gilpin
County/ Front Range/

Pearce, Richard, 1969
uraninite/ veins/ igneous-metamorphic/ Gilpin
County/ Front Range/ Wood mine/

Phair, George, 1952
ore deposits/ porphyries/ radioactivity/ Gilpin
County/ Central City district/ pitchblende/
Tertiary/ deposition/ Front Range/ mineralogy/
petrology/ geochemistry/ zircon/ veins/ igneous-metamorphic/
uranium/ thorium/ analyses/ Quartz Hill/ Nigger
Hill dike/ Clear Creek County/ ore deposits/

Phair, George, 1952
Front Range/ Central City district/ ore deposits/
Clear Creek County/ Gilpin County/ analyses/
quartz monzonite/ igneous-metamorphic/ Wood
mine/ Kirk Mine/ Quartz Hill area/ pitchblende/
Copper King mine/ Larimer County/ paragenesis/

Phair, George, 1953
Front Range/ veins/ igneous-metamorphic/ ore
deposits/ Central City district/ Idaho Springs
district/ Gilpin County/ Clear Creek County/
reserves/ Wood mine/ Kirk mine/ Bonanza mine/
German mine/ pitchblende/ Martha E mine/

Phair, George, 1958
Gilpin County

uranium/ thorium/ intrusives/ Laramie/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/

Phair, George, and Antweiler, J. C., 1954
Larimer County/ Copper King mine/ ore deposits/ geochemistry/ mineralogy/ uraninite/ coffinite/ pitchblende/ Front Range/ Central City district/ Gilpin County/ igneous-metamorphic/ absolute age/ Clear Creek County/

Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/

Phair, George, and Levine, Harry, 1952
Central City district/ Wood mine/ geochemistry/ uranium/ radium/ lead/ pitchblende/ solutions/ Katanga/ Great Bear Lake/ Ruliss Guich/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/ differential leaching/

Phair, George, and Levine, Harry, 1952
uranium/ radium/ lead/ pitchblende/ Wood mine/ Central City district/ Gilpin County/ analyses/ exploration/ igneous-metamorphic/ Clear Creek County/ Front Range/ differential leaching/

Phair, George, and Levine, Harry, 1953
uranium/ radium/ lead/ pitchblende/ Central City district/ Gilpin County/ igneous-metamorphic/ Front Range/ differential leaching/

Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramie/ isotope/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ geochemistry/ galema/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ isotopic variation/ igneous-metamorphic/

Phair, George, and Shimamoto, K. O., 1953
Front Range/ ore deposits/ mineralization/ mineralogy/ petrology/ geochemistry/ porphyries/ pitchblende/ Central City district/ igneous-metamorphic/ Clear Creek County/ Gilpin County/

Rabbitt, J. C., 1951
Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnitite project/ sandstone/ igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/

Rabbitt, J. C., 1951
Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ radioactivity/ fluorite/ Clear Creek County/ pitchblende/ ore deposits/ minerals/ Gilpin County/ veins/ breccia/ sandstone/ Boulder County/ igneous-metamorphic/

Rabbitt, J. C., 1951
Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ igneous-metamorphic/ Boulder County/

Rabbitt, J. C., 1952
Colorado Plateau/ carnitite project/ Gilpin County/ Larimer County/ sandstone/ igneous-metamorphic/ Front Range/

Rabbitt, J. C., 1952
Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ igneous-metamorphic/ Gilpin County/ Clear Creek County/

veins/ uranium/ ore deposits/ igneous-metamorphic/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison County/ Saguache County/ Marshall Pass district/ Schwartzwalder mine/

Rickard, Forbes, 1913
veins/ Quartz Hill area/ Gilpin County/ pitchblende/ Front Range/ igneous-metamorphic/

Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/ gamma-ray detectors/ sandstone/ Front Range/ instrumentation/ Morrison Formation/ Salt Wash Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ igneous-metamorphic/ Entrada Sandstone/

Sims, P. K., 1953
Front Range/ ore deposits/ exploration/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1953
ore deposits/ Central City district/ Georgetown district/ Front Range/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1954
veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/

Sims, P. K., 1954
veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/ mineralogy/ petrology/ igneous-metamorphic/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/ paragenesis/ structure/
Gilpin County

Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ uranium/ mineralogy/ Front Range/ ore deposits/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., 1955
Front Range/ ore deposits/ trace elements/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1956
veins/ Front Range/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ igneous-metamorphic/

Sims, P. K., 1956
Gilpin County/ ore deposits/ pitchblende/ genesis/ structural controls/ veins/ Front Range/ Clear Creek County/ geology/ uranium/ igneous-metamorphic/ Central City district/ mineralogy/ paragenesis/

Sims, P. K., 1956
Front Range/ Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ zoning/ tennantite/ Calhoun (East and West) mines/ Carroll mine/ J.P. Whitney mine/ genesis/ host rocks/ intrusive structures/ veins/ stratigraphy/ Precambrian rocks/ uranium/ igneous-metamorphic/ paragenesis/ structure/ pitchblende-bearing vein

Sims, P. K., 1957
Front Range/ igneous-metamorphic/ veins/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

Sims, P. K., 1960
mineralogy/ hypogene zoning/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Front Range/

Sims, P. K., 1960
hypogene zoning/ mineralogy/ Gilpin County/ Clear Creek County/ Central City district/ Front Range/ igneous-metamorphic/

Sims, P. K., 1960
Clear Creek County/ Gilpin County/ geology/ igneous-metamorphic/ Central City district/ Front Range/ Idaho Springs district/ guidebook/

Sims, P. K., 1963
gEOLOGY/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

Sims, P. K., 1964
Gilpin County/ Clear Creek County/ igneous-metamorphic/ Central City quadrangle/ Russell Gulch/ geology/ Front Range/

Sims, P. K., and Barton, P. B., Jr., 1962
Gilpin County/ Central City district/ hypogene zoning/ ore genesis/ ore deposits/ igneous-metamorphic/ Front Range/ petrology/

Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Jefferson County/ geology/ ore deposits/

Sims, P. K., and Gable, D. J., 1963
cordierite/ gneiss/ Central City quadrangle/ Gilpin County/ Clear Creek County/ Front Range/ minerals/ Central City district/ geology/ Precambrian rocks/ igneous-metamorphic/

Sims, P. K., and Gable, D. J., 1964
gEOLOGY/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/

Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., and others, 1959
Front Range/ igneous-metamorphic/ uranium/ ore deposits/ geology/ Clear Creek County/ Gilpin County/

geology/ ore deposits/ Front Range/ genesis/ mineralogy/ analyses/ emission spectroscopy/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/

Sims, P. K., and Tooker, E. W., 1954
Eureka Gulch area/ Central City district/ Gilpin County/ igneous-metamorphic/ maps/ Front Range/ geology/

Sims, P. K., and Tooker, E. W., 1955
metatorbernite/ alteration/ wall rocks/ Gilpin County/ uranium/ igneous-metamorphic/ veins/ Front Range/ Central City district/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/
GILPIN COUNTY

igneous-metamorphic/ bostonite/ production/ pegmatite/ gneiss/ Front Range/ genesis/

Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1953
Gilpin County/ Clear Creek County/ igneous-metamorphic/ Central City district/ Front Range/ geology/ ore deposits/

Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1953
Gilpin County/ Clear Creek County/ Central City district/ geology/ maps/ ore deposits/ Iron mine/ veins/ Russell Gulch area/ Quartz Hill area/ Nevada Gulch area/ pitchblende/ Wood mine/ Calhoun mine/ Gold King claim/ Kirk mine/ Ross shaft/ Belcher claims/ Front Range/ German claims/ Pewabic mine/ igneous-metamorphic/

Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1954
veins/ maps/ Central City district/ Gilpin County/ igneous-metamorphic/ Front Range/ geology/

Sims, P. K., Drake, A. A., Jr., and Tooker, E. W., 1963
economic geology/ Central City district/ Gilpin County/ igneous-metamorphic/ production/ geology/ ore deposits/ mineralogy/ uranium/ pitchblende/ veins/ Front Range/ granite/ gneiss/ pegmatites/

Sims, P. K., Harrison, J. E., and Moore, F. B., 1952
Central City district/ Dumont district/ Fall River district/ Eureka Gulch district/ Front Range/ Georgetown area/ Clear Creek County/ pitchblende/ Diamond Mountain (Lanagan) mine/ Gomer mine/ Golden Calf mine/ Golden Glen mine/ Martha E. mine/ veins/ Old Town mine/ Spread Eagle mine/ reconnaissance/ Gilpin County/ ore deposits/ base metals/ Freeland-Lamartine district/ igneous-metamorphic/ precious metals/

Sims, P. K., Moench, R. H., Drake, A. A., Jr., and others, 1963
uranium/ ore deposits/ Central City district/ Idaho Springs district/ mining/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1954
Gilpin County/ igneous-metamorphic/ Wood mine/ Nigger Hill/ Uinta Mountains/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ veins/ minerals/ kalsolite/ metatorbernite/ Buckley mine/ Bullion mine/ Carroll mine/ Rara Avis mine/ R.H.O. mine/ Two Sisters mine/ stratigraphy/ Precambrian rocks/ genesis/ Front Range/ Claire Marie mine/

Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1955
Gilpin County/ ore deposits/ petrology/ Eureka Gulch area/ veins/ geology/ Central City district/ pitchblende/ metatorbernite/ igneous-metamorphic/ uranium/ Front Range/

Sims, P. K., Tooker, E. W., and Osterwald, F. W., 1954
Central City district/ Gilpin County/ Eureka Gulch area/ geology/ igneous-metamorphic/ uranium/ ore deposits/ Front Range/ maps/

Singewald, O. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinley Mountain area/ igneous-metamorphic/ geology/ radiometrics/ maps/ City/ Colorado Plateau/ Gilpin County/ metamorphic/ ore deposits/ Colorado/ sandstone/ Front Range/

Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1952
veins/ uranium/ secondary deposits/ United States/ Central City district/ Colorado Plateau/ Gilpin County/ ore deposits/ igneous-metamorphic/ sandstone/ Front Range/

Taylor, R. B., 1975
g eo logy/ map/ Black Hawk quadrangle/ Gilpin County/ Jefferson County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Tooker, E. W., 1953
wall rock alteration/ Front Range/ igneous-metamorphic/ Gilpin County/ Clear Creek County/

Tooker, E. W., 1955
Gilpin County/ Clear Creek County/ Central City district/ Idaho Springs district/ mineralogy/ petrology/ alteration/ geochemistry/ wall rock/ igneous-metamorphic/ uranium/ veins/ Front Range/

Tooker, E. W., 1956
Central City district/ Idaho Springs district/ igneous-metamorphic/ alteration/ veins/ wall rocks/ sulfides/ structures/ ore deposits/ Front Range/ Gilpin County/ Clear Creek County/

Tooker, E. W., 1963
alteration/ wall rocks/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/

Tovote, W. L., 1906
Gilpin County/ pitchblende/ igneous-metamorphic/ Front Range/

U.S. Atomic Energy Commission, 1966
g eo logy/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Gilpin County/ reconnaissance/ ore deposits/ Front Range/ igneous-metamorphic/

U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/

U.S. Geological Survey, 1953
g eologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/
Gilpin County

U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/

U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/

U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/

Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/

Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ igneous-metamorphic/

Vanderpool, J. S., 1957
paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ Front Range/ Central City district/

Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1957
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/

Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Caribou district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1963
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger Shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/

Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/

Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/

Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cocheta district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Placerville/ Cocheta district/ Powderhorn district/ Placerville district/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cocheta district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/

Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/
GILPIN COUNTY

Freeland-Lamartine district/ Front Range/ Georgetown
. district/ Silver Plume district/ Idaho Springs district/Lawson - Dumont district/ igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/ __________  __________

Wells, J. D., 1960
petrology/ Tertiary rocks/ igneous-metamorphic/ thorium/ Front Range/ radioactivity/ bostonite porphyry/ Gilpin County/ Clear Creek County/ volcanic rocks/ uranium/ petrography/

Wells, J. D., n.d.
geochemistry/ Tertiary rocks/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/

Wood, H. E., 1913
radium/ pitchblende/ Gilpin County/ chemical separation/ igneous-metamorphic/ Front Range/

Young, E. J., and Sims, P. K., 1958
Front Range/ xenotime/ monazite/ biotite gneiss/ migmatite/ igneous-metamorphic/ Gilpin County/ thorium/ Central City district/ Precambrian rocks/

Young, E. J., and Sims, P. K., 1961
Central City district/ Gilpin County/ petrography/ monazite/ xenotime/ Precambrian rocks/ gneiss/ genesis/ igneous-metamorphic/ Front Range/

GRAND COUNTY

Adams, J. A. S., 1954
volcanic rocks/ uranium/ thorium/ analyses/

Larimer County/ igneous-metamorphic/ Grand County/ Rocky Mountain National Park/ Silverton/ San Juan County/

Anonymous, 1951
Colorado Plateau/ Grand County/ sandstone/ bonus payments/ uranium/ mines/

Beron, E. P., and McKeown, F. A., 1952
geochemistry/ sandstone/ reconnaissance/ marine black shales/ Entrada Sandstone/ Curtis Formation/ igneous-metamorphic/ Skull Creek district/ Bozeman claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ cerarinite/ uraninite/ spring deposits/ migmatite/ granite/ Colorado/ Wyoming/ Utah/

Braddock, W. A., 1969
geochemistry/ ore deposits/ Empire quadrangle/ Grand County/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geochemistry/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

Finch, W. L., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geochemistry/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/

geochemistry/ map/ Hot Sulphur Springs SE quadrangle/ quartz monzonite/ igneous-metamorphic/ Grand County/ Middle Park Formation/ siltstone/ sandstone/ conglomerate/ arkose/ Lucky Jack mine/ Precambrian rocks/

King, R. U., 1951
reconnaissance/ Front Range/ geochemistry/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/
GRAND COUNTY

spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

Levering, T. S., and Goddard, E. N., 1938 Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/


Malan, R. C., 1957 North Park/ Middle Park/ ore deposits/ Grand County/ igneous-metamorphic/ Jackson County/ Routt County/ peat/ sandstone/ Pedad claims/ Northgate district/ Beaver Creek area/ Troublesome Creek area/ Rabbit Ears Pass area/

Malan, R. C., 1969 intermontane basins/ North Park/ Tertiary/ Middle Park/ Sand/ Park County/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirteenth Mile field/

Malan, R. C., 1969 genesis/ ore deposits/ Tertiary/ intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirteenth Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/

Nishimori, R. K., Rogland, P. C., Ruyers, J. J., and others, 1977 uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/

Osterwald, F. W., 1956 Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Osterwald, F. W., and Dean, B. G., 1956 bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958 ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/

Schlottmann, J. D., 1957 uranium/ ore deposits/ stratigraphy/ mineralization/ geology/ lithology/ Alaska Humes claims/ Grand County/ Jackson County/ sandstone/ Dakota Sandstone/ carnitite/ Rabbit Ears Pass area/

Schlottmann, J. D., and Brown, L. J., 1955 uranium/ ore deposits/ radioactivity/ stratigraphy/ geology/ drilling/ Troublesome area/ Middle Park/ Grand County/ exploration/ Beaver Creek area/ sandstone/ clay/ conglomerate/ mineralization/ Oligocene/ structure/ regolith/ Cretaceous/ Pierre Shale/ Precambrian rocks/ airborne reconnaissance/ Troublesome Formation/


Sims, P. K., 1963 geology/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatite/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

Stokes, W. L., and Fischer, R. P., 1945 vanadium/ sandstone/ Mesa County/ Gateway district/ Colorado Plateau/ ore deposits/


Vine, J. D., and Moore, G. W., 1952 Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/
GRAND COUNTY

Young, E. J., and Hauff, P. L., 1975
Colorado/ isotopes/ radioactivity/ age dating/ uranium/ lead/ uraninite/ pegmatite/ gneiss/ Wheeler basin/ Grand County/ Rossing uranium deposit/ Precambrian rocks/ igneous-metamorphic/ ore deposits/

GUNNISON COUNTY

Adams, J. W., 1948
Chaffee County/ Gunnison County/ Mount Antero/ igneous-metamorphic/ beryl/ beryllium/ White Mountain/

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/

Anonymous, 1951
Gunnison County/ rare earths/ pegmatites/ Gold Creek/ Brown Derby mine/ igneous-metamorphic/

Anonymous, 1951
Gunnison County/ rare earths/ pegmatites/ beryl/ igneous-metamorphic/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/

Bartleson, B. L., Bryant, B., and Mutschler, F. E., 1968
nomenclature/ stratigraphy/ Elk Mountains/ Eagle basin/ Gothic Formation/ Beiden Formation/ Maroon Formation/ Pitkin County/ Gunnison County/ Permian stratigraphy/ Pennsylvanian stratigraphy/

Buck, K. L., 1955
bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

Buck, K. L., 1957
Gunnison County/ rare earths/ bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/

Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/ Dolores County/ radioactivity/ reconnaissance/ San Juan Mountains/ igneous-metamorphic/ Colorado Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/ Ouray County/ San Miguel County/ Gunnison County/ Dolores County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ veins/ San Juan County/

Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnitite/ fresh waters/ gases/ Glimp County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnitite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ iron Hill/ Gunnison County/ Glimp County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/

Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/ Cenozoic/ genesis/ igneous-metamorphic/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/
Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/ Colorado Plateau/ Gunnison County/ Montrose County/ sandstone/

Dings, M. G., 1952
Garfield quadrangle/ Taylor Park quadrangle/ Chaffee County/ Gunnison County/ Bon Ton mine/ Little Jimmie prospect/ Madonna mine/ Silent Friend mine/ reconnaissance/ radioactive material/ mining districts/ fault breccia/ shear zone material/ ore deposits/ veins/ igneous-metamorphic/ geology/ Dings, M. G., and Robinson, C. S., 1952
gold/ ore deposits/ Gunnison County/ Chaffee County/ production/ volcanic rocks/ Quartz Creek district/ Tin Cup district/ Garfield quadrangle/ Chaffee County/ Colorado Plateau/ sandstone/

Dings, M. G., and Schafer, Max, 1953
chronology/ age dating/ uranium/ thorium/ lead/ zircons/ granite/ Chaffee County/ Gunnison County/ analyses/ St. Kevin granite/ igneous-metamorphic/ Sawatch Range/ Dooley, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ igneous-metamorphic/ Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/ Gunnison County/ Jack's Cabin prospect/ sedimentary rocks/ igneous-metamorphic/ sandstone/ veins/ Fenton, M. D., and Faure, G., 1970
mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/ Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvis Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/ Gallagher, G. L., Edmond, C. L., and D'Andrea, R. F., 1977
uranium favorability/ Gunnison County/ ore deposits/ igneous-metamorphic/ George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/ Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous
Gunnison County/ Iron Hill/ Powderhorn/ minerals/ thorium/ niobium/ igneous-metamorphic/
Grogan, R. M., 1959
Gunnison County/ Iron Hill/ Powderhorn/ minerals/ thorium/ niobium/ igneous-metamorphic/
Grogan, R. M., 1960
niobium/ Gunnison County/ Iron Hill/ igneous-metamorphic/ carbonatite/ minerals/ thorium/
Gross, E. B., 1965
pitchblende/ Gunnison County/ ore deposits/ geology/ production/ geochemistry/ mineralogy/
uranium minerals/ Marshall Pass/ Saguache County/ igneous-metamorphic/
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/
San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/
conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/
Mesa County/ Moffat County/ Browns Park Formation/
Gulliotte, G. B., 1945
Gunnison County/ geology/ ore deposits/ Box Canyon mining district/ igneous-metamorphic/
microcline/ dikes/ granite/ lepidolite/ topaz/ albite/ Brown Derby pegmatite/
Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/
Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/
Clear Creek County/ Teller County/
Hanley, J. B., Heinrich, E. W., and Page, L. R., 1995
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/
Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/
Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/
Colorado Plateau/ Wyoming/ Utah/ Summit County/
geochronology/ Black Canyon of the Gunnison/ basement rocks/ Gunnison County/ igneous-metamorphic/
Montrose County/
Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/
igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/
Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown district/ Nederland district/ Boulder County/
Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ igneous-metamorphic/
reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/
Becher mine/ trace elements/ Front Range/
Hedlund, D. C., and Olson, J. C., 1958
Gunnison County/ ore deposits/ thorium/ veins/ Gateview quadrangle/ igneous-metamorphic/ geology/
Hedlund, D. C., and Olson, J. C., 1961
thorium/ rare earths/ niobium/ Powderhorn district/
Colorado/ Gunnison County/ igneous rocks/ carbonate/ monazite/ pyrochlore/ veins/ thorite/ dikes/
igneous-metamorphic/ minerals/ ore deposits/ geology/
Hedlund, D. C., and Olson, J. C., 1973
Gunnison County/ Carpenter Ridge quadrangle/
igneous-metamorphic/ thorium/ map/ geology/
ore deposits/ Black Canyon Schist/
Hedlund, D. C., and Olson, J. C., 1974
Gunnison County/ Saguache County/ igneous-metamorphic/ thorium/ Iris NW quadrangle/ map/ geology/
ore deposits/
Hedlund, D. C., and Olson, J. C., 1975
geology/ Powderhorn quadrangle/ Gunnison County/
igneous-metamorphic/ ore deposits/ thorium/
map/ niobium/ carbonatite/ almonds/ Saguache County/
Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison County/ production/ thorium/ Fremont County/
Custer County/ igneous-metamorphic/
Heinrich, E. W., and Dahlem, D. H., 1957
Brown Derby pegmatites/ pegmatite/ Gunnison County/
monazite/ thorium/ igneous-metamorphic/
mineralogy/ niobium (columbite)/ stibiantafite/
thorium/ pegmatites/ monazite/ Colorado/ Brown Derby mine/ igneous-metamorphic/ analyses/
Gunnison County/ rare earth minerals/
High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/
Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/
San Miguel County/ igneous-metamorphic/ Colorado Plateau/
Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chiricahua Formation/ Pitkin County/
Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/
Montezuma County/ Entrada Sandstone/ stratigraphy/
Morrison Formation/ Colorado Plateau/
Kaiser, E. P., King, R. U., WilmARTH, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
GUNNISON COUNTY

Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Roudt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

Keller, W. D., 1956
clay studies/ Colorado Plateau/ Jurassic rocks/ mudstone/ analyses/ Montrose County/ Gunnison County/ San Miguel County/ Sapinero/ Slick Rock district/ sandstone/ Uravan district/ Morrison Formation/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/ Sandstone County/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Delta County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ Gunnison County

Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

Langenheim, R. L., Jr., 1952
stratigraphy/ Crested Butte quadrangle/ Gunnison County/ Permian stratigraphy/ Maroon Formation/ sandstone/ Pennsylvanian stratigraphy/

Larsen, E. S., 1942
Iron Hill/ Gunnison County/ geology/ alkali rocks/ petrology/ igneous-metamorphic/

Larsen, E. S., and Cross, C. W., 1956
géologie/ pétrologie/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/

Malan, R. C., 1969
intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/
Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/

Malan, R. C., and Ranspot, H. W., 1959
Cochetopa district/ ore deposits/ areal geology/ resources/ reserves/ Saguache County/ Gunnison County/ uranium/ pitchblende/ igneous-metamorphic/

Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/

McCarn, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Colorado Plateau/ County/ Palisade Plateau/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

Moore, G. W., 1953
Boulder County/ Centennial coal mine/ Crested Butte/ Rio Blanco County/ uranium/ coal/ Gunnison County/ aqueous solutions/ uranium extraction/ Kebler mine/

Moore, G. W., 1954
uranium extraction/ uranium/ coal/ Boulder County/ Centennial coal mine/ Crested Butte/ Kebler mine/ Rio Blanco County/ Gunnison County/ aqueous solutions/

Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/ Montana County/

Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ thirtynine Mile field/ County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ Montana County/

Nash, W. P., 1970
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/

Nash, W. P., 1972
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/

Olson, J. C., 1953
Powderhorn district/ Gunnison County/ thorium/ monazite/ igneous-metamorphic/ Little Johnny vein/ reserves/ ore deposits/

Olson, J. C., 1953
Powderhorn district/ igneous-metamorphic/ thorium/ Gunnison County/ monazite/ ore deposits/ exploration/

Olson, J. C., 1973
goology/ Rudolph Hill quadrangle/ map/ Gunnison County/ thorium/ ore deposits/ Hinsdale County/ Saguache County/ igneous-metamorphic/

Olson, J. C., 1974
map/ geology/ Rudolph Hill quadrangle/ Gunnison County/ thorium/ ore deposits/ Saguache County/ Hinsdale County/ igneous-metamorphic/

Olson, J. C., 1975
uranium/ ore deposits/ Cochetopa district/ Oligocene erosion surface/ Gunnison County/ sandstone/ Saguache County/ volcanics/ veins/ igneous-metamorphic/

Olson, J. C., 1975
iris quadrangle/ map/ geology/ Gunnison County/ Saguache County/ uranium/ igneous-metamorphic/ ore deposit/

Olson, J. C., 1975
Houston Gulch quadrangle/ geology/ map/ Gunnison County/ Saguache County/ igneous-metamorphic/ ore deposits/

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Cochetopa district/ uranium/ geomorphology/ ore deposits/ igneous-metamorphic/ Saguache County/ Gunnison County/ Oligocene erosion surface/

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uranium/ Pitch mine/ Gunnison County/ Saguache County/ Montana County/
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Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ halite/ pegmatites/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/}

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pegmatite/ geochemistry/ igneous-metamorphic/ uranium/ mineralogy/ Gunnison County/ Larimer County/ Chaffee County/ Fremont County/ Front Range/}

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Front Range/ granite/ pegmatites/ igneous-metamorphic/ geology/ structure/ mineralogy/ Gunnison County/ Wood Gulch/ Guich/ beryl/ lithium/ potrology/ geochemistry/ minerals/ allanite/ monazite/ pyrochlore-microsite/ Brown Derby claim/ Black Wonder claim/ Beryl and Rare Minerals Lode claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ niobium/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

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Front Range/ granite/ pegmatites/ igneous-metamorphic/ geology/ structure/ mineralogy/ Gunnison County/ Wood Gulch/ beryl/ lithium/ potrology/ geochemistry/ minerals/ niobium/ monazite/ pyrochlore-microsite/ uranium/ thorium/ origin/ Black Wonder claim/ Brown Derby claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spur claim/ Quartz Creek district/ Beryl and Rare Minerals Lode claim/

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Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

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carbonatite/ alkaline complex/ Powderhorn district/ igneous-metamorphic/ thorium/ veins/ alkalic rocks/ Iron Hill/ Gunnison County/ niobium/

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carbonatite/ alkaline complex/ igneous-metamorphic/ Powderhorn district/ Gunnison County/ thorium/ veins/ geochemistry/ petrology/ Iron Hill/ niobium/ alkalic rocks/

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thorium/ Powderhorn district/ Gunnison County/ veins/ Custer County/ Fremont County/ Colorado/ Idaho/ Wyoming/ Precambrian rocks/ Montana/ California/ geology/ New Mexico/ Wisconsin/ New York/ Michigan/ Wet Mountains/ ore deposits/ igneous-metamorphic/

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geochemistry/ thorium/ Powderhorn district/ Gunnison County/ Wet Mountains/ Custer County/ Fremont County/ veins/ Precambrian rocks/ Colorado/ Wyoming/ Idaho/ Montana/ California/ New Mexico/ Wisconsin/ New York/ Michigan/ ore deposits/ igneous-metamorphic/

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651
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geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/

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Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

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Powderhorn district/ thorium/ Gunnison County/ Iron Hill/ carbonatite/ igneous-metamorphic/ geology/ mineralogy/ analyses/ ore deposits/ alkaline igneous rocks/

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felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/

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uranium/ trace elements/ felsic volcanic rocks/ Cenozoic/ genesis/ igneous-metamorphic/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/

mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/

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San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/}

Orvis Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/

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San Juan Mountains/ ore deposits/ exploration/ igneous-metamorphic/ volcanics/ Iceland/ New Jersey/ Oregon/ Hinsdale Formation/ Potosi volcanic series/ Ouray County/ Hinsdale County/ San Juan County/

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geology/ ore deposits/ igneous-metamorphic/ Hinsdale County/ San Juan Mountains/ production/ volcanic rocks/ Lake City area/

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geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

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uranium/ thorium/ igneous-metamorphic/ Front Range/ dikes/ stocks/ minerals/ porphyry/ San Juan Mountains/ calc-alkaline rocks/ San Juan County/ Ouray County/ Hinsdale County/ Cripple Creek/ Teller County/ quartz-bostonite/ geochemistry/

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San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/

Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/
HINSDALE COUNTY

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geology/ Rudolph Hill quadrangle/ map/ Gunnison County/ Hinsdale County/ Archuleta County/ Saguache County/ igneous-metamorphic/

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map/ geology/ Rudolph Hill quadrangle/ Gunnison County/ thori um/ ore deposits/ Hinsdale County/ Saguache County/ igneous-metamorphic/

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San Juan Mountains/ mineral resources/ uranium/ Lake City/ Hinsdale County/ igneous-metamorphic/ Uncompahgre primitive area/

minerals/ resources/ San Juan primitive area/ iron/ Irving Formation/ igneous-metamorphic/ La Plata County/ San Juan County/ Hinsdale County/ Mineral County/ Elk Park area/ metasediments/

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Mo rrition Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

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HUERFANO COUNTY

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Colorado/ New Mexico/ ore deposits/ exploration/ Archuleta County/ Huerfano County/ radioactive deposits/ carbonaceous shale/ sandstone/ copper/ limestone/ Sangre de Cristo Formation/ Wanakah Formation/ tuff/ Wet Mountains/ Mesaverde Formation/

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Badito Cone/ zirconium/ phonolite/ Huerfano County/ Dakota County/ Huerfano County/ Morrison Formation/ Stumbling Stud claims/ Wet Mountains/ Pueblo County/ sandstone/ fluorite/ th orium/ uranium/ cement/ rhyolite/ igneous-metamorphic/

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

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ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Telluride County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek - Victor district/

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653
HUERFANO COUNTY

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Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952 Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

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Routt County/ Jackson County/ Chime Formation/ Sundance Formation/ Park Range/ sandstone/ siltstone/ Triassic/ Jurassic/

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genesis/ ore deposits/ Tertiary/ intermontane basins/ geology/ uranium/ minerals/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallaheesie Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/

Vine, J. D., and Flege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/
JACKSON COUNTY

Vine, J. D., and Moore, G. W., 1952
Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/

Winterhalder, E. C., 1953
veins/ reconnaissance/ North Park/ Jackson County/ uranium/ Sheep Mountain prospect/ Pedad prospect/ igneous-metamorphic/ fluorite/ ore deposits/ Dakota Sandstone/ sandstone/ conglomerate/ chert/ breccia breccia zones/ geology/ Precambrian rocks/

JEFFERSON COUNTY

Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/ gneiss/ genesis/ wallrock alteration/ Golden Gate Canyon/ Ralston Creek/ igneous-metamorphic/ Front Range/

Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/ uranium/ gneiss/ wall rocks/ Golden Gate Canyon/ Ralston Buttes/ Schwartz mine (Schwartzwalder Mine)/ igneous-metamorphic/ Front Range/

Adams, J. W., 1954
Jefferson County/ ore deposits/ distribution/ genesis/ wallrock alteration/ uranium/ paragenesis/ Golden Gate Canyon/ Ralston Creek area/ hornblende gneiss/ igneous-metamorphic/ Idaho Springs Formation/ copper/ Union Pacific prospect/ pitchblende/ Schwartzwalder mine/ Nigger shaft/ North Star property/ Front Range/

thalenite/ White Cloud pegmatite/ South Platte district/ Jefferson County/ igneous-metamorphic/ rare earths/ thorium/ Front Range/

thalenite/ allanite/ yttrium/ Jefferson County/ rare earths/ thorium/ pegmatite/ White Cloud pegmatite/ igneous-metamorphic/ South Platte district/ Front Range/

Adams, J. W., and Stugard, Frederick, Jr., 1953
Jefferson County/ ore deposits/ evaluation/ uranium/ igneous-metamorphic/ Golden Gate Canyon/ hornblende gneiss/ paragenesis/ Front Range/

Adams, J. W., and Stugard, Frederick, Jr., 1954
Front Range/ Golden Gate Canyon/ Jefferson County/ mineralogy/ petrology/ geochemistry/ breccia reefs/ wall-rock control/ minerals/ pitchblende/ Buckman property/ Golden Gate property/ Union Pacific prospect/ Laramide faults/ veins/ hornblende gneiss/ igneous-metamorphic/

Adams, J. W., and Stugard, Frederick, Jr., 1956
veins/ Jefferson County/ wall-rock control/ pitchblende/ uranium/ Golden Gate Canyon/ Union Pacific prospect/ igneous-metamorphic/ Front Range/ ore deposits/

Adams, J. W., and Stugard, Frederick, Jr., 1956
Jefferson County/ wall-rock control/ pitchblende/ uranium/ Golden Gate Canyon/ Union Pacific prospect/ igneous-metamorphic/ ore deposits/ Front Range/

Adam5, J. W., and Stugard, Frederick, Jr., 1956

Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953
Jefferson County/ Golden Gate Canyon/ Ralston Creek/ pitchblende/ torbernite/ Buckman property/ Hoffmeister prospect/ North Star mine/ Schwartz mine (Schwartzwalder mine)/ Union Pacific prospect/ Ladwig properties/ shear zone/ geology/ ore deposits/ Front Range/ igneous-metamorphic/ Golden Gate property/ Nigger shaft/ fault breccia/

Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953
ore deposits/ Golden Gate Canyon area/ Ralston Creek area/ Jefferson County/ igneous-metamorphic/ uranium/ occurrence/ Front Range/ genesis/ hornblende gneiss/ wall-rock alteration/ veins/ pitchblende/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/

Antony, J., 1967
Front Range/ Jefferson County/ Tucker Gulch area/ map/ geology/ igneous-metamorphic/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous metamorphic/ Front Range/

Baker, K. E., 1953
uranium/ Ralston Creek mine/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ Front Range/

Bell, K. G., 1960
uranium/ trace elements/ petroleum/ asphalts/ distribution/ occurrence/ Colorado Plateau/ Rocky Mountains/ United States/ Rio Blanco County/ Jefferson County/ Front Range/

Berthoud, E. L., 1875
Jefferson County/ Leyden coal mine/ occurrence/ Tertiary/ uranium/ silver/ iron/ dikes/ coal/ Colorado territory/

Bieniewski, C. L., Persse, F. H., and Brauch, E. F., 1971
Colorado Plateau/ Rifle district/ Front Range/
Bird, A. G., 1956
Ralston Creek mine/ pitchblende/ ore deposits/
Schwartzwalder mine/ igneous-metamorphic/ Front
Range/ Jefferson County/

Bird, A. G., 1957
Golden Gate Canyon area/ Ralston Creek area/
ore deposits/ Jefferson County/ igneous-metamorphic/
mineralization/ Schwartzwalder mine/ uranium/
Front Range/ pitchblende/ Idaho Springs Formation/

Bird, A. G., 1957
Jefferson County/ igneous-metamorphic/ Ralston
Creek area/ Golden Gate Canyon area/ Schwartzwalder
mine/ pitchblende/ ore deposits/

Bird, A. G., 1957
pitchblende/ occurrences/ Golden Gate Canyon
area/ Ralston Creek area/ Schwartzwalder mine/
Jefferson County/ Front Range/ igneous-metamorphic/
ore deposits/

Bird, A. G., 1958
Schwartzwalder mine/ ore deposits/ petrology/
Jefferson County/ metamorphic/ igneous-metamorphic/
uranium/ Front Range/

Bird, A. G., 1966
Jefferson County/ petrology/ Schwartzwalder
mine/ metamorphic/ igneous-metamorphic/ uranium/
Front Range/ ore deposits/

Front Range/ foothills/ ore deposits/ veins/
uranium/ Jefferson County/ Schwartzwalder mine/
igneous-metamorphic/

Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/
South Platte River/ geochemistry/ shale/ Jefferson
County/ Douglas County/ Denver County/ Arapahoe
County/ uranium/ Adams County/ Weld County/
Morgan County/ Washington County/ Logan County/
Sedgwick County/

Boberg, W. W., and Runnels, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/
uranium/ analyses/ Jefferson County/ Douglas
County/ Denver County/ Arapahoe County/ Adams
County/ Weld County/ Morgan County/ Washington
County/ Logan County/ Sedgwick County/ reconnaissance/

Boos, C. M., and Boos, M. F., 1957
geology/ Front Range/ igneous-metamorphic/
Gilpin County/ Larimer County/ Boulder County/
Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/

Bird, A. G., 1956
Pre cambrian geology/ Golden Gate Canyon/ Jefferson
County/ igneous-metamorphic/ Front Range/

Breger, I. A., and Deul, Maurice, 1952
geochemistry/ mineralogy/ ignites/ uranium/ Levyen
mine/ South Dakota/ coal/ chemistry/
Jefferson County/ sandstone/ Texas/ extraction/
Front Range/ Colorado/ Laramie Formation/

Brinkworth, G. L., 1974
deposits/ igneous-metamorphic/ Jefferson County/
Boulder County/ Clear Creek County/ Gilpin County/
geophysics/

Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/
Logan County/ geology/ Larimer County/ Jackson
County/ Boulder County/ Jefferson County/ Clear
Creek County/ Gilpin County/ Summit County/
Grand County/ Eagle County/ Routt County/ Garfield
County/ Rio Blanco County/ sandstone/ ore deposits/
igneous-metamorphic/

Chapman, J. J., 1948
gold deposit/ Clear Creek area/ Golden Gate Canyon
area/ Jefferson County/ igneous-metamorphic/
Front Range/

Decker, E. R., 1969
deposits/ exploration/ geophysics/ geochemistry/
Colorado/ Front Range/ South Dakota/ Wyoming/
uranium/ thorium/ Jefferson County/ igneous-metamorphic/
geology/

Denson, M. E., Jr., 1956
deposits/ exploration/ geophysics/ geochemistry/
Colorado/ Front Range/ South Dakota/ Wyoming/
uranium/ thorium/ Jefferson County/ igneous-metamorphic/
geology/

Denson, M. E., Jr., 1956
Colorado/ Front Range/ geophysics/ geochemistry/
South Dakota/ Wyoming/ exploration/ uranium/
thorium/ Jefferson County/ igneous-metamorphic/
geology/ ore deposits/

Denson, M. E., Jr., and Bird, A. G., 1976
economic geology/ ore deposits/ uranium/ Ralston
Creek area/ Jefferson County/ igneous-metamorphic/
Front Range/

Deul, Maurice, and Annell, C. S., 1952
geology/ petrology/ igneous-metamorphic/ trace elements/
ash/ coal/ uranium/ Colorado/ analyses/ Texas/
North Dakota/ South Dakota/ Jefferson County/

Deul, Maurice, and Annell, C. S., 1952
mineralogy/ petrology/ geochemistry/ trace elements/
ash/ coal/ Texas/ Colorado/ North Dakota/ South
Dakota/ minor elements/ uranium/ analyses/ Jefferson
County/

Deul, Maurice, and Annell, C. S., 1956
coal/ minor elements/ Jefferson County/ vanadium/
Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/ Jefferson County/ Clear Creek County/ Gilpin County/ Pikes Peak batholith/ Log Cabin batholith/ Boulder Creek batholith/ Boulder County/ igneous-metamorphic/

Gow, T. T., 1914
basalt/ Table Mountain/ igneous-metamorphic/ Jefferson County/ Conejos County/ Rio Grande County/ Gilmore/ Front Range/ radioactivity/

Gude, A. J., 3d, and McKeown, F. A., 1953
Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/

Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/

Gude, A. J., 3d, and McKeown, F. A., 1952
Jefferson County/ ore deposits/ Front Range/ coal/ exploration/ drilling/ Old Leyden coal mine/ minerals/ carnotite/ Laramie Formation/ reserves/ sandstone/ shale/ veins/

Gude, A. J., 3d, and McKeown, F. A., 1953
veins/ exploration/ Jefferson County/ Old Leyden coal mine/ sandstone/ coal/ shale/ drilling/ core/ reserves/ Front Range/

Hail, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/

Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/

Heyse, J. V., 1971
uranium/ mineralogy/ petrology/ Schwartzwalder mine/ Jefferson County/ age estimation/ emission spectroscopy/ uraninite/ ore deposits/ Front Range/ geochemistry/ igneous-metamorphic/ paragenesis/ pitchblende/

Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routh County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routh County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

Kehn, T. M., 1955
bibliography/ geology/ shale/ uranium/ coal/ lignite/ Leyden Coal mine/ Jefferson County/ carnotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ ore deposits/ Great Plains/

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ore deposits/ coal/ shale/ lignite/ Great Plains/ bibliography/ uranium/ geology/ Jefferson County/ carnotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ Leyden coal mine/

Keeler, W. D., 1953
clay minerals/ Morrison Formation/ kaolinite/ illite/ depositional environments/ Colorado Plateau/ sandstone/ type section/ geochemistry/ analyses/ Jefferson County/ Front Range/

Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/
JEFFERSON COUNTY

King, R. U., 1954
ore deposits/ exploration/ veins/ Ralston Creek district/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/

King, R. U., and Beroni, E. P., 1953
igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/

King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/ 

King, R. U., and Theobald, P. K., Jr., 1955
Canon City/ Idledale/ ore deposits/ exploration/ Jefferson County/ veins/ FMD mine/ Front Range/ geology/ igneous-metamorphic/ Fremont County/ 

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Rout County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/ 

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Rout County/ Huerfano County/ Eagle County/ 

King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Rout County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/ 

King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/ Front Range/ San Miguel County/ pitchblende/ ore deposits/ Larimer County/ Jefferson County/ Gilpin County/ Ralston Creek district/ Jamestown district/ Caribou district/ Lawson district/ Clear Creek County/ igneous-metamorphic/ 

Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS imagery/ Jefferson County/ Boulder County/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ igneous-metamorphic/ 

Lahr, M., 1974
Front Range/ map/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ ore deposits/ Ralston Buttes quadrangle/ 

Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front Range/ veins/ calcite/ carnallite/ ore deposits/ igneous-metamorphic/ sandstone/ Colorado Plateau/ Jefferson County/ Montrose County/ San Miguel County/ 

Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore deposits/ uranium/ igneous-metamorphic/ surface waters/ sandstone/ Colorado Plateau/ Front Range/ Jefferson County/ Montrose County/ San Miguel County/ 

Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ 

Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ igneous-metamorphic/ 

LeRoy, L. W., 1959
Precambrian rocks/ stratigraphy/ Golden area/ Gilpin County/ Front Range/ igneous-metamorphic/ Jefferson County/ 

Lickus, R. J., and LeRoy, L. W., 1968
Precambrian rocks/ structure/ stratigraphy/ Front Range/ reconnaissance/ Golden area/ Jefferson County/ igneous-metamorphic/ 

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/ 

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/ 

660
McKeeown, F. A., and Gude, A. J., 3d, 1951
- Clear Creek County/ structural features/ igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/

Lovering, T. S., and Goddard, E. N., 1938
- Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/

Mallory, N. S., and Bird, A. G., 1953
- exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/

Maxwell, C. H., 1955
- bedrock geology/ Front Range/ igneous-metamorphic/ Jefferson County/

McCarn, D. W., and Freeman, R. W., 1976
- ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/

McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
- veins/ bituminous substances/ ore deposits/ migmatises/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/

McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
- veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatises/ San Miguel County/ sandstone/ coal/ shale/ phosphorites/ igneous-metamorphic/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Clear Creek County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
- geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

McKeown, F. A., and Gude, A. J., 3d, 1951
- minerals/ carnottite/ clay/ coal/ lignite/ sandstone/ Laramie Formation/ Front Range/ Jefferson County/ ore deposits/ Old Leyden mine/ reserves/ geology/ structure/

Merwin, S. S., 1956
- Front Range/ ore deposits/ uranium/ Jefferson County/ Gilpin County/ Clear Creek County/ Boulder County/ Schwertzwalder mine/ Caribou mine/ Wood mine/ igneous-metamorphic/

Merwin, S. S., 1956
- Front Range/ ore deposits/ ore controls/ Jefferson County/ Boulder County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/

Moench, R. H., Harrison, J. E., and Sims, P. K., 1954
- Precambrian rocks/ structure/ Idaho Springs district/ Front Range/ geology/ Gilpin County/ Clear Creek County/ Jefferson County/ igneous-metamorphic/

Moya, E. A., 1969
- structure/ stratigraphy/ analyses/ Precambrian rocks/ North Clear Creek area/ Jefferson County/ Gilpin County/ igneous-metamorphic/ Front Range/

Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
- Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/

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- Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Osterwald, F. W., 1965
- ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/

Osterwald, F. W., and Dean, B. G., 1956
- bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958
- ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson
Osterwald, F. W., and Dean, B. G., 1961 Cordilleran foreland/ ore deposits/ genesis/ structural controls/ tectonic patterns/ Front Range/ Denver basin/ uranium/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ Larimer County/


Page, L. R., 1950 Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/

Page, L. R., 1950 beryl/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/


Phair, George, and Gottfried, David, 1964 Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/

Popenoe, Peter, 1965 arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/

Popenoe, Peter, 1965 Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

Ray, E. D., 1975 mining/ Jefferson County/ Schwartzwalder mine/ Ladwig mine/ igneous-metamorphic/ district 1/ Front Range/
Jefferson County

Range/uranium/igneous-metamorphic/Schwartzwalder mine/Mena mine/Ladwig lease/Golden Gate Canyon area/Ralston Creek area/mineralogy/paragenesis/structure/copper/faults/Ralston Buttes district/Ascension mine/

Sheridan, D. M., 1955
Jefferson County/veins/pitchblende/Front Range/uranium/igneous-metamorphic/Schwartzwalder mine/Mena mine/Ladwig lease/Golden Gate Canyon area/Ralston Creek area/mineralogy/paragenesis/structure/copper/faults/Ralston Buttes district/Ascension mine/

Sheridan, D. M., 1956
Jefferson County/veins/pitchblende/Front Range/uranium/igneous-metamorphic/Schwartzwalder mine/Mena mine/Ladwig lease/Golden Gate Canyon area/Ralston Creek area/mineralogy/paragenesis/structure/copper/faults/Ralston Buttes district/Ascension mine/

Sheridan, D. M., 1956
Jefferson County/veins/pitchblende/Ascension mine/Front Range/uranium/igneous-metamorphic/Schwartzwalder mine/Mena mine/Ladwig lease/Golden Gate Canyon area/Ralston Creek area/mineralogy/paragenesis/structure/copper/faults/Ralston Buttes district/Ascension mine/

Ralston Buttes district/ore deposits/exploration/Jefferson County/veins/pitchblende/Front Range/uranium/igneous-metamorphic/Schwartzwalder mine/Mena mine/Ladwig lease/Golden Gate Canyon area/Ralston Creek area/mineralogy/paragenesis/structure/copper/faults/

Jefferson County/veins/pitchblende/Front Range/uranium/igneous-metamorphic/Schwartzwalder mine/Mena mine/Ladwig lease/Golden Gate Canyon area/Ralston Creek area/mineralogy/paragenesis/structure/copper/faults/Ralston Buttes district/Ascension mine/

Ralston Buttes district/ore deposits/exploration/veins/Jefferson County/pitchblende/Front Range/uranium/igneous-metamorphic/Schwartzwalder mine/Ladwig lease/Mena mine/Ascension mine/Golden Gate Canyon area/Ralston Creek area/mineralogy/paragenesis/structure/copper/faults/

Front Range/igneous-metamorphic/Ralston Buttes district/Jefferson County/pitchblende/Schwartzwalder mine/Golden Gate Canyon area/exploration/

Jefferson County/veins/pitchblende/bedrock geology/Front Range/uranium/igneous-metamorphic/Schwartzwalder mine/Ladwig lease/Mena mine/Ascension mine/Golden Gate Canyon area/mineralogy/paragenesis/structure/copper/faults/Ralston Buttes quadrangle/Ralston Buttes district/Ralston Creek area/

Jefferson County

663
Jefferson County

Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ sandstone/ igneous-metamorphic/

Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/

Taylor, R. B., 1975
geochemistry/ map/ Black Hawk quadrangle/ Gilpin County/ Jefferson County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Theobald, P. K., and Guilinger, R. R., 1955
veins/ FMD mine/ Jefferson County/ shear zones/ copper/ radioactivity/ igneous-metamorphic/ geochemistry/ Front Range/

Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/

Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/

Trouttein, C. M., 1975
Precambrian rocks/ stratigraphy/ structure/ metamorphic petrology/ Eldorado Springs quadrangle/ Ralston Buttes quadrangle/ Jefferson County/ Boulder County/ Front Range/ igneous-metamorphic/

U.S. Atomic Energy Commission, 1966
geochemistry/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Jefferson County/ reconnaissance/ ore deposits/ Front Range/ sandstone/ sandstone/ coal/ igneous-metamorphic/

U.S. Geological Survey, 1950
shales/ radioactivity/ carbonaceous shales/ Jefferson County/ Rio Blanco County/ oil shale/ Front Range/ Colorado Plateau/ bituminous shales/ geochemistry/ reconnaissance/ igneous-metamorphic/

U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/

Front Range/ Colorado Plateau/ stratigraphy/ botanical prospecting/ mineralogy/ Ralston Buttes district/ black shale/ reconnaissance/ analyses/ Jefferson County/ sandstone/ igneous-metamorphic/

Beaver Mesa/ Disappointment Valley/ Front Range/ Jo Dandy area/ La Sal Creek area/ Monogram Mesa/ exploration/ drilling/ Ralston Buttes district/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ Jefferson County/ Colorado Plateau/ sandstone/ igneous-metamorphic/

Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ igneous-metamorphic/ Ralston Buttes district/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/

Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ Jefferson County/ Mesa County/ igneous-metamorphic/

U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ 664
mineralogy/ research/ sandstone/ San Miguel County/ igneous-metamorphic/ Dolores County/
Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/

Van Horn, Richard, 1976
gold/ Golden quadrangle/ Jefferson County/
igneous-metamorphic/ Front Range/

Vine, J. D., 1956
uranium/ coal/ Old Leyden coal mine/ Jefferson County/ Cretaceous/ Laramie Formation/ shale/
Front Range/

Vine, J. D., 1956
uranium/ coal/ Old Leyden coal mine/ Jefferson County/ Cretaceous/ Laramie Formation/ shale/
Front Range/

Vine, J. D., 1962
gold/ uranium/ coal/ carbonaceous rocks/ sandstone/ igneous-metamorphic/ Front Range/ Jefferson County/

Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1957
Marysville/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/

Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1963
Marysville/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/

Walker, G. W., 1963
age determination/ ore deposits/ veins/ Tertiary/ Cretaceous/ Front Range/ Wood mine/ Iron mine/ Gilpin County/ German mine/ Copper King mine/ Larimer County/ igneous-metamorphic/ Schwartzwalder mine/ Jefferson County/ Los Ochos mine/ Saguache County/ isotopes/

Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/

Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/

Walker, G. W., and Osterwald, F. W., 1966
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/

Wells, J. D., 1967
gold/ Eldorado Springs quadrangle/ Boulder County/ Jefferson County/ igneous-metamorphic/ Front Range/

Wells, J. D., Sheridan, P. M., and Albee, A. L., 1961
metamorphism/ structure/ geologic history/ Coal Creek area/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/

Wells, J. D., Sheridan, P. M., and Albee, A. L., 1964
Precambrian/ quartzite/ schist/ Coal Creek/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Idaho Springs Formation/

Wilson, J. H., 1923
Denver area/ ore deposits/ carnitite/ sandstone/ Jefferson County/ Leyden coal mine/ Front Range/ Laramie Formation/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/
Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/

Young, E. J., 1977
gеology/ maps/ radiometric maps/ mineralogic maps/ underground workings/ Schwartzwalde mine/ igneous-metamorphic/ Front Range/ uranium/ Jefferson County/

Young, E. J., and Lahr, M., 1975
Schwartzwalde mine/ Jefferson County/ Front Range/ igneous-metamorphic/ uranium/ ore deposits/

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/

Landis, E. R., 1954
Colorado/ Kansas/ exploration/ black shale/ Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/

Landis, E. R., 1955
Cheyenne County/ Crowley County/ Kiowa County/ Las Animas County/ Pueblo County/ genesis/ Pierre Shale/ Niobrara Formation/ shale/ Sharon Spring Member/ black shales/ ore deposits/ radioactivity/ uranium/ Yuma County/ stratigraphy/ uraniferous/ 666

Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1959
Colorado/ Kansas/ ore deposits/ Cretaceous/ Pierre Shale/ Sharon Springs Member/ radioactivity/ Cheyenne County/ Crowley County/ Kiowa County/ Yuma County/ Las Animas County/ Pueblo County/ shale/ black shale/

Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/

Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/

KIT CARSON COUNTY

Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/
LAKE COUNTY

Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

Case, J. E., 1967
anomalies/ gravity surveys/ aeromagnetic surveys/ igneous-metamorphic/ ore guides/ geophysics/ Park County/ Lake County/ Park Range/ sandstone/ Colorado mineral belt/

Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguaque County/ Hinsdale County/

Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/ Cenozoic/ genesis/ igneous-metamorphic/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguaque County/ Hinsdale County/

Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Hurley, P. M., and Fairbain, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/ minerals/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/ igneous-metamorphic/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/

Phair, George, 1953
Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/ pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/

Pierson, C. T., and Singewald, Q. D., 1953
Sugar Loaf district/ St. Kevin district/ Lake County/ igneous-metamorphic/ geology/ veins/ minerals/ autunite/ florencite/ metatorbernite/ torbernite/ Josie May mine/ Torquoise Chief mine/ granite/ turquoise/ Wilkesbarre adit/ mineralogy/ leaching/ Precambrian rocks/ Tertiary/ schist/ Pierson, C. T., and Singewald, Q. D., 1954
St. Kevin district/ ore deposits/ mineralization/ ore minerals/ maps/ Lake County/ veins/ uranium/ igneous-metamorphic/ granite/ Sugar Loaf district/ Tertiary/ Josie May mine/ Precambrian rocks/ Turquoise Chief mine/ schist/

Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alna district/ Lake County/ igneous-metamorphic/ Park County/

Singewald, Q. D., 1955
Sugarloaf district/ St. Kevin district/ Lake County/ geology/ ore deposits/ production/ petrography/ economic geology/ veins/ torbernite/ granite/ igneous-metamorphic/

Lake County/ Chalk Mountain rhyolite/ radioactive inclusions/ radioactivity/ igneous-metamorphic/
LAKE

U.S. Atomic Energy Commission, 1966
geology/uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Lake County/ reconnaissance/
igneous-metamorphic/ ore deposits/

Van Alstine, R. E., 1968
structural geology/ Tertiary trough/ Arkansas
Valley/ San Luis Valley/ Rio Grande depression/
Fremont County/ Chaffee County/ Lake County/
Saguache County/

Zogg, William, 1976
Lake County/ geology/ Colorado Gulch area/ Sawatch
Range/ Turquoise Lake area/ St. Kevin district/
igneous-metamorphic/ LA PLATA

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/
genesis/ Colorado/ general/ Mesa County/ Delta
County/ sandstone/ Montrose County/ San Miguel
County/ Dolores County/ Archuleta County/ Garfield
County/ La Plata County/

Baker, A. A., Dane, C. H., and Reeside, J. B.,
Jr., 1947
Colorado/ Arizona/ New Mexico/ Utah/ Jurassic
formations/ correlation/ Morrison Formation/
sandstone/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/

Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/
occurance/ carbonaceous rocks/ Paradox Formation/
San Miguel County/ shale/ sandstone/ siltstone/
coal/ Archuleta County/ La Plata County/ Montezuma
County/ tuff/ igneous-metamorphic/ Colorado
Plateau/ Bald Eagle prospect/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/
carbonaceous rocks/ sandstone/ Mesa County/
Delta County/ Montrose County/ Gunnison County/
Ouray County/ San Miguel County/ Hinsdale County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ coal/ shale/ reconnaissance/
Colorado Plateau/

Bush, A. L., and Bryner, Leonid, 1953
carnotite/ roscoelite/ stratigraphy/ Entrada

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San Juan Mountains/ structure/ Placerville district/
San Miguel County/ igneous-metamorphic/ uranium/
vanadium/ selenium/ ore deposits/ Colorado Plateau/
San Juan County/ La Plata County/ Dolores County/
sandstone/ veins/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/
sandstone/ Gunnison County/ La Plata County/
Archuleta County/ San Miguel County/ Mesa County/
Delta County/ Eagle County/ Montrose County/
Montezuma County/ mineralogy/ Rio Blanco County/
Salt Wash Member/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/
red beds/ vanadium/ sandstone/ La Plata County/
Montezuma County/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Delta
County/ Rio Blanco County/ geochimetry/ Garfield
County/ Moenkopi Formation/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Dolta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/
exploration/ indicator plants/ sandstone/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
geochemistry/

Cater, F. W., Jr., 1955
geology/ Dolores County/ salt anticlines/ Montrose
County/ San Miguel County/ sandstone/ Utah/
Paradox Basin/ Colorado Plateau/ carnitite/
San Juan Basin/ Archuleta County/ La Plata County/

Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/
map/ Uranium Peak/ sandstone/ production/ uranium/
vanadium/ Morrison Formation/ La Plata County/
ore deposits/ Entrada Sandstone/ Rio Blanco
County/ Mesa County/ Garfield County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Gateway district/

Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/
exploration/ radioactivity/ Delta County/ Montrose
County/ gravel/ San Miguel County/ Dolores
LA PLATA

County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/

Chew, R. T., 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/

Chew, R. T., 1956
Rifle mine/ Urvan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/

Coleman, R. G., Leo, G. W., and Stewart, D. B., 1957
Colorado Plateau/ ore deposits/ genesis/ geologic thermometry/ radioactive minerals/ sphalerite/ pyrite/ sulfides/ Good Hope mine/ Lytner (Lightner) Creek/ Wyoming/ sandstone/ Colorado/ Utah/ La Plata County/ Dolores County/ geothermometry/

Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/

Craig, L. C., and Holmes, C. N., 1951
Colorado/ Utah/ Jurassic/ stratigraphy/ Morrison Formation/ Glen Canyon group/ San Rafael group/ sandstone/ San Juan basin/ Montezuma County/ La Plata County/ Colorado Plateau/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/

stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/

Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/ Precambrian/ San Juan Mountains/ Montrose County/ Gunnison County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ geology/

Decker, E. R., 1969
depositions/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Eckel, E. B., 1949
geochemistry/ ore deposits/ La Plata district/ economic geology/ production/ Montezuma County/ La Plata County/ igneous-metamorphic/ sandstone/

Ekren, E. B., and Houser, F. N., 1959
stratigraphy/ Cretaceous/ Jurassic/ sandstone/ conglomerate/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan basin/

depositions/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/ stratigraphy/

Fassett, J. E., and Hinds, J. S., 1971
geochemistry/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/

Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Urvan district/ Gateway district/ map/ geology/

Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1977
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/
Fischer, R. P., 1955
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/ 

Fischer, R. P., 1955
Durango district/ Placerville district/ Rio district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/ 

Fischer, R. P., 1956
ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ Entrada Sandstone/ sandstone/ Rifle district/ Garfield County/ genesis/ San Miguel County/ La Plata County/ Placerville district/ Rico district/ Dolores County/ 

Fischer, R. P., 1956
vanadium/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ La Plata County/ Rifle district/ Placerville district/ Rico district/ Durango district/ genesis/ localization/ Dolores County/ Entrada Sandstone/ 

Fischcr, R. P., 1968
gology/ structure/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chilie Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/ Colorado Plateau/ ore deposits/ 

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ 

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/ 

Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ Crested Butte/ Cretaceous/ Colorado Plateau/ Front Range/ 

Hail, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Tellur County/ 

Colorado/ Utah/ geology/ structure/ ore deposits/ uranium/ Cretaceous/ quadrangle/ map/ host formations/ sandstone/ San Miguel County/ Dolores County/ La Plata County/ Colorado Plateau/ stratigraphy/ Montezuma County/ 

Hess, F. L., 1925
genesis/ carnitite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/ 

Hess, F. L., 1970
carnitite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ or deposits/ Delta County/ 

Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/ 

Hoover, W. B., 1950
Glen Canyon Formation/ San Rafael Formation/ correlation/ sandstone/ La Plata County/ Jurassic Formations/ stratigraphy/ Utah/ Colorado/ Arizona/ New Mexico/ San Juan basin/ Archuleta County/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/ 

Houston, R. S., and Murphy, J. F., 1970

Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta
Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Montrose County/ San Miguel County/ Dolores County/ Delta County/ San Juan County/ Montezuma County/ La Plata County/ Archuleta County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Archuleta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

Keith, S. B., 1945
ore deposits/ uranium/ geography/ mining/ exploration/ maps/ tonnage/ grade/ Lightner Creek district/ San Juan basin/ Colorado Plateau/ production/ sandstone/ La Plata County/

Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/
Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dorelos County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Malan, R. C., 1968
Colorado/ ore deposits/ genesis/ La Plata County/ San Juan County/ New Mexico/ metallogenesis/ San Miguel County/ structures/ Colorado Plateau/ San Juan-San Miguel-La Plata region/ veins/ igneous-metamorphic/

Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/

McMillan, W. D., 1960
minerals/ resources/ Colorado/ New Mexico/ sandstone/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan irrigation project/ Chama irrigation project/

Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dorelos County/

Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dorelos County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dorelos County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dorelos County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/?

Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dorelos County/ Montezuma County/ La Plata County/

Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dorelos County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ igneous-metamorphic/

San Juan Mountains/ Dorelos County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ andesite/ San Miguel County/ hydrocarbons/ calcareous tufa/ hot springs/ limonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompahgre Formation/ igneous-metamorphic/ spring deposits/ Colorado Plateau/

San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/

Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dorelos County/ Montezuma County/ La Plata County/

Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dorelos County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/

Reinhardt, E. V., 1952
Colorado Plateau/ igneous-metamorphic/ sandstone/ uranium/ vanadium/ Tertiary intrusives/ La Plata County/ San Miguel County/ ore deposits/

Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dorelos County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/

Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Utero County/ Bent County/ Fowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/
Sears, R. S., Marjaniemi, D. K., and Blomquist, J. T., 1974
Colorado/ computers/ data processing/ exploration/ geology/ iron/ maps/ New Mexico/ petroleum/ potassium/ radioactivity/ rocks/ stratigraphy/ thorium/ uranium/ ore deposits/ minerals/ well logging/ Morrison Formation/ San Juan basin/ Archuleta County/ La Plata County/ sandstone/ Colorado Plateau/

Shearer, S. D., Jr., and Sill, C. W., 1969
atmospheric radiation/ contamination/ enrichment/ environment/ meteorology/ mining/ populations/ radiation doses/ residues/ safety/ sampling/ uranium/ zones/ radon-222/ seasons/ Colorado Plateau/ diurnal variation/ hazards/ radiation hazards/ Utah/ mill tailings/ sandstone/ Mesa County/ La Plata County/

Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompaghre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ igneous-metamorphic/

Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/

Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/

Shoemaker, E. M., and Newman, W. L., 1953
Montezuma County/ La Plata County/ laccolith/ stratigraphy/ Colorado Plateau/ igneous-metamorphic/ Ute Mountains/

minerals/ resources/ San Juan primitive area/ iron/ Irving Formation/ igneous-metamorphic/ La Plata County/ San Juan County/ Hinsdale County/ Mineral County/ Elk Park area/ metasediments/

Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/

Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

sandstone/ district studies/ uranium/ resources/ La Plata County/ Archuleta County/ San Juan basin/ stratigraphy/ Montezuma County/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966
geochemistry/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ La Plata County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/

U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Durango site/ La Plata County/

U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/

U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

LARIMER COUNTY

Adams, J. A. S., 1954
volcanics/ uranium/ thorium/ analyses/ Larimer County/ igneous-metamorphic/ Grand County/ Rocky Mountain National Park/ Silverton/ San Juan County/

Anonymous, 1951
Larimer County/ Copper King mine/ pitchblende/ igneous-metamorphic/ ore deposits/ Front Range/

Baillé, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/
Banks, P. O., and Silver, L. T., 1954
Front Range/ ore deposits/ isotopes/ age determination/ uranium/ igneous-metamorphic/ Gilpin County/ Larimer County/ pitchblende/ bostonite/ Central City district/

Boos, C. M., and Boos, M. F., 1957
Tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Carter, W. D., and Guaittieri, J. L., 1958
Map/ Tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

Derzay, R. C., and Baker, K. E., 1953
Copper King mine/ ore deposits/ exploration/ Larimer County/ igneous-metamorphic/ veins/ pitchblende/ Precambrian rocks/ granite/ schist/ pegmatite/ copper/ zinc/ uranium/ Front Range/

Everhart, D. L., 1956
Sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

Everhart, D. L., 1956
Pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

Finch, W. I., 1957
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/

Granger, H. C., and King, R. U., 1950
Larimer County/ Copper King mine/ Copper King shaft/ Black Hawk claim no. 1/ pitchblende/ analyses/ igneous-metamorphic/ data/ Front Range/ uranium/

Granger, H. C., and King, R. U., 1951
Larimer County/ pitchblende/ Copper King mine/ Black Hawk no. 1 claim/ igneous-metamorphic/ pitchblende/ geology/ analyses/ Front Range/

Grossman, E. G., and Smith, B. C., 1956
Lithology/ uranium/ ore deposits/ sandstone/ exploration/ Front Range/ Dakota hogback/ Dakota Sandstone/ Cretaceous/ Boulder County/ Larimer County/ asphaltite/ Rose Mary No. 1 claim/ Wapakoneta lease/ Horsetooth Reservoir site/ Carter Lake/ Bonnell lease/ airborne radiometrics/

Gruner, J. W., and Smith, D. K., Jr., 1955
Siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/

Guillotte, G. B., 1944
Reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek pegmatites/ Clear Creek County/ carnitite/

Hall, C. R., 1976
Alkalie/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
 Pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/

Hickling, N. L., Phair, G., Moore, R., and others, 1970'
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/
King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/
Front Range/ San Miguel County/ pitchblende/
ore deposits/ Larimer County/ Jefferson County/
Gilpin County/ Raistlon Creek district/ Jamestown
district/ Caribou district/ Lawson district/
Clear Creek County/ igneous-metamorphic/

Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene
zoning/ veins/ uranium/ Larimer County/ Boulder
County/ Jefferson County/ Gilpin County/ Clear
Creek County/ igneous-metamorphic/

Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/
geochemistry/ ore deposits/ uranium/ Central
City district/ bostonite/ Gilpin County/ Clear
Creek County/ Larimer County/ Boulder County/
Jefferson County/ hypogene zoning/ igneous-metamorphic/

Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear
Creek County/ correlation/ geochemistry/ petrology/
Boulder County/ Grand County/ Summit County/
Gilpin County/ Park County/ Larimer County/
Teller County/ Jefferson County/ Front Range/
igneous-metamorphic/

Mallory, N. S., and Bird, A. G., 1953
exploration/ geology/ Jefferson County/ Ralston
Creek area/ Dawson arkoze/ James Peak area/
Boulder County/ Adams County/ Larimer County/
Gilpin County/ igneous-metamorphic/ Idaho Springs
Formation/ sandstone/ Dakota Sandstone/ Morrison
Formation/ Front Range/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/
veins/ pitchblende/ thorium/ uranium/ resources/
exploration/ igneous-metamorphic/ Front Range/
Gilpin County/ Clear Creek County/ pegmatites/
sandstone/ limestone/ Colorado Plateau/ Custer
County/ Gunnison County/ Boulder County/ Larimer
County/ Jefferson County/ coal/ San Miguel County/
Montrose County/ Mesa County/ Moffat County/

Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/
igneous-metamorphic/ Gunnison County/ Fremont
County/ Custer County/ Larimer County/ Gilpin
County/ Montezuma County/ Moffat County/ El
Paso County/

Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/

Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/
Teller County/ structural controls/ ore deposits/
Cordilleran foreland/ igneous-metamorphic/ Gilpin
County/ Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/
Larimer County

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Uravan district/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ Montrose County/ Mesa County/ stratigraphy/ structure/ sandstone/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ exploration/ drilling/

Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/ Mesa County/ Montrose County/ minerals/ Dolores County/ San Miguel County/ ore deposits/ mineralogic classification/

Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/ uranium/ vanadium/ composition/ oxidation/ mineralogy/ sandstone/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/

Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/ petrology/ ore deposits/ vanadium/ Uravan/ Montrose County/ sandstone/ Long Park/ La Salle Creek/ Mesa County/ Utah/ Arizona/ uranium/

Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/

Brasher, G. K., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Mesa County/ uranium/ vanadium/ Morrison Formation/ Outlaw Mesa/

Brasher, G. K., 1952
Mesa County/ Outlaw Mesa area/ exploration/ drilling/ carnitite/ Colorado Plateau/

Brasher, G. K., 1952
Colorado Plateau/ ore deposits/ geology/ Mesa County/ exploration/ drilling/ minerals/ carnitite/ production/ Outlaw Mesa/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

Brasher, G. K., and Jobin, D. A., 1951
reserves/ resources/ Colorado Plateau/ sandstone/ Outlaw Mesa/ Morrison Formation/ ore deposits/ drilling/ exploration/ uranium/ vanadium/ Salt Wash Member/ Mesa County/

Brasher, G. K., and Jobin, D. A., 1951
Colorado Plateau/ Mesa County/ reserves/ resources/ Outlaw Mesa/ sandstone/ ore deposits/ Salt Wash Member/ uranium/ vanadium/ Morrison Formation/

Brasher, G. K., and Jobin, D. A., 1951
Outlaw Mesa area/ Mesa County/ reserves/ resources/ Mineral Channel claims/ Colorado Plateau/ ore deposits/ sandstone/ uranium/ vanadium/ Salt Wash Member/ Morrison Formation/

elements/ variation/ analyses/ diagenesis/ ore deposits/ tabular uranium deposits/ La Sal mine/ Utah/ Rajah 49 mine/ Uravan district/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ Mesa County/ sandstone/

elements/ variation/ analyses/ diagenesis/ sandstone/ tabular uranium deposit/ La Sal mine/ Utah/ Rajah 49 mine/ ore deposits/ Morrison Formation/ Colorado Plateau/ Uravan district/ Salt Wash Member/ Mesa County/

Bruyn, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores County/ history/ San Miguel County/ Montrose County/ Mesa County/

Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnitite/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/

minerals/ carnitite/ Calamity claims/ Calamity mines/ uranium/ Charles T. claims/ Club Mesa claims/ Legin mines/ sandstone/ Morrison Formation/ vanadium/ Mesa County/ Colorado Plateau/ reserves/ Uravan district/ Montrose County/ San Miguel County/ ore deposits/

Mesa County/ Montrose County/ San Miguel County/
MESA COUNTY

Uravan district/ reserves/ uranium/ vanadium/ carnitite/ sandstone/ Colorado Plateau/ Morrison Formation/

Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnitite/ sandstone/ Colorado Plateau/ Morrison Formation/

Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Toldito Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/

Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/

Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/

Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/

Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/

Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/

Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/

Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Durex County/ Montrose County/ Mesa County/ sandstone/

Case, J. E., and Joesting, H. R., 1972
geochemical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/

Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geochemical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ igneous-metamorphic/

Cashon, W. B., 1973
geochemistry/ structure/ map/ Grand Junction quadrangle/ Colorado/ Utah/ Colorado Plateau/ Mesa County/ sandstone/ Rio Blanco County/ Garfield County/
Cater, F. W., Jr., 1953
Mesa County/ Calamity Mesa quadrangle/ geology/ map/ ore guides/ exploration/ minerals/ carnotite/ ore deposits/ Morrison Formation/ Salt Wash Member/ sandstone/ Maverick mines/ Arrowhead mines/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ mines/ Colorado Plateau/ Uravan district/

Cater, F. W., Jr., 1953
Uravan district/ Mesa County/ Gateway quadrangle/ geology/ carnotite/ Colorado Plateau/ Brushy Basin Member/ Morrison Formation/ Salt Wash Member/ sandstone/ shale/ Mammoth mine/ Vanaking No. 1 mine/ minerals/ map/ ore guides/ exploration/ ore deposits/

Cater, F. W., Jr., 1953
Carnotite/ Colorado/ stratigraphy/ structure/ mapping/ Colorado Plateau/ geology/ San Miguel County/ Mesa County/ Montrose County/

Cater, F. W., Jr., 1953
Colorado/ carnotite/ Mesa County/ Montrose County/ sandstone/ ore deposits/ Morrison Formation/ salt anticlines/ Salt Wash Member/ stratigraphy/ structure/ Colorado Plateau/ geology/ exploration/ mapping/ San Miguel County/

Cater, F. W., Jr., 1955
Mesa County/ Gateway district/ sandstone/ Colorado Plateau/ carnotite/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/

Cater, F. W., Jr., 1955
Pine Mountain quadrangle/ sandstone/ Mesa County/ carnotite/ Uravan district/ Colorado Plateau/ Morrison Formation/ sandstone/ Sunflower claim/ geology/ map/ ore deposits/ Salt Wash Member/

Cater, F. W., Jr., 1955
Mesa County/ carnotite/ Morrison Formation/ sandstone/ Maverick mines/ Arrowhead mines/ ore deposits/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ Calamity Mesa quadrangle/ Colorado Plateau/ geology/ map/ mines/ Salt Wash Member/

Cater, F. W., Jr., 1955
Calamity Mesa quadrangle/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Maverick mines/ Arrowhead mines/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ mines/ geology/ ore deposits/ map/

Cater, F. W., Jr., 1955
Colorado Plateau/ Colorado/ mapping/ maps published/ Mesa County/ Montrose County/ san Miguel County/ Dolores County/ sandstone/ carnotite/ ore deposits/

Cater, F. W., Jr., 1955
Colorado Plateau/ Mesa County/ Pine Mountain quadrangle/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Sunflower claim/ geology/ map/ Uravan district/ ore deposits/

Cater, F. W., Jr., 1967
Uravan district/ Paradox Basin/ Utah/ Colorado/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ structure/ Colorado Plateau/ geology/

Cater, F. W., Jr., 1970
Salt anticlines/ geology/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ stratigraphy/ structure/ sandstone/ Montrose County/

Cater, F. W., Jr., and Elston, D. P., 1961
Salt anticlines/ tectonics/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ structural development/ geology/ Utah/ sandstone/ Montrose County/

Cater, F. W., Jr., and Elston, D. P., 1963
Salt anticlines/ tectonics/ Colorado/ Mesa County/ Montrose County/ San Miguel County/ geology/ structural development/ Utah/ sandstone/ Colorado Plateau/

Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
San Miguel County/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/

Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/

Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/

Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/

Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/

Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/
production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/ Coffin, R. C., 1921 resources/ structure/ composition/ sandstone/ carnotite/ radium/ uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ ore deposits/ Coffin, R. C., 1921 carnotite/ Colorado Plateau/ radium/ uranium/ Mesa County/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Dolores County/ Montrose County/ Columbia University, 1971 plants/ uranium/ Colorado Plateau/ ore deposits/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Comstock, S. S., 1951 radioactivity/ exploration/ drilling/ Arizona/ Utah/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ gamma-ray logging/ Colorado Plateau/ Cooper, Margaret, 1951 bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ ore deposits/ Montrose County/ Cooper, Margaret, 1951 bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ organics/ sandstone/ Craig, L. C., 1958 stratigraphy/ Colorado Plateau/ Mesa County/ Colorado/ New Mexico/ sandstone/ Triassic/ Mesozoic/ Craig, L. C., and Holmes, C. N., 1951 Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/ Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951 Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/ Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1953 stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ La Plata County/ Montezuma County/ Salt Wash Member/ Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977 Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ Curran, T. F., 1913 Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ Igneous-metamorphic/ Curran, T. F., 1913 ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ Igneous-metamorphic/ Dare, W. L., 1959 Salt Wash Member/ ore deposits/ production/ methods/ economics/ costs/ Jurassic formations/ Morrison Formation/ Mesa County/ Montrose County/ sandstone/ mining/ Colorado Plateau/ Dare, W. L., 1959 Montrose County/ Mesa County/ Mineral Joe mine/ G-1 mine/ sandstone/ mining methods/ mining costs/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ Dare, W. L., Lindblom, R. A., and Soule, J. H., 1961 Mesa County/ Montrose County/ San Miguel County/ sanstone/ mining methods/ mine maps/ Colorado Plateau/ Veta Mad mine/ Davis, W. E., 1951 Colorado Plateau/ Mesa County/ Montrose County/ carnotite/ exploration/ electrical resistivity/ sandstone/ geophysics/ ore deposits/ Davis, W. E., 1953 Colorado Plateau/ geophysics/ exploration/ Salt Wash Member/ sandstone/ Gramlich mine/ Spud Patch area/ La Sal Creek area/ San Miguel/ County/ Mesa County/ Montrose County/ Colorado/ Utah/ Arizona/ Morrison Formation/ Davis, W. E., 1953 Colorado Plateau/ geophysics/ exploration/ carnotite/ sandstone/ Morrison Formation/ Salt Wash Member/ drilling/ Mesa County/ San Miguel County/ Montrose County/ Davis, W. E., Swartz, J. H., and Shuler, R. M., 1949 Calamity Mesa area/ Outlaw Mesa area/ Sage Flat area/ Mesa County/ geophysical investigations/ Calamity claims/ carnotite/ sandstone/ ore deposits/ geology/ Morrison Formation/ Salt Wash Member/ geophysics/ Colorado Plateau/
DEL RIO, W. T., 1956
Colorado Plateau/ ore deposits/ uranium/ vanadium/ drilling/ sandstone/ exploration/ Tenderfoot Mesa/ Mesa County/

Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ uranium minerals/ bog iron deposit/ Summit County/ sandstone/ photomicrographs/ electron microscope/ Montrose County/ Jo Dandy mine/ Mesa County/ Matchless mine/ Colorado/ Utah/ South Dakota/ sandstone/ mineralogy/

Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Urravan district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/

Eicher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/ Morrison Formation/ Salt Wash Member/ sandstone/ conglomerate/ uranium/ vanadium/ Colorado Plateau/ ore deposits/ Beaver Mesa area/ Brushy Basin Member/

Eicher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/ Morrison Formation/ Salt Wash Member/ sandstone/ conglomerate/ uranium/ vanadium/ Colorado Plateau/ ore deposits/ Beaver Mesa area/ Brushy Basin Member/

Eicher, L. J., 1956
Mesa County/ Colorado/ Utah/ Gateway district/ Ajax mine/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ La Sal mines/ Pack Rat No. 1 mine/ Lost Indian No. 2 mine/ Lumsden mines/ Colorado Plateau/ ore deposits/ Beaver Mesa area/

Eicher, L. J., and Bivens, N. W., 1955
Cedar Point mines/ Lumsden #1 and 2 mines/ Pack Rat mine/ Rae Marie mines/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Beaver Mesa area/ Mesa County/ Colorado/ Utah/ Morrison Formation/

Mesa County/ Colorado/ Utah/ Gateway district/ uranium/ vanadium/ Morrison Formation/ Brushy Basin Member/ sandstone/ conglomerate/ Lumsden mines/ Colorado Plateau/ ore deposits/ Beaver Mesa area/ Salt Wash Member/

Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Beaver Mesa area/ Mesa County/ Colorado/ Utah/ Gateway district/

Eicher, L. J., and Myers, A. R., 1970
maps/ drilling/ exploration/ Beaver Mesa area/ Mesa County/ Colorado/ Utah/ sandstone/ Colorado Plateau/ Gateway district/ ore deposits/

Beaver Mesa area/ Mesa County/ Colorado/ Utah/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Ajax mine/ La Sal mines/ Pack Rat No. 1 mine/ Lumsden mines/ map/ geology/ Colorado Plateau/ ore deposits/ Gateway district/

Eicher, L. J., Hedlund, Donald C., and Miller, G. A., 1956
Mesa County/ Colorado/ Utah/ Gateway district/ Salt Wash Member/ Brushy basin Member/ sandstone/ conglomerate/ Ajax mine/ La Sal mines/ Pack Rat No. 1 mine/ Lumsden mines/ uranium/ vanadium/ geology/ map/ sections/ Colorado Plateau/ ore deposits/ Morrison Formation/

sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/

Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnottite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphault/ limestone/ black shale/ Belgian Congo/ Canadium Shield/

Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/

Farnum, Dwight, 1919
Colorado/ Utah/ Gateway district/ ore deposits/ resources/ carnottite/ uranium/ vanadium/ Mesa County/ sandstone/ Morrison Formation/ Colorado Plateau/

Finch, W. L., 1951
Mesa County/ carnottite/ uranium production/ sandstone/ Blue Mesa area/ reserves/ resources/
drilling/ core/ Colorado Plateau/ exploration/ ore deposits/

Finch, W. L., 1951
Mesa County/ Blue Mesa area/ Moon Mesa area/ exploration/ drilling/ core/ carnitite/ uranium/ production/ sandstone/ Colorado Plateau/ drill data/ ore deposits/

Finch, W. L., 1952
Colorado Plateau/ ore deposits/ geology/ ore guides/ exploration/ drilling/ minerals/ carnitite/ uranium/ production/ Blue Mesa area/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/

Finch, W. L., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Geyersill mine/ Placerville district/ Urvan district/ Gateway district/ map/ geology/

Finch, W. L., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

Finch, W. L., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/

Finch, W. L., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Bent County/ Dolores County Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fischer, R. P., 1937
Copper/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/

Fischer, R. P., 1942
Vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/ Colorado/ Utah/ vanadium/ ore deposits/ uranium/ geochernistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/

Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/ radium/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ sandstone/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Dolores County/ Colorado Plateau/

Fischer, R. P., 1947
Colorado Plateau/ exploration/ drilling/ sandstone/ carnitite/ recommendations/ Garfield County/ San Miguel County/ Montrose County/ Mesa County/

Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/ genesis/ structure/ ground water/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montrose County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ Garfield County/ Rio Blanco County/ sandstone/ ore rolls/ carnitite/ geology/ ore deposits/ mineralogy/ alteration/ Club mine/ uranium/ radium/ vanadium/ Entrada Sandstone/ genesis/

Fischer, R. P., 1950
uranium/ vanadium/ potential/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Fischer, R. P., 1951
Colorado Plateau/ Urvan district/ exploration/ drilling/ sandstone/ ore deposits/ Morrison Formation/ Montrose County/ Mesa County/ Dolores County/ San Miguel County/

Fischer, R. P., 1952
reserves/ resources/ Charles T. claims/ uranium/ Club Mesa area/ Maverick claims/ Radium claims/ Upper group/ Georgetown claims/ vanadium/ Colorado Plateau/ carnitite/ Morrison Formation/ sandstone/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/

Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/

Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/
Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/ sandstone/ vanadium/ uranium/ ore deposits/ Colorado Plateau/ geochronology/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Urvan district/}

Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Urvan district/}

Fischer, R. P., 1956
Colorado Plateau/ geology/ structure/ ore deposits/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chiricahua Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/}

Fischer, R. P., 1973
ore guides/ uranium districts/ mineral belts/ exploration/ future/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/}

Fischer, R. P., 1974
exploration/ ore guides/ uranium/ ore deposits/ Colorado Plateau/ Urvan district/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/}

Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ ore guides/ genesis/ Morrison Formation/ carnotite/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ ore deposits/ Calamity group/ geology/ structure/
Gabelman, J. W., 1956  
uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/  

Gabelman, J. W., 1956  
uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/  

Gabelman, J. W., and Boyer, W. H., 1974  
extoration/ status/ uranium/ technology/ history/ pitchblende/ radium/ vanadium/ Colorado Plateau/ Front Range/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ Moffat County/ Jefferson County/ sandstone/ igneous-metamorphic/ shale/  

Garrels, R. M., 1953  
Colorado Plateau/ ore deposits/ carnotite/ genesis/ weathering/ transport/ deposition/ Paradox Valley/ Urravan district/ Montrose County/ sandstone/ San Miguel County/ Mesa County/ geology/  

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959  
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organic/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/  

Colorado Plateau/ oxidation/ reduction/ ore deposits/ organic/ uraninite/ pyrite/ sandstone/ geochemistry/ San Miguel County/ Garfield County/ Montrose County/ Mesa County/  

Garrels, R. M., and Pommer, A. M., 1959  
oxidation/ reduction/ ores/ minerals/ geochemistry/ ore deposits/ mineralogy/ Colorado Plateau/ sandstone/ San Miguel County/ Mesa County/ Montrose County/ Garfield County/  

thermodynamics/ uranium oxides/ oxidation states/ Colorado Plateau/ ore deposits/ San Miguel County/ genesis/ sandstone/ Montrose County/ Garfield County/ Mesa County/  

Gilbert, C. C., 1954  
resources/ sandstone/ Urravan district/ Morrison Formation/ Mesa County/ Montrose County/ Gateway district/ Gypsum Valley district/ slick rock district/ Colorado Plateau/ Salt Wash Member/ Dolores County/ San Miguel County/ Paradox district/  

Goldenstein, S. J., 1957  
economic map/ Mount Waas quadrangle/ Utah/ Colorado/ Mesa County/ sandstone/ ore deposits/ resources/ Colorado Plateau/  

Gruner, J. W., 1951  
Shinarump Member/ Morrison Formation/ Colorado Plateau/ conglomerate/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Utah/ pitchblende/ genesis/ Chinle Formation/ ore deposits/  

Gruner, J. W., 1953  
Colorado Plateau/ ore deposits/ genesis/ mineralization/ shale/ sandstone/ siltstone/ clays/ Morrison Formation/ Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi Formation/ Shinarump Member/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ asphaltite/ uraninite/ copper/ Chinle Formation/  

Gruner, J. W., 1953  
Colorado Plateau/ ore deposits/ syngentic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ conglomerate/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ Todilto Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chinle Formation/  

Gruner, J. W., 1953  
Colorado Plateau/ ore deposits/ intrusives/ extrusives/ ore sources/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ ground water/ igneous-metamorphic/  

Gruner, J. W., 1954  
Colorado Plateau/ ore deposits/ genesis/ mineralogy/ Utah/ Colorado/ sandstone/ siltstone/ conglomerate/ limestone/ uranium/ vanadium/ New Mexico/ geology/ San Miguel County/ Montrose County/ Mesa County/  

Gruner, J. W., 1954  
Colorado Plateau/ genesis/ ore deposits/ organic materials/ sandstone/ uranium/ carbon/ San Miguel County/ Montrose County/ Mesa County/  

Gruner, J. W., 1956  
uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/  

Gruner, J. W., 1956  
Colorado Plateau/ ore deposits/ mineral assemblages/ Utah/ Colorado/ uranium/ sandstone/ continental-type deposits/ Morrison Formation/ San Miguel County/ Montrose County/ Mesa County/  

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uranium concentration/ sediments/ geochemistry/ sandstone/ genesis/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/ Colorado Plateau/  

Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/  

688
Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/ Colorado Plateau/ sandstone/ siltstone/ shale/ coffinite/ uraniumite/ organics/ Hopi Buttes/ diatremes/ Arizona/ Colorado/ New Mexico/ Utah/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/ sandstone/ Browns Park Formation/ Colorado Plateau/ Morrison Formation/ Chiricahua Formation/ Mesa County/ San Miguel County/ peat/ lignite/ Moffat County/ Montrose County/

Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/

Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1953
ore deposits/ black shale/ genesis/ carbonaceous materials/ asphaltic materials/ Colorado Plateau/ Colorado/ Utah/ hydrocarbons/ asphaltite/ thucholite/ sandstone/ uranium/ vanadium/ Calamity Mesa/ Mesa County/ Montrose County/

Colorado Plateau/ ore deposits/ mineralogy/ uraninite/ coffinite/ vanadium/ uranium/ Colorado/ Utah/ New Mexico/ Todilto Limestone/ limestone/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ San Miguel County/ Greensill mine/ Mesa County/ Montrose County/ San Juan County/

Guillotet, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/ Utah/ Garfield County/ Rio Blanco County/ uranium/ Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ gilsonite/ shale/ Green River Formation/ oil shale/ native asphalts/

Guillotet, G. B., 1947
drilling/ mineralization/ Mesa County/ sandstone/ radionactivity/ ore deposits/ well logging/ gamma-ray logs/ Calamity district/ Uncompahgre uplift area/ Colorado Plateau/

Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/ Colorado/ Utah/ exploration/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/

Hackman, R. J., 1958
Mesa County/ Montrose County/ Delta County/ photogeologic map/ sandstone/ Colorado Plateau/ Escalante Forks quadrangle/

Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek NE quadrangle/ sandstone/ Colorado Plateau/

Hacker, R. J., 1959
Grand County/ photogeologic map/ Coach Creek SE quadrangle/ sandstone/ Colorado Plateau/

Hagey, D. J., 1955
Colorado Plateau/ ore deposits/ exploration/ channels/ sandstone/ uranium/ ore concentration/ San Miguel County/ Montrose County/ Mesa County/

Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral belt/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/

Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/ production/ costs/ sandstone/ uranium/ methods/ mining/ San Miguel County/ Montrose County/ Mesa County/

Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/

Hawkes, H. E., 1949
Colorado Plateau/ botany/ geobotany/ Garfield ore zones/ carnitite/ ore deposits/ Charles T. mine/ geology/ sandstone/ Utah/ selenium/ Rifle mine/ Lower group mines/ Garfield mine/ Mesa County/ Montrose County/ San Miguel County/ Arizona/

Hedge, C. E., Peterman, Z. E., Case, J. E., and others, 1968
Precambrian rocks/ geochronology/ Uncompahgre Plateau/ Mesa County/ igneous-metamorphic/ Utah/ Colorado Plateau/

Henderson, E. P., and Hess, F. L., 1933
corvusite/ vanadium/ San Miguel County/ Mesa County/ Gateway district/ Gypsum Valley district/ Colorado/ Colorado Plateau/ sandstone/ rilindite/ Utah/ carnitite/

Hess, F. L., 1914
genesis/ carnitite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
Hess, F. L., 1925
carnotite/ vanadinite/ sandstone/ mining/ MESA COUNTY
Hess, F. L., 1925
Carnotite/ vanadinite/ sandstone/ Radium/ MESA COUNTY
Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/ sandstone/ ore deposits/ MESA COUNTY
Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/ sandstone/ ore deposits/ MESA COUNTY
Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/ ore deposits/ MESA COUNTY
Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/ gold/ silver/ molybdenum/ sediments/ Colorado Plateau/ sandstone/ MESA COUNTY
High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/
High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ igneous-metamorphic/ Colorado Plateau/ Mesa County/
High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Saguache County/ Igneous-Metamorphic/ Colorado Plateau/
High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/ mines/ reports/ Mesa County/ Montrose County/ San Miguel County/
High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ MESA COUNTY
High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/ drilling/ Colorado Plateau/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/
Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/
Hunt, C. B., 1958  
structural geology/igneous geology/La Sal Mountains/Utah/stratigraphy/genesis/economic geology/Mesa County/Montrose County/Colorado/igneous-metamorphic/Colorado Plateau/  

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drilling/Colorado Plateau/sandstone/San Miguel County/drilling trends/ore deposits/reserves/Montrose County/Mesa County/  

Isachsen, Y. W., 1956  
Colorado Plateau/Shinarump Member/Chinle Formation/Holiday Mesa/Happy Jack mine/Calyx mines/Delta mine/Cameron district/copper/vanadium/sandstone/geology/ore deposits/Montrose County/San Miguel County/Dolores County/Big Indian Wash-Lisbon Valley district/Mesa County/stratigraphy/structure/  

Isachsen, Y. W., and Evensen, C. G., 1956  
Colorado Plateau/Shinarump Member/Chinle Formation/Holiday Mesa/Happy Jack mine/Calyx mines/Delta mine/Cameron district/copper/vanadium/Big Indian Wash-Lisbon Valley district/sandstone/geology/ore deposits/Mesa County/Montrose County/San Miguel County/Montezuma County/Dolores County/Montezuma County/sandstone/sandstone/ground water/La Plata County/structure/  

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954  
uranium/ore deposits/exploration/drilling/Colorado Plateau/sandstone/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/  

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955  
Colorado Plateau/ore deposits/absolute age/host rocks/sandstone/formational environments/Entrada Sandstone/Kayenta Formation/Garfield County/Moffat County/Rio Blanco County/San Miguel County/Mesa County/Dolores County/Delta County/Dolores County/Montezuma County/La Plata County/Archuleta County/  

Ives, R. L., 1936  
sandstone/radium/mining/ore deposits/San Miguel County/Colorado Plateau/history/Utah/carnotite/Montrose County/Dolores County/Mesa County/Montezuma County/uranium/McElmo Formation/  

Jensen, M. L., 1957  
Colorado Plateau/ore deposits/mineralization/sulfides/uranium/sandstone/sulfur isotopes/sulfur ratios/genesis/San Miguel County/Montrose County/Mesa County/  

Jensen, M. L., 1971  
carbon/oxygen/sulfur/isotopes genesis/sandstone/uranium/ore deposits/Colorado Plateau/Wyoming/San Miguel County/Montrose County/Garfield County/Mesa County/  

Jobin, D. A., 1956  
Colorado Plateau/ore deposits/exploration/uranium/sediments/sandstone/ground water/La Plata County/Archuleta County/Moffat County/Rio Blanco County/Garfield County/Mesa County/Montrose County/San Miguel County/Dolores County/regional transmissivity/Delta County/  

Jobin, D. A., 1956  
Colorado Plateau/ore deposits/exploration/regional transmissivity/uranium/sediments/sandstone/ground water/La Plata County/Archuleta County/Moffat County/Rio Blanco County/Garfield County/Mesa County/Delta County/Montrose County/San Miguel County/Dolores County/Montezuma County/  

Jobin, D. A., 1956  
Colorado Plateau/ore deposits/Morrison Formation/transmissivity/sandstone/San Miguel County/ground water/conglomerate/Chinle Formation/Moffat County/Rio Blanco County/Garfield County/Mesa County/Delta County/Montrose County/Dolores County/Montezuma County/La Plata County/Archuleta County/  

Jobin, H. R., and Byerly, P. E., 1953  
Gateway district/Sleeping Ute Mountain/Uravan district/geophysics/Colorado Plateau/San Miguel County/Montrose County/Mesa County/Montezuma County/Dolores County/sandstone/Slick Rock district/vanadium/uranium/Egnar district/ore deposits/  

Jobin, H. R., and Byerly, P. E., 1956  
Disappointment Valley/Gypsum Valley/Nucla district/Paradox district/Uncompahgre Plateau/Mesa County/San Miguel County/Uravan district/ore deposits/salt anticlines/Disappointment syncline/geophysics/sandstone/Colorado Plateau/geology/Dolores County/Montrose County/  

Jobin, H. R., and Byerly, P. E., 1956  
aeromagnetics/ gravity profiles/sandstone/Colorado Plateau/paradox district/uranium/Mesa County/Montrose County/Dolores County/Uravan district/geology/ore deposits/geophysics/San Miguel County/  

Jobin, H. R., and Byerly, P. E., 1958  
Disappointment Valley/Disappointment syncline/Nucla district/Paradox district/Uncompahgre Plateau/Mesa County/Montrose County/San Miguel County/geophysics/salt anticlines/map/ore deposits/sandstone/Gypsum Valley district/Uravan district/geology/Dolores County/Colorado Plateau/  

Jobin, H. R., and Case, J. E., 1960  
salt anticlines/structures/Paradox basin/Colorado/Utah/ore deposits/sandstone/Hermosa Formation/Paradox Member/Montrose County/Mesa County/San Miguel County/structural geology/Colorado Plateau/  

geophysics/Salt Valley area/Cisco area/Utah/Colorado/sandstone/Mesa County/Colorado Plateau/  

Moab area/Needles area/Utah/sandstone/Mesa
Keller, E. P., Kaiser, E. P., and Licastro, P. H., 1959

dielectric constant/ electrical resistivity/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ cores/ Colorado Plateau/ Morrison Formation/

Kelley, V. C., 1955

sandstone/ Colorado Plateau/ geophysics/ stratigraphy/ geology/ magnetic survey/ gravity survey/ structural geology/ San Miguel County/ Dolores County/ Colorado Plateau/

Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953

lithology/ cores/ Colorado Plateau/ Morrison Formation/ petrography/ Salt Wash Member/ sediments/ sandstone/ structure/ Mesa County/ Montrose County/ San Miguel County/ shale/ siltstone/ Bull Canyon district/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ La Plata County/ Montezuma County/ Ouray County/ Montrose County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Ouray County/ Montrose County/ La Plata County/ Delta County/ structural controls/

Kelley, V. C., 1955

diorite/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montrose County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ San Juan County/ Delta County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ San Juan County/ Ouray County/ Montrose County/ La Plata County/ Garfield County/ Delta County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959

jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kelley, V. C., and Clinton, N. J., 1960

Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Rio Blanco County/ Garfield County/ Delta County/ Moffat County/ San Miguel County/

Kellogg, J. P., 1952

Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tenderfoot Mesa/

Kellogg, J. P., 1954

drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/
Kellogg, J. P., 1955
Cost review/ exploration/ Colorado Plateau/ drilling/ statistics/ Mesa County/ drilling rates/ Utah/ sandstone/ Montrose County/

Air/ alpha sources/ ore deposits/ building materials/ Colorado/ concretes/ daughter products/ radiation monitoring/ radioactivity/ radon/ uranium/ Mesa County/ sandstone/ Colorado Plateau/

Kerr, P. F., 1958
Uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Arkhuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Orange County/ Arizona/ Long Park district/ Dolores County/ Yellow Cat mine/ Slick Rock district/

Kirkemo, Harold, 1954
Colorado Plateau/ sandstone/ exploration/ drilling/ Mesa County/ Montrose County/ San Miguel County/ Uteban district/ ore deposits/ Morrison Formation/ Colorado/ Utah/ Arizona/ Long Park district/ Dolores County/ Yellow Cat mine/ Slick Rock district/

Kirkemo, Harold, 1954
Ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ exploration/ sandstone/ Mancos Mesa/ Uteban district/ Jo Dandy area/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Entrada Sandstone/ Moffat County/ Browns Park Formation/ Slick Rock district/ Long Park district/

Kirkpatrick, R. K., 1944
Uranium/ exploration/ mineralization/ lithology/ Clammy Mesa area/ Uncompaghre uplift area/ sandstone/ stratigraphy/ Mesa County/ ore deposits/ geology/ Colorado Plateau/

Kline, M. A., Jr., 1954
Gateway district/ Colorado Plateau/ uranium/ vanadium/ Mesa County/ Morrison Formation/ carnitite/ stratigraphy/ structure/ ore deposits/ sandstone/ economics/ development/ marketing/

Kober, C. L., and Procter-Gregg, H. D., 1977
Uranium/ alteration zones/ LANDSAT MSS imagery/ Jefferson County/ Boulder County/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ igneous-metamorphic/

Koeberlin, F. R., 1938
Copper/ vanadium/ uranium/ silver/ Colorado/ Utah/ genesis/ ore deposits/ discussion/ Montrose County/ Colorado Plateau/ Mesa County/ Montezuma County/ San Miguel County/ Dolores County/ sandstone/

Lindgren, Waldemar, 1933
Copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnitite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McElmo Formation/ genesis/ Gilpin County/ igneous-metamorphic/ ore deposits/ Front Range/

Lowell, J. D., 1953
Colorado Plateau/ uranium/ exploration/ cross stratification/ Morrison Formation/ sandstone/ Arizona/ New Mexico/ mud-pellets/ conglomerate/ Salt Wash Member/ Calamity Mesa/ Mesa County/ Colorado/ Utah/ ore deposits/ Chuska Mountains/

Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground water/ mineralization/ sandstone/ Jurassic syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

McDougald, W. D., 1954
Stratigraphy/ radioactivity/ radiation detectors/ geology/ radiation monitoring/ Paleocene/ Ohio conglomerate/ Eocene/ DeBeque area/ Mesa County/ Garfield County/ Colorado Plateau/ sandstone/

McKay, E. J., 1951
Colorado Plateau/ ore deposits/ Mesa County/ Montrose County/ Uravan district/ Gateway district/ ore guides/ exploration/ sandstone/ Morrison Formation/ Salt Wash Member/ carnitite/

McKay, E. J., 1953
Carpenter Ridge/ Carpenter Flats/ Martin Mesa/ Uravan district/ Montrose County/ Red Canyon quadrangle/ carnitite/ Dolores mines/ Raven mine/ Shamrock mine/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Mesa County/ Colorado Plateau/ ore deposits/ geology/

McKay, E. J., 1953
Blue Mesa/ Uravan district/ Mesa County/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ Utah/ stratigraphy/ Colorado Plateau/ carnitite/ Gateway district/ ore deposits/ exploration/ geology/ genesis/ localization/ ore guides/

McKay, E. J., 1953
Uravan district/ Montrose County/ ore guides/ carnitite/ Star No. 1 claim/ Wright mines/ theories of origin/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Burro Canyon Formation/ geology/ Colorado Plateau/ ore deposits/ Wingate Sandstone/ Mesa County/ Atkinson Creek quadrangle/

McKay, E. J., 1954
Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnitite/ geology/ ore deposits/ Red Canyon quadrangle/

McKay, E. J., 1955
Montrose County/ Mesa County/ Colorado Plateau/
Mesa County

Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnitite/ geology/ ore deposits/ Red Canyon quadrangle/

McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/

McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnitite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/

McKelvey, V. E., 1955
Dolores County/ Mesa County/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/

genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochrology/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/ igneous-metamorphic/
County/ Clear Creek County/ Caribou district/ igneous-metamorphic/

Metal Mining Fund Board, 1961
vanadium/ mineralogy/ geochemistry/ Colorado Plateau/ sandstone/ uranium/ Rifle Creek district/ roscoelite/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Placerville district/

Metzger, O. H., 1945
exploration/ ore deposits/ geology/ mineralization/ mining/ production/ stratigraphy/ topography/ mapping/ uranium/ vanadium/ Calamity district/ Uncompahgre uplift/ sandstone/ Mesa County/ Calamity Mesa/ Flattop Mesa/ mines/ Colorado Plateau/

Metzger, O. H., 1946
minerals/ Colorado/ Utah/ ore deposits/ mineralization/ geography/ stratigraphy/ mining/ data/ Beaver Creek Mesa district/ Green River Desert area/ Plateau/ sandstone/ uranium/ vanadium/ Mesa County/ Montrose County/

Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/ chemical composition/ size determination/ Jurassic/ sandstone/ ore guides/ uranium/ statistics/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Morrison Formation/

Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/ size determination/ sandstone/ Jurassic/ Morrison Formation/ ore guides/ uranium/ statistics/ San Miguel County/ Montrose County/ Mesa County/ chemical composition/ Dolores County/

Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chiricahua Formation/ Montezuma County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/

elements/ Colorado Plateau/ sandstone/ Chiricahua Formation/ analyses/ uranium/ vanadium/ Morrison Formation/ Uravan district/ statistics/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/

chemical composition/ ore guides/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ statistics/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ geology/

Colorado Plateau/ ore deposits/ sandstone/ ore guides/ deposit size/ Jurassic/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ uranium/ chemical composition/ Morrison Formation/

Mines Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/

Moore, R. B., 1913
ore deposits/ carnitite/ Colorado/ Utah/ mining/ uranium/ radium/ vanadium/ North Carolina/ marketing/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ pitchblende/ Huerfano County/ Colorado Plateau/ Front Range/ sandstone/

Morgan, J. M., Jr., 1959
environment/ stream study/ uranium/ Colorado River/ Gunnison River/ Colorado Plateau/ liquid wastes/ surface water/ stream sediments/ Mesa County/ Garfield County/

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environment/ stream study/ uranium/ Colorado River/ Gunnison River/ Colorado Plateau/ liquid wastes/ surface water/ stream sediments/ Mesa County/ Garfield County/

Motica, J. E., 1968
Uravan district/ genesis/ solutions/ Morrison Formation/ precipitation/ sandstone/ lenses/ Jurassic/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ geology/ uranium/ vanadium/ ore deposits/ Colorado Plateau/

Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/

Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

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lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/

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Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uraur district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

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Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Uraur district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/

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Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Uraur district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Montezuma County/

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Mesa County/ Calamity Mesa area/ gamma-ray logging/ ground water/ minerals/ pitchblende/ sandstone/ Morrison Formation/ Salt Wash Member/ correlation/ permeability logs/ uranium/ Colorado Plateau/ ore deposits/

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ground water/ Colorado Plateau/ analyses/ Colorado/ Utah/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/

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Alkali Lake/ Calamity Mesa/ Slick Rock district/ Montrose County/ San Miguel County/ ground water/ carnitite/ sandstone/ Morrison Formation/ stratigraphy/ Brushy Basin Member/ Recapture Member/ Weslwater Canyon Member/ Colorado Plateau/ Mesa County/ Salt Wash Member/

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Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ Utah/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Morrison Formation/ sandstone/

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carnitite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/

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carnitite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/

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Colorado/ Utah/ ore deposits/ sandstone/ conglomerate/ Jurassic/ Morrison Formation/ Colorado Plateau/ uranium/ Brushy Basin Member/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/

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Colorado Plateau/ Colorado/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ chemistry/ Utah/

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Mesa County/ Montrose County/ San Miguel County/ theories of origin of sandstone-type uranium deposits/ uranium deposits/ host rock/ sandstone/ Morrison Formation/ stratigraphy of Morrison Formation/ ground water studies/

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Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/

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Colorado Plateau/ ore guides/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ County/ Triassic/

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ore deposits/ carnotite/ accessory minerals/ sandstone/ Placerville district/ San Miguel County/ Rio Creek area/ Montrose County/ Mesa County/ uranium/ vanadium/ genesis/ analyses/ Colorado Plateau/ veins/

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Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ copper/ hydrocarbons/ limestone/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

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heavy minerals/ simulation/ ore deposits/ placers/ gravels/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ samarskite/ Shinarump Member/ conglomerate/ Colorado Plateau/ fluvial deposits/ San Miguel County/

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clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/

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data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pueblo County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/

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uranium ore/ rolls/ Rifle district/ Urevan district/ Colorado Plateau/ sandstone/ Entrada Sandstone/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Morrison Formation/

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structure/ Sinbad Valley anticline/ Fisher Valley anticline/ salt anticlines/ Mesa County/ Montrose County/ sandstone/ Utah/ Colorado Plateau/

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Mesa County/ Montrose County/ Sinbad Valley anticline/ Fisher Valley anticline/ salt anticlines/ sandstone/ Utah/ Colorado Plateau/

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Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ igneous-metamorphic/ geology/ guidebook/ Mesa County/
MESA COUNTY

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Uravan district/ Mesa County/ Juanita Arch quadrangle/ geology/ ore guides/ minerals/ carnitite/ mines/ Maverick mines/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ conglomerate/ copper/ silver/ ore deposits/ mineralogy/ Colorado Plateau/

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Mesa County/ Juanita Arch quadrangle/ stratigraphy/ Colorado Plateau/ carnitite/ structure/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Maverick mines/ Depression mines/ Uravan district/ geology/ map/

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structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/ County/ San Juan County/

Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/

Moenkopi Formation/ salt anticlines/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/

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goalogy/ geologic ore deposits/ Montrose County/ vanadium/ stratigraphy/ exploration/ uranium/ mineralization/ Uravan district/ stratigraphy/ San Miguel Plateau/ San Miguel County/ sandstone/ Mesa County/ Colorado Plateau/

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uranium/ vanadium/ Mesa County/ exploration/

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ore guides/ vanadium/ Mesa County/ exploration/ drilling/ Calamity group/ geology/ minerals/ carnitite/ ore deposits/ Colorado Plateau/ uranium/ production/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

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Colorado Plateau/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ reserves/ La Sal County/ exploration/ Paradox Valley district/

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maps/ exploration/ drilling/ sandstone/ Calamity Mesa/ Mesa County/ Colorado Plateau/

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Long Park area/ minerals/ carnitite/ geology/ ore deposits/ sandstone/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/

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age determination/ Colorado Plateau/ Mesa County/ uranium/ Montrose County/ San Miguel County/ Bob Tail mine/ Jo Dandy mines/ Radium No. 6 mine/ Calamity mines/ radiocollodis/ radium/ genesis/ Club mines/ sandstone/ ore deposits/

age determinations/ Colorado Plateau/ Calamity Mesa/ Paradox district/ sandstone/ Mesa County/ Montrose County/ Jo Dandy mines/ May Day mine/ Parco mine/ Small Spot mine/ Yellow Cat mines/ mineralogy/ metatuyamunite/

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 Colorado Plateau/ age dating/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ lead-uranium ratios/ Mesa County/ Montrose County/ San Miguel County/ San Juan County/

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 Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumins/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/

 coffinite/ Mesa County/ La Sal No. 2 mine/ mineralogy/

Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
 Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ sandstone/ igneous-metamorphic/

Stoelling, H. E., and Page, L. R., 1956
 veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/

Stoelling, H. E., and Page, L. R., 1956
 veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ x-ray analyses/ San Miguel County/ sandstone/ igneous-metamorphic/

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 Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

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 Mesa County/ Montrose County/ sandstone/ Colorado Plateau/ statistical measures/ average deposit size/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Gateway district/ Uravan district/
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/
Mesa County/ Montrose County/ San Miguel County/
Matchless mine/ Peanut mine/ Fall Creek mine/
Morrison Formation/ Entrada Sandstone/ geochemistry/
x-ray analyses/ mineralogy/ 

sherwoodite/ vanadium/ sandstone/ Colorado Plateau/
San Miguel County/ Mesa County/ Montrose County/
Matchless mine/ Peanut mine/ Fall Creek mine/
Morrison Formation/ Entrada Sandstone/ geochemistry/
x-ray analyses/ mineralogy/ 

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Morrison Formation/ Outlaw Mesa area/ Mesa County/
reserves/ resources/ Colorado Plateau/ sandstone/
ore deposits/ uranium/ 

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uranium concentrates/ sampling/ samplers/ Grand
Junction/ Mesa County/ sandstone/ Colorado Plateau/

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geosy/ uranium/ geophysical prospecting/ economic
geochemistry/ mining engineering/ petrology/ minerals/
radioactivity/ Mesa County/ reconnaissance/
ore deposits/ sandstone/ Colorado Plateau/ 

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maps/ stratigraphy/ historical notes/ sandstone/
Mesa County/ San Miguel County/ Montrose County/

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failing/ Grand Junction site/ Mesa County/ 
Colorado Plateau/ sandstone/ 

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sandstone/ Colorado Plateau/ Powderhorn district/
igneous-metamorphic/ exploration/ Slick Rock
district/ Gypsum Valley district/ Morrison Formation/
Gateway district/ Mesa County/ Montrose County/
Dolores County/ Spud Patch area/ Legin group/
Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/
Gunnison County/ 

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sandstone/ Colorado Plateau/ Front Range/ veins/
igneous-metamorphic/ thorium/ Powderhorn district/
natural waters/ Morrison Formation/ Mesa County/
San Miguel County/ Dolores County/ Gilpin County/
San Juan County/ La Plata County/ Ouray County/
geology/ Gunnison County/ Montrose County/ San
Juan Mountains/ Clear Creek County/ ore deposits/

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geologic mapping/ Colorado Plateau/ Front Range/
carbonaceous rocks/ geochemistry/ reconnaissance/
black shales/ sandstone/ igneous-metamorphic/
geology/ ore deposits/ Gilpin County/ Clear
Creek County/ Jefferson County/ Montrose County/
Mesa County/ San Miguel County/ Gunnison County/

Clear Creek County/ Gilpin County/ ore deposits/
reserves/ Colorado Plateau/ exploration/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Moffat County/ Dolores County/
Rio Blanco County/ Front Range/ igneous-metamorphic/
Jefferson County/ pitchblende/ hydrogeochemical
exploration/ stream sediments/ ground water/
mine waters/ 

Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ ore
deposits/ Morrison Formation/ geology/ Chinle
Formation/ Shinarump Member/ reserves/ San Juan
Mountains/ snow/ surface water/ ground water/
Ouray County/ San Juan County/ conglomerate/
igneous-metamorphic/ Front Range/ 

Colorado Plateau/ Montrose County/ Mesa County/
Dolores County/ Montezuma County/ drilling/
logging/ data/ analyses/ sandstone/ maps/ Morrison
Formation/ San Miguel County/ 

Beaver Mesa/ Disappointment Valley/ Front Range/
Jo Dandy area/ La Sal Creek area/ Monogram Mesa/
exploration/ drilling/ Ralston Buttes district/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ Jefferson County/ Colorado
Plateau/ sandstone/ igneous-metamorphic/ 

Front Range/ Golden Gate Canyon area/ Uravan
district/ exploration/ drilling/ Colorado Plateau/
Jefferson County/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ sandstone/
igneous-metamorphic/ Ralston Buttes district/

Colorado Plateau/ Front Range/ sandstone/ geologic
mapping/ veins/ carbonaceous rocks/ geochemistry/
reconnaissance/ analyses/ igneous-metamorphic/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Fremont
County/ Jefferson County/ 

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Colorado Plateau/ Front Range/ veins/ geologic
mapping/ mineralogy/ petrology/ geophysics/
carbonaceous rocks/ analyses/ sandstone/ San
Miguel County/ Dolores County/ Montezuma County/
Montezuma County/ Jefferson County/ Mesa County/
igneous-metamorphic/ 

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Colorado Plateau/ mapping/ geology/ geophysics/
mineralogy/ vanadium/ carbonaceous rocks/ petrology/
San Miguel County/ sandstone/ igneous-metamorphic/
Dolores County/ Montrose County/ Montezuma County/
Jefferson County/ Front Range/ Mesa County/
Fremont County/ 

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Colorado Plateau/ Front Range/ geology/ geophysics/
mineralogy/ research/ sandstone/ San Miguel
County/ igneous-metamorphic/ Dolores County/
Montrose County/ Mesa County/ Montezuma County/
Jefferson County/ Fremont County/
MESA COUNTY

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Drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/

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Colorado Plateau/ Front Range/ geology/ geophysics/ geochemistry/ geophysics/ thorian/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/

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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/

Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ igneous-metamorphic/

Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/

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Colorado Plateau/ geologic mapping/ geophysics/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

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Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Maps/ drilling/ exploration/ sandstone/ Outlaw Mesa area/ Gateway district/ Mesa County/ Colorado Plateau/

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Map/ aeromagnetics/ Colorado Plateau/ sandstone/ Utah/ Colorado/ Arizona/ San Miguel County/ Montrose County/ Mesa County/

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Ore deposits/ Jurassic/ Morrison Formation/

clay studies/ Calamity Mesa/ Mesa County/ Montrose County/ mineralogy/ petrology/ geochemistry/ clay (red and gray)/ sandstone/ Colorado Plateau/ Bitter Creek district/

Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ rosoelite/ mineralogy/ Uravan district/ Chiricahua Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/

Weeks, A. D., 1953
Mineralogy/ petrology/ geochemistry/ Cretaceous/ claystone/ siltstone/ Colorado Plateau/ clay studies/ Utah/ Jurassic/ Dolores Group/ Dry Creek anticline/ sandstone/ Mesa County/ Montrose County/ Unaweep/ Escalante Forks/

Weeks, A. D., 1956
Uravan district/ ore deposits/ mineralogy/ sandstone/ Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Weeks, A. D., and Thompson, M. E., 1954
Colorado Plateau/ ore deposits/ uranium/ vanadium/ minerals/ mineralogy/ identification/ x-ray data/ Mesa County/ analyses/ Montrose County/ San Miguel County/ Dolores County/ sandstone/

Weeks, A. D., and Truesdell, A. H., 1957
Uravan district/ sandstone/ Colorado Plateau/ mineralogy/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/

Montroseite/ Montrose County/ Bitter Creek mine/ Jo Dandy mine/ Matchless mine/ Mesa County/ Colorado Plateau/ vanadium/ mineral properties/ geochemistry/ x-ray analyses/ sandstone/

Montroseite/ Montrose County/ Jo Dandy mine/ Matchless mine/ Mesa County/ Bitter Creek mine/ Colorado Plateau/ vanadium/ mineral properties/ sandstone/ geochemistry/ x-ray analyses/

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Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

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Colorado Plateau/ sandstone/ carnotite/ ore guides/ exploration/ ore deposits/ Morrison Formation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geology/

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Colorado Plateau/ ore guides/ exploration/ carnotite/ ore deposits/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/
MESA COUNTY

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MINERAL COUNTY

Dolores County/geology/

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Colorado/Utah/Moab quadrangle/or deposits/uranium/maps/San Miguel County/Montrose County/Mesa County/Delta County/Ouray County/geology/structure/sandstone/

uranium/sandstone/or deposits/Colorado Plateau/Uranian district/Dolores County/San Miguel County/Montrose County/Mesa County/

Uranian district/or deposits/sandstone/uranium/Colorado Plateau/Dolores County/San Miguel County/Montrose County/Mesa County/

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Colorado Plateau/or deposits/or controls/ lithology/sandstone/genesis/Moffat County/Dolores County/Rio Blanco County/Garfield County/Mesa County/Delta County/Montrose County/San Miguel County/La Plata County/Archuleta County/

MOFFAT COUNTY

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Pagosa Springs/Mineral County/Blanco Basin/West Fork/igneous-metamorphic/

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County/ San Miguel County/ Dolores County/
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shale/ Moffat County/ Garfield County/ Mesa County/
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Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
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County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/

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County/ Summit County/ Eagle County/ Rio Blanco
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Colorado Plateau/ ore deposits/ sediments/ sandstone/ stratigraphy/ Dakota Group/ Morrison Formation/ structure/ topography/ geologic history/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ geology/ reconnaissance/ Colorado Plateau/

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Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnititrc/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chinle Formation/ Dolores County/ experimental studies/ Salt Wash Member/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953
Colorado Plateau/ ore deposits/ experimental studies/ sandstone/ fluvial sediments/ field observations/ heavy minerals/ Shinarump Member/ Morrison Formation/ Dakota Sandstone/ geology/ sedimentation/ ground water/ stratigraphy/ Mesa
Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Baltz, E. H., Jr., 1955
Colorado/ Queen County/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/

Chenoweth, W. L., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/

Montezuma County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chinle Formation/

Colorado/ Arizona/ New Mexico/ Utah/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Chenoweth, W. L., 1957
Montezuma County/ San Juan basin/ New Mexico/ Colorado/ heavy minerals/ titanium/ radioactivity/ ore deposits/ paloe-placers/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ sandstone/ stratigraphy/

Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Montezuma County/ Montrose County/

Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/

Chenoweth, W. L., and Stehle, F. T., 1957
New Mexico/ Colorado/ ore deposits/ uranium/ stratigraphy/ aerial prospecting/ reconnaissance/ igneous-metamorphic/ topography/ natural radioactivity/ San Juan basin/ sandstone/ Montezuma County/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/

Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/ Page district/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
MONTEZUMA COUNTY

stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/

Eastman, H. P., 1953
detrinitus/ river channels/ sphericity/ simulation/ transportation/ Shinarump Member/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/

Ekren, E. B., 1949
geology/ ore deposits/ La Plata district/ economic geology/ production/ Montezuma County/ La Plata County/ igneous-metamorphic/ sandstone/

Ekren, E. B., 1955
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ Montezuma County/ sandstone/ Salt Wash Member/ Entrada Sandstone/ igneous-metamorphic/ uranium/ vanadium/ Sentinel Peak NW quadrangle/ geology/ map/ ore deposits/ Morrison Formation/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ ore deposits/ porphyry/ petrology/ sandstone/ volcanics/ igneous-metamorphic/ uranium/ vanadium/ stratigraphy/ conglomerate/ Entrada Sandstone/ Colorado Plateau/ Montezuma County/

Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ Montezuma County/ stratigraphy/ structure/ ore deposits/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/ geology/ Paradox basin/

Ekren, E. B., and Houser, F. N., 1959
Morrison Formation/ Salt Wash Member/ Montezuma County/ Ute Mountains/ sandstone/ Colorado Plateau/ uranium/ vanadium/ Sentinel Peak NE quadrangle/ map/ geology/

710
Ekren, E. B., and Houser, F. N., 1959
Ute Mountains/ Montezuma County/ sandstone/ Morrison Formation/ Salt Wash Member/ Entreda Sandstone/ Colorado Plateau/ igneous-metamorphic/ uranium/ vanadium/ Sentinel Peak NW quadrangle/ map/ geology/

Ekren, E. B., and Houser, F. N., 1959
Junction Creek Sandstone/ Morrison Formation/ Entreda Sandstone/ Montezuma County/ Ute Mountains/ sandstone/ Colorado Plateau/ uranium/ vanadium/ Moqui SE quadrangle/ map/ geology/ Salt Wash Member/

Ekren, E. B., and Houser, F. N., 1959
Morrison Formation/ Salt Wash Member/ Montezuma County/ Ute Mountains/ sandstone/ Colorado Plateau/ uranium/ vanadium/ Cortez SW quadrangle/ map/ geology/

Ekren, E. B., and Houser, F. N., 1959
Stratigraphy/ Cretaceous/ Jurassic/ sandstone/ conglomerate/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan basin/

Ekren, E. B., and Houser, F. N., 1965
Geology/ petrology/ Utah Mountains/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ vanadium/ economic geology/ Salt Wash Member/ Entreda Sandstone/ igneous-metamorphic/ ore deposits/

Sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/

Everhart, D. L., 1951
Geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnitite/ Morrison Formation/ Entreda Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadium Shield/

Fassett, J. E., and Hinds, J. S., 1971
Geology/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/

Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/

Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Rout County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fischer, R. P., 1937
Copper/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/

Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chinch Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/

Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/ supergene processes/ ore deposits/ sandstone/ configuration/ distribution/ uranium/ Arizona/ mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/ Rio Blanco County/
Foster, M. D., 1959
Colorado Plateau/ore deposits/mineralogy/geochemistry/clay mineralogy/uranium/vanadium/sandstone/Moffat County/Rio Blanco County/Garfield County/ Mesa County/Delta County/San Miguel County/Montrose County/Dolores County/Montezuma County/La Plata County/Archuleta County/

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ore deposits/mineralogy/geochemistry/sandstone/ground water/clay/mudstone/organics/Peanut mine/J. J. mine/Montrose County/Rifle mine/Garfield mine/Moffat County/Rio Blanco County/Mesa County/Delta County/San Miguel County/Dolores County/La Plata County/Montezuma County/Archuleta County/

Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
genus/Chinle Formation/ore deposits/

Gruner, J. W., 1951
Shinarump Member/Morrison Formation/Colorado Plateau/conglomerate/sandstone/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/Utah/pitchblende/genesis/Chinle Formation/ore deposits/

Gruner, J. W., 1953
Colorado Plateau/ore deposits/syngenetic processes/hydrothermal processes/ground water/genesis/Shinarump Member/conglomerate/Morrison Formation/sandstone/conglomerate/mudstone/limestone/Todillo Limestone/Mesa County/Montrose County/Dolores County/San Miguel County/Montezuma County/Chinle Formation/

Gruner, J. W., 1953
Colorado Plateau/ore deposits/intrusives/ore sources/sandstone/Mesa County/Dolores County/Montrose County/San Miguel County/extrusives/Montezuma County/ground water/igneous-metamorphic/

Gruner, J. W., 1956
uranium concentration/sediments/geochemistry/Colorado Plateau/sandstone/Mesa County/genesis/Montrose County/San Miguel County/Dolores County/Montezuma County/multiple migration-accretion/

Gruner, J. W., 1956
uranium concentration/sediments/geochemistry/sandstone/genesis/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/multiple migration-accretion/Colorado Plateau/

Hackman, R. J., 1952
Montezuma County/photogeologic map/Aneth-1 quadrangle/Colorado/Utah/sandstone/Morrison Formation/Salt Wash Member/uranium/carnotite/Colorado Plateau/

Hackman, R. J., 1952
Montezuma County/photogeologic map/Verdure-16 quadrangle/Colorado/Utah/sandstone/carnotite/Colorado Plateau/

Hackman, R. J., 1952
Dolores County/Montezuma County/photogeologic map/Verdure-9 quadrangle/Colorado/Utah/sandstone/Colorado Plateau/carnotite/

Hackman, R. J., 1955
Colorado/Utah/sandstone/Morrison Formation/Salt Wash Member/Montezuma County/photogeologic map/Aneth-8 quadrangle/Colorado Plateau/carnotite/

Hackman, R. J., 1955
Montezuma County/photogeologic map/Aneth-1 quadrangle/Colorado/Utah/sandstone/Morrison Formation/Salt Wash Member/uranium/Colorado Plateau/carnotite/

Hackman, R. J., 1959
Dolores County/Montezuma County/photogeologic map/Blackhawk quadrangle/Colorado/Pitch Lake/carnotite/

Hali, C. R., 1976
alkaline igneous rocks/igneous-metamorphic/Gilpin County/Front Range/bibliography/San Juan County/Custer County/Fremont County/La Plata County/Montezuma County/Gunnison County/Saguache County/EI Paso County/Rio Grande County/Jefferson County/Larimer County/Boulder County/Colorado Plateau/Clear Creek County/Teller County/

Colorado/Utah/geology/structure/ore deposits/uranium/Cortez quadrangle/map/host formations/sandstone/San Miguel County/Dolores County/La Plata County/Colorado Plateau/stratigraphy/Montezuma County/

minerals/resources/ore deposits/Colorado/New Mexico/Montezuma County/sandstone/Colorado Plateau/Ute Mountain Indian Reservation/

Hess, F. L., 1914
genesis/carnotite/Colorado/uranium/vanadium/Rio Blanco County/Eagle County/geology/San Miguel County/Montrose County/Moffat County/Routt County/Garfield County/Mesa County/
Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Moffat County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Hess, F. L., 1925
carnotite/ vanoxide/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/

Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/

Hoover, W. B., 1950
Glen Canyon Formation/ San Rafael Formation/ correlation/ sandstone/ La Plata County/ Jurassic Formations/ stratigraphy/ Utah/ Colorado/ Arizona/ New Mexico/ San Juan basin/ Archuleta County/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/

Houser, F. N., and Ekren, E. B., 1959
Montezuma County/ Colorado Plateau/ Moqui SW quadrangle/ Ute Mountains/ Morrison Formation/ sandstone/ uranium/ vanadium/ map/ geology/ Salt Wash Member/

Houser, F. N., and Ekren, E. B., 1959
Ute Mountains/ Montezuma County/ Dolores County/ sandstone/ Cretaceous strata/ Colorado Plateau/ Dakota Sandstone/

Houston, R. S., and Murphy, J. F., 1977
Colorado Plateau/ Montezuma County/ San Juan basin/ sandstone/ Cretaceous/ black sandstones/ stratigraphy/ structure/ mineralogy/ placer deposits/ heavy minerals/ monazite/ zircon/ ilmenite/ depositional environment/

Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash-Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954
uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnotite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egner district/ ore deposits/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ igneous-metamorphic coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ igneous-metamorphic coal/ shale/ Moab County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/
MONTEZUMA COUNTY

San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Las Animas County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/ Montrose County/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Delta County/ structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kellogg, J. P., 1952
Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tendertoe Mesa/

Kellogg, J. P., 1954
drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/

Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/

Koeberlin, F. R., 1938
Copper/ vanadium/ uranium/ silver/ Colorado/ Utah/ genesis/ ore deposits/ discussion/ Montrose County/ Colorado Plateau/ Mesa County/ Montezuma County/ San Miguel County/ Dolores County/ sandstone/

Langan, L. V., and Ash, H. O., 1955
Colorado Plateau/ ore deposits/ uranium/ field trip/ New Mexico/ Utah/ Colorado/ stratigraphy/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ Montezuma County/ Montrose County/ San Miguel County/

Larsen, E. S., and Cross, C. W., 1956
gold/ geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grand County/

Leaming, G. F., 1971
economic development/ Arizona/ economic analysis/ New Mexico/ Utah/ Colorado/ economic conditions/ minerals/ mining/ fuels/ industries/ iron/ uranium/ silver/ copper/ titanium/ coal/ natural gas/ oil shale/ sandstone/ ore deposits/ Colorado Plateau/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ 714
hendersonite/ vanadium/ Colorado Plateau/ vanadates/ Paradox Valley/ Montrose County/ Morrison Formation/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ crystallography/ geochemistry/ Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground water/ mineralization/ sandstone/ Jurassic/ syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/ Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/ Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/ Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/ Metzger, O. H., 1944
Colorado/ vanadium/ ore deposits/ stratigraphy/ mineralization/ topography/ geology/ sandstone/ uranium/ McElmo district/ San Juan basin/ Colorado Plateau/ Montezuma County/ Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/ Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1959
chemical composition/ ore guides/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ statistics/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ geology/ Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore guides/ deposit size/ Jurassic/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ uranium/ chemical composition/ Morrison Formation/ Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/ Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Morrison Formation/ Rio Blanco County/ Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Urvan district/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Noble, E. A., 1959
Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Urvan district/ Lisbon valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/ Noble, E. A., 1960
Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Urvan district/ Lisbon valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chine/ Montezuma County/ Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
Olson, J. C., and Adams, J. M., 1962
thorium/rare earths/United States/Colorado/igneous-metamorphic/Gunnison County/Fremont County/Custer County/Larimer County/Gilpin County/Montezuma County/Moffat County/El Paso County/

Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/Texas/Kansas/Arkansas/New Mexico/Arizona/Utah/crude oil/asphaltite/petroleum/helium/natural gas/Las Animas County/Montezuma County/Adams County/radon/uranium/thorium/radium/sandstone/

Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/Texas/Kansas/Arkansas/New Mexico/Arizona/Utah/crude oil/asphaltite/petroleum/helium/natural gas/Las Animas County/Montezuma County/Adams County/radon/uranium/thorium/radium/sandstone/

Pomer, A. M., 1956
oxidation potential/Colorado Plateau/uranium/vanadium/sandstone/Salt Wash Member/Morrison Formation/Utah/Arizona/Colorado/New Mexico/Montrose County/Mesa County/Dolores County/Montezuma County/Jo Dandy area/or deposits/genesis/Woody material/San Miguel County/

Poole, F. G., and Williams, G. A., 1956
sediments/Colorado Plateau/or guides/uranium/vanadium/sandstone/transportation direction/Morrison Formation/transportation direction/Chinle Formation/Montrose County/Entrada Sandstone/Mesa County/Delta County/Triassic/San Miguel County/Dolores County/Montezuma County/La Plata County/

Poole, F. G., and Williams, G. A., 1956
or guides/exploration/uranium/vanadium/sandstone/conglomerate/Morrison Formation/transportation direction/Chinle Formation/Montrose County/Entrada Sandstone/Sediments/Mesa County/Delta County/Montrose County/Dolores County/Montezuma County/La Plata County/Triassic/Colorado Plateau/San Miguel County/

Reinhardt, E. V., 1952
Colorado Plateau/or deposits/or guides/uranium/vanadium/copper/hydrocarbons/limestone/sandstone/Morrison Formation/Salt Wash Member/Entrada Sandstone/Shinarump Member/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/

Rucknwick, J. C., 1955
heavy minerals/simulation/or deposits/placers/gravels/sandstone/Mesa County/Montrose County/Dolores County/Montezuma County/samarskite/Shinarump Member/conglomerate/Colorado Plateau/fluvial deposits/San Miguel County/

Schultz, L. G., 1963
clay minerals/Moenkopi Formation/Chinle Formation/x-ray diffraction/Ouray County/Rio Blanco County/Garfield County/Mesa County/Delta County/Montrose County/San Miguel County/Dolores County/Montezuma County/Colorado Plateau/sandstone/La Plata County/

Scott, R. C., and Barker, F. B., 1961
ground water/radium/La Plata County/Cheyenne County/Kiowa County/Lincoln County/Crawley County/Otero County/Bent County/Prowers County/Las Animas County/Baca County/Montezuma County/Archuleta County/Colorado Plateau/

Scott, R. C., and Barker, F. B., 1962
data/uranium/ground water/analyses/Logan County/Phillips County/Prowers County/Yuma County/Jefferson County/Garfield County/Kit Carson County/Pitkin County/Mesa County/Huerfano County/Baca County/Montezuma County/Front Range/Colorado Plateau/

Shoemaker, E. M., 1954
Utah/Colorado/New Mexico/Arizona/Colorado Plateau/structural features/Uncompahgre uplift/structural features/Colorado Plateau/Dolores County/Montezuma County/United States/Utah/Arizona/Colorado Plateau/structural features/Colorado Plateau/Las Animas County/Rio Blanco County/La Plata County/uranium/Garfield County/Mesa County/Delta County/Montrose County/Aspen County/San Miguel County/San Juan County/Ouray County/sandstone/Montezuma County/Dolores County/Archuleta County/

Colorado Plateau/map/uranium/or deposits/sandstone/Moffat County/Rio Blanco County/La Plata County/uranium/Garfield County/Mesa County/Delta County/Montrose County/San Miguel County/Dolores County/Ouray County/Montezuma County/La Plata County/Garfield County/

Shoemaker, E. M., and Newman, W. L., 1953
Montezuma County/La Plata County/Ute Mountains/laccolith stratigraphy/Colorado Plateau/igneous-metamorphic/valleys/Montezuma County/La Plata County/

Stokes, W. L., 1944
Morrison Formation/Colorado Plateau/sandstone/stratigraphy/correlation/Garfield County/Mesa County/Delta County/Gunnison County/Montrose County/Ouray County/Dolores County/Hinsdale County/Archuleta County/Montezuma County/La Plata County/or deposits/San Juan County/

Tavelli, J. A., 1951
Colorado Plateau/sandstone/airborne radiometrics/San Miguel County/Montrose County/Dolores County/Montezuma County/New Mexico/Arizona/Utah/elevation/instrumentation/Mesa County/

sandstone/district studies/uranium/resources/La Plata County/Archuleta County/San Juan basin/stratigraphy/Montezuma County/Colorado Plateau/

Tom, C. W., 1966
Verdure quadrangle/Utah/San Miguel County/Dolores County/Montezuma County/Colorado Plateau/sandstone/or deposits/economic map/resources/
U.S. Atomic Energy Commission, 1966
airborne reconnaissance/ Arkansas/ Colorado/ Montana/ Texas/ Utah/ Colorado Plateau/ Montezuma County/ Moffat County/ San Miguel County/ sandstone/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Montezuma County/ reconnaissance/ ore deposits/ Colorado Plateau/ sandstone/

Colorado Plateau/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ drilling/ logging/ data/ analyses/ sandstone/ maps/ Morrison Formation/ San Miguel County/

Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ igneous-metamorphic/ San Miguel County/ Dolores County/ Montrose County/ Jefferson County/ Montezuma County/ Mesa County/

U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/

Umbach, P. H., 1952
exploration/ Colorado Plateau/ sandstone/ uranium/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

MONTROSE COUNTY
Cimarron Creek/ San Juan Mountains/ Montrose County/ ground water studies/ nonsaline waters/ water analyses/ ion exchange/

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/

Alvorl, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/ Montrose County/ Morrison Formation/ uranium/ vanadium/ San Miguel Bench/

Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/ San Miguel Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/

Alvord, D. C., 1953
Spring Creek Mesa/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Montrose County/ Morrison Formation/ Salt Wash Member/ San Miguel Bench/

Alvord, D. C., 1955
Montrose County/ San Miguel Bench/ exploration guides/ minerals/ carnitite/ sandstone/ Salt Wash Member/ Morrison Formation/ Colorado Plateau/ ore deposits/ ore guides/ geology/ uranium/ vanadium/ drilling/ reserves/ resources/

Anonymous, 1913
carnitite/ Long Park/ Montrose County/ Colorado Plateau/ Huerfano County/ sandstone/ San Juan region/

Anonymous, 1951
Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ vanadium/ sandstone/

Archbold, N. L., 1955
lithology/ vanadium/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ calcium carbonate/
Archbold, N. L., 1956
uranium/ vanadium/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ ore deposits/ lithology/ San Miguel County/

Archbold, N. L., 1958
carbonate cement/ lithology/ vanadium/uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uruvan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper Group/

Archbold, N. L., 1959
carbonate cement/ lithology/ vanadium/uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uruvan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper group/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ sediments/ sandstone/ stratigraphy/ Dakota Group/ Morrison Formation/ structure/ topography/ geologic history/ Mesa County/ Montrose County/ San Miguel County/ geology/ Montezuma County/ reconnaissance/ Colorado Plateau/ Dolores County/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnitite/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chinle Formation/ Dolores County/ experimental studies/ Salt Wash Member/

Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/ genesis/ Colorado/ general/ Mesa County/ Delta County/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ Archuleta County/ Garfield County/ La Plata County/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953
Colorado Plateau/ ore deposits/ experimental studies/ sandstone/ fluvial sediments/ field observations/ heavy minerals/ Shinarump Member/ Morrison Formation/ Dakota Sandstone/ geology/ sedimentation/ ground water/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chinle Formation/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/

Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/

Baltz, E. H., Jr., 1957
stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/

Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/

Bethke, P. M., 1953
uranium salts/ Colorado Plateau/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ ground water/ Morrison Formation/ Salt Wash Member/ uraninite/ carnitite/

Bieber, P. P., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park/ Montrose County/

Bieber, P. P., and Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Black, R. A., 1953
Colorado Plateau/ geophysics/ mining districts/ logging/ Spud Patch area/ San Miguel County/ sandstone/ Long Park area/ Montrose County/ Morrison Formation/ ore deposits/

Black, R. A., 1953
Colorado Plateau/ reserves/ geophysics/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Gramlich group/ Paradox district/ Montrose County/

Black, R. A., 1954
Colorado Plateau/ geophysics/ mining districts/ Long Park area/ Montrose County/ electrical logging/ ore deposits/ sandstone/

Boardman, R. L., 1954
Guadalcanal mine/ Colorado Plateau/ reserves/ exploration/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Boardman, R. L., 1954
King Solomon #5 claim/ U.S. Vanadium Co. property/ reserves/ Golden Cycle mine/ Colorado Plateau/
Montrose County

exploration/ sandstone/ ore deposits/ uranium/ Morrison Formation/ vanadium/ Salt Wash Member/ Atkinson Mesa/ Dolores Bench/ Montrose County/

Boardman, R. L., 1955
Uravan district/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ exploration/ drilling/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ ore deposits/

Boardman, R. L., 1955
Uravan district/ ore deposits/ sedimentary structures/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ appraisal/ drilling/ Long Park/ uranium/ vanadium/ Colorado Plateau/ Uravan project/

Boardman, R. L., 1956
Long Park/ Third Park/ Second Park Bench/ Uravan district/ Montrose County/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Boardman, R. L., 1957
Uravan district/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ Montrose County/ Mesa County/ stratigraphy/ structure/ sandstone/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ exploration/ drilling/

Boardman, R. L., Bowers, H. E., Litsey, L. R., and others, 1955
Colorado Plateau/ drilling/ Third Park/ Second Park Bench/ exploration/ uranium/ vanadium/ Long Park/ Uravan district/ Montrose County/ sandstone/ geology/ stratigraphy/ Morrison Formation/ Salt Wash Member/ structure/ mineralogy/ ore guides/ reserves/ uraninite/ coffinite/ carnitite/

Boardman, R. L., Ekren, E. B., and Bowers, H. E., 1956
Sedimentary features/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/ Uravan district/ Montrose County/ Colorado Plateau/ geology/ Jurassic/

Boardman, R. L., Litsey, L. R., and Bowers, H. E., 1957
Montrose County/ Club Mesa area/ Uravan district/ vanadium/ exploration/ sandstone/ Morrison Formation/ La Salle mine/ Salt Wash Member/ Club group mines/ Tramp No. 2 mine/ uranium/ Bunker mines/ ore deposits/ Colorado Plateau/

Montrose County/ Club Mesa area/ Uravan district/ uranium/ vanadium/ exploration/ Morrison Formation/ La Salle mine/ Salt Wash Member/ sandstone/ Club group mines/ Tramp No. 2 mine/ Bunker mines/ ore deposits/ Colorado Plateau/

Botinelly, Theodore, 1955
Peanut mine/ J. J. mine/ Jo Dandy group/ uranium/ vanadium/ geology/ mineralogy/ Montrose County/ sandstone/ carnitite/ Colorado Plateau/ Bull Canyon district/ ore deposits/ Morrison Formation/ Salt Wash Member/

Botinelly, Theodore, 1955
J. J. mine/ Jo Dandy group/ Bull Canyon district/ geology/ mineralogy/ Montrose County/ sandstone/ carnitite/ uranium/ vanadium/ ore deposits/ Rifle mine/ Garfield County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/

Botinelly, Theodore, 1956
Colorado Plateau/ ore deposits/ Jurassic/ Salt Wash Member/ Morrison Formation/ sandstone/ Montrose County/ geology/ mineralogy/ carnitite/ uranium/ uraninite/ vanadium/

Botinelly, Theodore, and Weeks, A. D., 1954
Jo Dandy area/ Montrose County/ sandstone/ mineralogic/ clays/ Peanut mine/ Colorado Plateau/

Botinelly, Theodore, and Weeks, A. D., 1954
mineralogy/ ore deposits/ minerals/ Colorado Plateau/ sandstone/ Montrose County/ Jo Dandy area/ Rifle mine/ Garfield County/ clay minerals/

Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/ Mesa County/ Montrose County/ minerals/ Dolores County/ San Miguel County/ ore deposits/ mineralogic classification/

Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/ uranium/ vanadium/ composition/ oxidation/ mineralogy/ sandstone/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/

Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/ petrology/ ore deposits/ vanadium/ Uravan/ Montrose County/ sandstone/ Long Park/ La Salle Creek/ Mesa County/ Utah/ Arizona/ uranium/

Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ vanadium/ Montrose County/

Bowers, H. E., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ vanadium/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/

Bowers, H. E., 1955
Guadalcanal claims/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/
MONTROSE COUNTY

San Miguel County/ Montrose County/ Mesa County/ ore deposits/

Brasher, G. K., and Douglas, R. F., 1952
Colorado Plateau/ Gramlich group/ Paradox district/ drilling/ exploration/ sandstone/ ore deposits/ reserves/ Montrose County/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/

Breger, I. A., and Chandler, J. C., 1959
humic substances/ coal/ geochemistry/ geothermometry/ Colorado Plateau/ sediments/ sandstone/ analyses/ Colorado/ coalified logs/ Morrison Formation/ Montrose County/

Breger, I. A., and Chandler, J. C., 1960
geochemistry/ humic substances/ coal/ coalified logs/ Colorado/ Colorado Plateau/ Morrison Formation/ analyses/ geothermometry/ sandstone/

Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/ coal/ uraninite/ uranyl ion/ geochemistry/ reduction/ Colorado Plateau/ Front Range/ sandstone/ carbonaceous substances/

Brew, D. A., 1953
drilling/ exploration/ Colorado Plateau/ ore deposits/ American Eagle group/ Gypsum Valley district/ Montrose County/ sandstone/ Morrison Formation/ reserves/ Salt Wash Member/ Mary Jane claims/ uranium/ vanadium/

Brew, D. A., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/ Atkinson Mesa/ Montrose County/ Morrison Formation/ uranium/ vanadium/

Brew, D. A., 1953
U.S. Vanadium Co. property/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ Atkinson Mesa area/ Montrose County/ exploration/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Brew, D. A., 1954
exploration/ ore deposits/ Colorado Plateau/ ore guides/ Montrose County/ Atkinson Mesa area/ minerals/ carnitite/ coffinite/ corvusite/ montrosite/ sandstone/ vanadium/ Morrison Formation/ Salt Wash Member/ drilling/ uranium/

Bryner, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores County/ history/ San Miguel County/ Montrose County/ Mesa County/

Bryner, Leonid, 1950
Colorado Plateau/ geology/ ore deposits/ uranium/ vanadium/ Club Mesa area/ minerals/ carnitite/ Uravan district/ Montrose County/ exploration/ drilling/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, 1952
uranium/ vanadium/ geology/ stratigraphy/ ore deposits/ Club Mesa/ Montrose County/ exploration/ drilling/ Colorado Plateau/ carnitite/ Buckshot claim/ Club mines/ Shamrock mines/ Tramp mines/
Montrose County

ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnitite/ uranium/ vanadium/ igneous-metamorphic/ uranium/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactivity/ thorium/ thorite/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Byerly, P. E., and Joesting, H. R., 1958
geophysical investigations/ Lisbon Valley area/ Utah/ Colorado/ Paradox Basin/ stratigraphy/ salt anticlines/ Montrose County/ geophysics/ Colorado Plateau/ sandstone/

Byerly, P. E., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/ geophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetics/ sandstone/ geophysics/ Montrose County/

Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Toadillo Limestone/ Chiricahua Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/

Cadigan, R. A., 1956
lithology/ Colorado Plateau/ petrology/ sediments/ Morrison Formation/ sandstone/ Montrose County/ ore deposits/ San Miguel County/ geochemistry/

Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montezuma County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/

Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ Indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/

Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ Indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/

Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ Indicator plants/

Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ Indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/

Carter, W. D., 1953
Colorado Plateau/ reserves/ drilling/ exploration/ vanadium/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/ La Sal Creek area/ Paradox district/ Colorado/ Utah/ geology/

Carter, W. D., 1955
La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/ Colorado Plateau/ sandstone/ ore deposits/ exploration/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Carter, W. D., 1956
Colorado/ Utah/ Cretaceous/ sandstone/ disconformity/ Dakota Sandstone/ Montrose County/ Colorado Plateau/ Burro Canyon Member/ stratigraphy/

Carter, W. D., 1956
Burro Canyon Member/ Mount Peale No. 1 quadrangle/ Colorado/ Utah/ sandstone/ Montrose County/ stratigraphy/ ore deposits/ geology/ Colorado Plateau/ Dakota Sandstone/

Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/
Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/

Carter, W. D., and Gualtieri, J. L., 1956
Montrose County/ Colorado/ Utah/ La Sal Creek area/ Morrison Formation/ sandstone/ Salt Wash Member/ drilling/ ore deposits/ Colorado Plateau/ Paradox district/

Carter, W. D., and Gualtieri, J. L., 1957
Colorado Plateau/ La Sal Creek area/ Paradox district/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado/ Utah/ drilling/ stratigraphy/ structure/ Montrose County/ ore deposits/

Carter, W. D., and Gualtieri, J. L., 1957
Mount Peale 1 SE quadrangle/ geology/ map/ Montrose County/ Colorado/ Utah/ sandstone/ uranium/ Colorado Plateau/

Carter, W. D., and Gualtieri, J. L., 1956
Colorado/ Utah/ La Sal quadrangle/ ore deposits/ areal geology/ Montrose County/ vanadium/ uranium/ sandstone/ Colorado Plateau/ Morrison Formation/ geology/

Carter, W. D., and Gualtieri, J. L., 1957
maps/ drilling/ exploration/ La Sal Creek area/ Montrose County/ Colorado/ Utah/ sandstone/ Paradox district/ Colorado Plateau/

Carter, W. D., Gualtieri, J. L., and Hedlund, D. C., 1954
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/

Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Paradox district/ Montrose County/ Colorado/ Utah/ La Sal Creek area/

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maps/ Colorado Plateau/ Veta Mad mine/
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Montrose County

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thermodynamics/ uranium oxides/ oxidation states/ Colorado Plateau/ ore deposits/ San Miguel County/ genesis/ sandstone/ Montrose County/ Garfield County/ Mesa County/

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Mineral Joe No. 1 mine/ mineralogy/ minerals/ oxidation/ ore deposits/ Colorado Plateau/ vanadium/ geochemistry/ uranium/ Montrose County/ sandstone/ Virgin No. 3 mine/ carnottite/ Long Park area/ Jo Dandy area/

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minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnottite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/

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resources/ sandstone/ Uravan district/ Morrison Formation/ Mesa County/ Montrose County/ Gateway district/ Gypsum Valley district/ Slick Rock district/ Colorado Plateau/ Salt Wash Member/ Dolores County/ San Miguel County/

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ore deposits/ ore distribution/ Colorado Plateau/ sandstone/ Morrison Formation/ Salt Wash Member/ Bull Canyon district/ Gypsum Valley district/ Slick Rock district/ San Miguel County/ Montrose County/

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reconnaissance/ radioactive materials/ sandstone/ copper/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/ uranium/ Montrose County/ Sandstone/ Cashin mine/ Montrose County/

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Colorado Plateau/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/ reconnaissance/ Montrose County/ Cashin mine/ sandstone/ ore deposits/ fault breccia/ igneous-metamorphic/ uranium/ copper/ exploration/ bituminous substances/ asphaltite/ Shinarump Member/ Wingate Sandstone/ conglomerate/

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ore deposits/ exploration/ copper/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/ reconnaissance/ bituminous substances/ Cashin mine/ Montrose County/ sandstone/ uranium/ asphaltite/ Shinarump Member/ Wingate Sandstone/ conglomerate/ fault breccia/ Colorado Plateau/

Griffiths, J. C., 1952
sampling/ collection/ Salt Wash Member/ Colorado/ Utah/ Colorado Plateau/ Jurassic/ clays/ Bull Canyon district/ sandstone/ Montrose County/ San Miguel County/ Polar Mesa/ Blue Mesa/ Paradox Valley/ sediments/ Morrison Formation/

Griffiths, J. C., 1954
Colorado Plateau/ ore deposits/ exploration/ sediments/ sandstone/ mudstone/ Montrose County/ San Miguel County/ Salt Wash Member/ Morrison Formation/ Jurassic/ quantitative analysis/

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Morrison Formation/ Salt Wash Member/ sediments/ sandstone/ textures/ grain size/ mudstone/ Jurassic/ Colorado/ Utah/ Colorado Plateau/ Bull Canyon district/ uranium/ vanadium/ Entrada Sandstone/ Arizona/ grain fabric/ Montrose County/ Shinarump Member/ petrography/ San Miguel County/

Griffiths, J. C., 1957
Salt Wash Member/ sandstone/ mudstone/ Morrison Formation/ Jurassic/ Bull Canyon District/ Monogram Mesa/ San Miguel County/ Colorado/ Utah/ Arizona/ Plateau/ statistics/ petrography/ ore guides/ exploration/ sand grain studies/ ore deposits/ Montrose County/ Colorado Plateau/

lithology/ analyses/ Salt Wash Member/ Jurassic/ sandstone/ mudstone/ cores/ uranium/ vanadium/ limonite/ Montrose County/ San Miguel County/ spectrometry/ Bull Canyon district/ Morrison Formation/ Colorado Plateau/

Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ Montrose County/ San Miguel County/ thin sections/ Colorado/ Utah/ limonite/ Colorado Plateau/ Bull Canyon district/ petrography/

Salt Wash Member/ sediments/ Morrison Formation/
Jurassic/ grain size/ grain shape/ sandstone/ Utah/ Colorado/ Arizona/ Montrose County/ San Miguel County/ statistics/ grain orientation/ Colorado Plateau/ Bull Canyon district/ quartz/ lithology/

Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ matrix/ clay/ Colorado Plateau/ Monogram Mesa/ Utah/ Arizona/ Montrose County/ San Miguel County/ petrography/ sediments/ clay pebbles/ grain packing/ statistics/ Bull Canyon district/

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Shinarump Member/ Morrison Formation/ Colorado Plateau/ conglomerate/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Utah/ pitchblende/ genesis/ Chinle Formation/ ore deposits/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ shale/ sandstone/ siltstone/ clays/ Morrison Formation/ Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi Formation/ Shinarump Member/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ asphaltite/ uraninite/ copper/ Chinle Formation/ mineralization/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ Todilto Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chinle Formation/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ Intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ igneous-metamorphic/

Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/ Utah/ Colorado/ sandstone/ siltstone/ conglomerate/ limestone/ uranium/ vanadium/ New Mexico/ geology/ San Miguel County/ Montrose County/ Mesa County/

Gruner, J. W., 1954
Colorado Plateau/ genesis/ ore deposits/ organic materials/ sandstone/ uranium/ carbon/ San Miguel County/ Montrose County/ Mesa County/

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uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/

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Colorado Plateau/ ore deposits/ mineral assemblages/ Utah/ Colorado/ uranium/ sandstone/ continental-type deposits/ Morrison Formation/ San Miguel County/ Montrose County/ Mesa County/
Hager, Dorsey, 1955
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sandstone/ uranium/ vanadium/ Urvan mineral belt/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau

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Colorado Plateau/ ore deposits/ resources/ exploration/ production/ costs/ sandstone/ uranium/ methods/ mining/ San Miguel County/ Montrose County/ Mesa County

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geochronology/ Black Canyon of the Gunnison/ basement rocks/ Gunnison County/ igneous-metamorphic/ Montrose County

geochronology/ Black Canyon of the Gunnison/ basement rocks/ Gunnison County/ igneous-metamorphic/ Montrose County

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Long Park/ ore deposits/ resources/ geology/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone

Hastings, J. S., 1963
Urvan mineral belt/ Colorado Plateau/ sandstone/ exploration/ Montrose County/ San Miguel County/ Dolores County/ geology/ mining methods

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Colorado Plateau/ ore deposits/ geochemistry/ mudstone/ clay mineralogy/ mixed-layered structures/ vanadium/ Mineral Joe mine/ Montrose County/ San Miguel County/ sandstone

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Colorado Plateau/ botany/ geobotany/ Garfield County/ ore zones/ carnitite/ ore deposits/ Charles T. mine/ geology/ sandstone/ Utah/ selenium/ Little mine/ Lower group mines/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Arizona

Hess, F. L., 1914
geology/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits

Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone
Hess, F. L., 1929
MONTROSE COUNTY
Hess, F. L., 1927
MONTROSE COUNTY
Hess, F. L., 1932
MONTROSE COUNTY
High, T. D., 1973
Montrose County/ uranium/ vanadium/ sandstone/ mines/ reports/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/
High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ mines/ Colorado Plateau/
High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/ drilling/ Dolores County/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/ Rico-Argentine district/
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carnotite/ vanadium/ minerals/ sandstone/ ore deposits/ Colorado Plateau/ Colorado Plateau/ San Miguel County/ analyses/
Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/ carnitite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ Colorado Plateau/
Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1914
San Miguel County/ Montrose County/ Mesa County/ carnitite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ hewettite/ metahewettite/ pascoite/ Colorado Plateau/ hydrous calcium vanadates/
Hillebrand, W. F., Wright, F. E., and Merwin, H. E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/ Utah/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ minerals/ Mesa County/
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Colorado Plateau/ sandstone/ exploration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ drilling/ Morrison Formation/ Uravan district/ Yellow Cat mine/ Monogram Mesa/ Gateway district/
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Colorado Plateau/ sandstone/ exploration/ Mesa County/ San Miguel County/ Dolores County/ drilling/ exploration/ ore deposits/ Morrison Formation/ Salt Wash Member/ Uravan district/ Gateway district/ Gypsum Valley district/ Montrose County/
Holmes, C. N., 1949
geochemistry/ carnitite/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/
Holmes, C. N., 1950
sandstone/ Ithaca uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chilene Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/
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Montrose County/ Mesa County/ copper/ sandstone/
Colorado Copper Company/ Colorado Plateau/
Colorado Plateau/ sandstone/ San Miguel County/ Montrose
Mesa County/ Mesa County/ Montrose County/ sandstone/
Hunt, J. C., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/
Moffat County/ sandstone/ Delta County/ Rio Blanco County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Dolores County/ Big sandstone/ geology/ ore deposits/
Montezuma County/ La Plata County/ Holiday Mesa/
Montezuma County/ La Plata County/ Anchita Mesa/

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structural geology/ igneous geology/ La Sal Mountains/
Utah/ stratigraphy/ genesis/ economic geology/
Mesa County/ Montrose County/ Colorado/ igneous-metamorphic/
Colorado Plateau/

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drilling/ Colorado Plateau/ sandstone/ San Miguel
County/ drilling trends/ ore deposits/ reserves/
Montrose County/ Mesa County/

Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
sandstone/ geology/ ore deposits/ Montrose County/
San Miguel County/ Dolores County/ Big Indian
Wash - Lisbon Valley district/ Mesa County/
stratigraphy/ structure/

Isachsen, E. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
Big Indian Wash - Lisbon Valley district/ sandstone/
geology/ ore deposits/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma County/
stratigraphy/ structure/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954
uranium/ ore deposits/ exploration/ drilling/
Colorador Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/
Montezuma County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/
Entrada Sandstone/ Kayenta Formation/ Garfield
County/ Moffat County/ Rio Blanco County/ San
Miguel County/ Mesa County/ Montrose County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/

Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San
Miguel County/ Colorado Plateau/ history/ Utah/
carnotite/ Montrose County/ Dolores County/
Mesa County/ Montezuma County/ uranium/ McElmo
Formation/

Jensen, M. L., 1957
Colorado Plateau/ ore deposits/ mineralization/
sulfides/ uranium/ sandstone/ sulfur isotopes/
sulfur ratios/ genesis/ San Miguel County/ Montrose
County/ Mesa County/

Jensen, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/
geochemistry/ sulfur isotopes/ sandstone/ uranium/
Montrose County/ San Miguel County/ Garfield
County/ Morrison Formation/ Entrada Sandstone/

Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/
uranium/ ore deposits/ Colorado Plateau/ Wyoming/
San Miguel County/ Montrose County/ Garfield
County/ Mesa County/

Jobin, D. A., 1952
U.S. Vanadium Co. property/ sandstone/ Colorado
Plateau/ reserves/ ore deposits/ Dolores Bench/
Montrose County/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/

Jobin, D. A., 1952
U.S. Vanadium Co. property/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ Dolores Bench/
Montrose County/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/

Jobin, D. A., 1952
Vanadium Corp. of America property/ Colorado
Plateau/ ore deposits/ sandstone/ reserves/
Dolores Bench/ King Solomon claim/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
Montrose County/

Jobin, D. A., 1953
Colorado Plateau/ exploration/ Dolores Bench/ ore deposits/ Montrose County/ sandstone/ geology/
reserves/ Morrison Formation/ Salt Wash Member/
uranium/ vanadium/ Uravan district/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
uranium/ sediments/ sandstone/ ground water/
La Plata County/ Archuleta County/ Moffat County/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores County/
Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/
sandstone/ ground water/ La Plata County/ Archuleta County/
Moffat County/ Rio Blanco County/ Montrose
County/ Garfield County/ Mesa County/ Delta
County/ San Miguel County/ Dolores County/ Montezuma
County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/
transmissivity/ sandstone/ San Miguel County/
ground water/ conglomerate/ Chinle Formation/
Moffat County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/

Joesting, H. R., and Byerly, P. E., 1953 Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/

Joesting, H. R., and Byerly, P. E., 1956
Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ sandstone/ Colorado Plateau/ geology/ Dolores County/ Montrose County/

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Disappointment Valley/ Disappointment syncline/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ Montrose County/ ore deposits/ geophysics/ San Miguel County/

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salt anticlines/ structures/ Paradox basin/ Colorado/ Utah/ ore deposits/ sandstone/ Hermosa Formation/ Paradox Member/ Montrose County/ Mesa County/ San Miguel County/ structural geology/ Colorado Plateau/


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Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
Keller, W. D., 1957
glaucconite/ mica/ Morrison Formation/ Lone Tree Mesa/ Montrose County/ analyses/ sandstone/ Colorado Plateau/

Keller, W. D., 1957
clay/ Jurassic rocks/ Morrison Formation/ sandstone/ mineralogy/ mudstone/ Colorado Plateau/ Montrose County/

Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
Koeberl, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS imagery/
Jefferson County/ Boulder County/ Mesa County/
Montrose County/ San Miguel County/ Colorado
Plateau/ Douglas County/ sandstone/ Front Range/
igneous-metamorphic/

Koeberl, F. R., 1938
copper/ vanadium/ uranium/ silver/ Colorado/
Utah/ genesis/ ore deposits/ discussion/ Montrose
County/ Colorado Plateau/ Mesa County/ Montezuma
County/ San Miguel County/ Dolores County/ sandstone/

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genesis/ surficial origin/ pitchblende/ ore
deposits/ uranium/ igneous-metamorphic/ surface
waters/ sandstone/ Colorado Plateau/ Front Range/
Jefferson County/ Montrose County/ San Miguel
County/

Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front
Range/ veins/ calcrete/ carnottite/ ore deposits/
igneous-metamorphic/ sandstone/ Colorado Plateau/
Jefferson County/ Montrose County/ San Miguel
County/

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geology/ petrology/ San Juan region/ Colorado
Plateau/ igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/

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economic development/ Arizona/ economic analysis/
New Mexico/ Utah/ Colorado/ economic conditions/
minerals/ mining/ fuels/ industries/ iron/ uranium/
silver/ copper/ titanium/ coal/ natural gas/
oil shale/ sandstone/ ore deposits/ Colorado
Plateau/ Montezuma County/ Dolores County/ San
Miguel County/ Montrose County/

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others, 1962
hendersonite/ vanadium/ Colorado Plateau/ vanadates/
Paradox Valley/ Montrose County/ Morrison Formation/
sandstone/ San Miguel County/ Dolores County/
Montezuma County/ crystallography/ geochemistry/

Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/
shale/ carnottite/ roscoelite/ Colorado Plateau/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/ Entrada Sandstone/ La Plata
Sandstone/ McElmo Formation/ genesis/ Glipin
County/ igneous-metamorphic/ ore deposits/ Front
Range/

Litsey, L. R., 1955
Montrose County/ Long Park area/ exploration/
drilling/ uranium/ reserves/ resources/ sandstone/
Morrison Formation/ vanadium/ Colorado Plateau/

Livingston, C. W., 1945
vanadium/ Dolores Plateau area/ geography/ mining/
exploration/ mineralization/ West Paradox district/
Colorado Plateau/ sandstone/ Montrose County/
Gramlich group/ Vanadium Queen claim/ Little
Peter claim/ New Yellow Spot claim/ Radium Cycle
claim/ Valley View claim/ Waggoner group/ ore
deposits/

Madsen, J. W., 1953
Colorado Plateau/ ore deposits/ reserves/ sandstone/
drilling/ exploration/ Rambler group/ Montrose
County/ Morrison Formation/ Salt Wash Member/
uranium/ vanadium/ Gypsum Valley district/

Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground
water/ mineralization/ sandstone/ Jurassic/
syncline/ aquifers/ experimental simulation/
Morrison Formation/ Salt Wash Member/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/

Manger, G. E., 1953
drilling/ coring/ original state core studies/
Montrose County/ Uravan district/ sandstone/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ geology/

Manger, G. E., 1953
drilling/ coring/ original state core studies/
Morrison Formation/ Salt Wash Member/ sandstone/
Colorado Plateau/ Montrose County/ geology/

Manger, G. E., 1954
Uravan district/ ore deposits/ cores/ exploration/
Long Park district/ Montrose County/ sandstone/
carnottite/ spring water/ Henry Clay mine/ Colorado
Plateau/ Morrison Formation/ original state core
studies/

Manger, G. E., 1954
Long Park district/ sandstone/ carnottite/ coring/
original state core studies/ drilling/ Montrose
County/ Morrison Formation/ Salt Wash Member/
Colorado Plateau/

Manger, G. E., 1955
cores/ drilling/ original state core studies/
Bitter Creek mines/ Montrose County/ sandstone/
Colorado Plateau/ Long Park district/

Manger, G. E., 1955
Utah/ Colorado/ sandstone/ Montrose County/
cores/ drilling/ exploration/ Lisbon Valley/
Colorado Plateau/

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state core studies/ Montrose County/

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original state core studies/ Montrose County/
ore deposits/
MONTROSE COUNTY

Colorado/ Utah/ ore deposits/ mineralization/ chemical properties/ Montrose County/ cores/ drilling/ sandstone/ Morrison Formation/ Colorado Plateau/ physical properties/ Salt Wash Member/

chemical properties/ drill cores/ physical properties/ exploration/ uranum/ ore deposits/ Long Park district/ Montrose County/ sandstone/ drilling/ host rocks/ Colorado Plateau/

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Montrose County/ Delta County/ photogeologic map/ Delta quadrangle/ sandstone/ Colorado Plateau/

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Ouray County/ Montrose County/ photogeologic map/ Norwood-1 quadrangle/ sandstone/ Colorado Plateau/

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vanadium/ uranium/ lithology/ stratigraphy/ geology/ exploration/ sandstone/ carbonaceous materials/ mineralization/ ore deposits/ San Miguel River district/ San Miguel Plateau area/ Colorado Plateau/ San Miguel County/ Montrose County/ Entrada Sandstone/

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Utah/ Colorado Plateau/ isotopes/ age dating/ ore deposits/ minerals/ Lisbon Valley/ sandstone/ Montrose County/

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Colorado Plateau/ ore deposits/ Mesa County/ Montrose County/ Urravan district/ Gateway district/ ore guides/ exploration/ sandstone/ Morrison Formation/ Salt Wash Member/ carnitite/

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Carpenter Ridge/ Carpenter Flats/ Martin Mesa/ Urravan district/ Montrose County/ Red Canyon quadrangle/ carnitite/ Dolores mines/ Reven mine/ Shamrock mine/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Mesa County/ Colorado Plateau/ ore deposits/ geology/

McKay, E. J., 1953
Blue Mesa/ Urravan district/ Mesa County/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ Utah/ stratigraphy/ Colorado Plateau/ carnitite/ Gateway district/ ore deposits/ exploration/ geology/ genesis/ localization/ ore guides/

McKay, E. J., 1953
Urravan district/ Montrose County/ ore guides/ carnitite/ Star No. 1 claim/ Wright mines/ theories of origin/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Morrison Formation/ Salt Wash Member/ carnitite/ Reven mine/ sandstone/ carnitite/ Gateway district/ ore deposits/ exploration/ geology/ genesis/ localization/ ore guides/

McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/

McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/

McKelvey, V. E., 1954
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Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnington County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

Stokes, W. L., 1958
Colorado Plateau/ sandstone/ continental sediments/ Montrose County/ sandstone/ lead-uranium ratios/ Mesa County/ San Miguel County/ San Juan County/

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Montrose County/ San Miguel County/ geology/ oil/ gas/ sections/ stratigraphy/ Egnar Gypsum Valley area/ Salt Wash Member/ structure/ structural history/ sandstone/ Colorado Plateau/ Morrison Formation/

Mesa County/ Montrose County/ sandstone/ Colorado Plateau/ statistical measures/ average deposit size/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Gateway district/ Uravan district/

Tavelli, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ New Mexico/ Arizona/ Utah/ exploration/ instrumentation/ Mesa County/

mineralogy/ Peanut mine/ Montrose County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Colorado Plateau/

mineralogy/ Peanut mine/ Montrose County/ uranium/ vanadium/ Morrison Formation/ sandstone/ Bull Canyon district/ Colorado Plateau/

Thompson, M. E., and Sherwood, A. M., 1959
delrioite/ vanadium/ Jo Dandy mine/ Montrose County/ Morrison Formation/ sandstone/ x-ray analyses/ geochemistry/ Colorado Plateau/ strontium/ mineralogy/

delrioite/ vanadium/ minerals/ type locality/ sandstone/ Montrose County/ Peanut mine/ Colorado Plateau/ mineralogy/

delrioite/ Montrose County/ Peanut mine/ vanadium/ mineralogy/ sandstone/ Colorado Plateau/
Montrose County

selenium/ Peanut mine/ Montrose County/ South Dakota/ Dakota/ sandstone/ Colorado Plateau/ mineralogy/

simplottite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ Morrison Formation/ x-ray analyses/ Peanut mine/ Sundown claim/ mineralogy/ sandstone/

sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/

duttonite/ vanadium/ Peanut mine/ Montrose County/ sandstone/ geochemistry/ x-ray analyses/ Colorado Plateau/ mineralogy/

simplottite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ analysis/ Peanut mine/ Sundown claim/ Morrison Formation/ sandstone/ mineralogy/

sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ San Miguel County/ Mesa County/ Montrose County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/

Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose County/ analyses/ Colorado Plateau/ ore deposits/ geology/ Morrison Formation/ sandstone/

Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose County/ Colorado Plateau/ ore deposits/ geology/ Morrison Formation/ sandstone/.

Trace, R. D., 1950
Club Mesa area/ Montrose County/ reserves/ resources/ sandstone/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ Morrison Formation/.

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reserves/ resources/ Club Mesa area/ Montrose County/ Colorado Plateau/ ore deposits/ geology/ sandstone/ Morrison Formation/.

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Club Mesa area/ Montrose County/ reserves/ resources/ sandstone/ Colorado Plateau/ geology/ ore deposits/ Morrison Formation/.

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geology/ uranium/ geophysical prospecting/ economic geology/ mineral engineering/ petrology/ minerals/ radioactivity/ Montrose County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/.

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U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/ geology/.

U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/.

Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochronological exploration/ stream sediments/ ground water/ mine waters/.

Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Colorado Plateau/ ore deposits/ Morrison Formation/ geology/ Chinle Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ igneous-metamorphic/ Front Range/.

Colorado Plateau/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ drilling/ logging/ data/ analyses/ sandstone/ maps/ Morrison Formation/ San Miguel County/.

Beaver Mesa/ Disappointment Valley/ Front Range/
MONTROSE COUNTY

Jo Dandy area/ La Sal Creek area/ Monogram Mesa/ exploration/ drilling/ Ralston Buttes district/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ Jefferson County/ Colorado Plateau/ sandstone/ igneous-metamorphic/

Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ igneous-metamorphic/Ralston Buttes district/

Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Jefferson County/ Fremont County/

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Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/ sandstone/ igneous-metamorphic/

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Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/

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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/

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drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/ Clear Creek County/

U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/

U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ San Miguel County/ Montrose County/ igneous-metamorphic/

Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/

Colorado Plateau/ Ji Dandy area/ Montrose County/ ore deposits/ exploration/ sandstone/ reserves/ Morrison Formation/ Salt Wash Member/ drilling/ uranium/ vanadium/

Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ reserves/ ore deposits/ Jo Dandy area/ Montrose County/ Morrison Formation/ Salt Wash Member/ drilling/ sandstone/ uranium/ vanadium/

U.S. Geological Survey, 1959
Colorado Plateau/ geologic mapping/ geophysics/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

U.S. Geological Survey, 1959
Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

sandstone/ Gypsum Valley district/ Montrose County/ San Miguel County/ Mesa County/ drilling/ exploration/ Colorado Plateau/

maps/ drilling/ exploration/ sandstone/ Atkinson Mesa/ Dolores Bench area/ Uravan district/ Montrose County/ Colorado Plateau/

maps/ drilling/ exploration/ sandstone/ Long Park area/ Uravan district/ Montrose County/ Colorado Plateau/

U.S. Geological Survey, 1971
map/ aeromagnetics/ Colorado Plateau/ sandstone/ Utah/ Colorado/ Arizona/ San Miguel County/ Montrose County/ Mesa County/

Umbach, P. H., 1952
exploration/ Colorado Plateau/ sandstone/ uranium/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/

Utah Geological Society, 1954
Colorado/ Utah/ ore deposits/ geology/ uranium/ sandstone/ New Mexico/ Arizona/ minerals/ Colorado Plateau/ Thompson district/ Lisbon Valley district/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Big Indian district/

Vine, J. D., and Flege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/

Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ reserves/ ore deposits/ Jo Dandy area/ Montrose County/ Morrison Formation/ Salt Wash Member/ drilling/ sandstone/ uranium/ vanadium/

Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ Jo Dandy area/ Montrose County/ ore deposits/ exploration/ sandstone/ reserves/ Morrison Formation/ Salt Wash Member/ drilling/ uranium/ vanadium/ Paradox Valley district/
Vogel, J. D., and Elston, D. P., 1954
Mineral Joe mine/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Jo Dandy area/ Montrose County/ Morrison Formation/

Vogel, J. D., and Elston, D. P., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Jo Dandy area/ Montrose County/

Wallace, R. M., 1955
Montrose County/ Bull Canyon district/ sandstone/ geology/ Colorado Plateau/ ore deposits/

Wallace, R. M., 1957
Monogram Mesa/ Jo Dandy area/ Bull Canyon district/ Colorado Plateau/ reserves/ drilling/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Bull Canyon district/ San Miguel County/ Colorado Plateau/ sandstone/ geology/

Dry Creek basin/ ore deposits/ exploration/ Jurassic/ Morrison Formation/ Bull Canyon district/ Montrose County/ San Miguel County/ Colorado Plateau/ sandstone/ geology/

Wallace, R. M., and Santos, E. S., 1956
Colorado Plateau/ ore deposits/ exploration/ Montrose County/ San Miguel County/ Jurassic/ Morrison Formation/ diamond drilling/ Jo Dandy area/ Dry Creek basin/ sandstone/ Bull Canyon district/

Waters, A. C., and Granger, H. C., 1952
Colorado Plateau/ Uravan district/ Dolores mines/ volcanic debris/ sandstone/ genesis/ Georgetown group/ precipitation/ San Miguel County/ Montrose County/

Weeks, A. D., 1951
ore deposits/ Jurassic/ Morrison Formation/ clay studies/ Calamity Mesa/ Mesa County/ Montrose County/ mineralogy/ petrology/ geochemistry/ clay (red and gray)/ sandstone/ Colorado Plateau/ Ritter Creek district/

Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ roscocelite/ mineralogy/ Uravan district/ Chintle Formation/ Shinarump Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/

Weeks, A. D., 1953
mineralogy/ petrology/ geochemistry/ Cretaceous/ claystone/ siltstone/ Colorado Plateau/ clay studies/ Utah/ Jurassic/ Dolores Group/ Dry Creek anticline/ sandstone/ Mesa County/ Montrose County/ Unaweep/ Escalante Forks/

Weeks, A. D., 1956
Uravan district/ ore deposits/ mineralogy/ sandstone/ Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Weeks, A. D., and Thompson, M. E., 1954
Colorado Plateau/ ore deposits/ uranium/ vanadium/ Montana County/ mineralogy/ identification/ x-ray data/ Mesa County/ analyses/ Montrose County/ San Miguel County/ Dolores County/ sandstone/

Weeks, A. D., and Truesdell, A. H., 1957
Uravan district/ sandstone/ Colorado Plateau/ mineralogy/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/

hummerite/ montroseite/ vanadium/ Montrose County/ sandstone/ Paradox Valley/ analyses/ minerals/ Colorado Plateau/

hummerite/ montroseite/ mineral/ Montrose County/ Colorado/ sandstone/ vanadium/ x-ray analyses/ Hummer mine/ Paradox Valley/ Colorado Plateau/

montroseite/ Montrose County/ Bitter Creek mine/ Jo Dandy mine/ Matchless mine/ Mesa County/ Colorado Plateau/ vanadium/ mineral properties/ geochemistry/ x-ray analyses/ sandstone/

montroseite/ Montrose County/ Jo Dandy mine/ Matchless mine/ Mesa County/ Bitter Creek mine/ Colorado Plateau/ vanadium/ mineral properties/ sandstone/ geochemistry/ x-ray analyses/

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1956
Colorado Plateau/ asphalitic rocks/ Atkinson Mesa/ Club Mesa/ Flat Top Mesa/ Jo Dandy area/ Paradox district/ Placerville district/ Rifle district/ Slick Rock district/ Uravan/ Montrose County/ San Miguel County/ mineralogy/ petrology/ geochemistry/ vanadium/ ore deposits/ Garfield mine/ roscocelite/ chemical analyses/ sandstone/ Garfield County/

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

Weeks, A. D., Lindberg, M., and Meyrowitz, R., 1961
grantsite/ vanadium/ Golden Cycle mine/ La Salle mine/ Montrose County/ Morrison Formation/ sandstone/ Colorado Plateau/ mineral properties/ geochemistry/ x-ray analyses/ ore deposits/

Weeks, A. D., Truesdell, A. H., and Haftry, J., 1957
ore boundary/ uranium/ diagenesis/ mineralization/
Montrose County

Weir, D. B., 1951
Colorado Plateau/ sandstone/ carnitite/ ore guides/ exploration/ ore deposits/ Morrison Formation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geology/

Weir, D. B., 1952
Colorado Plateau/ ore guides/ exploration/ carnitite/ ore deposits/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geology/

Weir, G. W., Carter, W. D., Huffett, W. P., and others, 1960
Utah/ San Miguel County/ Montrose County/ Colorado Plateau/ Mount Peale 4 NE quadrangle/ geology/ stratigraphy/ section/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ sandstone/ map/

Williams, P. L., 1964
Colorado/ Utah/ Moab quadrangle/ ore deposits/ uranium/ maps/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Ouray County/ geology/ structure/ sandstone/

Withington, C. F., 1949
Montrose County/ Paradox quadrangle/ Colorado Plateau/ Uravan district/ carnitite/ structure/ stratigraphy/ Salt Wash Member/ sandstone/ Cashimine/ Cliff Dweller mine/ copper/ silver/ vanadium/ uranium/ Skiw Mesa/ geology/ Morrison Formation/

Withington, C. F., 1954
Uravan district/ Montrose County/ Paradox quadrangle/ geology/ ore guides/ minerals/ carnitite/ Cashimine/ Cliff Dweller mine/ genesis/ uranium/ ore deposits/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Colorado Plateau/

Withington, C. F., 1955
Colorado Plateau/ stratigraphy/ structure/ Salt Wash Member/ sandstone/ carnitite/ copper/ silver/ vanadium/ uranium/ Wray Mesa/ Skiw Mesa/ Cliff Dweller mine/ Uravan district/ Cashin mine/ Morrison Formation/ Montrose County/ geology/

Withington, C. F., 1955
Montrose County/ Paradox quadrangle/ Colorado Plateau/ stratigraphy/ structure/ Morrison Formation/ geology/ Salt Wash Member/ sandstone/ carnitite/ vanadium/ uranium/ copper/ silver/ Skiw Mesa/ Cashin mine/ Cliff Dweller mine/ Wray Mesa/ Uravan district/

Montrose County/ San Miguel County/ Gypsum Valley district/ exploration/ sandstone/ Colorado Plateau/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/

Morgan County

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/

Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

uranium/ sandstone/ ore deposits/ Colorado Plateau/ Uravan district/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Uravan district/ ore deposits/ sandstone/ uranium/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Wright, J. C., Shawe, D. R., and Lohman, S. W., 1962
Jurassic/ Entrada Sandstone/ Utah/ Colorado/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ San Miguel County/

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

Young, Neal, 1957
economic map/ ore deposits/ Mount Peale quadrangle/ Utah/ Colorado/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ geology/

Zareski, G. K., 1954
Colorado/ Utah/ Wray Mesa/ ore deposits/ Morrison Formation/ exploration/ reconnaissance/ Montrose County/ stratigraphy/ structure/ Brushy Basin Member/ Salt Wash Member/ sandstone/ Carnitite/ uranium/ vanadium/ shale/ mudstone/ Colorado Plateau/

Morgan County

Bobberg, W. W., 1970
surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/

Bobberg, W. W., and Runnels, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/ uranium/ analyses/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/ reconnaissance/
Hyden, H. J., 1956
uranium/crude oil/petroleum/Moffat County/conglomerate/Trassic/Jurassic/Entrada Sandstone/Morrison Formation/Archuleta County/Cretaceous/Dakota Sandstone/Mancos Shale/Morgan County/Rio Blanco County/sandstone/trace elements/Shinarump Member/Fremont County/

Maxwell, J. C., 1977
elements/analyses/hydrogeochemistry/stream waters/stream sediments/Sterling area/ Fort Morgan area/South Platte drainage/data/Morgan County/Logan County/Washington County/sandstone/ground water/

Poppeoe, Peter, 1965
arkose/shale/sandstone/conglomerate/Denver basin/Larimer County/Boulder County/Jefferson County/Douglas County/Elbert County/Arapahoe County/Denver County/Adams County/Weld County/Morgan County/geology/aeroradioactivity survey/conglomerate/Front Range/

OTERO COUNTY

ore deposits/reconnaissance/airborne/Huerfano Embayment/ intrusives/volcanics/Las Animas Arch/La Veta Pass area/Huerfano County/Las Animas County/Otero County/Costilla County/Pueblo County/Crowley County/Kiowa County/Bent County/Prowers County/Baca County/sandstone/shale/claystone/igneous-metamorphic/

Scott, R. C., and Barker, F. B., 1961
ground water/radium/La Plata County/Cheyenne County/Kiowa County/Lincoln County/Crowley County/Otero County/Bent County/Prowers County/Las Animas County/Baca County/Montezuma County/Archuleta County/Colorado Plateau/

U.S. Atomic Energy Commission, 1966
geology/uranium/geophysical prospecting/economic geology/mining engineering/petrology/minerals/radioactivity/Otero County/reconnaissance/ore deposits/

OURAY COUNTY

Baltz, E. H., Jr., 1955
Colorado/New Mexico/ore deposits/exploration/carbonaceous rocks/sandstone/Mesa County/Delta County/Montrose County/Gunnison County/Ouray County/San Miguel County/Hinsdale County/Dolores County/Montezuma County/La Plata County/Archuleta County/coal/shale/reconnaissance/Colorado Plateau/

Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/Ouray County/San Juan County/Dolores County/radioactivity/reconnaissance/San Juan Mountains/igneous-metamorphic/Colorado Plateau/sandstone/veins/San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953
radioactivity/reconnaissance/San Juan Mountains/Ouray County/San Miguel County/Gunnison County/Dolores County/igneous-metamorphic/sandstone/Colorado Plateau/veins/San Juan County/

Cadigan, R. A., 1972
stratigraphy/genesis/Chinle Formation/Colorado Plateau/paleontology/sandstone/Trassic strata/Eagle County/La Plata County/Archuleta County/Garfield County/Mesa County/Moffat County/Montezuma County/Pitkin County/Montrose County/Rio Blanco County/Routt County/San Miguel County/San Juan County/Summit County/Park County/Delta County/Dolores County/mineralogy/conglomerate/Gunnison County/Ouray County/

Chew, R. T., 3d, 1955
sandstone/Mesa County/Utah/stream sediments/exploration/radioactivity/Delta County/Montrose County/gravels/San Miguel County/Dolores County/Ouray County/San Juan County/Montezuma County/La Plata County/Colorado Plateau/

Chew, R. T., 3d, 1956
Mesa County/Delta County/Montrose County/sandstone/Dolores County/Ouray County/San Juan County/gravels/Montezuma County/La Plata County/Colorado Plateau/exploration/stream sediments/radioactivity/San Miguel County/

Coats, R. R., 1956
felsic volcanic rocks/igneous-metamorphic/uranium/trace elements/Cenozoic/genesis/Gunnison County/Pitkin County/Lake County/Park County/Chaffee County/Ouray County/Saguache County/Hinsdale County/Saguache County/Hinsdale County/Pitkin County/

Coats, R. R., 1956
uranium/trace elements/felsic volcanic rocks/Cenozoic/genesis/igneous-metamorphic/Gunnison County/Pitkin County/Lake County/Park County/Chaffee County/Ouray County/Saguache County/Hinsdale County/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/Morrison Formation/Mesa County/stratigraphy/Glen Canyon group/Montezuma County/Delta County/San Rafael group/Dolores County/Gunnison County/Montrose County/sandstone/Moffat County/Ouray County/San Juan County/San Miguel County/La Plata County/Rio Blanco County/Garfield County/Archuleta County/

stratigraphy/Morrison Formation/Colorado Plateau/sandstone/Recapture Member/Mesa County/Ouray County/Delta County/Gunnison County/Montrose County/San Juan County/San Miguel County/Dolores County/La Plata County/Montezuma County/Salt Wash Member/
OURAY COUNTY

Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hesperus Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Emmons, S. F., 1905
Colorado Plateau/ red beds/ Dolores Formation/ Telluride/ Ouray County/ San Juan County/ copper/ sandstone/ veins/ ore deposits/

Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/

mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/

Fix, P. F., 1953
natural waters/ ground water/ streams/ geochemistry/ San Juan County/ Ouray County/ tuffaceous terranes/ Cimarron Creek basin/ Las Animas River basin/ Colorado Plateau/ San Juan Mountains/

Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvis Hot spring/ springs/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/

Fix, P. F., 1954
Colorado Plateau/ natural waters/ streams/ snow/ ground water/ San Juan Mountains/ San Juan County/ Ouray County/ acid tuff/ igneous-metamorphic/ Front Range/ Colorado Plateau/ surface water/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

Gottfried, David, 1958
San Juan Mountains/ ore deposits/ exploration/ igneous-metamorphic/ volcanics/ Iceland/ New Jersey/ Oregon/ Hinsdale Formation/ Potosi volcanic series/ Ouray County/ Hinsdale County/ San Juan County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Larsen, E. S., and Cross, C. W., 1956
goology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ San Juan County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ igneous-metamorphic/ Front Range/ dikes/ stocks/ minerals/ porphyry/ San Juan Mountains/ calc-alkaline rocks/ San Juan County/ Ouray County/ Hinsdale County/ Cripple Creek/ Teller County/ quartz-bostonite/ geochemistry/

Larsen, E. S., Gottfried, David, and Molloy, Marjorie, 1958
San Juan Mountains/ ore deposits/ Ouray County/ volcanic rocks/ San Juan County/ Hinsdale County/ igneous-metamorphic/

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/

Marshall, C. H., 1959
Ouray County/ Montrose County/ photogeologic map/ Norwood-1 quadrangle/ sandstone/ Colorado Plateau/

Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/

Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/

Mullens, T. E., and Freeman, V. L., 1959
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Nash, J. T., 1975
fluid inclusions/ veins/ breccia pipes/ replacement ores/ ore deposits/ San Juan Mountains/ San Miguel County/ Ouray County/ igneous-metamorphic/

Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompaghre district/ Colorado Plateau/ igneous-metamorphic/

Pierson, C. T., 1954
San Juan Mountains/ minerals/ mineralogy/ petrology/ Ouray County/ slate/ pitchblende/ igneous-metamorphic/ Mickey Breen mine/

Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/ igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau/

San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata Plateau/ Hinsdale County/ Mineral County/ Saguache County/

Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/

Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/ Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/
Ouray County

Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/

Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Ouray County/ reconnaissance/ ore deposits/ spring deposits/ igneous-metamorphic/ Colorado Plateau/ San Juan Mountains/

U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/ geology/

U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chiricahua Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ igneous-metamorphic/ Front Range/

Williams, P. L., 1964
Colorado/ Utah/ Moab quadrangle/ ore deposits/ uranium/ maps/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Ouray County/ geology/ structure/ sandstone/

Park County

Anonymous, 1950
South Park/ Park County/ sandstone/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Bever, J. E., 1952
Park County/ Fremont County/ igneous-metamorphic/ geology/ petrology/ Guffey-Micanite region/

Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

uranium/ ore deposits/ minerals/ aerial prospecting/ reconnaissance/ geology/ South Park/ Park County/ Garo district/ igneous-metamorphic/ Tertiary/ Precambrian/ trachyte/ granite/ sandstone/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chilie Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Case, J. E., 1967
anomalies/ gravity surveys/ aeromagnetic surveys/ igneous-metamorphic/ ore guides/ geophysics/ Park County/ Lake County/ Park Range/ sandstone/ Colorado mineral belt/

Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ San Juan County/ Hinsdale County/

Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/ Cenozoic/ genesis/ igneous-metamorphic/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/

De Voto, R. H., 1961
South Park/ Park County/ sandstone/ Chaffee County/ geology/ ore deposits/

De Voto, R. H., 1971
South Park/ Park County/ Chaffee County/ sandstone/ geology/ geologic history/ Antero Reservoir quadrangle/ ore deposits/

Finch, W. L., 1956
uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ San Juan Crystalline Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnitite/ tyuyamunite/

Finch, W. L., 1956
uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ San Juan Crystalline Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnitite/ tyuyamunite/

Finch, W. L., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Bent County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fleck, Herman, 1909
Park County/ Garo district/ vanadium/ uranium/ sandstone/ ore deposits/

Gallagher, G. L., 1920
Badger Flats area/ Eikhorn thrust area/ Park County/ Teller County/ Precambrian rocks/ igneous-metamorphic/ Front Range/ uranium favorability/ ore deposits/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/

Gott, G. B., 1951
Park County/ minerals/ calciovolborthite/ carnitite/ volborthite/ Shirley May deposit/ Garo deposit/ uranium/ sandstone/ analyses/ ore deposits/

Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwelder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/

Guillote, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek permatites/ Clear Creek County/ carnitite/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/

Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South Platte area/ Douglas County/ Teller County/ Park County/ igneous-metamorphic/ mineralogy/ analyses/ rare earth minerals/
Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ KIowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfan County/ Eagle County/

Lovering, T. G., 1955
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ limonite/ tyuyamanite/

Lovering, T. G., 1956
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ limonite/ tyuyamanite/

Lovering, T. G., 1954
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ limonite/ tyuyamanite/

Lovering, T. G., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/

Lozano, Efraim, 1965
Park County/ sandstone/ Garo area/ uranium/ copper/ vanadium/ South Park/ geology/

Malan, R. C., 1969
intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arcose/ Fremont County/ mudstone/ Huerfan County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/

Malan, R. C., 1969
genesis/ ore deposits/ Tertiary/ intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfan County/ Custer County/

McCarn, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfan County/ Sagauache County/ Park County/ Colorado Plateau/

Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/

Osterwald, F. W., 1956
cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Pierson, C. T., and Singewald, Q. D., 1953
reconnaissance/ radioactivity/ Alma district/ Park County/ veins/ uranium/ pitchblende/ igneous-metamorphic/ ore deposits/ Precambrian rocks/ London vein/ Cooper Gulch/ Orphan Boy mine/ geology/

Pierson, C. T., and Singewald, Q. D., 1953
Alma district/ Park County/ ore deposits/ reconnaissance/ veins/ Precambrian rocks/ London vein system/ igneous-metamorphic/ Cooper Gulch/ Orphan Boy mine/ pitchblende/ geology/

Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/ igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau/

Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Almo district/ Lake County/ igneous-metamorphic/ Park County/

Riley, L. B., 1946
Park County/ sandstone/ Garo district/ carnitite/ copper/ vanadium/ Front Range/

Salotti, C. A., 1965
mineralogy/ paragenesis/ Cotopaxi area/ Chaffee County/ Custer County/ Fremont County/ Park County/ igneous-metamorphic/ petrology/ geology/ skarn/ ore deposits/ copper/ zinc/ uranium/

Sharp, R. R., Jr., 1976
Wyoming/ uranium/ water/ stream sediments/ hydrogeochemistry/ analyses/ sampling/ Teller County/ Park County/ geochemical surveys/ NURE program/

Sharp, R. R., Jr., and Aamodt, P. L., 1976
hydrogeochemistry/ springs/ South Platte River/ analyses/ natural waters/ South Park/ Tarryall Creek/ West Foursmile Creek/ Currant Creek/ Badger Creek/ surface water/ ground water/ Teller County/ Park County/ Badger Flats/ Boomer mine/ igneous-metamorphic/ sandstone/ Garo deposit/
PARK COUNTY

Sharp, R. R., Jr., and Aamodt, P. L., compilers, 1976
Alaska/Colorado/geochemical surveys/hydrogeochemistry/Montana/New Mexico/exploration/sampling/uranium/Wyoming/water/stream sediments/analyses/Teller County/Park County/South Park/surface water/ground water/

Alaska/Colorado/Montana/New Mexico/exploration/research programs/sample preparation/sampling/sediments/uranium/water/Wyoming/analyses/surface water/ground water/stream sediments/hydrogeochemistry/South Park/Park County/Hinsdale County/San Juan County/

U.S. Atomic Energy Commission, 1966
geochemistry/uranium/geophysical prospecting/economic geology/mining engineering/petrology/minerals/radioactivity/Park County/reconnaissance/ore deposits/sandstone/igneous-metamorphic/

Walker, G. W., 1956
ore deposits/host rocks/alteration/veins/sandstone/igneous-metamorphic/limestone/Boulder County/Park County/Front Range/Glifin County/Clear Creek County/Jefferson County/Saguache County/coal/dolomite/Pitkin County/Larimer County/Caribou mine/Los Ochos mine/Leyden coal mine/Copper King mine/

Walker, G. W., 1963
alteration/veins/igneous-metamorphic/sandstone/limestone/Boulder County/Park County/Front Range/Glifin County/Clear Creek County/Jefferson County/Saguache County/coal/Cochetopa district/ore deposits/Placerville district/San Miguel County/Larimer County/Central City district/Caribou mine/Los Ochos mine/Leyden coal mine/Copper King mine/

Wilmarth, V. R., 1953
veins/Shirley May mine/radioactivity/Garope deposit/sandstone/Maroon Formation/copper/vanadium/Park County/uranium/geochemistry/ore deposits/

Wilmarth, V. R., 1958
Park County/Shirley May mine/Garope deposit/sandstone/uranium/vanadium/copper/Maroon Formation/geochemistry/ore deposits/

Wilmarth, V. R., 1959
geochemistry/uranium/vanadium/Park County/sandstone/Maroon Formation/Shirley May mine/ore deposits/Garope deposits/copper/

Wilmarth, V. R., and Smith, L. E., 1952
drilling/geochemistry/reconnaissance/Maroon Formation/sandstone/ore deposits/structure/Park County/uranium/reserves/resources/minerals/calciovolborthite/carnotite/tyuyamunite/volborthite/vanadium/copper/Garope deposit/Shirley May deposit/

Wood, H. B., 1956
Colorado Plateau/genesis/host rocks/uranium/ore deposits/Jefferson County/San Miguel County/Saguache County/Park County/Boulder County/Montrose County/Moffat County/sandstone/Front Range/coal/igneous-metamorphic/

PITKIN COUNTY

Wood, H. B., 1956
Colorado Plateau/genesis/host rocks/uranium/sandstone/production/geology/Boulder County/Jefferson County/Saguache County/Park County/Montrose County/San Miguel County/Moffat County/coal/igneous-metamorphic/Front Range/

Young, Patti, and Mickle, D. G., 1976
uranium/favorability/Tertiary rocks/Badger Flats/Elk Mountains/Park County/Teller County/igneous-metamorphic/Front Range/

Anonymous, 1951
Turret district/rare earths/igneous-metamorphic/Pitkin County/

Bartleson, B. L., Bryant, B., and Mutschler, F. E., 1968
nomenclature stratigraphy/Elk Mountains/Eagle basin/Conifer Formation/Belden Formation/Maroon Formation/Pitkin County/Gunnison County/Permian stratigraphy/Pennsylvanian stratigraphy/

Boyd, F. S., Jr., and Bromley, C. P., 1953
veins/Aspen area/Smuggler mine/Pitkin County/uranium/breccia/shale/limestone/Chaffee Formation/Devonian/Weber Formation/production/reconnaissance/

Cadigan, R. A., 1972
stratigraphy/genesis/Chinle Formation/Colorado Plateau/paleontology/sandstone/Triassic strata/Eagle County/La Plata County/Archuleta County/Garfield County/Mesa County/Moffat County/Montezuma County/Pitkin County/Montrose County/Rio Blanco County/Routt County/San Miguel County/San Juan County/Summit County/Park County/Delta County/Dolores County/mineralogy/conglomerate/Gunnison County/Ouray County/

Coats, R. R., 1956
felsic volcanic rocks/igneous-metamorphic/uranium/trace elements/Cenozoic/genesis/Gunnison County/Pitkin County/Lake County/Park County/Chaffee County/Ouray County/Saguache County/Hinsdale County/

Coats, R. R., 1956
uranium/trace elements/felsic volcanic rocks/Cenozoic/genesis/igneous-metamorphic/Gunnison County/Pitkin County/Lake County/Park County/Chaffee County/Ouray County/Saguache County/Hinsdale County/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/mineralized waters/springs/spring deposits/Front Range/Jefferson County/Pitkin County/Pueblo County/Garfield County/Park County/E1 Paso County/Ouray County/Boulder County/Gunnison County/Delta County/Chaffee County/

Holmes, C. N., 1950
sandstone/Uncompahgre uplift/tectonics/sedimentary rocks/Mesozoic/Chinle Formation/Pitkin County/

755
Pitkin County

Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1953
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

Prowers County

Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/

Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/

Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/ igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau/

Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Pitkin County/ reconnaissance/ igneous-metamorphic/ ore deposits/

Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ Lake County/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Ouray County/ Miidle Park County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Prowers County

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanicos/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

756
Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/
Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Scott, R. C., and Barker, F. B., 1961
Ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966
great Plains/ sandstone/ radioactivity/
Vogeli, P. T., Sr., and Hershey, L. A., 1960
Prowers County/ ground water/ radium/ uranium/ beta-gamma activity/ aquifers/ data/ radioactivity/ analyses/ wells/ logs/ test holes/

Vogeli, P. T., Sr., and Hershey, L. A., 1965
Prowers County/ ground water/ aquifers/ springs/ resources/ radioactivity/ Arkansas River/ beta-gamma activity/ uranium/ radium/ geology/

PUEBLO COUNTY
Adler, H. H., 1963
great Plains/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/

Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Boyer, R. E., 1961
Badito Cone/ zirconium/ phonolite/ Huerfano County/ Dakota Sandstone/ Morrison Formation/ Stumbling Stud claims/ Wet Mountains/ Pueblo County/ sandstone/ fluorite/ thorium/ uranium/ cement/ rhyolite/ igneous-metamorphic/

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek-Victor district/

Wet Mountains/ ore deposits/ exploration/ Custer County/ thorium/ Fremont County/ Pueblo County/ veins/ igneous-metamorphic/

Wet Mountains/ ore deposits/ thorium/ Custer County/ Fremont County/ veins/ igneous-metamorphic/ rare earths/ Pueblo County/

Wet Mountains/ ore deposits/ resources/ production/ geology/ thorium/ Custer County/ Pueblo County/ Fremont County/ veins/ igneous-metamorphic/

Cross, C. W., 1915
Pueblo County/ Las Animas County/ Huerfano County/ petrology/ dike rocks/ igneous-metamorphic/ Apishapa quadrangle/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
PUEBLO COUNTY

Gerhard, L. C., and Mark, Anson, 1968
Pueblo County/ Custer County/ Wet Mountains/
Paleozoic/ Mesozoic/ geology/ sandstone/ guidebook/
Fremont County/ igneous-metamorphic/ alkaline
igneous rocks/ 

Landis, E. R., 1955
Cheyenne County/ Crowley County/ Kiowa County/
Las Animas County/ Pueblo County/ genesis/ Pierre
Shale/ Niobrara Formation/ shale/ Sharon Spring
Member/ black shales/ ore deposits/ radioactivity/
uranium/ Yuma County/ stratigraphy/ uraniferous/ 

Landis, E. R., 1959
Colorado/ ore deposits/ Cretaceous/
Pierre Shale/ Sharon Springs Member/ radioactivity/
Cheyenne County/ Crowley County/ Kiowa County/
Yuma County/ Las Animas County/ Pueblo County/
shale/ black shale/ 

Canon City embayment/ airborne radiometrics/
Pueblo County/ shale/ clay/ George Avery Ranch/
carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess
prospect/ El Paso County/ Dawson Arkose/ sandstone/
Dakota Formation/ Fremont County/ geology/ Morrison
Formation/ Front Range/ 

Osterwald, F. W., 1956
Corralian foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/ 

Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/
Jefferson County/ Kiowa County/ Larimer County/
Pueblo County/ mineralogy/ petrology/ geochemistry/
black shale/ alteration/ White River group/
uranium/ radioactivity/ Cretaceous shales/ Great
Plains/ El Paso County/ 

Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley
County/ El Paso County/ Jefferson County/ Kiowa
County/ Larimer County/ Pueblo County/ petrology/
geochernistry/ black shale/ alteration/ White
River group/ uranium/ radioactivity/ Cretaceous
shales/ Great Plains/ Cheyenne County/ mineralogy/ 

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Pueblo County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ 

RIO BLANCO COUNTY

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson

carnotite/ pitchblende/ radium/ Gilpin County/
Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/
Moffat County/ Paradox Valley/ Colorado Plateau/
uranium/ sandstone/ igneous-metamorphic/ Rio
Blanco County/ Front Range/ Dolores County/ 

Anonymous, 1913
uranium/ trace elements/ petroleum/ asphalts/
distribution/ occurrence/ Colorado Plateau/ Rocky
Mountains/ United States/ Rio Blanco County/
Jefferson County/ Front Range/ 

Boyer, W. H., 1956
ore deposits/ sandstone/ stratigraphy/ Colorado
Plateau/ vanadium/ mineralization/ exploration/
White River Plateau/ Rio Blanco County/ conglomerate/
siltstone/ mudstone/ County/ Garfield County/
reconnaissance/ geology/ Morrison Formation/
Chinle Formation/ Burrell mines/ Last Day mine/
Coal Creek mine/ Uranium Peak/ Coal Creek anticline/
Sleepy Cat area/ 

Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/
sandstone/ Montrose County/ Rio Blanco County/
San Miguel County/ Entrada Sandstone/ Morrison
Formation/ stratigraphy/ Todilto Limestone/
Chinle Formation/ limestone/ host rocks/ conglomerate/
Colorado Plateau/ Triassic/ Jurassic/ 

Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host
rock/ Garfield County/ Rio Blanco County/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ San Juan County/ Morrison Formation/
Entrada Sandstone/ 

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/
sandstone/ Gunnison County/ La Plata County/
Archuleta County/ San Miguel County/ Mesa County/
Delta County/ Eagle County/ Montrose County/
Montezuma County/ mineralogy/ Rio Blanco County/
Salt Wash Member/ 

Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/
mineralogy/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ sandstone/ stratigraphy/
Cadigan, R. A., 1971
geochemical distribution, Colorado Plateau, red beds, vanadium, sandstone, La Plata County, Montezuma County, Dolores County, San Miguel County, Montrose County, Mesa County, Delta County, Rio Blanco County, geochronology, Garfield County, Moenkopi Formation.

Cadigan, R. A., 1972
stratigraphy, genesis, Chinle Formation, Colorado Plateau, paleontology, sandstone, Triassic strata, Eagle County, La Plata County, Archuleta County, Garfield County, Mesa County, Montezuma County, Moffat County, Montrose County, Pitkin County, Montrose County, Rio Blanco County, Routt County, San Miguel County, San Juan County, Summit County, Park County, Delta County, Dolores County, mineralogy, conglomerate, Gunnison County, Ouray County.

Cannon, H. L., 1960
Colorado Plateau, ore deposits, botanical prospecting, exploration, indicator plants, sandstone, Rio Blanco County, Garfield County, Mesa County, Delta County, Montrose County, San Miguel County, Montezuma County, La Plata County, geobotany.

Carter, W. D., and Galtierii, J. L., 1958
map, tectonics, Colorado, Utah, Moffat County, Logan County, geology, Larimer County, Jackson County, Boulder County, Jefferson County, Clear Creek County, Gilpin County, Summit County, Grand County, Eagle County, Routt County, Garfield County, Rio Blanco County, sandstone, igneous-metamorphic, ore deposits.

Cushion, W. B., 1973
geology, structure, map, Grand Junction quadrangle, Colorado, Utah, Colorado Plateau, Mesa County, sandstone, Rio Blanco County, Garfield County.

Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone, Morrison Formation, Salt Wash Member, geology, Colorado Plateau, ground water studies, carnitite, stratigraphy, structure, ore deposits, Colorado, New Mexico, Utah, Arizona, San Miguel County, Montrose County, Mesa County, Garfield County, Rio Blanco County.

Chew, R. T., 3d, 1955
Colorado Plateau, Rifle mine, Uradan district, map, Uranium Peak, sandstone, production, uranium, vanadium, Morrison Formation, La Plata County, ore deposits, Entrada Sandstone, Rio Blanco County, Mesa County, Garfield County, Delta County, Montrose County, San Miguel County, Dolores County, Montezuma County, Gateway district.

Chew, R. T., 3d, 1956
Rifle mine, Uradan district, Uranium Peak, vanadium, production, Colorado Plateau, uranium, sandstone, Rio Blanco County, Mesa County, Delta County, Montrose County, San Miguel County, Dolores County, Montezuma County, La Plata County, Entrada Sandstone, ore deposits, Garfield County, Morrison Formation.

Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits, Rifle district, Rio Blanco County, Colorado, Moffat County, Maybell-Lay district, Coal Creek area, Skull Creek district, Browns Park Formation, Garfield County, Meeker district, Utah, Entrada Sandstone, sandstone, Colorado Plateau.

Craig, L. C., and Holmes, C. N., 1951
Morrison Formation, Colorado Plateau, sandstone, Moffat County, Rio Blanco County, Garfield County, Delta County, Montrose County, San Miguel County, Dolores County, Montezuma County, La Plata County, Archuleta County, Mesa County, stratigraphy, Glen Canyon group, San Rafael group.

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau, Morrison Formation, Mesa County, stratigraphy, Glen Canyon group, Montezuma County, Delta County, San Rafael group, Dolores County, Gullison County, Montrose County, sandstone, Moffat County, Ouray County, San Juan County, San Miguel County, La Plata County, Rio Blanco County, Garfield County, Archuleta County.

Curran, T. F., 1913
Colorado Plateau, ore deposits, carnotite, history, Gilpin County, Wood mine, Montrose County, sandstone, igneous-metamorphic, pitchblende, San Miguel County, Mesa County, Dolores County, Routt County, Paradox Valley, Rio Blanco County, Utah, Australia, Front Range.

Curran, T. F., 1913
ore deposits, carnotite, San Miguel County, history, Gilpin County, Wood mine, Montrose County, Colorado Plateau, sandstone, pitchblende, San Miguel County, Mesa County, Dolores County, Routt County, Rio Blanco County, Paradox Valley, Utah, Australia, Front Range, igneous-metamorphic.

Ebbley, Norman, 1950
Colorado Plateau, mines, uranium, Colorado, Utah, vanadium, production problems, Uradan district, Gateway district, Rio Blanco County, Mesa County, Montrose County, San Miguel County, sandstone, Garfield County, Rifle mine, Morrison Formation, Entrada Sandstone, Dolores County.

Erickson, R. L., and others, 1953
uranium, metals, crude oil, asphalt, shale, bituminous substances, Moffat County, Jefferson County, Rio Blanco County, sandstone.

Erickson, R. L., Myers, A. T., and Horr, C. A., 1952
uranium, metals, crude oil, asphalt, shale, bituminous substances, Moffat County, Jefferson County, Rio Blanco County, sandstone.

Erickson, R. L., Myers, A. T., and Horr, C. A., 1954
uranium, metals, crude oil, asphalt, shale, bituminous substances, Moffat County, Jefferson County, Rio Blanco County, sandstone.

Finch, W. L., 1955
Colorado Plateau, ore deposits, uranium, sandstone.
copier/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greensill mine/ Placerville district/ Gateway district/ map/ geology/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Orogenic Province/ ore guides/ Garfield County/ San Miguel County/

Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ Garfield County/ Rio Blanco County/ sandstone/ ore rolls/ carnitite/ geology/ ore deposits/ mineralogy/ alteration/ Club mine/ uranium/ radium/ vanadium/ Entrada Sandstone/ genesis/

Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Montrose County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/

Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Choteau County/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Montrose County/ sandstone/ Entrada Sandstone/ production/ stratigraphy/

Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/ supergene processes/ ore deposits/ sandstone/ configuration/ distribution/ uranium/ Arizona/ mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/ Rio Blanco County/ Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochimistry/ clay mineralogy/ uranium/ sandstone/ Moab County/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Gale, H. S., 1907
Rio Blanco County/ Coal Creek district/ ore deposits/ carnitite/ areal geology/ coal/ sandstone/ Colorado Plateau/

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochimistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Plano mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Cleveland County/ Rio Blanco County/ Maze County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/

George, R. D., 1917
uranium/ vanadium/ radium/ carnitite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/

Gruenerwald, William, and Richardson, G. R., 1945
uranium/ geology/ stratigraphy/ sandstone/ mineralization/ uranium/ ore deposits/ exploration/ Sleepy Cat Mountain/ district/ White River uplift area/ Colorado Plateau/ Rio Blanco County/ carnitite/ Stealey prospect/

Guillot, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/ Utah/ Garfield County/ Rio Blanco County/ uranium/ Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ gilsonite/ shale/ Green River Formation/ oil shale/ native asphalts/

Hess, F. L., 1914
generation/ carnitite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moab County/ Rio Blanco County/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ Gilsonite/ shales/ Green River Formation/ oil shale/ native asphalts/

Hess, F. L., 1925
carnitite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hill, J. W., 1945
uranium/ reserves/ ore deposits/ exploration/ geology/ Coal Creek anticline/ White River uplift/ Colorado Plateau/ sandstone/ Urion mine/ Riland
Rio Blanco County

N mine/ Riland S mine/ Hess mine/ Quin Burrell prospect/ Uranium Peak prospect/ Rio Blanco County/

Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/ conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/ Morrison Formation/ Archuleta County/ Cretaceous/ Dakota Sandstone/ Mancos Shale/ Morgan County/ Rio Blanco County/ sandstone/ trace elements/ Shinarump Member/ Fremont County/

Isachsen, Y. W., 1955
Skull Creek district/ Uranium Peak district/ ore deposits/ Garfield County/ sandstone/ Rio Blanco County/ Moffat County/ guidebook/ Colorado Plateau/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/ 761
faults/fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/
Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/
King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ igneous-metamorphic/ hot spring deposits/ fluorite/
Meeker area/ Rio Blanco County/ exploration/ Colorado Plateau/ sandstone/ geobotany/
Kleinhammer, F. J., and Kateff, Carl, 1956
Rio Blanco County/ Colorado Plateau/ sandstone/ geobotany/ exploration/
Colorado Plateau/ ore deposits/ genesis/ paragenesis/ uranium/ Meeker/ Rio Blanco County/ sandstone/
paragenesis/ uranium/ ore deposits/ Colorado Plateau/ Meeker/ Rio Blanco County/ sandstone/ genesis/
Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/
Moore, G. W., 1953
Boulder County/ Centennial coal mine/ Crested Butte/ Rio Blanco County/ uranium/ Gunnison County/ aqueous solutions/ uranium extraction/ Kebler mine/
Moore, G. W., 1954
uranium extraction/ uranium/ coal/ Boulder County/ Centennial coal mine/ Crested Butte/ Kebler mine/ Rio Blanco County/ Gunnison County/ aqueous solutions/
Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
Murray, D. K., and Haun, J. D., 1974
age estimation/ geology/ geomorphology/ mineral resources/ natural gas/ petroleum/ Piceance Creek basin/ sediments/ stratigraphy/ uranium/
Utah/ Rio Blanco County/ Garfield County/ Mesa County/ Moffat County/ Colorado Plateau/ sandstone/

Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/

Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uralan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

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763
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ore deposits/ carnitite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ igneous-metamorphic/

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Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

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mine/ igneous-metamorphic/ San Miguel County/
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district/ sandstone/ ore deposits/ Grand County/
Teller County/ Park County/ Park City/ Kemurs/ Fremont
County/ mudstone/ Huerfano County/ conglomerate/
genesis/ geochemistry/ Gunnison County/ Saguache
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High Park/ Cochetopa district/ Marshall Pass/ Thirty-nine Mile field/

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County/ Saguache County/ igneous-metamorphic/
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age determination/ ore deposits/ veins/ Tertiary/ Cretaceous/ Front Range/ Wood mine/ Iron mine/ Gilpin County/ German mine/ Copper King mine/ Larimer County/ igneous-metamorphic/ Schwartzwalder mine/ Jefferson County/ Los Ochos mine/ Saguache County/ isotopes/

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Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/

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ore deposits/ veins/ fluorspar/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/

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ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Clear Creek County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/}

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ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/

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Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/

San Juan County

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carnotite/ roscelite/ stratigraphy/ Entrada Sandstone/ minerals/ Pony Express Limestone Member/ Wanakah Formation/ limestone/ sandstone/ Colorado Plateau/ uranium/ vanadium/ San Juan Mountains/ San Miguel County/ ore deposits/ San Juan County/ Dolores County/ La Plata County/ Lightner Creek district/ Placerville district/ resources/
San Juan Mountains/ structure/ Placerville district/
San Miguel County/ igneous-metamorphic/ uranium/
vanadium/ selenium/ ore deposits/ Colorado Plateau/
San Juan County/ La Plata County/ Dolores County/
sandstone/ veins/

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rock/ Garfield County/ Rio Blanco County/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ San Juan County/ Morrison Formation/
Entrada Sandstone/

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stratigraphy/ genesis/ Chintle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
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Montezuma County/ Pitkin County/ Montrose County/
Río Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

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ore deposits/ exploration/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/

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County/ Colorado/ Utah/ sandstone/ uranium/
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areal geology/ Montrose County/ uranium/ sandstone/
Colorado Plateau/ Morrison Formation/ geology/

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Montrose County/ Colorado/ Utah/ sandstone/
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Colorado/ Montrose County/ Mount Peale I NE
quadrangle/ Utah/ Morrison Formation/ sandstone/ geology/
map/ uranium/ vanadium/ Colorado Plateau/

Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/
exploration/ radioactivity/ Delta County/ Montrose
County/ gravels/ San Miguel County/ Dolores
County/ Ouray County/ San Juan County/ Montezuma
County/ La Plata County/ Colorado Plateau/

Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/
sandstone/ Dolores County/ Ouray County/ San
Juan County/ gravels/ Montezuma County/ La Plata
County/ Colorado Plateau/ exploration/ stream
sediments/ radioactivity/ San Miguel County/

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others, 1951

San Juan County
Colorado Plateau/ Morrison Formation/ Mesa County/
stratigraphy/ Glen Canyon group/ Montezuma County/
Delta County/ San Rafael group/ Dolores County/
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Moffat County/ Ouray County/ San Juan County/
San Miguel County/ La Plata County/ Rio Blanco
County/ Garfield County/ Archuleta County/

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others, 1959
stratigraphy/ Morrison Formation/ Colorado Plateau/
sandstone/ Recapture Member/ Mesa County/ Ouray
County/ Delta County/ Gunnison County/ Montrose
County/ San Juan County/ San Miguel County/
Dolores County/ La Plata County/ Montezuma County/
Salt Wash Member/

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County/ sandstone/ Colorado Plateau/ uranium/
mineral resources/

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exploration/ shale/ reconnaissance/ Belden Formation/
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Gunnison County/ Hermosa Formation/ San Juan
County/ La Plata County/ Lake County/ Pony Express
Limestone Member/ Ouray County/ Dakota Sandstone/
Archuleta County/ Pierre Shale/ Las Animas County/
Huerfano County/ Vermejo Formation/ limestone/
sandstone/ Front Range/ Colorado Plateau/

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sandstone/ veins/ ore deposits/

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geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/

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Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ mariposite/ sandstone/
Enterado Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/

Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
SAN JUAN COUNTY

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uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Ute Valley district/

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Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chinle Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/

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Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

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Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

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geochemistry/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ La Plata County/ Hinsdale County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

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uranium/ thorium/ igneous-metamorphic/ Front Range/ dikes/ stocks/ minerals/ porphyry/ San Juan Mountains/ calc-alkalic rocks/ San Juan County/ Ouray County/ Hinsdale County/ Cripple Creek/ Teller County/ quartz-bostonite/ geochemistry/

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Malan, R. C., 1968
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veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/

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veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ phosphorites/ igneous-metamorphic/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Clear Creek County/

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lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

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Alaska/ Colorado/ Montana/ New Mexico/ exploration/ research programs/ sample preparation/ sampling/ sediments/ uranium/ water/ Wyoming/ analyses/ surface water/ ground water/ stream sediments/ hydrogeochemistry/ South Park/ Park County/ Hinsdale County/ San Juan County/

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structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/ 

minerals/ resources/ San Juan primitive area/ iron/ Irving Formation/ igneous-metamorphic/ La Plata County/ San Juan County/ Hinsdale County/ Mineral County/ Eik Park area/ metasediments/

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age dating/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ lead-uranium ratios/ Mesa
SAN JUAN COUNTY

Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ uranium/ age determination/ sandstone/ San Juan County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/

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Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

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Colorado Plateau/ sandstone/ continental sediments/ Montrose County/ sandstone/ lead-uranium ratios/ Mesa County/ San Miguel County/ San Juan County/

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Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chiricahua Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ igneous-metamorphic/ Front Range/

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Utah/ San Miguel County/ Montrose County/ Colorado Plateau/ Mount Peale 4 NE quadrangle/ geology/ stratigraphy/ section/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ sandstone/ map/
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Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnotite/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chilie Formation/ Dolores County/ experimental studies/ Salt Wash Member/

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Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/

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Colorado/ New Mexico/ ore deposits/ carbonaceous rocks/ shale/ siltstone/ Hermosa Formation/ San Miguel County/ Bald Eagle prospect/ Colorado Plateau/

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Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/

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stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/

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limestone/ sandstone/ Colorado Plateau/ Hermosa Formation/ reserves/ exploration/ drilling/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Early Morn group/ Gypsum Valley district/ San Miguel County/

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Colorado Plateau/ drilling/ ore deposits/ reserves/ ore deposits/ Gypsum Valley district/ Sunset claim/ San Miguel County/ sandstone/ Morrison Formation/ carnotite/ uranium/ vanadium/ Early Morn group/ limestone/ Salt Wash Member/

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minerals/ carnotite/ Colorado Plateau/ ore deposits/ geology/ San Miguel County/ Leon group area/ exploration/ drilling/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/

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uranium/ vanadium/ carnotite/ geology/ reserves/ ore deposits/ Colorado Plateau/ San Miguel County/ exploration/ Cougar claim/ Helen claim/ Last Chance claim/ Lower group/ Rainbow claim/ Cougar mine/ ore production/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

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Colorado Plateau/ ore deposits/ reserves/ sandstone/ San Miguel County/ drilling/ exploration/ carnotite/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Leon group area/

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Colorado Plateau/ ore deposits/ reserves/ sandstone/ San Miguel County/ drilling/ exploration/ carnotite/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Leon group area/

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drilling/ exploration/ Leon group area/ San Miguel County/ ore deposits/ sandstone/ Colorado Plateau/ geology/ reserves/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

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reserves/ Leon group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/

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reserves/ Leon group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/

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reserves/ Leon group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
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organic materials/ ore deposits/ Colorado Plateau/ geochemistry/ Colorado/ coalified wood/ sandstone/ Black King mine/ Placerville district/ San Miguel County/ Utah/ Arizona/ carbonaceous rocks/

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bituminous substances/ uranium/ coal/ San Miguel County/ Colorado Plateau/ oil/ organics/ geochemistry/ sandstone/

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bituminous substances/ uranium/ coal/ San Miguel County/ geochemistry/ Colorado Plateau/ oil/ organics/ sandstone/

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radioactivity/ reconnaissance/ San Juan Mountains/ Ouray County/ San Miguel County/ Gunnison County/ Dolores County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ veins/ San Juan County/

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ore deposits/ resources/ mining/ carnitite/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/
San Miguel County

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vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/


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San Juan Mountains/ uranium/ vanadium/ Entrada Sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/ veins/ Placerville district/ Dolores County/

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San Juan Mountains/ Placerville district/ San Miguel County/ uranium/ vanadium/ Entrada Sandstone/ sandstone/ structure/ geology/ ore deposits/ Dolores County/ Colorado Plateau/ veins/

mapping/ Placerville district/ San Juan Mountains/ San Miguel County/ Entrada Sandstone/ sandstone/ uranium/ ore deposits/ geology/ veins/ Colorado Plateau/

San Juan Mountains/ San Miguel County/ Dolores County/ Placerville district/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ igneous-metamorphic/ Colorado Plateau/ veins/ geology/

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vanadium/ uranium/ ore deposits/ Entrada Sandstone/ veins/ sandstone/ San Juan Mountains/ San Miguel County/ Dolores County/ mineralogy/ Placerville district/ geology/ Colorado Plateau/

Dolores Peak quadrangle/ Dolores County/ San Miguel County/ geology/ sandstone/ Colorado Plateau/
sandstone/ ore deposits/ ore guides/ Colorado Plateau/ San Miguel County/ exploration/ drilling/ carnitite/ uranium/ Georgento claim/ vanadium/ Veta Mad claim/ ore production/ reserves/ resources/ Morrison Formation/ Salt Wash Member/

San Juan Mountains/ structure/ Placerville district/ San Miguel County/ igneous-metamorphic/ uranium/ vanadium/ selenium/ ore deposits/ Colorado Plateau/ San Juan County/ La Plata County/ Dolores County/ sandstone/ veins/

San Miguel County/ Little Cone quadrangle/ structure/ sandstone/ vanadium/ uranium/ areal geology/ ore deposits/ Colorado Plateau/ Entrada Sandstone/

San Miguel County/ sandstone/ vanadium/ uranium/ Entrada Sandstone/ geology/ ore deposits/ Colorado Plateau/ Little Cone quadrangle/

areal geology/ Little Cone quadrangle/ San Miguel County/ Entrada Sandstone/ Jurassic/ vanadium/ uranium/ sandstone/ geology/ ore deposits/ Colorado Plateau/

San Juan Mountains/ vanadium/ Placerville district/ San Miguel County/ Entrada Sandstone/ sandstone/ veins/ igneous-metamorphic/ Colorado Plateau/ ore deposits/

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Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Clinie Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnitite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

sandstone/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnitite/ uranium/ vanadium/ igneous-metamorphic/ uranium/ iron hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

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Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Toddito limestone/ Clinie Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/

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lithology/ Colorado Plateau/ petrology/ sediments/ Morrison Formation/ sandstone/ Montrose County/ ore deposits/ San Miguel County/ geochemistry/

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Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/

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petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

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petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/ geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

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stratigraphy/ genesis/ Clinie Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

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Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/
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Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/

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plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/

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Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/

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disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/

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disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/

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San Miguel County/ Gypsum Gap quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Hermosa Formation/ Pitchfork mines/ Bald Eagle mines/ Long Ridge mines/ Uravan district/ ore deposits/ map/ Colorado Plateau/

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San Miguel County/ Hamm Canyon quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ map/ Salt Wash Member/ sandstone/ Colorado Plateau/ ore deposits/ Rambler mine/ Mexico mines/ Lookout mine/ Riverview claim/ Morrison Formation/ Uravan district/

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San Miguel County/ Horse Range Mesa quadrangle/ geology/ minerals/ carnotite/ Uravan district/ ore guides/ exploration/ minerals/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Thunderbolt mine/ Oversight claim/ map/ Jo Dandy area/ mines/ Naturita NW quadrangle/

Cater, W. D., Jr., 1955
carnotite/ Colorado/ stratigraphy/ structure/ mapping/ Colorado Plateau/ geology/ San Miguel County/ Mesa County/ Montrose County/

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Colorado/ carnotite/ Mesa County/ Montrose County/ sandstone/ ore deposits/ Morrison Formation/ salt anticlines/ Salt Wash Member/ stratigraphy/ structure/ Colorado Plateau/ geology/ exploration/ mapping/ San Miguel County/

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Uravan district/ Dolores County/ San Miguel County/ Egnar quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Charles T. mines/ map/ Golden Rod mines/ Owney group/ Spud Patch group/ Legin mines/ Ike group of mines/ mines/ ore deposits/

Cater, W. D., Jr., 1954
Bull Canyon quadrangle/ Montrose County/ sandstone/ San Miguel County/ Uravan district/ geology/ carnotite/ Salt Wash Member/ Colorado Plateau/ map/ Morrison Formation/

Cater, W. D., Jr., 1955
Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Golden Rod mines/ ore deposits/ Owney group of mines/ Spud Patch group/ Legin mines/ Ike group of mines/ geology/ map/ mines/ Salt Wash Member/
Cater, F. W., Jr., 1955
San Miguel County/ Gypsum Gap quadrangle/ sandstone/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ Hermosa Formation/ Pitchfork mines/ Bald Eagle mines/ Long Ridge mines/ limestone/ geology/ map/ carnotite/

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San Miguel County/ Colorado Plateau/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group mines/ Charles T. mines/ Georgeto mine/ Veta Mad mine/ Lower group mines/ Upper group mines/ mines/ geology/ map/ Horse Range Mesa quadrangle/

Cater, F. W., Jr., 1955
Montrose County/ San Miguel County/ Naturita NW quadrangle/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ geology/ map/ mines/ ore deposits/

Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Colorado Plateau/ Joe Davis Hill quadrangle/ Morrison Formation/ ore deposits/ sandstone/ carnotite/ geology/ map/ Salt Wash Member/

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San Miguel County/ Hamm Canyon quadrangle/ sandstone/ Morrison Formation/ Salt Wash member/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ geology/ map/ ore deposits/

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San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Hermosa Formation/ limestone/ Pitchfork mines/ geology/ Bald Eagle mines/ Long Ridge mines/ map/ ore deposits/ Gypsum Gap quadrangle/

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San Miguel County/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ geology/ map/ ore deposits/ Hamm Canyon quadrangle/

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Montrose County/ San Miguel County/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Silveys Pocket/ geology/ map/ Anderson Mesa quadrangle/

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Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Ike group mines/ ore deposits/ Ownbay group/ Spud Patch group/ Legin mines/ geology/ map/ mines/ Golden Rod mines/ Salt Wash Member/

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Dolores County/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ map/ mines/ carnotite/ Joe Davis Hill quadrangle/ geology/ ore deposits/
San Miguel County

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Chenoweth, W. L., 1977 Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/

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Chew, R. T., 3d, 1955 sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactive/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/

Chew, R. T., 3d, 1956 Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactive/ San Miguel County/

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Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977 Morrison Formation/ Salt Wash Member/ Brushy
Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/

Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnontite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ igneous-metamorphic/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/

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ore deposits/ carnontite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ igneous-metamorphic/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/

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Colorado Plateau/ geophysics/ exploration/ Salt Wash Member/ sandstone/ Granlich mine/ Spud Patch area/ La Sal Creek area/ San Miguel County/ Mesa County/ Montrose County/ Colorado/ Utah/ Arizona/ Morrison Formation/

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Colorado Plateau/ geophysics/ exploration/ carnontite/ sandstone/ Morrison Formation/ Salt Wash Member/ drilling/ Mesa County/ San Miguel County/ Montrose County/

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Jurassic/ Morrison Formation/ Colorado Plateau/ ore deposits/ Wedding Bell mines/ Montrose County/ County/ sandstone/ uranium/ vanadium/ ore controls/ San Miguel County/
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Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/

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sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

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pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

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Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chiricahua Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Monroe County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

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Colorado Plateau/ ore deposits/ production/ Triassic/ Chiricahua Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ Garfield County/ Rio Blanco County/ geology/

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Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

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copper/ vanadium/ uranium/ silver/ ore deposits/ sedimentary deposits/ veins/ hydrothermal/ sandstone/ igneous-metamorphic/ Entrada Sandstone/ San Miguel County/ Colorado/ Utah/ Colorado Plateau/

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copper/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/

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vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrance Sandstone/ Mesa County/

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Colorado Plateau/ vanadium/ ore deposits/ uranium/ radium/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ sandstone/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Dolores County/ Colorado Plateau/

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vanadium/ Colorado/ Utah/ Colorado Plateau/ uranium/ Entrada Sandstone/ sandstone/ Garfield County/ San Miguel County/

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sandstone/ Colorado Plateau/ vanadium/ genesis/ ore deposits/ Garfield County/ San Miguel County/

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Morrison Formation/ Entrance Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Uravan district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/

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Colorado Plateau/ uranium/ vanadium/ ore deposits/
SAN MIGUEL COUNTY

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Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

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Morrison Formation/ Colorado Plateau/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ Garfield County/ Rio Blanco County/ sandstone/ ore rolls/ carnitite/ geology/ ore deposits/ mineralogy/ alteration/ Club mine/ uranium/ radium/ vanadium/ Entrada Sandstone/ genesis/

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uranium/ vanadium/ potential/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

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Colorado Plateau/ Uravan district/ exploration/ drilling/ sandstone/ ore deposits/ Morrison Formation/ Montrose County/ Mesa County/ Dolores County/ San Miguel County/

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reserves/ resources/ Charles T. claims/ uranium/ Club Mesa area/ Maverick claims/ Radium claims/ Upper group/ Georgetown claims/ vanadium/ Colorado Plateau/ carnitite/ Morrison Formation/ sandstone/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/

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Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/

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uranium/ uranium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

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veins/ igneous-metamorphic/ sedimentary rocks/ sandstone/ vanadium/ uranium/ ore deposits/ Colorado Plateau/ geochemistry/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

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Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/

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uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/

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uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/

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uranium/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ Entrada Sandstone/ sandstone/ Rifle district/ Garfield County/ genesis/ San Miguel County/ La Plata County/ Placerville district/ Rico district/ Dolores County/

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vanadium/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ La Plata County/ Rifle district/ Placerville district/ Rico district/ Durango district/ genesis/ localization/ Dolores County/ Entrada Sandstone/

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Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chlin Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/

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exploration/ ore guides/ uranium/ ore deposits/ Colorado Plateau/ Uravan district/ genesis/
sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

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Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uravan mineral belt/ sandstone/ Morrison Formation/ Colorado Plateau/ ore deposits/ carnitite/ exploration/ geology/ vanadium/ uranium/ Uravan district/

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Uravan mineral belt/ ore deposits/ carnitite/ Mesa County/ Montrose County/ Outlaw Mesa/ Calamity Mesa/ Club Mesa/ Long Park/ exploration/ geology/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ Uravan district/ Dolores County/ San Miguel County/ ore guides/ production/ vanadium/

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bed distribution/ lithology/ sandstone/ uranium/ vanadium/ copper/ Colorado/ Morrison Formation/ Colorado Plateau/ ore deposits/ San Miguel County/ Garfield County/ Entrada Sandstone/

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copper/ vanadium/ uranium/ ore deposits/ sandstone/ Colorado Plateau/ Entrada Sandstone/ geochemistry/ San Miguel County/ Garfield County/

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vanadium/ uranium/ Placerville district/ San Miguel County/ sandstone/ Entrada Sandstone/ ore deposits/ Colorado Plateau/

Fischer, R. P., Haff, J. C., and Rominger, J. R., 1947
uranium/ ore deposits/ San Miguel County/ vanadium/ sandstone/ Entrada Sandstone/ Colorado Plateau/ Placerville district/

Fischer, R. P., Hilpert, L. S., Schumacher, J. L., and others, 1951
investigations/ carnitite/ ore deposits/ sandstone/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ San Miguel County/ Mesa County/ Dolores County/ Garfield County/

Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvis Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/

Fleck, Herman, 1908
pitchblende/ Gilpin County/ igneous-metamorphic/ vanadium/ uranium/ ore deposits/ Placerville district/ sandstone/ San Miguel County/ Front Range/ rare metals/ Entrada Sandstone/

Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/

Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/ vanadium/ Placerville district/ sanstone/ San Miguel County/ rare metals/ uranium/ Entrada Sandstone/ sandstone/ igneous-metamorphic/ Front Range/ Colorado Plateau/

Fleck, Herman, 1909
rare metals/ pitchblende/ uranium/ ore deposits/ San Miguel County/ Placerville district/ vanadium/ Entrada Sandstone/ sandstone/ Colorado Plateau/

Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/ molybdenum/ vanadium/ uranium/ Colorado Plateau/ Placerville district/ San Miguel County/ sandstone/ Front Range/ Gilpin County/ igneous-metamorphic/
SAN MIGUEL COUNTY

Fleck, Herman, and Haldane, W. G., 1907
uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Garfield County/ sandstone/ ore deposits/

Fleck, Herman, and Haldane, W. G., 1908
San Miguel County/ Placerville district/ carnitite/ analyses/ uranium/ vanadium/ radioactivity/
sandstone/ Colorado Plateau/

Fleck, Herman, and Haldane, W. G., 1909
carnitite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/

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carnitite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/

Foster, M. D., 1959
Four Corners Geological Society, 1960
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

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Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
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County/ Montezuma County/ La Plata County/ Archuleta
County/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/

Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/

Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/

George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
Colorado Plateau/ sandstone/ igneous-metamorphic/
uranium/ vanadium/ radium/ carnitite/ pitchblende/
Jefferson County/ Gilpin County/ Front Range/
Montrose County/ San Miguel County/ Dolores

Jefferson County/ sandstone/ igneous-metamorphic/
shale/

Garrels, R. M., 1953
Colorado Plateau/ ore deposits/ carnitite/ genesis/
weathering/ transport/ deposition/ Paradox Valley/
Uravan district/ Montrose County/ sandstone/
San Miguel County/ Mesa County/ geology/

Garrels, R. M., 1954
weathering/ transportation/ deposition/ Jo Dandy
area/ Colorado Plateau/ Mineral Joe mine/ Montrose
County/ sandstone/ Uravan district/ San Miguel
County/ ore deposits/

Garrels, R. M., 1954
Colorado Plateau/ weathering/ transportation/
 deposition/ Paradox Valley/ Uravan district/
Montrose County/ sandstone/ Jo Dandy group/
Mineral Joe mine/ clays/ Long Park/ San Miguel
County/ ore deposits/

Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/
transportation/ deposition/ sandstone/ Mineral
Joe mine/ Jo Dandy area/ Uravan district/ Montrose
County/ geochemistry/ San Miguel County/

Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/
sandstone/ genesis/ uranium/ Montrose County/
San Miguel County/

Garrels, R. M., and Larsen, E. S., 3d, compilers,
1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ sandstone/ sediments/ geology/
structures/ Paradox basin/ oil/ gas/ uranium/

Garrels, R. M., 1953
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ sandstone/ organics/ Peanut mine/ J. J. mine/
Montrose County/ Rifle mine/ Garfield mine/
Moffat County/ Rio Blanco County/ Mesa County/
Delta County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/

Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/

thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/

thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/

thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/

George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
Colorado Plateau/ sandstone/ igneous-metamorphic/
uranium/ vanadium/ radium/ carnitite/ pitchblende/
Jefferson County/ Gilpin County/ Front Range/
Montrose County/ San Miguel County/ Dolores/
Gilbert, C. C., 1954
resources/ sandstone/ Uravan district/ Morrison Formation/ Mesa County/ Montrose County/ Gateway district/ Gypsum Valley district/ Slick Rock district/ Colorado Plateau/ Salt Wash Member/ Dolores County/ San Miguel County/ Paradox district/

Gilbert, C. C., 1954
ore deposits/ ore distribution/ Colorado Plateau/ sandstone/ Morrison Formation/ Salt Wash Member/ Bull Canyon district/ Gypsum Valley district/ Slick Rock district/ San Miguel County/ Montrose County/

Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ ore deposits/ uranium/ vanadium/ lithology/ mineralogy/ sandstone/ subsurface stratigraphy/ Morrison Formation/ Sage Plain area/ Colorado Plateau/ Utah/ Colorado/ Dolores County/ Montezuma County/ La Plata County/ San Miguel County/

Griffiths, J. C., 1952
sampling/ collection/ Salt Wash Member/ Colorado/ Utah/ Colorado Plateau/ Jurassic/ clays/ Bull Canyon district/ sandstone/ Montrose County/ San Miguel County/ Polar Mesa/ Blue Mesa/ Paradox Valley/ sediments/ Morrison Formation/

Griffiths, J. C., 1954
Colorado Plateau/ ore deposits/ exploration/ sediments/ sandstone/ mudstone/ Montrose County/ San Miguel County/ Salt Wash Member/ Morrison Formation/ Jurassic/ quantitative analysis/

Griffiths, J. C., 1954
Morrison Formation/ Salt Wash Member/ sediments/ sandstone/ textures/ grain size/ mudstone/ Jurassic/ Colorado/ Utah/ Colorado Plateau/ Bull Canyon district/ uranium/ vanadium/ Entrada Sandstone/ Arizona/ grain fabric/ Montrose County/ Shinarump Member/ petrography/ San Miguel County/

Griffiths, J. C., 1957
Salt Wash Member/ sandstone/ mudstone/ Morrison Formation/ Jurassic/ Bull Canyon District/ Monogram Mesa/ San Miguel County/ Colorado/ Utah/ Arizona/ Plateau/ statistics/ petrography/ ore guides/ exploration/ sand grain studies/ ore deposits/ Montrose County/ Colorado Plateau/

lithology/ analyses/ Salt Wash Member/ Jurassic/ sandstone/ mudstone/ cores/ uranium/ vanadium/ ilmenite/ Montrose County/ San Miguel County/ spectrometry/ Bull Canyon district/ Morrison Formation/ Colorado Plateau/

Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ mudstone/ Montrose County/ San Miguel County/ thin sections/ Colorado/ Utah/ ilmenite/ Colorado Plateau/ Bull Canyon district/ petrography/

Salt Wash Member/ sediments/ Morrison Formation/ Jurassic/ grain size/ grain shape/ sandstone/ Utah/ Colorado/ Arizona/ Montrose County/ San Miguel County/ statistics/ grain orientation/ Colorado Plateau/ Bull Canyon district/ quartz/ lithology/

Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ matrix/ clay/ Colorado Plateau/ Monogram Mesa/ Utah/ Arizona/ Montrose County/ San Miguel County/ petrography/ sediments/ clay pebbles/ grain packing/ statistics/ Bull Canyon district/

Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado Plateau/ conglomerate/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Utah/ pitchblende/ genesis/ Chiricahua Formation/ ore deposits/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ mineralization/ shale/ sandstone/ siltstone/ clays/ Morrison Formation/ Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi Formation/ Shinarump Member/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ asphaltite/ uraninite/ copper/ Chiricahua Formation/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ conglomerate/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ To dilito Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chiricahua Formation/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusive/ extrusive/ ore sources/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ ground water/ igneous-metamorphic/

Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/ Utah/ Colorado/ sandstone/ siltstone/ conglomerate/ limestone/ uranium/ vanadium/ New Mexico/ geology/ San Miguel County/ Montrose County/ Mesa County/

Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ ore deposits/ organic materials/ sandstone/ uranium/ carbon/ San Miguel County/ Montrose County/ Mesa County/

Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/

Gruner, J. W., 1956
Colorado Plateau/ ore deposits/ mineral assemblages/ Utah/ Colorado/ uranium/ sandstone/ continental-type deposits/ Morrison Formation/ San Miguel County/ Montrose County/ Mesa County/
Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ sandstone/ genesis/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/ Colorado Plateau/

Gruner, J. W., and Gardiner, L., 1950
ore deposits/ asphalt/ lignite/ geochemistry/ San Miguel County/ sandstone/ Placerville district/ experimental geochemistry/ Colorado Plateau/

Gruner, J. W., and Gardiner, L., 1952
mineral associations/ Shinarump Member/ Todilto Limestone/ Utah/ New Mexico/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ Colorado/ Montrose County/ San Miguel County/ Calamity Mesa/ Placerville district/ sandstone/ Chine Formation/ ore deposits/

Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/

Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/ Colorado Plateau/ sandstone/ siltstone/ shale/ coffinite/ uranium/ organic/ Hopi Buttes/ diatremes/ Arizona/ Colorado/ New Mexico/ Utah/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/ sandstone/ Browns Park Formation/ Colorado Plateau/ Morrison Formation/ Chine Formation/ Mesa County/ San Miguel County/ peat/ lignite/ Moffat County/ Montrose County/

Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/

Colorado Plateau/ ore deposits/ mineral assemblages/ Calamity Mesa/ Placerville district/ New Mexico/ conglomerate/ Chine Formation/ Morrison Formation/ sandstone/ limestone/ asphaltite/ thucholite/ Montrose County/ San Miguel County/ Salt Wash Member/ Dolores Formation/ Shinarump Member/ Todilto Limestone/

Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1953
clay/ Colorado Plateau/ Chine Formation/ Dolores County/ San Juan County/ Arizona/ Utah/ New Mexico/ Colorado/ San Juan Mountains/ Entrance Sandstone/ Greysiill mine/ sandstone/ San Miguel County/

Colorado Plateau/ ore deposits/ mineralogy/ uraninite/ coffinite/ vanadium/ uranium/ Colorado/ Utah/ New Mexico/ Todilto Limestone/ limestone/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ San Miguel County/ Greysiill mine/ Mesa County/ Montrose County/ San Juan County/

Gualtieri, J. L., and Emerick, W. L., 1953
Grass Flats claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Hawkeye claim area/ Slick Rock district/ San Miguel County/

Guillotte, G. B., 1947
drilling/ well logging/ drill cores/ tables/ data/ ore deposits/ gamma-ray logs/ Slick Rock district/ Colorado Plateau area/ Dolores County/ San Miguel County/ sandstone/ Dolores Plateau/

Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/ Colorado/ Utah/ exploration/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/

Hackman, R. J., 1952
San Miguel County/ photogeologic map/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Colorado Plateau/ Mount Pea-16 quadrangle/

Hackman, R. J., 1952
Dolores County/ San Miguel County/ photogeologic map/ Verdure-1 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1955
Montrose County/ Colorado/ San Miguel County/ sandstone/ photogeologic map/ Mount Pea-9 quadrangle/ Utah/ Morrison Formation/ Salt Wash Member/ carnitite/ Colorado Plateau/

Hackman, R. J., 1956
Colorado/ Utah/ San Miguel County/ photogeologic map/ Mount Pea-16 quadrangle/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Colorado Plateau/

Hackman, R. J., 1956
Montrose County/ San Miguel County/ Utah/ photogeologic map/ Mount Pea-9 quadrangle/ sandstone/ Morrison Formation/ Salt Wash Member/ carnitite/ Colorado Plateau/

Hager, Dorsey, 1955
Colorado Plateau/ ore deposits/ exploration/
SAN MIGUEL COUNTY

channels/ sandstone/ uranium/ ore concentration/ San Miguel County/ Montrose County/ Mesa County/

Hague, R. S., 1956
ore deposits/ stratigraphy/mineralogy/ mineralization/ Bull Canyon area/ Montrose County/ San Miguel County/ Colorado Plateau/ Urvan district/ Morrison Formation/ Salt Wash Member/ sandstone/ mudstone/ Brushy Basin Member/ tyuyamuitic/ carnottite/ uraninite/ montroseite/

Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Urvan mineral belt/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/

Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/ production/ costs/ sandstone/ uranium/ methods/ mining/ San Miguel County/ Montrose County/ Mesa County/

Hastings, J. S., 1963
Urvan mineral belt/ Colorado Plateau/ sandstone/ exploration/ Montrose County/ San Miguel County/ Dolores County/ geology/ mining methods/

Hathaway, J. C., 1959
Colorado Plateau/ ore deposits/ geochemistry/ mudstone/ clay mineralogy/ mixed-layered structures/ vanadium/ Mineral Joe mine/ Montrose County/ San Miguel County/ sandstone/

Hawkes, H. E., 1949
Colorado Plateau/ botany/ geobotany/ Garfield ore zones/ carnottite/ ore deposits/ Charles T. mine/ geology/ sandstone/ Utah/ selenium/ Rifle mine/ Lower group mines/ Garfield mine/ Mesa County/ Montrose County/ San Miguel County/ Arizona/

Colorado/ Utah/ geology/ structure/ ore deposits/ uranium/ Cortez quadrangle/ map/ host formations/ sandstone/ San Miguel County/ Dolores County/ La Plata County/ Colorado Plateau/ stratigraphy/ Montezuma County/

Henderson, E. P., 1935
steigerite/ properties/ Gypsum Valley district/ San Miguel County/ Colorado Plateau/ sandstone/ minerals/

Henderson, E. P., and Hess, F. L., 1933
corvusite/ vanadium/ San Miguel County/ Mesa County/ Gateway district/ Gypsum Valley district/ Colorado/ Colorado Plateau/ sandstone/ rilandite/ Utah/ carnottite/

Hess, F. L., 1913
Placerville district/ vanadium/ sandstone/ geology/ San Miguel County/ Entrada Sandstone/ ore deposits/ Colorado Plateau/

Hess, F. L., 1914
genesis/ carnottite/ Colorado/ uranium/ vanadium/ Colorado Plateau/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/

Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/ radium/ sandstone/ ore deposits/ resources/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/ radium/ sandstone/ ore deposits/ resources/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/ gold/ silver/ molybdenum/ sediments/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/

High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ igneous-metamorphic/ San Miguel County/ Colorado Plateau/ Mesa County/

High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Mesa County/ Saguache County/ igneous-metamorphic/ Pitch mine/ Colorado Plateau/ Dolores County/

High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/
High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ mines/ Colorado Plateau/

High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/ drilling/ Dolores County/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/ Rio-Argetine district/

Hillebrand, W. F., and Ransome, F. L., 1900
carnotite/ vanadium/ minerals/ sandstone/ ore deposits/ Colorado Plateau/ Montrose County/ San Miguel County/ analyses/

Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ Colorado Plateau/

Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1914
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ hewettite/ metahewettite/ pascoite/ Colorado Plateau/ hydrous calcium vanadates/

Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1915
Paradox Valley/ Colorado Plateau/ minerals/ sandstone/ San Miguel County/ hydrous calcium vanadates/ hewettite/ metahewettite/ pascoite/ vanadium/

Hillebrand, W. F., Wright, F. E., and Merwin, H. E., 1915
calcium vanadates/ vanadium/ Peru/ Colorado/ Utah/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ minerals/ Mesa County/

Hilpert, L. S., 1949
San Miguel County/ exploration/ drilling/ reserves/ Eillison claims/ Upper group claims and mines/ sandstone/ ore deposits/ Colorado Plateau/ Burro claims/ uranium/ vanadium/ Morrison Formation/ Slick Rock district/ Salt Wash Member/

Hilpert, L. S., 1952
Colorado Plateau/ exploration/ Spud Patch area/ sandstone/ Morrison Formation/ Salt Wash Member/ ore deposits/ reserves/ drilling/ uranium/ vanadium/ San Miguel County/

Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ drilling/ Morrison Formation/ Uravan district/ Yellow Cat mine/ Monogram Mesa/ Gateway district/

Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/ Mesa County/ San Miguel County/ Dolores County/ drilling/ exploration/ ore deposits/ Morrison Formation/ Salt Wash Member/ Urank district/ Gateway district/ Gypsum Valley district/ Montrose County/

Holmes, C. N., 1949
geoLOGY/ carnotite/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/

Huff, L. C., 1954
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ mapping/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores County/ San Miguel County/ ore deposits/

Huff, L. C., 1955
Colorado/ Utah/ ore deposits/ Colorado Plateau/ Dolores County/ San Miguel County/ stratigraphy/ Salt Wash Member/ sandstone/ vanadium/ Sage Plain area/ Morrison Formation/

Huff, L. C., and Lesure, F. G., 1956
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ Salt Wash Member/ geochemistry/ Middle Montezuma group/ Coyote No. 1 mine/ Verdure mine/ Strawberry mine/ Rainbow mine/ ore deposits/ geophysical logs/ Lucky Boy mine/

Huff, L. C., and Lesure, F. G., 1956
Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ mines/ Salt Wash Member/ peat/ Sage Plain area/ Utah/ ore deposits/

Huff, L. C., and Lesure, F. G., 1957
Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Salt Wash Member/ sandstone/ stratigraphy/ mapping/ structure/ ore deposits/ geochemistry/ mines/ Sage Plain area/ Morrison Formation/

Huleatt, W. P., Hazen, S. W., Jr., and Traver, W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/

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Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

789
Hurley, D. B., and Crew, M. E., 1953
drilling/ Colorado Plateau/ sandstone/ San Miguel County/ drilling trends/ ore deposits/ reserves/ Montrose County/ Mesa County/

Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ Montrose County/ San Miguel County/ Dolores County/ Big Indian Wash-Lisbon Valley district/ Mesa County/ stratigraphy/ structure/

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Front Range/ pitchblende/ sandstone/ igneous-metamorphic/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ La Plata County/ Park County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ Karrer, E. P., Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ igneous-metamorphic/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ La Plata County/ Karrer, G. V., 1953
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resistivity/ geophysics/ exploration/ ore deposits/ Spud Patch area/ San Miguel County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Utah/ White Canyon district/ Colorado Plateau/ Keller, G. V., 1959
electrical properties/ sandstone/ Morrison Formation/ geophysics/ resistivity/ porosity/ Dolores County/ Mesa County/ Montrose County/ San Miguel County/ Uranium district/ exploration/ Colorado Plateau/ Keller, G. V., 1959
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clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ sandstone/ Colorado Plateau/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/ sandstone/ Colorado Plateau/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/ sandstone/ Colorado Plateau/ Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/ sandstone/ Colorado Plateau/ Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Delta County/ structural controls/ sandstone/ Colorado Plateau/ Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Delta County/ structural controls/ Keller, V. C., 1956
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Range/

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pegmatites/ geobotany/ Front Range/ Gilpin County/
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Miguel County/ ore deposits/ phosphates/ shale/
placers/

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sandstone/ igneous-metamorphic/ Front Range/
pegmatites/ geobotany/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ Colorado Plateau/ phosphates/
shale/ placers/

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Dolores County/ Mesa County/ exploration/ carnitite/
veins/ sandstone/ igneous-metamorphic/ pegmatites/
geobotany/ Front Range/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ veins/ Colorado Plateau/
phosphates/ shale/ placers/

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States/ Dolores County/ Mesa County/ Gilpin
County/ igneous-metamorphic/ Clear Creek County/
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uranium/ Colorado Plateau/ elements/ sandstone/ San Miguel County/ Montrose County/

elements/ Colorado Plateau/ sandstone/ Chinle Formation/ analyses/ uranium/ vanadium/ Morrison Formation/ Uhavan district/ statistics/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/

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element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Urvan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Miguel County/

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claim map/ Colorado Plateau/ Horse Range Mesa/ ore deposits/ sandstone/ Charles A claims/ Apex claims/ Rio Grande claims/ Hot Foot claims/ Summit claims/ Radium claims/ Bean claims/ Charles T claims/ uranium/ vanadium/ San Miguel County/ Morrison Formation/

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sandstone/ Colorado Plateau/ San Miguel County/ Slick Rock district/ uranium/ vanadium/ ore deposits/ Dolores County/

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Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Mustang County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/

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veins/ Front Range/ coffinite/ uranium/ silicates/
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sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/

simplotite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ x-ray analyses/ analysis/ Peanut mine/ Sundown claim/ Morrison Formation/ sandstone/ mineralogy/

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Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ igneous-metamorphic/ Ralston Buttes district/

Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/
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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ Mesa County/ ore deposits/

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sandstone/ Gypsum Valley district/ Montrose County/ San Miguel County/ maps/ drilling/ exploration/ Colorado Plateau/

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Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ igneous-metamorphic/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/

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Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/
San Miguel County

Clear Creek County/ Front Range/ Jefferson County/ Schwartwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/sandstone/ Colorado/mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/

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ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/Larimer County/ Boulder County/ igneous-metamorphic/ sandstone/

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Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ roscoelite/ mineralogy/ Uravan district/ Chinle Formation/ Shinarump Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/

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Uravan district/ ore deposits/ mineralogy/ sandstone/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

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Mount Peale quadrangle/ Lisbon Valley area/ mapping/ Colorado Plateau/ sandstone/ Dolores anticline/ San Miguel County/ geology/ ore deposits/

uranium/ vanadium/ copper/ Lisbon Valley area/ Utah/ San Miguel County/ Cutler Formation/ Chinle Formation/ Morrison Formation/ sandstone/ ore deposits/ Colorado Plateau/ Dolores anticline/ igneous-metamorphic/

Utah/ San Miguel County/ Mount Peale 4 SE quadrangle/ geology/ Burro Canyon Formation/ Morrison Formation/ Salt Wash Member/ sandstone/ uranium/ vanadium/ map/ Colorado Plateau/ stratigraphy/ section/

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thucholite/ Robinson property/ Placerville district/ Weatherly property/ asphaltite/ hydrocarbons/ pyrobitumens/ base metals/ precious metals/ veins/ fault breccia/ shear zone material/ limestone/ Dolores Formation/ ore deposits/ Colorado Plateau/ San Miguel County/ structure/ Cutler Formation/ sandstone/

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minerals/ carnotite/ Colorado Plateau/ geology/ Slick Rock district/ San Miguel County/ Upper group area/ exploration/ drilling/ production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/

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Colorado Plateau/ San Miguel County/ exploration/ drilling/ Upper group claims/ uranium/ production/ reserves/ resources/ vanadium/ Slick Rock/ geology/ minerals/ carnotite/ roscoelite/ sandstone/ Morrison Formation/ Salt Wash Member/

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carnotite/ geology/ exploration/ Colorado Plateau/ San Miguel County/ drilling/ Burro claim/ Ellison claim/ production/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

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Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/

gEOLOGY/ ore deposits/ uranium/ Lisbon Valley area/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/

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surface water/streams/transport/precipitation/South Platte River/geochemistry/shale/Jefferson County/Douglas County/Denver County/Arapahoe County/uranium/Adams County/Weld County/Morgan County/Washington County/Logan County/Sedgwick County/

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marine black shales/uranium/United States/distribution/shale/Sedgwick County/Colorado Plateau/Pierre Shale/Sharon Springs Member/Paradox Member/Hermosa Formation/

SUMMIT COUNTY

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stratigraphy/genesis/Chinle Formation/Colorado Plateau/paleontology/sandstone/Triassic strata/Eagle County/La Plata County/Archuleta County/Garfield County/Mesa County/Moffat County/Montezuma County/Pitkin County/Montrose County/Rio Blanco County/Routt County/San Miguel County/San Juan County/Summit County/Park County/Delta County/Dolores County/mineralogy/conglomerate/Gunnison County/Ouray County/

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map/tektontics/Colorado/Utah/Moffat County/Logan County/geology/Larimer County/Jackson County/Boulder County/Jefferson County/Clear Creek County/Gilpin County/Summit County/Grand County/Eagle County/Routt County/Garfield County/Rio Blanco County/sandstone/or ore deposits/igneous-metamorphic/

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Larimer County/ Boulder County/ Jefferson County/
Gilpin County/ Clear Creek County/ igneous-metamorphic/
sandstone/ Front Range/ Grand County/ Jackson/
County/ Summit County/ Eagle County/ Rio Blanco/
County/ Garfield County/ Routt County/ Moffat County/

Phair, George, 1953
Front Range/ Central City district/ ore deposits/
geochemistry/ petrology/ mineralogy/ bostonite/
pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/
Quartz Hill area/ Copper King mine/ Larimer County/
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rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/
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district/ age determination/ Front Range/ Cotopaxi/
Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/
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geochemistry/ galena/ Summit County/ Boulder County/
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Chaffee County/ isotopic variation/ igneous-metamorphic/

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Lake County/ igneous-metamorphic/ Park County/

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geology/ uranium/ ore deposits/ Front Range/
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Creek County/ Boulder County/ Grand County/
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Lawson-Dumont-Fal River district/ Freeland-Lamartine
district/ gneiss/ thorium/ pegmatites/ alaskite/
bostonite/ Chicago Creek district/ igneous-metamorphic/
monazite/

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ore deposits/ igneous-metamorphic/

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analyses/ ore deposits/ San Juan County/ Summit
County/ Huerfano County/

TELLER COUNTY

Teller County

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ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City emayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek-Victor district/

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Park County/ igneous-metamorphic/ mineralogy/ analyses/ rare earth minerals/

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reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

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uranium/ thorium/ igneous-metamorphic/ Front Range/ dikes/ stocks/ minerals/ porphyry/ San Juan Mountains/ calc-alkaline rocks/ San Juan County/ Ouray County/ Hinsdale County/ Cripple Creek/ Teller County/ quartz-bostonite/ geochemistry/

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pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/

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Washington County

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Yuma County

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surface water/ springs/ South Platte River/ geochemistry/ uranium/ analyses/ Jefferson County/ Douglas

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Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

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data/ uranium/ radium/ ground water/ analyses/
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**COAL, SHALE**

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Maybell-Lay area/ ore deposits/ Moffat County/ veins/ sandstone/ stratigraphy/ structure/ uranium/ Gertrude mine/ Margie mine/ minerals/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ Browns Park Formation/

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Maybell-Lay area/ ore deposits/ Moffat County/ veins/ Browns Park Formation/ sandstone/ stratigraphy/ Gertrude mine/ Margie mine/ minerals/ structure/ uranium/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ petrographic studies/ springs/ water/ wells/ streams/ ground water/ hot springs/

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veins/ Aspen area/ Smuggler mine/ Pitkin County/ uranium/ breccia/ shale/ limestone/ Chaffee Formation/ Devonian/ Weber Formation/ production/ reconnaissance/
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ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrell mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/

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calified wood/ uranium/ ore deposits/ Colorado Plateau/ ash/ analyses/ geochemistry/ sandstone/ Morrison Formation/ Chinle Formation/ lignite/

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organic geochemistry/ coal/ uranium/ sandstone/ conglomeratic sandstone/ conglomerate/

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organic geochemistry/ coal/ uranium/ Colorado Plateau/ sandstone/ Wyoming/ Colorado/ New Mexico/ Utah/ peat/

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uranium/ carbonaceous materials/ sedimentary rocks/ coal/ South Dakota/ Wyoming/ Colorado

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veins/ Aspen area/ Smuggler mine/ Pitkin County/ uranium/ breccia/ shale/ limestone/ Chaffee Formation/ Devonian/ Weber Formation/ production/ reconnaissance/

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ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrell mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/

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igneous-metamorphic/ geology/ ore deposits/
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region/ Bon Ton mine/ Madonna mine/ brannerite/
black (marine carbonaceous) shales/ pegmatites/
reconnaissance/ radiometrics/ Silent Friend
mine/

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exploration/ shale/ reconnaissance/ Belden Formation/
Paradox Member/ Eagle County/ Garfield County/
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County/ La Plata County/ Lake County/ Pony Express
Limestone Member/ Ouray County/ Dakota Sandstone/
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others, 1953
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bituminous substances/ Moffat County/ Jefferson
County/ Rio Blanco County/ sandstone/

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igneous-metamorphic/ mudstone/ Colorado Plateau/
phosphates/ pitchblende/ pegmatite/ carnottite/
Morrison Formation/ Entrada Sandstone/ Shinarump
Member/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ asphalt/
limestone/ black shale/ Belgian Congo/ Canadium
Shield/

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New Mexico/ shale/ Colorado Plateau/ Kirtland
Shale/

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production/ Triassic/ Chinle Formation/ shale/
sandstone/ conglomerate/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Garfield County/ Rio Blanco County/
gology/

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Colorado Plateau/ ore deposits/ production/
Triassic/ Chinle Formation/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
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County/ La Plata County/ sandstone/ conglomerate/
shale/ Garfield County/ Rio Blanco County/ geology/

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County/ Hinsdale County/ San Miguel County/
production/ Gunnison County/ Beth claim/ veins/
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County/ Boulder County/ Front Range/

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Front Range/ Montrose County/ Mesa County/ San
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Jefferson County/ sandstone/ igneous-metamorphic/
shale/

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deposits/ carnottite/ areal geology/ coal/ sandstone/
Colorado Plateau/

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rare earth minerals/ chemistry/ pegmatites/
sandstone/ placers/ black shales/ igneous-metamorphic/
Colorado Plateau/ Front Range/

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rocks/ coal/ Park County/ Gunnison County/ Delta
County/ Las Animas County/ El Paso County/ Teller
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Basin/ Larimer County/ shale/ Crested Butte/
Laramie Formation/ Colorado Plateau/ Front Range/

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prospect/ Old Leyden coal mine/ coal/ ore deposits/
gology/ genesis/ reserves/ sandstone/ Front Range/

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ignite/ limestone/ organics/ sandstone/ coal/
Leyden coal mine/ Jefferson County/ uranium/
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South Dakota/Wyoming/ore deposits/uranium/Colorado Plateau/sandstone/siltstone/shale/coffinite/uraninite/organics/Hopi Buttes/diatremes/Arizona/Colorado/New Mexico/Utah/Mesa County/Montrose County/San Miguel County/Dolores County/
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Kaiser, E. P., King, R. U., Wilmart, V. R., and others, 1952
Front Range/pitchblende/sandstone/coal/shale/Archuleta County/Routt County/Eagle County/Pitkin County/Gunnison County/Platte County/Park County/Boulder County/Jefferson County/Park County/Rio Blanco County/igneous-metamorphic/
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spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

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ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltsstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

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Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

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copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnottite/ rosoelite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McElmo Formation/ genesis/ Gilpin County/ igneous-metamorphic/ ore deposits/ Front Range/

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Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/

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ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/

genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/

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veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/

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veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear Creek County/ uranium/ Front Range/ genesis/ Mesa County/

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veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/

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geochernistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Jefferson County/ Gilpin County/ igneous-metamorphic/ placer deposits/ Clear Creek County/

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Coal, Shale

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sandstone/ shale/ phosphorites/ Colorado Plateau/
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ore deposits/ Old Leyden mine/ reserves/ geology/ structure/

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Morrison Formation/ phosphates/ shale/ sandstone/
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County/ Gilpin County/ Clear Creek County/ Garfield
County/ Boulder County/

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Butte/ Rio Blanco County/ uranium/ coal/ Gunnison
County/ aqueous solutions/ uranium extraction/
Kebler mine/

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Centennial coal mine/ Crested Butte/ Kebler
mine/ Rio Blanco County/ Gunnison County/ aqueous
solutions/

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County/ Montrose County/ Rio Blanco County/
Dakota Sandstone/ Mesa County/ Fountain Formation/
Green River Formation/ Laramie Formation/ Hermosa
Formation/ Paradox Member/ shales/ sandstone/
Front Range/ Colorado Plateau/

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Morrison Formation/ Salt Wash Member/ Chinde
Formation/ Mossback Member/ Cutler Formation/
San Miguel County/ Skela Mesa/ reconnaissance/
sandstone/ siltstone/ shale/ stratigraphy/ geology/
aeroradioactivity surveying/

Canon City embayment/ airborne radiometrics/
Pueblo County/ shale/ clay/ George Avery Ranch/
carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess
prospect/ El Paso County/ Dawson Arkose/ sandstone/
Dakota Formation/ Fremont County/ geology/
Morrison Formation/ Front Range/

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lichtstone/ Montrose County/ Jefferson County/
arkosa/ sandstone/ shale/ geology/ uranium/
thorium/ exploration/ igneous-metamorphic/ San
Miguel County/ geochemistry/ mineralogy/ conglomerate/

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limestone/ Montrose County/ Jefferson County/
arkosa/ sandstone/ shale/ geology/ uranium/
thorium/ exploration/ igneous-metamorphic/ San
Miguel County/ geochemistry/ mineralogy/ conglomerate/

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simulation/ uranium/ Montrose County/ analyses/
coal/ sandstone/

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simulation/ uranium/ Montrose County/ analyses/
coal/ sandstone/

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arkose/ shale/ sandstone/ conglomerate/ Denver
basin/ Larimer County/ Boulder County/ Jefferson
County/ Douglas County/ Elbert County/ Arapahoe
County/ Denver County/ Adams County/ Weld County/
Morgan County/ geology/ aero radioactivity survey/
conglomerate/ Front Range/

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Laramie Formation/ Dawson arkose/ Pierre Shale/
Castle Rock Conglomerate/ Denver basin/ Larimer
County/ Boulder County/ Jefferson County/ Douglas
County/ Elbert County/ Arapahoe County/ Denver
County/ Adams County/ Weld County/ Morgan County/
gamma-ray logs/ airborne radioactivity/ Front
Range/ Fox Hills Sandstone/

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lichtstone/ shale/ igneous-metamorphic/ Sargents
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biogeochimistry/ coal/ shale/ sandstone/ Colorado/
ore deposits/ carnitite/ uraninite/ Utah/ Colorado
Plateau/

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sediments/ sandstone/ carnitite/ clays/ shale/
Coal, Shale

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marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

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oil/ uranium/ black shales/

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Coal, Shale

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Colorado Plateau/ geophysics/ Front Range/ sandstone/ geology/ coal/ shale/ reconnaissance/ petrology/ stratigraphy/ sandstone/ igneous-metamorphic/ ore deposits/

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ore deposits/ veins/ fluorite/ Front Range/ 

Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/ 

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/ 

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Green River Formation/ Picance Creek basin/ drilling/ fluids/ ground water/ Rio Blanco County/ oil shale/ shale/ exploration/ hydraulic testing/ Colorado Plateau/

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metamorphism/ structure/ geologic history/ Coal Creek area/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ 

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Precambrian/ quartzite/ schist/ Coal Creek/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ 

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Arizona/ California/ coal/ Colorado/ consumption rates/ energy sources/ environmental effects/ geothermal energy/ hydroelectric power plants/ Idaho/ leasing/ Montana/ Nevada/ New Mexico/ Oregon/ petroleum/ processing/ regulations/ uranium/ Utah/ Washington/ water resources/ Wyoming/ natural gas/

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Colorado Plateau/ geology/ organic material/ sandstone/ shale/ San Miguel County/ Placerville district/ minerals/ uranoaphane/ asphaltite/ hydrocarbons/ pyrobitumen/ thulstinite/ Barbara J claim/ ore deposits/ New Discovery lode/ Robinson property/ Weatherly property/ White Spar claims/ Black King claims/ Cutler Formation/ economic geology/ Dolores Formation/

Wilson, J. H., 1923
Denver area/ ore deposits/ carnitite/ sandstone/ Jefferson County/ Leyden coal mine/ Front Range/ Laramie Formation/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/
Wood, H. B., 1956
Colorado Plateau/genesis/host rocks/uranium/sandstone/production/geology/Boulder County/Jefferson County/Saguache County/Park County/Montrose County/San Miguel County/Moffat County/coal/igneous-metamorphic/Front Range/

Wyant, D. G., Beroni, E. P., and Granger, H. C., 1951
Colorado Plateau/uranium/ore deposits/conglomerate/shale/sandstone/

Zareski, G. K., 1954
Colorado/Utah/Wray Mesa/ore deposits/Morrison Formation/exploration/reconnaissance/Montrose County stratigraphy/structure/Brushy Basin Member/Salt Wash Member/sandstone/carnotite/uranium/vanadium/shale/mudstone/Colorado Plateau/
Adams, J. A. S., 1954
volcanic rocks/ uranium/ thorium/ analyses/ Larimer County/ igneous-metamorphic/ Grand County/ Rocky Mountain National Park/ Silverton/ San Juan County/

Adams, J. W., 1948
Chaffee County/ Gunnison County/ Mount Antero/ igneous-metamorphic/ beryl/ beryllium/ White Mountain/

Adams, J. W., 1951
Chaffee County/ Carbonate Mountain/ Garfield quadrangle/ Mount Antero region/ brannerite/ California mine/ veins/ molybdenum/ pegmatites/ igneous-metamorphic/ aquamarine/ White Mountain/ granite/ quartz monzonite/ beryllium/

Adams, J. W., 1953
veins/ pegmatite/ quartz/ beryl/ beryllium/ Mount Antero/ White Mountain/ granite/ quartz monzonite/ California mine/ brannerite/ molybdenum/ Chaffee County/ igneous-metamorphic/

Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/ gneiss/ genesis/ wall rock alteration/ Golden Gate Canyon/ Ralston Creek/ igneous-metamorphic/ Front Range/

Adams, J. W., 1954
Jefferson County/ ore deposits/ distribution/ uranium/ genesis/ wall rocks/ Golden Gate Canyon/ Ralston Creek area/ Schwartz mine (Schwartzwalder Mine)/ igneous-metamorphic/ Front Range/

Adams, J. W., 1954
thalhenite/ White Cloud pegmatite/ South Platte district/ Jefferson County/ igneous-metamorphic/ rare earths/ thorium/ Front Range/

thalhenite/ allanite/ yttrium/ Jefferson County/ rare earths/ thorium/ pegmatite/ White Cloud pegmatite/ igneous-metamorphic/ South Platte district/ Front Range/

rare earths/ thorium/ minerals/ resources/ Colorado/ igneous-metamorphic/ Front Range/

Adams, J. W., and Stugard, Frederick, Jr., 1953
Jefferson County/ ore deposits/ evaluation/ uranium/ igneous-metamorphic/ Golden Gate Canyon/ hornblende gneiss/ paragenesis/ Front Range/

Adams, J. W., and Stugard, Frederick, Jr., 1954
from Range/ Golden Gate Canyon/ Jefferson County/ mineralogy/ petrology/ geochemistry/ breccia reefs/ wall rock control/ minerals/ pitchblende/ Buckman property/ Golden Gate property/ Union Pacific prospect/ Laramide faults/ veins/ hornblende gneiss/ igneous-metamorphic/

Adams, J. W., and Stugard, Frederick, Jr., 1956
veins/ Jefferson County/ wall rock control/ pitchblende/ uranium/ Golden Gate Canyon/ Union Pacific prospect/ igneous-metamorphic/ Front Range/ ore deposits/

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Golden Gate Canyon/ ore deposits/ wall rock alteration/ stratigraphic controls/ Jefferson County/ veins/ igneous-metamorphic/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ genesis/ wall rock influence/ Buckman property/ Union Pacific prospect/ hornblende gneiss/ Laramide faults/

Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953
Jefferson County/ Golden Gate Canyon/ Ralston Creek/ pitchblende/ torbernite/ Buckman property/ Hoffmeister prospect/ North Star mine/ Schwartz mine (Schwartzwalder mine)/ Union Pacific prospect/ Ladwig properties/ shear zone/ geology/ ore deposits/ Front Range/ igneous-metamorphic/ Golden Gate property/ Nigger shaft/ fault breccia/

Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953
ore deposits/ Golden Gate Canyon area/ Ralston Creek area/ Jefferson County/ igneous-metamorphic/ uranium/ occurrence/ Front Range/ genesis/ hornblende gneiss/ wall rock alteration/ veins/ pitchblende/

thalhenite/ thorium/ rare earths/ Teller County/ pegmatite/ igneous-metamorphic/ Front Range/

Alsford, P. R., 1916
Gilpin County/ ore deposits/ pitchblende/ occurrence/ properties/ areal geology/ economics/ veins/ uranium/ igneous-metamorphic/ Clear Creek County/ gneiss/ schist/ pegmatite/ Front Range/

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Gilpin County/ ore deposits/ pitchblende/ evaluation/ igneous-metamorphic/ Front Range/

Anonymous, 1913
carnotite/ pitchblende/ radium/ Gilpin County/ Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/ Moffat County/ Paradox Valley/ Colorado Plateau/ uranium/ sandstone/ igneous-metamorphic/ Rio Blanco County/ Front Range/ San Miguel County/
Anonymous, 1914
pitchblende/ Kirk mine/ Gilpin County/ igneous-metamorphic/ Chihuahua/ Mexico/ molybdenum/ tungsten/ Front Range/ uranium/ ore deposits/

Anonymous, 1920
ore deposits/ resources/ pitchblende/ Boulder County/ igneous-metamorphic/ Front Range/

Anonymous, 1950
Pagosa Springs/ Mineral County/ Blanco Basin/ West Fork/ igneous-metamorphic/

Anonymous, 1950
development/ Boulder County/ igneous-metamorphic/ Caribou mine/

Anonymous, 1950
Boulder County/ igneous-metamorphic/ Caribou mine/ development/ Front Range/

Anonymous, 1950
Clear Creek County/ pitchblende/ igneous-metamorphic/ Front Range/

Anonymous, 1950
Archuleta County/ Oll Creek Canyon/ Mineral County/ igneous-metamorphic/ ore deposits/

Anonymous, 1951
Gunnison County/ rare earths/ pegmatites/ Gold Creek/ Brown Derby mine/ igneous-metamorphic/

Anonymous, 1951
Gunnison County/ rare earths/ pegmatites/ beryl/ igneous-metamorphic/

Anonymous, 1951
milling/ general/ monazite/ igneous-metamorphic/

Anonymous, 1951
Turret district/ rare earths/ igneous-metamorphic/ Pitkin County/

Anonymous, 1951
Larimer County/ Copper King mine/ pitchblende/ igneous-metamorphic/ ore deposits/ Front Range/

Antony, J., 1967
Front Range/ Jefferson County/ Tucker Gulch area/ map/ geology/ igneous-metamorphic/

Armbrustmacher, T. J., 1975
thorium/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ veins/ ore deposits/

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thorium/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ veins/ ore deposits/

Armstrong, F. C., 1952
pitchblende/ ore deposits/ Quartz Hill/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ uranium/ ore grade/ veins/ Front Range/ Central City district/

Armstrong, F. C., 1953
pitchblende/ Quartz Hill/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ gneiss/ schist/ pegmatite/ Front Range/

Armstrong, F. C., 1954
uranium/ resources/ "porphyry" uranium deposits/ ore deposits/ igneous-metamorphic/ uraninite/ Rossing/

Armstrong, F. C., 1975
uranium/ distribution/ granite/ igneous-metamorphic/ Colorado/

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New Mexico/ reconnaissance/ Huerfano County/ sandstone/ volcanics/ igneous-metamorphic/ shale/ Colorado/

Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Bain, H. F., 1914
Idaho Springs/ Clear Creek County/ springs/ radium/ Front Range/ igneous-metamorphic/

Baker, K. E., 1953
uranium/ Ralston Creek mine/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ Front Range/

Baitz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/

Baitz, E. H., Jr., 1955
Colorado/ New Mexico/ Huerfano Park/ Spanish Peaks/ ore deposits/ exploration/ Huerfano County/ sandstone/ volcanic/ igneous-metamorphic/

Banks, P. O., and Silver, L. T., 1964
Front Range/ ore deposits/ isotopes/ age determination/ uranium/ igneous-metamorphic/ Gilpin County/ Larimer County/ pitchblende/ bostonite/ Central City district/

Barker, Fred, 1969
geology/ Needle Mountains/ igneous-metamorphic/ San Juan County/ petrology/ Precambrian/

Bastin, E. S., 1915
ore deposits/ pitchblende/ veins/ geology/ uranium/ Gilpin County/ Quartz Hill/ Wood mine/ Front Range/ igneous-metamorphic/

821
IGNEOUS-METAMORPHIC

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Gilpin County/ ore deposits/ pitchblende/ uranium/ resources/ structure/ abundance/ veins/ economic geology/ igneous-metamorphic/ uranium/ Front Range/

Bastin, E. S., and Hill, J. M., 1915
Gilpin County/ igneous-metamorphic/ Boulder County/ Quartz Hill/ gold/ silver/ uranium/ copper/ tungsten/ Front Range/ ore deposits/ Clear Creek County/

Bastin, E. S., and Hill, J. M., 1915
economic geology/ Gilpin County/ Central City district/ Hill/ uranium/ pitchblende/ bostonite porphyry/ igneous-metamorphic/ Front Range/

Becke, F., 1909
Gilpin County/ Bald Mountain/ ore deposits/ pitchblende/ mineral assemblages/ Kirk mine/ igneous-metamorphic/ Front Range/

Berloni, E. P., and McKeown, F. A., 1952
reconnaissance/ marine black shales/ geology/ sandstone/ Entrada Sandstone/ Curtis Formation/ igneous-metamorphic/ Skull Creek district/ Bozo claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ carnotite/ uraniumite/ spring deposits/ migmatite/ granite/ Colorado/ Wyoming/ Utah/

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Jamestown district/ Boulder County/ fluorite deposits/ Argo mine/ Blue Jay mine/ Burlington mine/ Emmett mine/ General Chemical fluorite deposit/ igneous-metamorphic/ radioactivity/ ore deposits/ Front Range/ Williamson fluorite deposit/

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biogeochemistry/ vanadium/ rocks/ sediments/ water/ soil/ coal/ Jamestown district/ Front Range/ Gilpin County/ igneous-metamorphic/ plants/ animals/ oil/ asphalt/ Clear Creek County/

Dever, J. E., 1952
Park County/ Fremont County/ igneous-metamorphic/ geology/ petrology/ Guffey-Micanite region/

Bieniewski, C. L., Persse, F. H., and Brauch, E. F., 1971
Colorado Plateau/ Rifle district/ Front Range/ Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/

Bird, A. G., 1956
Ralston Creek mine/ pitchblende/ ore deposits/ Schwartzwalder mine/ igneous-metamorphic/ Front Range/ Jefferson County/

Bird, A. G., 1957
Golden Gate Canyon area/ Ralston Creek area/ uranium/ Front Range/ pitchblende/ Idaho Springs Formation/
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geology/ Mount Tyndall quadrangle/ Custer County/ thorium/ igneous-metamorphic/ ore deposits/ Wet Mountains/

Brown, Andrew, 1961

Brown, H., and Silver, L. T., 1956
evolution/ processing/ low grade ores/ distribution/ igneous-metamorphic/ uranium/ thorium/ igneous rocks/ reserves/ resources/

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/ granite/ sandstone/ conglomerate/ Tertiary volcanics/

Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek-Victor district/

uranium/ ore deposits/ minerals/ aerial prospecting/ reconnaissance/ geology/ South Park/ Park County/ Garro district/ Igneous-metamorphic/ Tertiary/ Precambrian/ trachyte/ granite/ sandstone/

Buck, K. L., 1955
bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

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ore deposits/ bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/ Dolores County/ radioactivity/ reconnaissance/ San Juan Mountains/ igneous-metamorphic/ Colorado Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/ Ouray County/ San Miguel County/ Gunnison County/ Dolores County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ veins/ San Juan County/

San Juan Mountains/ San Miguel County/ Dolores County/ Placerville district/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ ore deposits/ igneous-metamorphic/ Colorado Plateau/ veins/ geology/

San Juan Mountains/ ore deposits/ Gray head quadrangle/ San Miguel County/ uranium/ vanadium/ granodiorite/ Placerville district/ Pony Express Limestone Member/ sandstone/ limestone/ Colorado Plateau/ igneous-metamorphic/ uranium/ thorium/ rare earths/ Colorado Plateau/ uranium/ vanadium/ selenium/ ore deposits/ Colorado Plateau/ San Juan County/ La Plata County/ Dolores County/ sandstone/ veins/

San Juan Mountains/ Entrance Sandstone/ sandstone/ veins/ igneous-metamorphic/ Colorado Plateau/ ore deposits/

San Juan Mountains/ uranium/ vanadium/ Placerville district/ San Miguel County/ Entrance Sandstone/ sandstone/ veins/ ore deposits/ Colorado Plateau/ San Juan County/ Lake County/ San Miguel County/ Gunnison County/

Butler, A. P., Jr., 1947
thorium/ resources/ Front Range/ igneous-metamorphic/ uranium/ resources/ Front Range/ Colorado Plateau/ Gunnison County/ Ouray County/ San Juan County/ Dolores County/ Gunnison County/ igneous-metamorphic/ sandstone/ conglomerate/ Tertiary volcanics/ igneous-metamorphic/ arkose/ water/ igneous-metamorphic/ sandstone/

Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

Butler, A. P., Jr., 1956
Canyon City/ La Plata County/ Colorado Plateau/ ore deposits/ investigations/ Colorado Plateau/
IGNEOUS-METAMORPHIC

Front Range/ sandstone/ igneous-metamorphic/ radioactive raw materials/ costs/

map/ uranium/ Colorado/ United States/ epigenetic deposits/ ore deposits/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnitite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Campbell, R. H., 1953
Gold Hill district/ Boulder County/ zoning/ igneous-metamorphic/ Black Cloud mine/ pitchblende/ reconnaissance/ Front Range/ ore deposits/

Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/ petrology/ geochemistry/ breccia reefs/ zoning/ Front Range/ pitchblende/ schroekingerite/ torbernite/ Black Cloud mine/ Goldsmith Maid vein/ Snowbound mine/ reconnaissance/ veins/ igneous-metamorphic/

Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/ petrology/ geochemistry/ breccia reefs/ zoning/ Front Range/ veins/ pitchblende/ schroekingerite/ torberinite/ Black Cloud mine/ Goldsmith Maid vein/ Snowbound mine/ reconnaissance/ veins/ igneous-metamorphic/

Campbell, R. H., and Schafer, M., 1953
Gilpin County/ mineralogy/ petrology/ geochemistry/ zoning/ Front Range/ uraninite/ Elliot mine/ reconnaissance/ radioactive materials/ igneous-metamorphic/

Cannon, H. L., 1957
Colorado Plateau/ ore deposits/ exploration/ vegetation/ Indicator plants/ Utah/ botanical prospecting/ geobotany/ Colorado/ sandstone/ geochemistry/ Marshall Pass/ Saguache County/ Lookout No. 22 claim/ uraninite/ igneous-metamorphic/ Astragalus/ botanical studies/

Cannon, R. S., Jr., 1952
isotope geology/ uranium/ thorium/ decay products/ Colorado Plateau/ Front Range/ Morrison Formation/ sandstone/ igneous-metamorphic/

Carter, W. D., and Gaultleri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

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anomalies/ gravity surveys/ aeromagnetic surveys/ uranium/ ore deposits/ Colorado mineral belt/ Park County/ Lake County/ Park Range/ sandstone/ Colorado Plateau/ geophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ igneous-metamorphic/

Chapman, J. J., 1948
geology/ Clear Creek area/ Golden Gate Canyon area/ Jefferson County/ igneous-metamorphic/ Front Range/

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uranium/ ore deposits/ geology/ classifications/ Canada/ sandstone/ igneous-metamorphic/ Colorado/ Colorado Plateau/ United States/

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thermal luminescence/ radioactive minerals/ limestone/ ore deposits/ limestone/ Gilman district/ ore guides/ hydrothermal alteration/ Eagle County/ Puerto Rico limestone/ igneous-metamorphic/

Wet Mountains/ ore deposits/ exploration/ Custer County/ thorium/ Fremont County/ Pueblo County/ veins/ igneous-metamorphic/

Wet Mountains/ Haputa Ranch/ Sliver Cliff district/ McKinley Mountain area/ Rosita district/ Tuttle Ranch/ Westcliff area/ Custer County/ Fremont County/ Pine Tree claim/ stratigraphy/ ore deposits/ structure/ Precambrian rocks/ rare earths/ veins/ thorium/ igneous-metamorphic/

Wet Mountains/ ore deposits/ thorium/ Custer County/ Fremont County/ veins/ igneous-metamorphic/ rare earths/ Pueblo County/

Wet Mountains/ ore deposits/ resources/ production/ geology/ thorium/ Custer County/ Pueblo County/ Fremont County/ veins/ igneous-metamorphic/

veins/ thorium/ Wet Mountains/ Custer County/ thorite/ shear zones/ metamorphic rocks/ ore deposits/ igneous-metamorphic/

824
Christman, R. A., Heyman, A. M., and others, 1953
thorium/ reconnaissance/ Wet Mountains/ Fremont
County/ Custer County/ igneous-metamorphic/ exploration/ veins/ ore deposits/
Christman, R. A., Heyman, A. M., Delwiga, L. F.,
and others, 1953
drilling/ analyses/ igneous-metamorphic/ Wet
Mountains/ structure/ geology/ mineralogy/ Custer
County/ Fremont County/ Hopata Ranch/ Tuttle
Ranch/ stratigraphy/ Precambrian rocks/ thorium/
rare earths/ ore deposits/ veins/ Atomic Mountain
group/ Barite lode/ thorite/ Big Chief I claim/ Darby extension/
Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/
Gunnison County/ Pitkin County/ Lake County/
Park County/ Chaffee County/ Ouray County/ Saguache
County/ Hinsdale County/
Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/
Cenozoic/ genesis/ igneous-metamorphic/ Gunnison
County/ Pitkin County/ Lake County/ Park County/
Chaffee County/ Ouray County/ Saguache County/
Hinsdale County/
Cole, S. S., and Breitenstein, J. S., 1951
vanadium/ processing/ recovery/ titaniferous
magnetite/ igneous-metamorphic/
Collins, G. E., 1909
ore deposits/ milling/ vanadium/ uranium/ veins/
Glimp County/ Belcher mine/ Quartz Hill district/
Wood vein/ Kirk vein/ German vein/ pitchblende/
Front Range/ igneous-metamorphic/
Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose
County/ pitchblende/ igneous-metamorphic/ Glimp
County/ mining/ Colorado Plateau/ Front Range/
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minerals/ water/ resources/ Colorado/ uranium/
thorium/ Colorado Plateau/ Front Range/ sandstone/
igneous-metamorphic/
Conroy, A. R., 1960
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County/ thorium/ igneous-metamorphic/
Cooper, Margaret, 1953
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sandstone/ radioactive occurrences/ ore deposits/
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Cooper, Margaret, 1954
Colorado/ Utah/ bibliography/ uranium/ thorium/
sandstone/ radioactive occurrences/ ore deposits/
Colorado Plateau/ Front Range/ igneous-metamorphic/
Cross, C. W., 1915
Pueblo County/ Las Animas County/ Huerfano County/
petrology/ dike rocks/ igneous-metamorphic/
Apishapa quadrangle/
Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/
Precambrian/ San Juan Mountains/ Montrose County/
Gunnison County/ igneous-metamorphic/ sandstone/
Colorado Plateau/ geology/
Cross, C. W., and Larsen, E. S., 1935
geology/ San Juan region/ igneous-metamorphic/
ore deposits/ alkaline complex/ thorium/ Iron
Hill/ Powderhorn area/ Gunnison County/
Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/
Glimp County/ Wood mine/ Montrose County/ sandstone/
pitchblende/ San Miguel County/ Mesa County/
Dolores County/ Routt County/ Paradox Valley/
Rio Blanco County/ Utah/ Australia/ Front Range/
igneous-metamorphic/
Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/
history/ Glimp County/ Wood mine/ Montrose
County/ Colorado Plateau/ sandstone/ pitchblende/
Mesa County/ Dolores County/ Routt County/ Rio
Blanco County/ Paradox Valley/ Utah/ Australia/
Front Range/ igneous-metamorphic/
Curtis, Diane, 1956
bibliography/ annotated/ uranium/ geology/ United
States/ igneous-metamorphic/ Colorado/ Colorado
Plateau/ Front Range/
Dahlem, D. H., 1965
geology/ Lookout Mountain area/ Fremont County/
alkaline complex/ petrology/ McClure Mountains/
igneous-metamorphic/
Damon, P. E., Green, W. D., Halva, C. J., and others,
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correlation/ chronology/ ore deposits/ volcanic
rocks/ igneous-metamorphic/
De Voto, R. H., 1976
geologic environments/ sandstone/ igneous-metamorphic/
uranium/ ore deposits/ environments of formation/
geology/
Decker, E. R., 1969
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heat flow/ Colorado/ New Mexico/ Summit County/
Jefferson County/ Clear Creek County/ La Plata
County/ igneous-metamorphic/ Roberts tunnel/
Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado
Plateau/ San Miguel County/ Montrose County/
Mesa County/ Front Range/ Jefferson County/
Fremont County/ sandstone/ igneous-metamorphic/
Moffal County/
Dellwig, L. F., 1951
Willis Tuttle ranch/ Greenwood thorium property/
thorium/ rare earths/ ore deposits/ Wet Mountains/
Denson, M. E., Jr., 1956
Custer County/ Fremont County/ igneous-metamorphic/ alkaline rocks/

Dellwig, L. F., and Gott, G. B., 1951
Custer County/ rare earth minerals/ shear zone material/ veins/ Haputa Ranch/ ore deposits/ Wet Mountains/ thorium/ thorite/ fault breccia/ igneous-metamorphic/

Denson, M. E., Jr., 1956
ore deposits/ exploration/ geophysics/ geochemistry/ Colorado/ Front Range/ South Dakota/ Wyoming/ uranium/ thorium/ geology/ Jefferson County/ igneous-metamorphic/

hydrogeochemistry/ volcanics/ ground water/ springs/ surface water/ exploration guides/ evaluation/ exploration/ uranium/ Wyoming/ South Dakota/ igneous-metamorphic/ ore deposits/

hydrogeochemistry/ volcanics/ ground water/ springs/ surface water/ exploration guides/ evaluation/ exploration/ uranium/ Wyoming/ South Dakota/ igneous-metamorphic/ ore deposits/

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Cherokee mine/ ore deposits/ Queen Mineral Ranch/ Gilpin County/ veins/ igneous-metamorphic/ pitchblende/ Precambrian rocks/ quartz-biotite schist/ schistose gneiss/ pegmatite/ drilling/ Front Range/

Denszay, R. C., 1956
Los Ochos mine/ ore deposits/ Saguache County/ veins/ uranium/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ igneous-metamorphic/ thorium/

Denszay, R. C., 1956
veins/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ Los Ochos mine/ uranium/ Saguache County/ igneous-metamorphic/ ore deposits/ thorium/

Denszay, R. C., and Baker, K. E., 1955
Copper King mine/ ore deposits/ exploration/ Larimer County/ igneous-metamorphic/ veins/ pitchblende/ Precambrian rocks/ granite/ schist/ pegmatite/ copper/ zinc/ uranium/ Front Range/

Denszay, R. C., and Bird, A. G., 1976
economic geology/ ore deposits/ uranium/ Ralston Creek area/ Jefferson County/ igneous-metamorphic/ Front Range/

Dings, M. G., 1952
Glacier Mountain area/ Tiptop Peak/ Summit County/ General Teller mine/ reconnaissance/ radioactive materials/ mining districts/ igneous-metamorphic/ Montezuma area/ ore deposits/

Dings, M. G., 1952
Garfield quadrangle/ Taylor Park quadrangle/ Chaffee County/ Gunnison County/ Bon Ton mine/ Little Jimmie prospect/ Madonna mine/ Silent Friend mine/ reconnaissance/ radioactive materials/ mining districts/ fault breccia/ shear zone material/ ore deposits/ veins/ igneous-metamorphic/ geology/

Dings, M. G., 1953
Glacier Mountain area/ Summit County/ ore deposits/ reconnaissance/ radioactive materials/ mining districts/ Montezuma area/ veins/ General Teller prospect/ igneous-metamorphic/

Dings, M. G., and Robinson, C. S., 1952
gEOLOGY/ ore deposits/ Quartz Creek district/ Gunnison County/ Tin Cup district/ production/ igneous-metamorphic/ Garfield quadrangle/ Chaffee County/

Dings, M. G., and Robinson, C. S., 1957
gEOLOGY/ ore deposits/ Gunnison County/ Chaffee County/ production/ volcanic rocks/ Quartz Creek district/ Tin Cup district/ Garfield quadrangle/ igneous-metamorphic/

Dings, M. G., and Schafer, Max, 1953
veins/ Garfield quadrangle/ Taylor Park quadrangle/ igneous-metamorphic/ geology/ ore deposits/ Gunnison County/ Chaffee County/ Mount Antero region/ Bon Ton mine/ Madonna mine/ brannerite/ black (marine carbonaceous) shales/ pegmatites/ reconnaissance/ radiometrics/ Silent Friend mine/

Dings, M. G., Robinson, C. S., and Brock, M. R., 1952
Garfield quadrangle/ Chaffee County/ Gunnison County/ igneous-metamorphic/ geology/ ore deposits/

chronology/ age dating/ uranium/ thorium/ lead/ zircons/ granite/ Chaffee County/ Gunnison County/ analyses/ St. Kevin granite/ igneous-metamorphic/ Sawatch Range/

Dooley, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ igneous-metamorphic/

Downs, G. R., and Bird, A. G., 1965
Jefferson County/ Schwartzwalder mine/ ore deposits/ genesis/ production/ reserves/ pitchblende/ veins/ igneous-metamorphic/ Front Range/

Drake, A. A., Jr., 1955
ore deposits/ Wood mine/ Central City district/ pitchblende/ Gilpin County/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Front Range/

Drake, A. A., Jr., 1955
Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ geology/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/
IGNEOUS-METAMORPHIC

Calhoun mines/ Wood mine/ production/ veins/ Precambrian rocks/ Quartz Mill vein/ Wood vein/ Willowdale vein/ paragenesis/ alteration/ bostonite porphyry/ Clear Creek County/

Drake, A. A., Jr., 1957
veins/ Precambrian rock/ bostonite porphyry/ pitchblende/ production/ Central City district/ Gilpin County/ structure/ geology/ Wood-East Calhoun area/ igneous-metamorphic/ East Calhoun mine/ Clear Creek County/ mineralogy/ Front Range/ Wood mine/

Dunn, J. E., 1957
Marshall Pass/ ore deposits/ Saguache County/ uranium/ Gunnison County/ Chester fault/ Harding Sandstone/ igneous-metamorphic/ pegmatite/ limestone/ Belden Formation/ Leadville Limestone/

Ekren, E. B., 1949
geology/ ore deposits/ La Plata district/ economic geology/ production/ Montezuma County/ La Plata County/ igneous-metamorphic/ sandstone/

Ekren, E. B., 1961
description/ minerals/ Colorado/ uranium/ vanadium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

Edwards, C. L., Reiter, M. A., and Shearer, C., 1975
heat flow/ radioactivity/ crustal/ New Mexico/ Colorado/ volcanism/ igneous-metamorphic/ Las Animas County/

Ekren, E. B., 1955
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ Montezuma County/ sandstone/ Salt Wash Member/ Entrada Sandstone/ uranium/ vanadium/ Sentinel Peak NW quadrangle/ geology/ map/ ore deposits/ Morrison Formation/ Colorado Plateau/ igneous-metamorphic/

Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/

Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ ore deposits/ porphyry/ petrology/

Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ Montezuma County/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ stratigraphy/ conglomerate/ Entrada Sandstone/ Colorado Plateau/ Montezuma County/

Ekren, E. B., and Houser, F. N., 1959
Ute Mountains/ Montezuma County/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Colorado Plateau/ igneous-metamorphic/ uranium/ vanadium/ Sentinel Peak NW quadrangle/ map/ geology/

Ekren, E. B., and Houser, F. N., 1965
geology/ petrology/ Ute Mountains/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ vanadium/ economic geology/ Salt Wash Member/ Entrada Sandstone/ ore deposits/ igneous-metamorphic/

Elmore, R. T., 1955
Gunnison County/ Jack's Cabin prospect/ sedimentary rocks/ igneous-metamorphic/ sandstone/ veins/

Epis, R. C., and Chapin, C. E., 1974
stratigraphy/ Thirty nine Mile volcanic field/ Summit County/ Fremont County/ stratigraphic nomenclature/ igneous-metamorphic/

Epstein, Samuel, 1969

Evans, R. D., and Goodman, C., 1941
radioactivity/ rocks/ Colorado/ uranium/ thorium/ radium/ analyses/ igneous-metamorphic/ sedimentary/ sandstone/

Everhart, D. L., 1949
veins/ geologic environments/ geology/ uranium/ igneous-metamorphic/ sandstone/

Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnottite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadian Shield/

Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/

Everhart, D. L., 1954
classifications/ genesis/ uranium/ ore deposits/ sandstone/ igneous-metamorphic/
Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

Everhart, D. L., and Wright, R. J., 1951
veins/ pitchblende/ paragenesis/ igneous-metamorphic/ Colorado/

Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/

Fenton, M. D., and Faure, G., 1970
Gunnison County/ Iron Hill complex/ Rb-Sr/ age determinations/ carbonatite/ alkaline complexes/ thorium/ Fremont County/ igneous-metamorphic/ McClure Mountain complex/

Ferris, C. S., and Bennett, N., 1977
geochemistry/ exploration/ Ladwig mine/ Jefferson County/ Front Range/ igneous-metamorphic/ gneiss/ schist/ Schwartzwalder mine/ molybdenum/

Ferris, C. S., and Rund, C. O., 1971
brannerite/ occurrence/ recognition/ microprobe/ igneous-metamorphic/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Finch, W. I., 1973
uranium/ thorium/ environment/ resources/ deposit types/ prospecting techniques/ production/ ore deposits/ exploration/ sandstone/ igneous-metamorphic/

Finch, W. I., Butler, A. P., Jr., Armstrong, F. C., and others, 1973
uranium/ geology/ ore deposits/ resources/ sandstone/ igneous-metamorphic/

Fischer, R. P., 1936
copper/ vanadium/ uranium/ silver/ ore deposits/ sedimentary deposits/ veins/ hydrothermal/ sandstone/ igneous-metamorphic/ Entrada Sandstone/ San Miguel County/ Colorado/ Utah/ Colorado Plateau/

Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/

Fischer, R. P., 1955
uranium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

Fischer, R. P., Burbank, W. S., Cannon, H. L., and others, 1946
Colorado/ mineral deposits/ map/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/ ore deposits/

mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/

brockite/ thorium/ Wet Mountains/ Chemical properties/ igneous-metamorphic/ crystal chemistry/ Bassick mine/ Custer County/ phosphate/ ore deposits/

Fisher, J. C., 1976
remote sensing/ exploration/ veins/ ore deposits/ Front Range/ igneous-metamorphic/

Fix, P. F., 1954
Colorado Plateau/ natural waters/ streams/ snow/ ground water/ San Juan Mountains/ San Juan County/ Ouray County/ acid tuff/ igneous-metamorphic/ Front Range/ Colorado Plateau/ surface water/

Fleck, Herman, 1908
pitchblende/ Gilpin County/ igneous-metamorphic/ uranium/ vanadium/ ore deposits/ Placerville district/ sandstone/ San Miguel County/ Front Range/ rare metals/ Entrada Sandstone/

Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/
Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/ vanadium/ Placer ville district/ San Miguel County/ rare metals/ uranium/ Entrada Sandstone/ sandstone/ igneous-metamorphic/ Front Range/ Colorado Plateau/

Fleck, Herman, 1909
ore deposits/ uranium/ vanadium/ Colorado/ sandstone/ Colorado Plateau/ Front Range/ igneous-metamorphic/

Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/ molybdenum/ vanadium/ uranium/ Colorado Plateau/ Placerville district/ San Miguel County/ sandstone/ Front Range/ Gilpin County/ igneous-metamorphic/

Fleischer, Michael, 1953
abundances/ elements/ estimates/ uranium/ vanadium/ sandstone/ igneous-metamorphic/

Fleischer, Michael, and Harder, J. O., 1945
nickelium/ tantalum/ minerals/ annotated bibliography/ pegmatites/ placers/ uranium/ mineralogy/ Layden coal mine/ Jefferson County/ coal/ quartz-carnotite veins/ indium/ sandstone/ veins/ igneous-metamorphic/

Fraser, G. D., 1948
Coal Creek Quartzite/ igneous-metamorphic/ Jefferson County/ Boulder County/ Front Range/

Gabelman, J. W., 1948
gold/ Golden Gate area/ Van Bibber Creek area/ Jefferson County/ igneous-metamorphic/ Front Range/

Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/ pitchblende/ radium/ vanadium/ Colorado Plateau/ Front Range/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ Moffat County/ Jefferson County/ sandstone/ igneous-metamorphic/ shale/

Gable, D. J., 1968
gold/ crystalline rocks/ Morrison quadrangle/ Jefferson County/ igneous-metamorphic/ Front Range/

Gable, D. J., 1969
gold/ Nederland quadrangle/ Boulder County/ Gilpin County/ igneous-metamorphic/ ore deposits/ Caribou district/ veins/ map/ Caribou mine/ Front Range/

Gallagher, G. L., 1976
Badger Flats area/ Elkhorn thrust area/ Park County/ Teller County/ Precambrian rocks/ ore deposits/ Front Range/ uranium favorability/ igneous-metamorphic/

Gallagher, G. L., Edmond, C. L., and D'Andrea, R. F., 1977
uranium favorability/ Gunnison County/ ore deposits/ igneous-metamorphic/

George, D'Arcy, 1949
uranium/ thorium/ mineralogy/ hypogene/ supergene/ rare earth minerals/ chemistry/ pegmatites/
Gow, T. T., 1914
basalt/ Table Mountain/ igneous-metamorphic/Jefferson County/ Conejos County/ Rio Grande County/ Gilmore/ Front Range/ radioactivity/

Granger, H. C., and Beroni, E. P., 1950
Jefferson County/ Cook property/ igneous-metamorphic/ reconnaissance/ Front Range/

Granger, H. C., and King, R. U., 1950
Larimer County/ Copper King mine/ Copper King shaft/ Black Hawk claim no. 1/ pitchblende/ analyses/ igneous-metamorphic/ data/ Front Range/ uranium/

Granger, H. C., and King, R. U., 1951
Larimer County/ pitchblende/ Copper King mine/ Black Hawk no. 1 claim/ igneous-metamorphic/ pitchblende/ geology/ analyses/ Front Range/

Grogan, R. M., 1959
Gunnison County/ Iron Hill/ Powderhorn/ carbonatite/ minerals/ thorium/ niobium/ igneous-metamorphic/

Grogan, R. M., 1960
niobium/ Gunnison County/ Powderhorn/ Iron Hill/ igneous-metamorphic/ carbonatite/ minerals/ thorium/

Gross, E. B., 1965
pitchblende/ Gunnison County/ ore deposits/ geology/ production/ geochemistry/ mineralogy/ uranium minerals/ Marshall Pass/ Saguaque County/ igneous-metamorphic/

Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ igneous-metamorphic/

Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/

Guillotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamstown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek pegmatites/ Clear Creek County/ carnolite/
IGNEOUS-METAMORPHIC

Harrison, J. E., 1952
Clear Creek County/ ore deposits/ Front Range/ Spring Gulch/ Lawson-Dumont district/ pegmatite/ granite/ schist/ minerals/ autunite/ metatorbernite/ pitchblende/ Martha E prospect/ igneous-metamorphic/ Idaho Springs area/

Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/ Colorado/ Clear Creek County/ igneous-metamorphic/ veins/ Gilpin County/ thorium/ hypogene zoning/ Front Range/

Harrison, J. E., 1955
 fracture patterns/ Freeland-Lamartine district/ Clear Creek County/ igneous-metamorphic/ Gilpin County/ veins/ thorium/ hypogene zoning/ Front Range/

Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont district/ pitchblende/ Jo Reynolds mine/ veins/ stratigraphy/ Idaho Springs Formation/ Precambrian rocks/ igneous-metamorphic/ structure/ ore deposits/ geology/ metamorphic rocks/ bostonite porphyry/ economic geology/

Hedge, C. E., Peterman, Z. E., Case, J. E., and others, 1968
Precambrian rocks/ geochronology/ Uncompahgre Plateau/ Mesa County/ igneous-metamorphic/ Utah/ Colorado Plateau/

Hedlund, D. C., and Olson, J. C., 1958
Gunnison County/ ore deposits/ thorium/ veins/ Gateview quadrangle/ igneous-metamorphic/ geology/

Hedlund, D. C., and Olson, J. C., 1961
thorium/ rare earths/ niobium/ Powderhorn district/ Colorado/ Gunnison County/ igneous rocks/ carbonatite/ monazite/ pyrochlore/ veins/ thorite/ dikes/ igneous-metamorphic/ minerals/ ore deposits/ geology/

Hedlund, D. C., and Olson, J. C., 1973
Gunnison County/ Carpenter Ridge quadrangle/ igneous-metamorphic/ thorium/ map/ geology/ ore deposits/ Black Canyon Schist/

Hedlund, D. C., and Olson, J. C., 1974
Gunnison County/ Saguache County/ igneous-metamorphic/ thorium/ Iris NW quadrangle/ map/ geology/ ore deposits/ thorium/ Alkali Lake Valley Map/ geology/ ore deposits/ thorium/ map/ niobium/ carbonatite/ alkaline rocks/ Saguache County/

Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison County/ production/ thorium/ Fremont County/ Custer County/ igneous-metamorphic/

Heinrich, E. W., 1948
pegmatites/ thorium/ rare earth minerals/ Chaffee County/ Fremont County/ monazite/ igneous-metamorphic/ ore deposits/ fluorite/

Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South Platte area/ Douglas County/ Telluride County/ Park County/ igneous-metamorphic/ mineralogy/ analyses/ rare earth minerals/
IGNEOUS-METAMORPHIC

Heinrich, E. W., and Bever, J. E., 1957
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/

Heinrich, E. W., and Dahlem, D. H., 1957
Brown Derby pegmatites/ pegmatite/ Gunnison County/ monazite/ thorium/ igneous-metamorphic/ mineralogy/ niobium (columbite)/ stibiotantalite/

Heinrich, E. W., and Dahlem, D. H., 1966
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/ carbonatite/ Arkansas River Canyon area/

Heinrich, E. W., and Dahlem, D. H., 1967
carbonatites/ alkalic rocks/ Fremont County/ McClure Mountain/ Iron Mountain/ geology/ petrography/ genesis/ igneous-metamorphic/ Arkansas River area/

Heinrich, E. W., and Dahlem, D. H., 1967
carbonatites/ alkalic rocks/ Fremont County/ McClure Mountain/ Iron Mountain/ geology/ petrography/ genesis/ igneous-metamorphic/ Arkansas River area/

Heinrich, E. W., and Dahlem, D. H., 1970
Fremont County/ igneous-metamorphic/ dikes/ Iron Mountain alkalic complex/ alkalic rocks/ McClure Mountain alkalic complex/

Heinrich, E. W., and Reuss, R. L., 1969
Fremont County/ Custer County/ igneous-metamorphic/ petrology/ carbonatites/ Gem Park/ gabbro/ intrusives/

Heinrich, E. W., and Shappirio, J. R., 1966
alkaline rocks/ carbonatites/ Arkansas River Canyon/ Iron Mountain/ McClure Mountain/ geology/ mineralogy/ petrology/ amethyst carbonatites/ Fremont County/ igneous-metamorphic/

thorium/ pegmatites/ monazite/ Colorado/ Brown Derby mine/ igneous-metamorphic/ analyses/ Gunnison County/ rare earth minerals/

Heyse, J. V., 1971
uranium/ mineralogy/ petrology/ Schwartzwalder mine/ Jefferson County/ age estimation/ emission spectroscopy/ uranium/ ore deposits/ Front Range/ geochemistry/ igneous-metamorphic/ paragenesis/ pitchblende/

Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/

Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/

Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/
Kaiser, E. P., King, R., 1952
uranium/ exploration/ Gilman district/ Eagle County/ Lake County/ Summit County/ igneous-metamorphic/

International Atomic Energy Agency, 1970
uranium/ exploration/ geology/ ore deposits/ United States/ sandstone/ igneous-metamorphic/

International Atomic Energy Agency, 1974
uranium/ ore deposits/ genesis/ United States/ sandstone/ igneous-metamorphic/

Irving, J. D., and Bancroft, H., 1911
geology/ ore deposits/ igneous-metamorphic/ Hinsdale County/ San Juan Mountains/ production/ volcanic rocks/ Lake City area/

geology/ map/ Hot Sulphur Springs SE quadrangle/ quartz monzonite/ igneous-metamorphic/ Grand County/ Middle Park Formation/ siltstone/ sandstone/ conglomerate/ arkose/ Lucky Jack mine/ Precambrian rocks/

Izett, G. A., Denson, N. M., and Obradovich, J. D., 1970
Brown's Park Formation/ sandstone/ Moffat County/ volcanic rocks/ igneous-metamorphic/ K-Ar age dating/ stratigraphy/ Colorado Plateau/

Jensen, F. S., 1957
Fremont County/ Tallahassee Creek district/ ore deposits/ uranium/ sandstone/ arkose/ volcanic detritus/ igneous-metamorphic/ Dickson-Snooper mine/ Sunshine mine/

Kaiser, E. P., and Page, L. R., 1952
ore deposits/ Colorado/ uranium/ United States/ sandstone/ Front Range/ igneous-metamorphic/ Colorado Plateau/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

Keevil, N. B., 1941
uranium/ exploration/ Gilman district/ Eagle County/ ore deposits/ radioactive aureoles/ veins/ igneous-metamorphic/

Keevil, N. B., 1941
ore deposits/ resources/ production/ uranium/ exploration/ Gilman district/ Eagle County/ igneous-metamorphic/ veins/ radioactive aureoles/

Keevil, N. B., 1942
radioactive aureoles/ ore deposits/ uranium/ exploration/ Gilman district/ Eagle County/ igneous-metamorphic/ veins/

Kelly, F. N., 1962
Thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/

Kerr, P. F., 1950
uraninite/ Canada/ Idaho/ Lake Superior/ Caribou mine/ Wood's Hole/ Colorado/ Radium vein/ Boulder County/ igneous-metamorphic/ Front Range/ mineralogy/ veins/ ore deposits/

Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/

Kerr, P. F., 1956
uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ igneous-metamorphic/

Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/

Kerr, P. F., and Jacobs, M. B., 1964
Colorado Plateau/ ore deposits/ mineralization/ alteration/ argillization/ clay/ genesis/ sandstone/ uranium/ siltstone/ igneous-metamorphic/

Kerr, P. F., Anderson, T. P., and Hamilton, Peggy-Kay, 1951
veins/ Bellevue-Rochester mine/ igneous-metamorphic/ Clear Creek County/ alteration/ Front Range/ geology/

King, R. U., 1950
Boulder County/ pitchblende/ veins/ igneous-metamorphic/ Precambrian rocks/ Caribou mine/ geology/ ore deposits/ No Name vein/ Radium vein/ silver/ uranium/ lead/ zinc/ analyses/ Front Range/

King, R. U., 1950
Gilpin County/ Apex claims/ Bates Creek/ Front Range/ ore deposits/ geology/ igneous-metamorphic/
King, R. U., 1950
Central City district/ Gilpin County/ pitchblende/ Wood mine/ igneous-metamorphic/ Front Range/ ore deposits/ geology/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., 1951
Lawson area/ Clear Creek County/ Jo Reynolds mine/ minerals/ pitchblende/ Precambrian rocks/ veins/ igneous-metamorphic/ ore deposits/ geology/ schist/ granite/ Elida tunnel/ Front Range/

King, R. U., 1951
Wood mine/ ore deposits/ pitchblende/ Gilpin County/ igneous-metamorphic/ Front Range/ Central City district/ geology/

King, R. U., 1952
ore deposits/ Boulder County/ Caribou mine/ veins/ No Name vein/ Radium vein/ uranium/ geology/ igneous-metamorphic/ Front Range/ pitchblende/

King, R. U., 1952
uranium/ veins/ Caribou mine/ Boulder County/ Front Range/ igneous-metamorphic/ pitchblende/ ore deposits/ geology/

King, R. U., 1953
reconnaissance/ Front Range/ igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/

King, R. U., 1954
ore deposits/ exploration/ veins/ Ralston Creek district/ Jefferson County/ Copperdale/ Lake George/ Park County/ geology/ igneous-metamorphic/ Front Range/

King, R. U., and Beroni, E. P., 1953
igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/

King, R. U., and Granger, H. C., 1952
Clear Creek County/ torbernite/ George Peabody claim/ Little MacGregor claim/ Robineau claims/ Front Range/ granite/ pegmatites/ veins/ Little Mac claim/ ore deposits/ geology/ igneous-metamorphic/

King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/
Klepper, M. R., and Wyant, D. G., 1956
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IGNEOUS-METAMORPHIC

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zones/

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district/ age determination/ Front Range/ Cotopaxi/
Gold Hill/ Guffey/ Laramie/ isotopes/ Lawrence-Dumont/
Silver Plume/ El Paso County/ mineralogy/ petrology/
geochemistry/ galena/ Summit County/ Boulder
County/ Clear Creek County/ Gilpin County/
Front Range/ igneous-metamorphic/ isotopic variation/
igneous-metamorphic/

Phair, George, and Onoda, Kiyoko, 1950
Boulder County/ Jamestown district/ ore deposits/
mineralogy/ petrology/ geochemistry/ uranium/
mine/ igneous-metamorphic/ Blue Jay mine/ igneous-metamorphic/ Front Range/
fluorite/ veins/ fluorite breccias/

Phair, George, and Onoda, Kiyoko, 1951
Jamestown district/ Silver Plume/ ore deposits/
hydrothermal uraninite/ fluorite breccias/
mineralogy/ petrology/ geochemistry/ thorium/
haloes/ Blue Jay mine/ igneous-metamorphic/
Front Range/

Phair, George, and Shimamoto, K. C., 1952
uraninite/ hydrothermal uraninite/ Blue Jay mine/
Jamestown district/ Boulder County/ thin sections/
heavy minerals/ New Zealand/ Alaska/ comparisons/
fluorite breccias/ mineralogy/ petrology/ geochemistry/
haloes/ Front Range/ igneous-metamorphic/

Phair, George, and Shimamoto, K. C., 1953
Front Range/ ore deposits/ mineralization/ igneous-metamorphic/
petrology/ geochemistry/ porphyries/ pitchblende/
Central City district/ igneous-metamorphic/ Clear
Creek County/ Gilpin County/

Phair, George, and Sims, P. K., 1954
Larimer County/ Copper King mine/ ore deposits/
paragenesis/ mineralization/ age dating/ uranium/
igneous-metamorphic/ Front Range/

Piersen, C. T., 1953
San Juan Mountains/ ore deposits/ exploration/
analyses/ Lark mine/ San Juan County/ Smuggler
mine/ San Miguel County/ veins/ sandstone/ Colorado
Plateau/ igneous-metamorphic/

Piersen, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata
County/ Ouray County/ Dolores County/ Bonanza
IGNEOUS-METAMORPHIC

district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ igneous-metamorphic

Pierson, C. T., 1954
San Juan Mountains/ minerals/ mineralogy/ petrology/ Ouray County/ slate/ pitchblende/ igneous-metamorphic/ Mickey Breen mine

Pierson, C. T., and Singewald, Q. D., 1953
reconnaissance/ radioactivity/ Alma district/ Park County/ veins/ uranium/ pitchblende/ ore deposits/ Precambrian rocks/ London vein/ Cooper Gulch/ Orphan Boy mine/ geology/ igneous-metamorphic

Pierson, C. T., and Singewald, Q. D., 1953
Alma district/ Park County/ ore deposits/ reconnaissance/ veins/ Precambrian rocks/ London vein system/ Cooper Gulch/ Orphan Boy mine/ pitchblende/ geology/ igneous-metamorphic

Pierson, C. T., and Singewald, Q. D., 1953
Sugar Loaf district/ St. Kevin district/ Lake County/ igneous-metamorphic/ geology/ veins/ minerals/ autunite/ florencite/ metatorbernite/ torbernite/ Josie May mine/ Turquoise Chief mine/ granite/ turquoise/ Wilkesbarre adit/ mineralogy/ leaching/ Precambrian rocks/ Tertiary/ schist

Pierson, C. T., and Singewald, Q. D., 1954
St. Kevin district/ ore deposits/ mineralization/ ore minerals/ maps/ Lake County/ veins/ uranium/ igneous-metamorphic/ granite/ Sugar Loaf district/ Tertiary/ Josie May mine/ Precambrian rocks/ Turquoise Chief mine/ schist

Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/ igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau

Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alma district/ Lake County/ igneous-metamorphic/ Park County

San Juan Mountains/ Dolores County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ andesite/ San Miguel County/ hydrocarbons/ calcareous tufa/ hot springs/ limonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompahgre Formation/ igneous-metamorphic/ spring deposits/ Colorado Plateau

San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/ Park County/ Gilpin County/ Clear Creek County/ Colorado Plateau/ igneous-metamorphic

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ore deposits/ resources/ Pennsylvanian/ thorium/ uranium/ Boulder County/ analyses/ Front Range/ geochemistry/ igneous-metamorphic/ weathering profile

weathering profiles/ pre-Pennsylvanian/ Pennsylvanian/ thorium/ uranium/ Boulder County/ geochemistry/ igneous-metamorphic/ analyses/ Front Range

Rabbitt, J. C., 1950
analyses/ geochemistry/ petrology/ Colorado Plateau/ sandstone/ trace elements/ Front Range/ igneous-metamorphic

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trace elements/ annual report/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic

Rabbitt, J. C., 1951
Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnitite project/ sandstone/ igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range

Rabbitt, J. C., 1951
Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ radioactivity/ fluorite/ Clear Creek County/ pitchblende/ ore deposits/ minerals/ Gilpin County/ veins/ breccia/ sandstone/ Boulder County/ igneous-metamorphic

Rabbitt, J. C., 1951
Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ igneous-metamorphic/ Boulder County

Rabbitt, J. C., 1952
Colorado Plateau/ carnitite project/ Gilpin County/ Larimer County/ sandstone/ igneous-metamorphic/ Front Range

Rabbitt, J. C., 1952
Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ igneous-metamorphic/ Gilpin County/ Clear Creek County

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Gunnison County/ Saguache County/ sandstone/ limestone/ shale/ igneous-metamorphic/ Sargents area/ geology/ veins

Rankama; Kalvero, and Sahama, T. G., 1950
uranium/ vanadium/ geochemistry/ igneous-metamorphic/ biogeochemistry/ coal/ shale/ sandstone/ Colorado/ ore deposits/ carnitite/ uraninite/ Utah/ Colorado Plateau

843
IGNEOUS-METAMORPHIC

Rankama, Kalervo, and Sahama, T. G., 1950
vanadium/geochemistry/igneous-metamorphic/sediments/sandstone/carnotite/clays/shale/ore deposits/Utah/Colorado/uranium/Colorado Plateau/

Ranspot, H. W., 1958
Indian Creek area/ore deposits/geology/Gunnison County/Saguache County/uranium/shale/sandstone/limestone/igneous-metamorphic/limestone/Pitch mine/

Ranspot, H. W., and Spengler, R. G., 1957
uranium/ore deposits/radioactivity/stratigraphy/geology/exploration/Marshall Pass area/Gunnison County/Saguache County/igneous-metamorphic/sandstone/limestone/Pitch mine/

Ray, E. D., 1975
mining/Jefferson County/Schwartzwalder mine/Ladwig mine/igneous-metamorphic/district 1/Front Range/

Reinhardt, E. V., 1952
Colorado Plateau/igneous-metamorphic/sandstone/uranium/vanadium/Tertiary intrusives/La Plata County/San Miguel County/ore deposits/

mineralogy/paragenesis/fluid inclusions/genesis/Schwartzwalder mine/ore deposits/Jefferson County/Front Range/igneous-metamorphic/

veins/uranium/ore deposits/mineralogy/fluid inclusions/paragenesis/hydrothermal/pitchblende/ground water/Front Range/Jefferson County/Clear Creek County/Gilpin County/Gunnison County/Saguache County/Marshall Pass district/Schwartzwalder mine/igneous-metamorphic/

geochemistry/mineralogy/geochemistry/genetic models/hydrothermal uranium deposits/ore deposits/igneous-metamorphic/genesis/Front Range/

Rickard, Forbes, 1913
veins/Quartz Hill area/Gilpin County/pitchblende/Front Range/igneous-metamorphic/

Ridland, G. C., 1949
Caribou mine/silver/uranium/pitchblende/Boulder County/geology/igneous-metamorphic/Idaho Springs biotite schist/Precambrian rocks/quartz monzonite property/No Name vein/Front Range/veins/

Ridland, G. C., 1950
veins/ore deposits/pitchblende/Boulder County/Caribou mine/radioactivity/No Name vein/Radium vein/igneous-metamorphic/Front Range/silver/

Ridland, G. C., 1951
ore deposits/pitchblende/Boulder County/Caribou mine/radioactivity/No Name vein/Radium vein/veins/igneous-metamorphic/Front Range/silver/

Riley, L. B., and Owens, J. P., 1957
Saguache County/Pitch mine/Cashrin mine/Montrose County/Colorado Plateau/mineralogy/sandstone/veins/igneous-metamorphic/

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Front Range/Jefferson County/geology/Deer Creek area/Ralston Creek area/igneous-metamorphic/

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map/geology/Front Range/Jefferson County/igneous-metamorphic/

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Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ore deposits/genesis/exploration/gamma-ray detectors/sandstone/ Front Range/instrumentation/Morrison Formation/Salt Wash Member/Gilpin County/Clear Creek County/Boulder County/San Miguel County/Montrose County/igneous-metamorphic/Entrada Sandstone/

Salotti, C. A., 1961
Fremont County/igneous-metamorphic/sandstone/Cotopaxi area/Howard area/geology/petrology/

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Fremont County/igneous-metamorphic/petrology/structure/Howard area/metasediments/Precambrian rocks/

Salotti, C. A., 1965
mineralogy/paragenesis/Cotopaxi area/Chaffee County/Custer County/Fremont County/Park County/igneous-metamorphic/petrology/geology/skarn/ore deposits/copper/zinc/uranium/

Saum, N. M., and Link, J. M., 1969
uranium/ore deposits/exploration/history/ Front Range/Schwartzwalder mine/Jefferson County/igneous-metamorphic/geochemistry/genesis/hydrothermal deposits/sandstone/Morrison Formation/Uravan district/Montrose County/San Miguel County/Mesa County/New Mexico/Utah/Wyoming/diabremites/ignites/phosphates/remote sensing/Colorado Plateau/

Schlottmann, J. D., 1961
uranium/ore deposits/exploration/mineralogy/Foothills mine/Idledale district/Jefferson County/veins/igneous-metamorphic/paragenesis/Wright lease/quartz monzonite breccia/ Front Range/

Schlottmann, J. D., 1961
geochemistry/Schwartzwalder mine/ore deposits/Jefferson County/igneous-metamorphic/Front Range/

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geochemistry/Hahns Peak quadrangle/Farwell Mountain quadrangle/Routt County/Triassic/Jurassic/Precambrian rocks/sedimentary rocks/sandstone/igneous-metamorphic/

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hydrogeochemistry/springs/South Platte River/analyses/natural waters/South Park/larvval
IGNEOUS-METAMORPHIC

Creek/ West Fourmile Creek/ Currant Creek/ Badger Creek/ surface water/ ground water/ Teller County/ Park County/ Badger Flats/ Boomer mine/ sandstone/ Garo deposit/ igneous-metamorphic/

Fremont County/ ultramafic layered intrusives/ Iron Mountain complex/ McClure Mountain complex/ igneous-metamorphic/ mafic rocks/

Sheridan, D. M., 1953
Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/

Sheridan, D. M., 1955
Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/

Sheridan, D. M., 1956
Jefferson County/ veins/ pitchblende/ Ascension mine/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ faults/ copper/ paragenesis/ structure/ Ascension mine/

Sheridan, D. M., 1956
Jefferson County/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ faults/ copper/ paragenesis/ structure/ Ascension mine/

Ralston Buttes district/ ore deposits/ exploration/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ascension mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/

Ralston Buttes district/ ore deposits/ exploration/ veins/ Jefferson County/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ascension mine/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Jefferson County/ veins/ pitchblende/ bedrock geology/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Ladwig lease/ Mena mine/ Ascension mine/ Golden Gate Canyon area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes quadrangle/ Ralston Buttes district/ Ralston Creek area/

Ralston Buttes district/ ore deposits/ genesis/ geology/ maps/ Jefferson County/ Schwartzwalder mine/ Mena mine/ Ascension mine/ Ladwig lease/ structure/ Ralston Creek area/ mineralogy/ paragenesis/ copper/ faults/ uranium/ economic geology/ production/ Front Range/ veins/ breccia/ pitchblende/ gneiss/ pegmatite/ igneous-metamorphic/ Golden Gate Canyon area/

Jefferson County/ Juanita Arch quadrangle/ veins/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Ascension mine/ Ladwig lease/ Mena mine/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ igneous-metamorphic/ Colorado Plateau/ ore deposits/ geochemistry/ sandstone/ Colorado/ elements/ igneous-metamorphic/ laccoliths/

Shoemaker, E. M., and Newman, W. L., 1953
Montezuma County/ La Plata County/ laccolith/ stratigraphy/ Colorado Plateau/ igneous-metamorphic/ Ute Mountains/

Sims, P. K., 1953
Front Range/ ore deposits/ exploration/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1953
ore deposits/ Central City district/ Georgetown district/ Front Range/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1954
veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/
IGNEOUS-METAMORPHIC

Sims, P. K., 1954
Front Range/ ore deposits/ mineralogy/ petrology/ igneous-metamorphic/ Gilpin County/ Clear Creek County/

Sims, P. K., 1955
Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ veins/ Front Range/ igneous-metamorphic/ paragenesis/ structure/

Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ uranium/ mineralogy/ Front Range/ ore deposits/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Triq claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., 1955
veins/ Tertiary/ igneous-metamorphic/ Front Range/ ore deposits/

Sims, P. K., 1955
ore deposits/ veins/ igneous-metamorphic/ Front Range/ Precambrian rocks/ pegmatites/

Sims, P. K., 1955
Front Range/ ore deposits/ trace elements/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1956
veins/ Front Range/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ igneous-metamorphic/

Sims, P. K., 1956
Gilpin County/ ore deposits/ pitchblende/ genesis/ structural controls/ veins/ Front Range/ Clear Creek County/ geology/ uranium/ igneous-metamorphic/ Central City district/ mineralogy/ paragenesis/

Sims, P. K., 1956
Front Range/ Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ zoning/ tennantite/ Calhoun (East and West) mines/ Carroll mine/ J. P. Whitney mine/ genesis/ host rocks/ intrusive structures/ veins/ stratigraphy/ Precambrian rocks/ uranium/ igneous-metamorphic/ paragenesis/ structure/ pitchblende-bearing vein

Sims, P. K., 1957
Front Range/ igneous-metamorphic/ veins/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

Sims, P. K., 1960
mineralogy/ hypogene zoning/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Front Range/

Sims, P. K., 1960
hypogene zoning/ mineralogy/ Gilpin County/ Clear Creek County/ Central City district/ Front Range/ igneous-metamorphic/

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Clear Creek County/ Gilpin County/ geology/ igneous-metamorphic/ Central City district/ Front Range/ Idaho Springs district/ guidebook/

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g eochemistry/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

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Gilpin County/ Clear Creek County/ igneous-metamorphic/ Central City quadrangle/ Russell Gulch/ geology/ Front Range/

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Gilpin County/ Central City district/ hypogene zoning/ ore genesis/ ore deposits/ igneous-metamorphic/ Front Range/ petrology/

Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Jefferson County/ geology/ ore deposits/

Sims, P. K., and Gable, D. J., 1963
cordierite/ gneiss/ Central City quadrangle/ Gilpin County/ Clear Creek County/ Front Range/ minerals/ Central City district/ geology/ Precambrian rocks/ igneous-metamorphic/

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g eochemistry/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/

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petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Triq claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

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Front Range/ igneous-metamorphic/ uranium/ ore deposits/ geology/ Clear Creek County/ Gilpin County/

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age determination/ Front Range/ Larimer County/ mineralogy/ petrology/ geochemistry/ mines/ minerals/ pitchblende/ Copper King mine/ fault breccia/ shear zones/ veins/ stratigraphy/ Precambrian rocks/ veins/ geology/ Prairie Divide area/ igneous-metamorphic/
IGNEOUS-METAMORPHIC

Sims, P. K., and Phair, George, 1953
pitchblende/ ore deposits/ Copper King mine/ Larimer County/ uranium/ igneous-metamorphic/ Front Range/

geochemistry/ ore deposits/ Front Range/ genesis/ mineralogy/ analyses/ emission spectroscopy/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/

Sims, P. K., and Tooker, E. W., 1954
Eureka Gulch area/ Central City district/ Gilpin County/ igneous-metamorphic/ maps/ Front Range/ geology/

Sims, P. K., and Tooker, E. W., 1955
metatorbernite/ alteration/ wall rocks/ Gilpin County/ uranium/ igneous-metamorphic/ veins/ Front Range/ Central City district/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatite/ gneiss/ Front Range/ genesis/

Sims, P. K., and Troumim, Priestley, 3d, 1961
temperature of formation/ Precambrian rocks/ Copper King mine/ Front Range/ Larimer County/ igneous-metamorphic/ uranium/ granite/ ore deposits/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

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Gilpin County/ Clear Creek County/ igneous-metamorphic/ Central City district/ Front Range/ geology/ ore deposits/

Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1953
Gilpin County/ Clear Creek County/ Central City district/ geology/ maps/ ore deposits/ iron mine/ veins/ Russell Gulch area/ Quartz Hill area/ Nevada Gulch area/ pitchblende/ Wood mine/ Calhoun mine/ Gold King claim/ Kirk mine/ Ross shaft/ Belcher claims/ Front Range/ German claims/ Pewabic mine/ igneous-metamorphic/

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veins/ maps/ Central City district/ Gilpin County/ igneous-metamorphic/ Front Range/ geology/

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economic geology/ Central City district/ Gilpin County/ igneous-metamorphic/ production/ geology/ ore deposits/ mineralogy/ uranium/ pitchblende/ veins/ Front Range/ granite/ gneiss/ pegmatites/

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Central City district/ Dumont district/ Fall River district/ Eureka Gulch district/ Front Range/ Georgetown area/ Clear Creek County/ pitchblende/ Diamond Mountain (Lanagan) mine/ Gomez mine/ Golden Calf mine/ Golden Glen mine/ Martha E. mine/ veins/ Old Town mine/ Spread Eagle mine/ reconnaissance/ Gilpin County/ ore deposits/ base metals/ Freeland-Lamartine district/ igneous-metamorphic/ precious metals/

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uranium/ ore deposits/ Central City district/ Idaho Springs district/ mining/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1954
Gilpin County/ igneous-metamorphic/ Wood mine/ Nigger Hill/ Uinta Mountains/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ veins/ minerals/ kalsilite/ metatorbernite/ Buckley mine/ Bullion mine/ Carroll mine/ Rara Avis mine/ R.H.D. mine/ Two Sisters mine/ stratigraphy/ Precambrian rocks/ genesis/ Front Range/ Claire Marie mine/

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Gilpin County/ ore deposits/ petrology/ Eureka Gulch area/ veins/ geology/ Central City district/ pitchblende/ metatorbernite/ igneous-metamorphic/ uranium/ Front Range/

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age determination/ Front Range/ Larimer County/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ wall rock/ geology/ Copper King mine/ minerals/ coffinite/ uraninite/ Precambrian rocks/ base metals/ stratigraphy/ precious metals/ metamorphic rocks/ veins/ genesis/ igneous-metamorphic/

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Larimer County/ Copper King mine/ ore deposits/ petrology/ geology/ Front Range/ igneous-metamorphic/

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coffinite/ uranium/ veins/ Front Range/ Boulder County/ Larimer County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ ore deposits/

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map/ thorium/ Wet Mountains/ Custer County/ igneous-metamorphic/ ore deposits/

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Sugarloaf district/ St. Kevin district/ Lake County/ geology/ ore deposits/ production/ petrography/ economic geology/ veins/ torbernite/ granite/ igneous-metamorphic/
Singewald, Q. D., 1966
thorium/ faults/ Ilse fault zone/ Wet Mountains/ structure/ igneous-metamorphic/ gneiss/ ore deposits/ Fremont County/

Singewald, Q. D., and Brock, M. R., 1956
thorium/ faults/ Ilse fault zone/ Wet Mountains/ Fremont County/ structures/ igneous-metamorphic/ gneiss/ ore deposits/ geology/

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thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ igneous-metamorphic/ gneiss/ veins/ pegmatites/ ore deposits/

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Wet Mountains/ ore deposits/ Custer County/ thorium/ igneous-metamorphic/

Singewald, Q. D., Christman, R. A., and others, 1956
Haputa Ranch area/ Custer County/ Fremont County/ veins/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Precambrian rocks/ Sewell property/ Anna Lee property/ igneous-metamorphic/

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Custer County/ Fremont County/ McKinley Mountain area/ igneous-metamorphic/ geology/ radiometrics/ maps/ City/ Colorado Plateau/ Gilpin County/ metamorphic/ ore deposits/ Colorado/ sandstone/ Front Range/

Lake County/ Chalk Mountain rhyolite/ radioactive inclusions/ radioactivity/ igneous-metamorphic/

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ore deposits/ veins/ igneous-metamorphic/ concepts/ uranium/

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ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ igneous-metamorphic/
IGNEOUS-METAMORPHIC

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LIMESTONE, PHOSPHORITE

Dunn, J. E., 1957
Marshall Pass/ore deposits/Saguache County/uranium/Gunnison County/Chester fault/Harding Sandstone/igneous-metamorphic/pegmatite/limestone/Beiden Formation/Leadville Limestone/

Dutro, H. B., and Bivens, N. W., 1953
Paradox Member/Hermosa Formation/Colorado Plateau/reserves/exploration/drilling/sandstone/limestone/or deposits/uranium/vanadium/Spectacle Point claims/Gypsum Valley district/San Miguel County/

Everhart, D. L., 1951
geology/veins/ore deposits/minerals/sandstone/igneous-metamorphic/mudstone/Colorado Plateau/phosphates/pitchblende/pegmatite/carnotite/Morrison Formation/Entrada Sandstone/Shinarump Member/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/asphalt/limestone/black shale/Belgian Congo/Canadium Shield/

Finch, W. I., 1955
Colorado Plateau/ore deposits/uranium/sandstone/copper/conglomerate/ore-bearing formation/limestone/vanadium/Rio Blanco County/Garfield County/Mesa County/geology/Delta County/San Miguel County/Dolores County/Rifle mine/Montezuma County/La Plata County/Greysill mine/Placerville district/Uravan district/Gateway district/map/geology/

Gabelman, J. W., 1956
uranium/ore deposits/limestone/Colorado Plateau/Gypsum Valley area/Dolores County/San Miguel County/Montrose County/Mesa County/Wanakah Formation/

Gabelman, J. W., 1956
uranium/ore deposits/limestone/Colorado Plateau/Gypsum Valley area/Dolores County/San Miguel County/Montrose County/Mesa County/Wanakah Formation/

Gott, G. B., Wyant, D. G., and Baroni, E. P., 1952
Front Range/ore deposits/shaft/black shale/lignite/limestone/organic/sandstone/coal/Leyden coal mine/Jefferson County/uranium/

Gruner, J. W., 1953
Colorado Plateau/ore deposits/syngenetic processes/hydrothermal processes/green water/genesis/Shinarump Member/Morrison Formation/sandstone/conglomerate/mudstone/limestone/Todito Limestone/Mesa County/Montrose County/Dolores County/San Miguel County/Montezuma County/Chinle Formation/

Gruner, J. W., 1954
Colorado Plateau/ore deposits/genesis/mineralogy/Utah/Colorado/sandstone/siltstone/conglomerate/limestone/uranium/vanadium/New Mexico/geology/San Miguel County/Montrose County/Mesa County/

Gruner, J. W., and Gardiner, L., 1952
mineral associations/Shinarump Member/Todito Limestone/Utah/New Mexico/Colorado Plateau/Salt Wash Member/Morrison Formation/Colorado/

Montrose County/San Miguel County/Calamity Mesa/Placerville district/sandstone/ore deposits/

Gruner, J. W., and Smith, D. K., Jr., 1955
Colorado Plateau/ore deposits/mineralization/Utah/Arizona/New Mexico/Horseshoe diatreme/sandstone/limestone/mineralogy/

Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1954
Colorado Plateau/ore deposits/mineral assemblages/Calamity Mesa/Placerville district/New Mexico/conglomerate/Chinle Formation/Morrison Formation/sandstone/limestone/asphaltite/thucholite/Montrose County/San Miguel County/Salt Wash Member/Dolores Formation/Shinarump Member/Todito Limestone/

Colorado Plateau/ore deposits/mineralogy/uraninite/coffinite/vanadium/uranium/Colorado/Utah/New Mexico/Todito Limestone/limestone/Morrison Formation/sandstone/Entrada Sandstone/Dolores County/San Miguel County/Greysilli mine/Mesa County/Montrose County/San Juan County/

Kholodov, V. N., Lisitsin, A. K., Komarova, G. V., and others, 1961
zoning/uranium/mineralogy/petrolierous carbonate rocks/limestone/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/Boulder County/Clear Creek County/Garfield County/Gilpin County/Jefferson County/Larimer County/Moffat County/Pitkin County/pitchblende/hydrocarbons/Kiowa County/Rio Blanco County/Routt County/hot spring deposits/limestone/pegmatites/sandstone/veins/breccia pipes/igneous-metamorphic/Park County/Lake County/geology/mineralogy/San Miguel County/ore deposits/metal-mining districts/Huerfano County/Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/Boulder County/Clear Creek County/Garfield County/Gilpin County/Jefferson County/Larimer County/Moffat County/Pitkin County/pitchblende/hydrocarbons/hot spring deposits/limestone/sandstone/veins/breccia pipes/igneous-metamorphic/Park County/Lake County/geology/mineralogy/San Miguel County/ore deposits/metal-mining districts/Kiowa County/Rio Blanco County/Routt County/Huerfano County/Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/Boulder County/Clear Creek County/Garfield County/Gilpin County/Jefferson County/Larimer County/Moffat County/Pitkin County/pitchblende/hydrocarbons/metal-mining districts/ore deposits/limestone/sandstone/veins/breccia pipes/Eagle County/hot spring deposits/fluorite/igneous-metamorphic/
LIMESTONE, PHOSPHORITE

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/

Madsen, J. W., 1954
Paradox Member/ Hermosa Formation/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ limestone/ ore deposits/ uranium/ vanadium/ Pitchfork group of claims/ Gypsum Valley district/ San Miguel County/

Marrs, L. F., 1970
ore treatment/ ion exchange/ Saguache County/ Pitch mine/ underground leaching/ igneous-metamorphic/ veins/ faults/ sandstone/ limestone/

genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gypsum County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/

veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gypsum County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/

McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gypsum County/ igneous-metamorphic/ phosphorites/ Clear Creek County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gypsum County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1952
uranium/ ore deposits/ igneous-metamorphic/ sandstone/ shale/ phosphorites/ Colorado Plateau/ Colorado/ Front Range/

Miller, D. S., 1959
Colorado Plateau/ ore deposits/ genesis/ isotopes/ absolute age/ Colorado/ sandstone/ limestone/

Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ research/ data/ isotopes/ lead/ sulfur/ uranium/ age dating/ Colorado/ sandstone/ limestone/ volcanics/ San Miguel County/ igneous-metamorphic/

Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ isotopes/ absolute age/ Colorado/ sandstone/ limestone/ San Miguel County/ uranium/ lead/ sulfur/

Miller, D. S., and Kulp, J. L., 1963
Colorado Plateau/ Colorado/ uranium/ genesis/ ore deposits/ geochemistry/ age dating/ isotopes/ sandstone/ limestone/ volcanics/ igneous-metamorphic/

Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ uranium/ district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Noble, E. A., and Annes, E. C., Jr., 1957
Uinta basin/ ore deposits/ exploration/ Chilie Formation/ Curtis Formation/ Morrison Formation/ Mesaverde Group/ Green River Formation/ Uinta Formation/ Moffat County/ Rio Blanco County/ sandstone/ mudstone/ siltstone/ limestone/ shale/ Skull Creek district/ conglomerate/ Weber Sandstone/ Colorado Plateau/

Olson, J. C., 1977
uranium/ Pitch mine/ Gunnison County/ Saguache County/ Chaffee County/ map/ igneous-metamorphic/ limestone/ shale/ ore deposits/ geology/

Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkose/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/

Raines, G. L., 1971
Gunnison County/ Saguache County/ sandstone/ limestone/ shale/ igneous-metamorphic/ Sargents area/ geology/ veins/

Ranspot, H. W., 1958
Indian Creek area/ ore deposits/ geology/ Gunnison County/ Saguache County/ uranium/ shale/ sandstone/ limestone/ igneous-metamorphic/ limestone/ Pitch mine/

Ranspot, H. W., and Spengler, R. G., 1957
uranium/ ore deposits/ radioactivity/ stratigraphy/ geology/ exploration/ Marshall Pass area/ Gunnison/
LIMESTONE, PHOSPHORITE

County/ Saguache County/ igneous-metamorphic/ sandstone/ limestone/ Pitch mine/

Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ copper/ hydrocarbons/ limestone/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Stewart, J. H., Poole, F. G., and Wilson, R. F., 1958
stratigraphy/ genesis/ lithologic units/ Triassic/ Colorado Plateau/ shale/ sandstone/ limestone/

Theobald, P. K., Jr., and Chew, R. T., 1ld
Maybell-Lay area/ Moffat County/ limestone/ sandstone/ stratigraphy/ Browns Park Formation/ geology/ ore deposits/ Colorado/ Wyoming/ Utah/ Miller Hill/ Baggs/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966
giology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Eagle County/ reconnaissance/ ore deposits/ sandstone/ limestone/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Saguache County/ reconnaissance/ ore deposits/ limestone/ sandstone/ igneous-metamorphic/

Vargas, F. H., 1961
Fremont County/ sediments/ geology/ sandstone/ limestone/ Cotopaxi inlier/ Sangre de Cristo Range/

Vogel, J. D., 1957
Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley/ Morrison Formation/ sandstone/ veins/ limestone/

Vogel, J. D., 1960
geology/ ore deposits/ Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley district/ Morrison Formation/ sandstone/ veins/ limestone/

Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Weeks, A. D., Lindberg, M., and Meyrowitz, R., 1961
granite/ vanadium/ mineral properties/ mineralogy/ sandstone/ limestone/ Colorado Plateau/ Club Mesa/ Montrose County/ Atkinson Mesa/ Golden Cycle mine/ Morrison Formation/ ore deposits/

Wilmarth, V. R., 1951
thcholite/ Robinson property/ Placerville district/ Weatherly property/ asphaltite/ hydrocarbons/ pyrobiumens/ base metals/ precious metals/ veins/ fault breccia/ shear zone material/ limestone/ Dolores Formation/ ore deposits/ Colorado Plateau/ San Miguel County/ structure/ Cutler Formation/ sandstone/
Abdel-Gawad, A. M., 1960
Colorado Plateau/ ore deposits/ alteration/ sandstone/ Chimney Formation/
Chimney Formation/ silification/ Colorado Plateau/ Colorado/ sandstone/ uranium/
Chimney Formation/ silification/ Colorado Plateau/ Colorado/ sandstone/
Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/
Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/
Adler, H. H., 1974
reducing environments/ sandstone/ sediments/ uranium/ ore deposits/ formations/
ore rolls/ uranium/ occurrence/ genesis/ chemical characteristics/ Utah/ sandstone/ New Mexico/ Colorado Plateau/ Entrada Sandstone/ physical characteristics/ Morrison Formation/
Albee, H. F., 1956
sandstone/ pebbles/ size/ Shinarump Member/ Moss Back Member/ Chimney Formation/ conglomerate/ Colorado Plateau/
Allen, M. A., and Butler, G. M., 1921
Colorado/ Utah/ Arizona/ vanadium/ Placerville district/ San Miguel County/ sandstone/ Eagle County/ carnotite/ uranium/ Paradox Valley/ production/ uses/ ore treatment/ geology/ Colorado Plateau/
Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/ Montrose County/ Morrison Formation/ uranium/ vanadium/ San Miguel Bench/
Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/ San Miguel Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/
Alvord, D. C., 1953
Spring Creek Mesa/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Montrose County/ Morrison Formation/ Salt Wash Member/ San Miguel Bench/
SANDSTONE, SILTSTONE

Archbold, N. L., 1955
lithology/ vanadium/ uranium/ ore deposits/ Morrison Formation/ Colorado Plateau/ sandstone/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ calcium carbonate/

Archbold, N. L., 1955
vanadium/ uranium/ sandstone/ mudstone/ calcium carbonate/ Morrison Formation/ Salt Wash Member/ ore deposits/ geochemistry/ lithology/ Colorado Plateau/

Archbold, N. L., 1956
uranium/ vanadium/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ ore deposits/ lithology/ San Miguel County/

Archbold, N. L., 1958
carbonate cement/ lithology/ vanadium/uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uravan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper Group/

Archbold, N. L., 1959
carbonate cement/ lithology/ vanadium/uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uravan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper group/

Argali, G. O., Jr., 1943
vanadium ores/ carnitite/ occurrences/ production/ Colorado/ Colorado Plateau/ sandstone/

Bachman, G. O., and Read, C. B., 1952
New Mexico/ reconnaissance/ Huerfano County/ sandstone/ volcanics/ igneous-metamorphic/ shale/ Colorado/

Bachmann, H. G., 1957
Colorado Plateau/ vanadium/ mineralogy/ crystal chemistry/ Colorado/ sandstone/ calcium-sodium vanadates/

Bain, G. W., 1950
genesis/ ore deposits/ fissionable materials/ geochemistry/ geology/ sandstone/ Colorado Plateau/

Bain, G. W., 1952
Colorado Plateau/ southwest/ ore deposits/ evaluation/ sandstone/ Shinarump Member/ Arizohla/ Utah/ conglomerate/ uranium/ vanadium/ mines/ prospects/ Chinle Formation/

Bain, G. W., 1952
Colorado Plateau/ geologic history/ uranium/ ore deposits/ sandstone/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ sediments/ sandstone/ stratigraphy/ Dakota Group/ Morrison Formation/ structure/ topography/ geologic history/ Mesa County/ Montrose County/ San Miguel County/ geology/ Montezuma County/ reconnaissance/ Colorado Plateau/ Dolores County/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnitite/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chinle Formation/ Dolores County/ experimental studies/ Salt Wash Member/

Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/ genesis/ Colorado/ general/ Mesa County/ Delta County/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ Archuleta County/ Garfield County/ La Plata County/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953
Colorado Plateau/ ore deposits/ experimental studies/ sandstone/ fluvial sediments/ field observations/ heavy minerals/ Shinarump Member/ Morrison Formation/ Dakota Sandstone/ geochemistry/ sedimentation/ ground water/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chinle Formation/

Baker, A. A., Dane, C. H., and Reeside, J. B., Jr., 1936
Colorado/ Utah/ Arizona/ New Mexico/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/Colorado Plateau/

Colorado/ Arizona/ New Mexico/ Utah/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/

Ball, M. M., 1954
Colorado Plateau/ ore deposits/ carnitite/ sedimentary occurrence/ sandstone/

Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/

Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ exploration/ Archuleta County/ Huerfano County/ radioactive deposits/ carbonaceous shale/ sandstone/ copper/ limestone/ Sangre de Cristo Formation/ Wanakah Formation/ tuff/ Wet Mountains/ Mesaverde Formation/

Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ carbonaceous rocks/ shale/ siltstone/ Hermosa Formation/
Sandstone, Siltstone

San Miguel County/ Bald Eagle prospect/ Colorado Plateau/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ Huerfano Park/ Spanish Peaks/ ore deposits/ exploration/ Huerfano County/ sandstone/ volcanic/ igneous-metamorphic/

Baltz, E. H., Jr., 1957
stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/

Barge, E. M., 1953
limestone/ sandstone/ Colorado Plateau/ Hermosa Formation/ reserves/ exploration/ drilling/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Ear Morn group/ Gypsum Valley district/ San Miguel County/

Barge, E. M., 1953
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Tiny claim/ Gypsum Valley district/ San Miguel County/ Morrison Formation/

Barge, E. M., 1953
Colorado Plateau/ drilling/ ore deposits/ reserves/ exploration/ Gypsum Valley district/ Sunset claim/ San Miguel County/ sandstone/ Morrison Formation/ carnotite/ uranium/ vanadium/ Early Morn group/ limestone/ Salt Wash Member/

Barton, P. B., Jr., 1957
carnotite/ synthesis/ properties/ alkali analogues/ experimental/ Colorado Plateau/ sandstone/

Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/

Bell, Henry, 3d, 1950
minerals/ carnotite/ Colorado Plateau/ ore deposits/ geology/ San Miguel County/ Legin group area/ exploration/ drilling/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/

Bell, Henry, 3d, 1950
uranium/ vanadium/ carnotite/ geology/ reserves/ ore deposits/ Colorado Plateau/ San Miguel County/ exploration/ Cougar claim/ Helen claim/ Last Chance claim/ Lower group/ Rainbow claim/ Cougar
Sandstone, Siltstone

Bell, K. G., 1949  
analyses/carnotite/uranium/stratigraphic correlation/gamma-ray logging/drilling/Colorado Plateau/sandstone/Morrison Formation/ore deposits/

Bell, K. G., 1954  
uranium/thorium/sedimentary rocks/sandstone/geology/genesis/placers/stream deposits/mudstone/Chinle Formation/Morrison Formation/shale/black shale/carnotite/uraninite/Colorado Plateau/

Bell, K. G., and Rogers, A. S., 1950  
Mesa County/Calamity Mesa area/gamma-ray logging/Maverick claims/Morrison Formation/sandstone/drilling/stratigraphic correlation/leaching/ore deposits/reserves/geophysics/"Barnaby" logs/Schlumberger logs/carnotite/Colorado Plateau/Calamity claims/

Benicke, A., 1911  
ore deposits/occurrence/vanadium/sandstone/uranium/Colorado/Colorado Plateau/sandstone/

Bergin, M. J., 1955  
Colorado/Wyoming/Maybell-Lay area/ore deposits/sandstone/Washakie Basin/Moffat County/Margie claims/Margie claims/conglomerate/uranium/Browns Park Formation/

Bergin, M. J., 1956  
Maybell-Lay area/ore deposits/Moffat County/veins/sandstone/Margie claims/Gertrude claims/Wasatch Formation/uranium/Browns Park Formation/

Bergin, M. J., 1957  
Maybell-Lay area/ore deposits/Moffat County/veins/sandstone/stratigraphy/structure/uranium/Gertrude mine/Margie mine/minerals/Sugarload mine/conglomerate/Wasatch Formation/coal/sources/Browns Park Formation/

Bergin, M. J., and Chisholm, W. A., 1956  
Maybell-Lay area/ore deposits/Moffat County/veins/Browns Park Formation/sandstone/stratigraphy/Gertrude mine/Margie mine/minerals/structure/uranium/Sugarloot mine/conglomerate/Wasatch Formation/coal/sources/Utah/precipitation/Clear Creek County/Thermal area/ground water/Morrison Formation/ore deposits/

Berglof, W. R., 1970  
Colorado Plateau/absolute age/ore deposits/age estimation/Colorado/isotope dating/lead/New Mexico/uranium/uranium-235/uranium-238/Utah/Morrison Formation/Chinle Formation/Todilto Limestone/sandstone/

Berglof, W. R., 1973  
Colorado Plateau/absolute age/ore deposits/Utah/age estimation/Colorado/isotope dating/lead/New Mexico/uranium/uranium-235/uranium-238/Morrison Formation/Chinle Formation/Todilto Limestone/sandstone/

Beroni, E. P., and King, R. U., 1950  
Front Range/minerals/carnotite/Mike Doyle mine/continental carbonaceous shale/Morrison Formation/El Paso County/geology/ore deposits/sandstone/

Beroni, E. P., and King, R. U., 1952  
Colorado Springs/Mike Doyle mine/ore deposits/carnotite/El Paso County/sandstone/Front Range/carbonaceous shale/Morrison Formation/geology/

Beroni, E. P., and McKeown, F. A., 1952  
geology/sandstone/reconnaissance/marine black shales/Entrada Sandstone/Curtis Formation/igneous-metamorphic/Skull Creek district/Bozo claims/Fair-U claim/Lucky Strike claims/Grand County/Moffat County/Routt County/coal/copper/uranium/limestone/phosphates/carnotite/uraninite/spring deposits/migmatite/granite/Colorado/Wyoming/

Bethea, P. M., 1953  
uranyl salts/Colorado Plateau/simulation/precipitation/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/sandstone/ground water/Morrison Formation/Salt Wash Member/uraninite/carnotite/

Bieber, P. P., 1954  
Colorado Plateau/reserves/exploration/sandstone/ore deposits/uranium/vanadium/Morrison Formation/Salt Wash Member/Long Park/Montrose County/

Bieber, P. P., and Bowers, H. E., 1954  
Colorado Plateau/reserves/exploration/sandstone/ore deposits/uranium/vanadium/Morrison Formation/Salt Wash Member/Long Park area/Montrose County/

Bieniewski, C. L., Persse, F. H., and Brauch, E. F., 1971  
Colorado Plateau/Rifle district/Front Range/Garfield County/Clear Creek County/Jefferson County/Boulder County/resources/pricing/cost analysis/sandstone/igneous-metamorphic/Marshall Pass/

Black, R. A., 1953  
Colorado Plateau/geophysics/mining districts/logging/Spud Patch area/San Miguel County/sandstone/Long Park area/Montrose County/Morrison Formation/ore deposits/

Black, R. A., 1953  
Colorado Plateau/ore deposits/exploration/geophysics/methods/uranium/sandstone/

Black, R. A., 1957  
Colorado Plateau/reserves/geophysics/exploration/sandstone/ore deposits/uranium/vanadium/Morrison Formation/Salt Wash Member/Gramlich group/Paradox district/Montrose County/

Black, R. A., 1954  
geophysics/mining districts/logging/Mesa/Arizona/Utah/Peanut Group/Bull Canyon/Morrison Formation/sandstone/Mesa County/Colorado/Colorado Plateau/ore deposits/

Black, R. A., 1954  
Colorado Plateau/geophysics/mining districts/
<table>
<thead>
<tr>
<th>Blackman, D. H., 1950</th>
<th>Colorado Plateau/ ore guides/ sandstone/ uranium/ ore deposits/ Mesa County/ minerals/ carnotite/ Calamity claims/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blackman, D. H., 1950</td>
<td>Colorado Plateau/ sandstone/ uranium/ ore deposits/ ore guides/ carnotite/</td>
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<tr>
<td>Blackman, D. H., 1951</td>
<td>Calamity Mesa/ exploration/ drilling/ Calamity claims/ sandstone/ Morrison Formation/ Colorado Plateau/ ore guides/ uranium/ Mesa County/ geology/ vanadium/ ore deposits/ carnotite/ carbonaceous materials/</td>
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<tr>
<td>Boardman, R. L., 1954</td>
<td>Guadalupe mine/ Colorado Plateau/ reserves/ exploration/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/</td>
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<td>Boardman, R. L., 1954</td>
<td>King Solomon #5 claim/ U.S. Vanadium Co. property/ reserves/ Golden Cycle mine/ Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ Morrison Formation/ vanadium/ Salt Wash Member/ Atkinson Mesa/ Dolores Bench/ Montrose County/</td>
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<td>Boardman, R. L., 1955</td>
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<td>sedimentary features/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/ Uruan district/ Montrose County/ Colorado Plateau/ geology/ Jurassic/</td>
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Botinelly, Theodore, 1956
Colorado Plateau/ ore deposits/ Jurassic/ Salt Wash Member/ Morrison Formation/ sandstone/ Montrose County/ geology/ mineralogy/ carnitite/ uranium/ uraninite/ vanadium/

Botinelly, Theodore, and Fischer, R. P., 1955

Botinelly, Theodore, and Fischer, R. P., 1959
mineralogy/ geology/ Rifle mine/ Garfield mine/ sandstone/ uranium/ vanadium/ Entrada Sandstone/ Chinle Formation/ ore deposits/ stratigraphy/ structure/ chromium/ uranium/ vanadium/ Entrada Sandstone/ Wingate Sandstone/ Moore County/ Montrose County/ ore deposits/ stratigraphy/ structure/ chromium/

Botinelly, Theodore, and Weeks, A. D., 1954
Jo Dandy area/ Montrose County/ sandstone/ mineralogic/ clays/ Peanut mine/ Colorado Plateau/

Botinelly, Theodore, and Weeks, A. D., 1954
mineralogy/ ore deposits/ minerals/ Colorado Plateau/ sandstone/ Montrose County/ Jo Dandy area/ Rifle mine/ Garfield County/ clay minerals/

Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/ Mesa County/ Montrose County/ minerals/ Dolores County/ San Miguel County/ ore deposits/ mineralogic classification/

Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/ uranium/ vanadium/ composition/ oxidation/ mineralogy/ sandstone/ ore deposits/ Mesa County/ Montrose Count/ San Miguel County/

Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/ petrology/ ore deposits/ vanadium/ Uravan/ Montrose County/ sandstone/ Long Park/ Lo Salle Creek/ Mesa County/ Utah/ Arizona/ uranium/

Boudette, E. L., 1956
Colorado Plateau/ aerial photographs/ regional fracture pattern/ sandstone/

Boutwell, J. M., 1904
Colorado/ Utah/ ore deposits/ vanadium/ uranium/ Colorado Plateau/ sandstone/

Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ vanadium/ Montrose County/

Bowers, H. E., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ vanadium/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/
Brasher, G. K., and Dougias, R. F., 1952
Colorado Plateau/ Gramlich group/ Paradox district/ drilling/ exploration/ sandstone/ ore deposits/ reserves/ Montrose County/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/

Brasher, G. K., and Jobin, D. A., 1951
reserves/ resources/ Colorado Plateau/ sandstone/ Outlaw Mesa/ Morrison Formation/ ore deposits/ drilling/ exploration/ uranium/ vanadium/ Salt Wash Member/ Mesa County/

Brasher, G. K., and Jobin, D. A., 1951
Colorado Plateau/ Mesa County/ reserves/ resources/ Outlaw Mesa/ sandstone/ ore deposits/ Salt Wash Member/ uranium/ vanadium/ Morrison Formation/

Brasher, G. K., and Jobin, D. A., 1951
Outlaw Mesa area/ Mesa County/ reserves/ resources/ Mineral Channel claims/ Colorado Plateau/ ore deposits/ sandstone/ uranium/ vanadium/ Salt Wash Member/ Morrison Formation/

Breger, I. A., 1956
fossil wood/ coalification/ ore deposits/ Colorado Plateau/ geochemistry/ organic/ uranium/ sandstone/ conglomeratic sandstone/ conglomerate/

Breger, I. A., 1956
coalified wood/ uranium/ ore deposits/ Colorado Plateau/ ash/ analyses/ geochemistry/ sandstone/ Morrison Formation/ Chinle Formation/ lignite/

Breger, I. A., 1956
Colorado Plateau/ sandstone/ fossil plant debris/ uranium/

Breger, I. A., 1957
organic geochemistry/ coal/ uranium/ Colorado Plateau/ sandstone/ Wyoming/ Colorado/ New Mexico/ peat/

Breger, I. A., 1957
uranium/ carbonaceous materials/ sedimentary rocks/ coal/ South Dakota/ Wyoming/ Colorado Plateau/ Colorado/ sandstone/ New Mexico/ crude oil/ asphaltite/ organic geochemistry/

Breger, I. A., 1958
Colorado Plateau/ ore deposits/ exploration/ sandstone/ coalified logs/ organic materials/ fossil wood/ petroleum/ uranium/ geochemistry/ analyses/ sulfur/

Breger, I. A., 1961
Colorado Plateau/ coal/ uranium/ carbonaceous material/ vanadium/ sandstone/ coalified wood/

Breger, I. A., 1974
uranium/ ore deposits/ geochemistry/ organic compounds/ coal/ sandstone/ Colorado/ Colorado Plateau/

Breger, I. A., and Chandler, J. C., 1959
humic substances/ coal/ geochemistry/ geothermometry/ Colorado Plateau/ sediments/ sandstone/ analyses/ Colorado/ coalified logs/ Morrison Formation/ Montrose County/

Breger, I. A., and Chandler, J. C., 1960
geochemistry/ humic substances/ coal/ coalified logs/ Colorado/ Colorado Plateau/ Morrison Formation/ analyses/ geothermometry/ sandstone/

Breger, I. A., and Deul, Maurice, 1952
geochemistry/ mineralogy/ lignites/ uranium/ Leyden mine/ South Dakota/ coal/ chemistry/ Jefferson County/ sandstone/ Texas/ extraction/ Front Range/ Colorado/ Laramie Formation/

Breger, I. A., and Deul, Maurice, 1953
Colorado Plateau/ ore deposits/ lignite/ coal/ uranium/ Colorado/ Wyoming/ South Dakota/ retorts/ asphaltite/ sandstone/

Breger, I. A., and Deul, Maurice, 1955
Colorado Plateau/ uranium/ carbonaceous materials/ sandstone/ shale/ coalified wood/ asphaltites/ Utah/ New Mexico/ Colorado/ crude oil/

Breger, I. A., and Deul, Maurice, 1955
carbonaceous rocks/ ore deposits/ Colorado Plateau/ geochemistry/ Temple Mountain/ Utah/ comparisons/ ash/ sandstone/ coal/

Breger, I. A., and Deul, Maurice, 1956
organic materials/ ore deposits/ Colorado Plateau/ geochemistry/ Colorado/ coalified wood/ sandstone/ Black King mine/ Placerville district/ San Miguel County/ Utah/ Arizona/ carbonaceous rocks/

Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel County/ Colorado Plateau/ oil/ organics/ geochemistry/ sandstone/

Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel County/ geochemistry/ Colorado Plateau/ oil/ organics/ sandstone/

Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/ coal/ uraninite/ uranyl ion/ geochemistry/ reduction/ Colorado Plateau/ Front Range/ sandstone/ carbonaceous substances/

geochemistry/ coal/ Colorado Plateau/ petrography/ analyses/ Colorado/ Morrison Formation/ sandstone/ coalified wood/

Brew, D. A., 1953
drilling/ exploration/ Colorado Plateau/ ore deposits/ American Eagle group/ Gypsum Valley district/ Montrose County/ sandstone/ Morrison Formation/ reserves/ Salt Wash Member/ Mary Jane claims/ uranium/ vanadium/

Brew, D. A., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/ Atkinson Mesa/ Montrose County/ Morrison Formation/ uranium/ vanadium/

Brew, D. A., 1953
U.S. Vanadium Co. property/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ Atkinson
Sandstone, Siltstone

Mesa area/ Montrose County/ exploration/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Brew, D. A., 1954
exploration/ ore deposits/ Colorado Plateau/ ore guides/ Montrose County/ Atkinson Mesa area/ minerals/ carnotite/ coffinite/ corvusite/ montrosite/ sandstone/ vanadium/ Morrison Formation/ Salt Wash Member/ drilling/ uranium/

Colorado Plateau/ exploration/ techniques/ uranium/ methods/ ore deposits/ petroleum/ geophysics/ logging/ sandstone/

Colorado Plateau/ ore deposits/ exploration/ Utah/ uranium/ petroleum/ sandstone/ logging/ geophysics/ techniques/

Bromfield, C. S., 1967
San Miguel County/ Dolores County/ Mount Wilson quadrangle/ San Juan Mountains/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/ geology/ Colorado Plateau/

San Miguel County/ Dolores County/ Mount Wilson quadrangle/ vanadium/ San Juan Mountains/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/ geology/ Colorado Plateau/

Bromfield, C. S., and Williams, F. E., 1972
resources/ Wilson Mountains Primitive area/ uranium/ San Miguel County/ Dolores County/ vanadium/ sediments/ sandstone/ Colorado Plateau/ geophysics/

elements/ variation/ analyses/ diagenesis/ ore deposits/ tabular uranium deposits/ La Sal mines/ Utah/ Rajah 49 mine/ Uravan district/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ Mesa County/ sandstone/

elements/ variation/ analyses/ diagenesis/ sandstone/ tabular uranium deposits/ La Sal mines/ Utah/ Rajah 49 mine/ ore deposits/ Morrison Formation/ Colorado Plateau/ Uravan district/ Salt Wash Member/ Mesa County/

Brown, Andrew, 1961

Brown, L. J., 1955
ore deposits/ uranium/ geology/ exploration/ lithology/ Julesburg basin/ reconnaissance/ Logan County/ sandstone/

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek-Victor district/

arkose/ uranium/ ore deposits/ exploration/ aerial prospecting/ reconnaissance/ El Paso County/ Denver basin/ Dawson Arkose/ sandstone/ Arapahoe County/ Elbert County/ Douglas County/

uranium/ ore deposits/ minerals/ aerial prospecting/ reconnaissance/ geology/ South Park/ Park County/ Garo district/ igneous-metamorphic/ Tertiary/ Precambrian/ trachyte/ granite/ sandstone/

Bruyn, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores County/ history/ San Miguel County/ Montrose County/ Mesa County/

Bryner, Leonid, 1950
Colorado Plateau/ geology/ ore deposits/ uranium/ vanadium/ Club Mesa area/ minerals/ carnottite/ Uravan district/ Montrose County/ exploration/ drilling/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, 1952
uranium/ vanadium/ geology/ stratigraphy/ ore deposits/ Club Mesa/ Montrose County/ exploration/ drilling/ Colorado Plateau/ carnottite/ Buckshot claim/ Club mines/ Shamrock mines/ Tramp mines/ Morrison Formation/ production/ reserves/ resources/ sandstone/ Salt Wash Member/

Bryner, Leonid, 1971
Club Mesa area/ drilling/ Montrose County/ map/ Colorado Plateau/ sandstone/ exploration/ reserves/

Bryner, Leonid, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ sandstone/ reserves/ Montrose County/ Club Mesa area/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, and Cramer, M. A., 1952
Club Mesa area/ Montrose County/ Tramp mine/ uranium/ Colorado Plateau/ ore deposits/ reserves/ sandstone/ vanadium/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, and Cramer, M. A., 1952
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Club Mesa area/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
Bryner, Leonid, and Douglas, R. F., 1952
Colorado Plateau/ Club Mesa area/ Montrose County/ ore deposits/ exploration/ sandstone/ geology/ reserves/ carnitite/ Morrison Formation/ Salt Wash Member/ vanadium/ uranium/ Uravan district/

Bryner, Leonid, and Withington, C. F., 1951
drilling/ exploration/ Club Mesa area/ Montrose County/ sandstone/ ore deposits/ Colorado Plateau/ reserves/ Urvan district/ carnitite/ Morrison Formation/ Salt Wash Member/

Bunker, C. M., and Hamon, H. C., 1955
Jo Dandy area/ Montrose County/ sandstone/ well logs/ drill data/ gamma-ray logs/ caliper log/ Colorado Plateau/ drilling/ geophysics/

Bunker, C. M., and Hamontre, H. C., 1959
caliper log/ gamma-ray log/ Colorado Plateau/ drill data/ Jo Dandy area/ Montrose County/ drilling/ well logs/ geophysics/ sandstone/

Burwell, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/ Dolores County/ radioactivity/ reconnaissance/ San Juan Mountains/ igneous-metamorphic/ Colorado Plateau/ sandstone/ veins/ San Miguel County/

Burwell, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/ Ouray County/ San Miguel County/ Gunnison County/ Dolores County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ veins/ San Juan County/

Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnitite/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/

Burwell, Blair, 1932
Rifle mine/ Garfield County/ McElmo Sandstone/ sandstone/ ore deposits/ mining methods/ mining costs/ uranium/ vanadium/ exploration/ geology/ history/ Entrance Sandstone/

Busch, P. M., 1961
vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/

Bush, A. L., 1950
Legin group area/ San Miguel County/ Eloisa claim/ reserves/ resources/ sandstone/ Colorado Plateau/ ore deposits/ vanadium/ Morrison Formation/ Salt Wash Member/ Otero claim/

Bush, A. L., 1950
Colorado Plateau/ Egner area/ San Miguel County/ exploration/ drilling/ Charles T. claim/ Easton B claim/ Golden Rod claim/ Ownbey claim/ Charles T. area/ vanadium/ production/ sandstone/ carnitite/ geology/ ore deposits/ ore guides/ Morrison Formation/ Salt Wash Member/ reserves/ resources/ uranium/

Bush, A. L., 1953
uranium/ Placerville district/ vanadium/ Entra Sandstone/ sanandstone/ San Miguel County/ San Juan Mountains/ Colorado Plateau/ ore deposits/

San Juan Mountains/ uranium/ vanadium/ Entra Sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/ veins/ Placerville district/ sandstone/

Bush, A. L., 1954
San Juan Mountains/ San Miguel County/ mapping/ uranium/ vanadium/ sandstone/ Colorado Plateau/ veins/ Entra Sandstone/ geology/ ore deposits/ Placerville district/ Dolores County/

Bush, A. L., 1954
San Juan Mountains/ Placerville district/ San Miguel County/ uranium/ vanadium/ Entra Sandstone/ sandstone/ structure/ geology/ ore deposits/ Dolores County/ Colorado Plateau/ veins/

mapping/ Placerville district/ San Juan Mountains/ San Miguel County/ Entra Sandstone/ sandstone/ uranium/ vanadium/ ore deposits/ geology/ Colorado Plateau/

San Juan Mountains/ San Miguel County/ Dolores County/ Placerville district/ vanadium/ uranium/ Entra Sandstone/ sandstone/ ore deposits/ igneous-metamorphic/ Colorado Plateau/ veins/ geology/

Bush, A. L., 1956
vanadium/ uranium/ ore deposits/ Entra Sandstone/ veins/ sandstone/ San Juan Mountains/ San Miguel County/ Dolores County/ mineralogy/ Placerville district/ geology/ Colorado Plateau/

Bush, A. L., and Bryner, Leonid, 1953
carnitite/ roscoeite/ stratigraphy/ Entra Sandstone/ minerals/ Pony Express Limestone Member/ Wanakah Formation/ limestone/ sandstone/ Colorado Plateau/ uranium/ vanadium/ San Juan Mountains/ San Miguel County/ ore deposits/ San Juan County/ Dolores County/ La Plata County/ Lightner Creek district/ Placerville district/ resources/

minerals/ carnitite/ Calamity claims/ Calamity mines/ uranium/ Charles T. claims/ Club Mesa claims/ Legin mines/ sandstone/ Morrison Formation/ vanadium/ Mesa County/ Colorado Plateau/ reserves/ Uravan district/ Montrose County/ San Miguel County/ ore deposits/

reserves/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Colorado/ sandstone/
Sandstone/ siltstone

Mesa County/ Montrose County/ San Miguel County/ Ute Valley district/ reserves/ uranium/ vanadium/ carnitite/ sandstone/ Colorado Plateau/ Morrison Formation/

Mesa County/ Montrose County/ San Miguel County/ Ute Valley district/ reserves/ uranium/ vanadium/ carnitite/ sandstone/ Colorado Plateau/ Morrison Formation/

San Juan Mountains/ ore deposits/ Gray head quartz/ San Miguel County/ uranium/ vanadium/ granodiorite/ Placerville district/ Pinyon Express Limestone Member/ sandstone/ limestone/ Colorado Plateau/ igneous-metamorphic/

San Miguel County/ Placerville quadrangle/ geology/ map/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ Entrada Sandstone/ Colorado Plateau/

Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ Entrada Sandstone/ Colorado Plateau/

Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Black King mine/ Leopard Vanadium mine/ San Miguel County/ geology/ map/ Colorado Plateau/ ore deposits/

Colorado Plateau/ uranium/ vanadium/ ore deposits/ San Miguel County/ sediments/ Entrada Sandstone/ geology/ Jurassic/ areal geology/ uranium/ sandstone/ Placerville quadrangle/

San Miguel County/ Gray Head quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Colorado Plateau/ map/

sandstone/ ore deposits/ ore guides/ Colorado Plateau/ San Miguel County/ exploration/ drilling/ carnitite/ uranium/ Georgetown group claims/ Georgettoe claim/ vanadium/ Veta Mad claim/ ore production/ reserves/ resources/ Morrison Formation/ Salt Wash Member/

San Juan Mountains/ structure/ Placerville district/ San Miguel County/ igneous-metamorphic/ uranium/ vanadium/ selenium/ ore deposits/ Colorado Plateau/
SANDSTONE, SILTSTONE

deposits/ ore deposits/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

Cadigan, R. A., 1954
Colorado Plateau/ sandstone/ tuff/ alteration/ tuff estimation/ petrology/ stratigraphy/ ore deposits/ geochemistry/

Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Triassic/ Jurassic/

Cadigan, R. A., 1956
lithology/ Colorado Plateau/ petrology/ sediments/ Morrison Formation/ sandstone/ Montrose County/ ore deposits/ San Miguel County/ geochemistry/

Cadigan, R. A., 1957
lithology/ Colorado/ Cutler Formation/ Dolores Formation/ petrology/ arkose/ quartzite/ Utah/ Colorado Plateau/ ore deposits/ sandstone/ shale/

Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/

Cadigan, R. A., 1963
tuffaceous sandstone/ sandstone/ Chinle Formation/

Colorado Plateau/ petrography/ analyses/ Triassic strata/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Cadigan, R. A., 1972
geochemistry/ anomalies/ alteration/ Moenkopi Formation/ Skull Creek area/ Moffat County/ shale/ sandstone/ Colorado Plateau/

Morrison Formation/ Salt Wash Member/ sandstone/ stratigraphy/ ore deposits/ mineralogy/ uranium/ statistics/ Colorado Plateau/

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uranium/ occurrence/ California/ Colorado Plateau/ comparisons/ sandstone/ geology/

Campbell, G. C., and Schiottmann, J. D., 1957
uranium/ ore deposits/ stratigraphy/ mineralization/ geology/ geological surveys/ meteoric water/ siltstone/ Eagle County/ sandstone/ limestone/ Minturn Formation/ Vail Pass area/

Campbell, J. A., 1975
uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/

uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/

Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/
Cannon, H. L., 1951
Colorado Plateau/botanical studies/ore deposits/sandstone/geobotany/

Cannon, H. L., 1952
Mesa County/Montrose County/San Miguel County/Colorado Plateau/vegetation/uranium/vanadium/sandstone/botanical studies/Dolores County/Colorado/indicator plants/Utah/Morrison Formation/Astragalus/Salt Wash Member/geology/analyses/ore deposits/geobotany/

Cannon, H. L., 1953
geobotanical studies/indicator plants/carnotite/Colorado Plateau/New Mexico/experimental garden/sandstone/uranium/vanadium/selenium/absorber plants/ore deposits/geobotany/

Cannon, H. L., 1954
Colorado Plateau/botanical studies/uranium/geobotany/ore deposits/solls/ground water/exploration/absorber plants/indicator plants/Astragalus/sandstone/plant descriptions/

Cannon, H. L., 1954
Colorado Plateau/sandstone/exploration/vegetation/indicator plants/geobotany/

Cannon, H. L., 1955
Colorado Plateau/sandstone/vegetation/exploration/geobotany/indicator plants/

Cannon, H. L., 1956
Colorado Plateau/botanical studies/Astragalus/indicator plants/radium/New Mexico/equipment/sandstone/analyses methods/ore deposits/geobotany/

Cannon, H. L., 1957
Colorado Plateau/ore deposits/exploration/vegetation/indicator plants/Utah/botanical prospecting/geobotany/Colorado/sandstone/geochemistry/Marshall Pass/Saguache County/Lookout No. 22 claim/uraninite/igneous-metamorphic/Astragalus/botanical studies/

Cannon, H. L., 1957
Colorado Plateau/botanical prospecting/indicator plants/ore deposits/exploration/soil/sandstone/geobotany/plant descriptions/

Cannon, H. L., 1957
plant descriptions/Colorado Plateau/sandstone/exploration/uranium/Astragalus/vanadium/Utah/ore deposits/New Mexico/Arizona/Colorado/Wyoming/San Miguel County/Montrose County/San Miguel County/Montrose County/sandstone/botanical studies/indicator plants/

Cannon, H. L., 1960
Colorado Plateau/ore deposits/botanical prospecting/
Carter, W. D., and Galtieri, J. L., 1956
Montrose County/ Colorado/ Utah/ La Sal Creek area/ Morrison Formation/ sandstone/ Salt Wash Member/ drilling/ ore deposits/ Colorado Plateau/ Paradox district/

Carter, W. D., and Galtieri, J. L., 1957
Colorado Plateau/ La Sal Creek area/ Paradox district/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado/ Utah/ drilling/ stratigraphy/ structure/ Montrose County/ ore deposits/

Carter, W. D., and Galtieri, J. L., 1957
Map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geography/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

Carter, W. D., and Galtieri, J. L., 1965
Colorado/ Utah/ La Sal quadrangle/ ore deposits/ areal geography/ Montrose County/ vanadium/ uranium/ sandstone/ Colorado Plateau/ Morrison Formation/ geology/

Cater, W. D., and Galtieri, J. L., and Hedlund, D. C., 1954
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/

Cater, W. D., Galtieri, J. L., and Warman, J., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Paradox district/ Montrose County/ Colorado/ Utah/ La Sal Creek area/

Cater, W. D., Galtieri, J. L., and Warman, J., 1955
La Sal Creek area/ Montrose County/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ structure/ Colorado Plateau/ ore deposits/ exploration/ Paradox district/

Colorado/ Montrose County/ Mount Peale 1 NE quadrangle/ Utah/ Morrison Formation/ sandstone/ geology/ map/ uranium/ vanadium/ Colorado Plateau/

Case, J. E., 1967
Anomalies/ gravity surveys/ aeromagnetic surveys/ igneous-metamorphic/ ore guides/ geophysics/
SANDSTONE, SILTSTONE

Cater, F. W., Jr., 1953
San Miguel County/ Hamm Canyon quadrangle/ geology/ ore guides/ exploration/ minerals/ carnitite/ map/ Salt Wash Member/ sandstone/ Colorado Plateau/ ore deposits/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ Morrison Formation/ Uravan district/

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Colorado/ carnitite/ Mesa County/ Montrose County/ sandstone/ ore deposits/ Morrison Formation/ salt anticlines/ Salt Wash Member/ stratigraphy/ structure/ Colorado Plateau/ geology/ exploration/ mapping/ San Miguel County/

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Uravan district/ Dolores County/ San Miguel County/ Egmar quadrangle/ geology/ ore guides/ exploration/ minerals/ carnitite/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Charles T. mines/ map/ Golden Rod mines/ Ownby group/ Spud Patch group/ Legn mines/ Ike group of mines/ mines/ ore deposits/

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Bull Canyon quadrangle/ Montrose County/ sandstone/ San Miguel County/ Uravan district/ geology/ carnitite/ Salt Wash Member/ Colorado Plateau/ map/ Morrison Formation/

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Dolores County/ San Miguel County/ Egmar quadrangle/ Colorado Plateau/ carnitite/ Morrison Formation/ sandstone/ Charles T. mines/ Golden Rod mines/ ore deposits/ Ownby group of mines/ Spud Patch group/ Legn mines/ Ike group of mines/ geology/ map/ mines/ Sand Wash Member/

Cater, F. W., Jr., 1955
Mesa County/ Gateway district/ sandstone/ Colorado Plateau/ carnitite/ Morrison Formation/ Salt Wash Member/ shale/ Mammoth mine/ Yanaking No.

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Cater, F. W., Jr., 1955
San Miguel County/ Gypsum Gap quadrangle/ sandstone/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ Hermosa Formation/ Pitchfork mines/ Bald Eagle mines/ Long Ridge mines/ limestone/ geology/ map/ carnitite/

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Pine Mountain quadrangle/ sandstone/ Mesa County/ carnitite/ Uravan district/ Colorado Plateau/ Morrison Formation/ sandstone/ Sunflower claim/ geology/ map/ ore deposits/ Salt Wash Member/

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Mesa County/ carnitite/ Morrison Formation/ sandstone/ Maverick mines/ Arrowhead mines/ ore deposits/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ Calamity Mesa quadrangle/ Colorado Plateau/ geology/ map/ mines/ Salt Wash Member/

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San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Hermosa Formation/ limestone/ Pitchfork mines/ geology/ Bald Eagle mines/ Long Ridge mines/ map/ ore deposits/ Gypsum Gap quadrangle/

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San Miguel County/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ carnitite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview
SANDSTONE, SILTSTONE

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Dolores County/ San Miguel County/ Egner quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Ike group mines/ ore deposits/ Ownbey group/ Spud Patch group/ Legin mines/ geology/ map/ mines/ Golden Rod mines/ Salt Wash Member/

Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ map/ mines/ carnotite/ Joe Davis Hill quadrangle/ geology/ ore deposits/

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San Miguel County/ Colorado Plateau/ ore deposits/ map/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group/ Charles T. mines/ Georgeto mine/ Lower group of mines/ Upper group of mines/ mines/ geology/ Veta Mad mine/ Horse Range Mesa quadrangle/

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Naturita NW quadrangle/ Morrison Formation/ ore deposits/ sandstone/ Colorado Plateau/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ Montrose County/ San Miguel County/ geology/ map/ mines/ Salt Wash Member/

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Sandstone, Siltstone

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Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ explores/ stream sediments/ radioactivity/ San Miguel County/

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Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/

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stratigraphy/ Morrison Formation/ Colorado Plateau/
sandstone/ Recapture Member/ Mesa County/ Ouray
County/ Delta County/ Gunnison County/ Montrose
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Mesa County/ Colorado/ Utah/ Gateway district/ Uranium/ vanadium/ Morrison Formation/ Brushy Basin Member/ sandstone/ conglomerate/ Lumsden mines/ Colorado Plateau/ ore deposits/ Beaver Mesa area/ Salt Wash Member/

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Sandstone, Siltstone

uranium/ vanadium/ Sentinel Peak NE quadrangle/ map/ geology/

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stratigraphy/ Cretaceous/ Jurassic/ sandstone/ conglomerate/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan basin/

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geology/ mineralogy/ J. J. mine/ Montrose County/ uranium/ sandstone/ Morrison Formation/ Uruvan district/ Colorado Plateau/ ore deposits/ Jo Dandy area/

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sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/ stratigraphy/

maps/ drilling/ exploration/ Jo Dandy area/

Bull Canyon district/ Montrose County/ sandstone/ Colorado Plateau/ ore deposits/ Monogram Mesa area/

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Colorado Plateau/ reserves/ exploration/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ South Radium group area/ Slick Rock district/ San Miguel County/ ore deposits/

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uranium/ Colorado/ Colorado Plateau/ sandstone/

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SANDSTONE, SILTSTONE

Colorado Plateau/ ore deposits/ mineral assemblages/ coal/ macerals/ vitrain/ physical properties/ chemical properties/ uranium/ organics/ sandstone/

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uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/

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uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/

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uranium/ minerals/ vanadium/ liebligite/ Colorado Plateau/ Peanut mine/ Montrose County/ sandstone/ ore deposits/ Bull Canyon district/

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crystallography/ uranium/ minerals/ vanadium/ Colorado Plateau/ Peanut mine/ Montrose County/ sandstone/ ore deposits/ Bull Canyon district/

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thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montresolite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/

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thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montresolite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/

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hagglite/ doloresite/ deutonite/ Montrose County/ mineralogy/ chemistry/ Colorado Plateau/ crystal structure/ crystallography/ vanadium oxides/ sandstone/

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radioactivity/ rocks/ Colorado/ uranium/ thorium/ radium/ analyses/ igneous-metamorphic/ sedimentary/ sandstone/

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veins/ geologic environments/ geology/ uranium/ igneous-metamorphic/ sandstone/

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veins/ redistribution/ oxidation zones/ uranium/ Colorado/ sandstone/

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geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnotite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ San Juan Basin/ Montezuma County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadium Shield/

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Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/

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classifications/ genesis/ uranium/ ore deposits/ sandstone/ igneous-metamorphic/

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sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carpil mine/ Boulder County/ Schwartzwalder mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

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veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/

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Mesa County/ uranium production/sandstone/ Blue Mesa area/ reserves/resources/drilling/core/ Colorado Plateau/ exploration/ore deposits/

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Mesa County/ Blue Mesa area/ Moon Mesa area/ exploration/drilling/core/carnotite/uranium/production/sandstone/Colorado Plateau/drill data/ore deposits/

Finch, W. I., 1952
Colorado Plateau/ ore deposits/geology/ore guides/exploration/drilling/minerals/carnotite/uranium/prodution/Blue Mesa area/vanadium/reserves/resources/sandstone/Morrison Formation/Salt Wash Member/Mesa County/

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Colorado Plateau/ore deposits/resources/Paleozoic/Mesozoic/sandstone/Morrison Formation/Chinle Formation/Shinarump Member/conglomerate/

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Colorado Plateau/ore deposits/resources/exploration/Shinarump Member/conglomerate/reconnaissance/sandstone/

Finch, W. I., 1953
Colorado Plateau/ore deposits/resources/sandstone/

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uranium/ore deposits/Shinarump Member/conglomerate/Colorado Plateau/Colorado/sandstone/

Finch, W. I., 1953
uranium/ore deposits/Shinarump Member/conglomerate/Colorado Plateau/Colorado/sandstone/

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bituminous substances/ore deposits/uranium/Shinarump member/conglomerate/Chinle Formation/sandstone/resources/geology/Colorado Plateau/

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Colorado Plateau/sandstone/ore deposits/geology/Chinle Formation/Shinarump Member/conglomerate/reserves/

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Colorado Plateau/ore deposits/uranium/sandstone/copper/conglomerate/ore-bearing formation/limestone/vanadium/Rio Blanco County/Garfield County/Mesa County/geology/Delta County/San Miguel County/Dolores County/Rifle mine/Montezuma County/La Plata County/Greysill mine/Placerville district/Uravan district/Gateway district/map/geology/

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uranium/terrestrial sedimentary rocks/Maroon Formation/sandstone/Sangre de Cristo Formation/Cucharas district/Huerfano County/Park County/Garo deposit/vanadium/carnotite/tyuyamanite/

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uranium/terrestrial sedimentary rocks/Maroon Formation/sandstone/Sangre de Cristo Formation/Cucharas district/Huerfano County/Park County/Garo deposit/vanadium/carnotite/tyuyamanite/

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Colorado Plateau/ore deposits/production/Triassic/Chinle Formation/fossil wood/minerals/structures/Mesa County/Delta County/Montrose County/San Miguel County/Dolores County/Montezuma County/La Plata County/sandstone/conglomerate/shale/Garfield County/Rio Blanco County/geology/

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uranium/thorium/environment/resources/deposit types/prospecting techniques/production/ordeposits/exploration/sandstone/igneous-metamorphic/

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uranium/geology/ore deposits/resources/sandstone/igneous-metamorphic/

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copper/vanadium/silver/uranium/sedimentary deposits/Colorado Plateau/sandstone/Mesa County/Montrose County/Montezuma County/Dolores County/San Miguel County/

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vanadium/production/sandstone/Morrison Formation/Entrada Shinarump Member/conglomerate/ordeposits/Dolores County/San Miguel County/Montrose County/Colorado/Utah/Garfield County/Colorado Plateau/Entrada Sandstone/Mesa County/
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vanadium/ Colorado/ Utah/ Colorado Plateau/ uranium/ Entrada Sandstone/ sandstone/ Garfield County/ San Miguel County/

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sandstone/ Colorado Plateau/ vanadium/ genesis/ ore deposits/ Garfield County/ San Miguel County/

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Morrison Formation/ Entrada Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Urvan district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/

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Colorado Plateau/ uranium/ vanadium/ ore deposits/ genesis/ structure/ ground water/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/

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carnotite/ ore deposits/ Federal funding/ sandstone/ Colorado Plateau/ exploration/

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reserves/ resources/ Charles T. claims/ uranium/ Club Mesa area/ Maverick claims/ Radium claims/ Upper group/ Georgetown claims/ vanadium/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/

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uranium/ vanadium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ Colora do Plateau/ geochemistry/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

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uranium/ vanadium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ Colorado Plateau/ geochemistry/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

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uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Urvan district/

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uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Urvan district/

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ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ Entrada Sandstone/ sandstone/ Rifle district/ Garfield County/ genesis/ San Miguel County/ La Plata County/ Placerville district/ Rico district/ Dolores County/

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uranium/ vanadium/ ore deposits/ Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ La Plata County/ Rifle district/ Placerville district/ Rico district/ Durango district/ genesis/ localization/ Dolores County/ Entrada Sandstone/
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ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ genesis/ Rifcle Creek area/ Garfield County/ Entrada Sandstone/ sandstone/ geology/ stratigraphy/ mineralogy/

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vanadium/ uranium/ mineralogy/ Rifcle mine/ Rifle Creek area/ Garfield County/ ore deposits/ Entrada Sandstone/ Morrison Formation/ sandstone/ Colorado Plateau/

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Colorado/ vanadium/ sandstone/ Entrada Sandstone/ Garfield County/ United States/ Colorado Plateau/

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Colorado/ vanadium/ sandstone/ Colorado Plateau/.

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gcology/ structure/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chinle Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/ Colorado Plateau/ ore deposits/

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Colorado Plateau/ exploration/ drilling/ ore deposits/ reserves/ resources/ uranium/ vanadium/ sandstone/ carnitite/ Morrison Formation/ Entrada Sandstone/ Placerville district/ San Miguel County/ Utah/ Arizona/

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Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uravan mineral belt/ sandstone/ ore deposits/ Morrison Formation/ Colorado Plateau/ carnitite/ exploration/ geology/ vanadium/ uranium/ Uravan district/

Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uravan mineral belt/ sandstone/ Morrison Formation/ Colorado Plateau/ ore deposits/ carnitite/ exploration/ geology/ vanadium/ uranium/ Uravan district/

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Uravan mineral belt/ ore deposits/ carnitite/ Mesa County/ Montrose County/ Outlaw Mesa/ Calamity Mesa/ Club Mesa/ Long Park/ exploration/ geology/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ Uravan district/ Dolores County/ San Miguel County/ ore guides/ production/ vanadium/

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bed distribution/ lithology/ sandstone/ uranium/ vanadium/ copper/ Colorado/ Morrison Formation/ Colorado Plateau/ ore deposits/ San Miguel County/ Garfield County/ Entrada Sandstone/

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copper/ vanadium/ uranium/ ore deposits/ sandstone/ Colorado Plateau/ Entrada Sandstone/ geochemistry/ San Miguel County/ Garfield County/

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Colorado/ mineral deposits/ map/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/ ore deposits/

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vanadium/ uranium/ Placerville district/ San Miguel County/ sandstone/ Entrada Sandstone/ ore deposits/ Colorado Plateau/

Fischer, R. P., Haff, J. C., and Rominger, J. R., 1947
uranium/ ore deposits/ San Miguel County/ vanadium/ sandstone/ Entrada Sandstone/ Colorado Plateau/ Placerville district/
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<th>Author(s)</th>
<th>Year</th>
<th>Notes</th>
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<td>Fischer, R. P., Hilpert, L. S., Schumacher, J. L., and others</td>
<td>1951</td>
<td>Investigations of carnotite/ore deposits/sandstone/Colorado Plateau/Morrison Formation/Chinle Formation/Entrada Sandstone/ San Miguel County/Mesa County/Dolores County/Garfield County</td>
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<td>1916</td>
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weathering/ transportation/ deposition/ Jo Dandy area/ Colorado Plateau/ Mineral Joe mine/ Montrose County/ sandstone/ Uravan district/ San Miguel County/ ore deposits/

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Sandstone, Siltstone

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Sandstone, Siltstone

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SANDSTONE, SILTSTONE

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Colorado Plateau/ ore deposits/ exploration/ channels/ sandstone/ uranium/ ore concentration/ San Miguel County/ Montrose County/ Mesa County/

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uranium/ occurrences/ ground water/ ore deposits/ sandstone/ flow systems/

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ore deposits/ stratigraphy/mineralogy/mineralization/

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elements/ distribution/ ore rolls/ uranium/ ore deposits/ Colorado/ genesis/ Wyoming/ sandstone/

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Long Park/ ore deposits/ resources/ geology/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/

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Colorado Plateau/ ore deposits/ geochemistry/
SANDSTONE, SILTSTONE

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Colorado/ Utah/ geology/ structure/ ore deposits/ uranium/ Cortez quadrangle/ map/ host formations/ sandstone/ San Miguel County/ Dolores County/ La Plata County/ Colorado Plateau/ stratigraphy/ Montezuma County/

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steigerite/ properties/ Gypsum Valley district/ San Miguel County/ Colorado Plateau/ sandstone/ minerals/

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carnotite/ vanadium/ San Miguel County/ Mesa County/ Gateway district/ Gypsum Valley district/ Colorado/ Colorado Plateau/ sandstone/ rillandite/ Utah/ carnitite/

minerals/ resources/ ore deposits/ Colorado/ New Mexico/ Montezuma County/ sandstone/ Colorado Plateau/ Ute Mountain Indian Reservation/

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Colorado/ vanadium/ uranium/ tungsten/ molybdenum/ bismuth/ tantalum/ sandstone/ ore deposits/ Colorado Plateau/

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ore deposits/ Colorado/ vanadium/ sandstone/ Colorado Plateau/ uranium/ tungsten/

Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/ bismuth/ sandstone/ Colorado Plateau/ ore deposits/

Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/ bismuth/ sandstone/ Colorado Plateau/ ore deposits/

Hess, F. L., 1913
Placerville district/ vanadium/ sandstone/ geology/ San Miguel County/ Entrada Sandstone/ ore deposits/ Colorado Plateau/

Hess, F. L., 1913
Colorado Plateau/ uranium/ vanadium/ sandstone/ ore deposits/

Hess, F. L., 1914
genesite/ carnitite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/

Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Hess, F. L., 1925
carnotite/ vanxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ ore deposits/ Delta County/

Hess, F. L., 1925
Colorado/ Colorado Plateau/ uranium/ vanadium/ sandstone/ radium/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/ resources/

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Colorado/ Colorado Plateau/ uranium/ vanadium/ radium/ sandstone/ ore deposits/ resources/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/ radium/ sandstone/ ore deposits/ resources/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/ gold/ silver/ molybdenum/ sediments/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

Heyl, A. V., 1954
Montrose County/ mineralogy/ petrology/ geochemistry/ zoning/ monroesite/ Bitter Creek mines/ carvusite/ pascoite/ rauvitc/ uraninite/ Urean district/ asphaltite/ Bitter Creek mines/ pyroblumen/ uranium/ thucholite/ sandstone/ Morrison Formation/ Salt Wash Member/ vanadium/ Colorado Plateau/ ore deposits/

Heyl, A. V., 1956
Urean district/ Bitter Creek mine/ ore deposits/ zoning/ Morrison Formation/ sandstone/ Montrose County/ Colorado Plateau/ uranium/ geology/ vanadium/ mineralogy/ petrology/ geochemistry/ rauvitc/ uraninite/ thucholite/ Salt Wash Member/ corvusite/ monroesite/ pascoite/

High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/
High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ igneous-metamorphic/ San Miguel County/ Colorado Plateau/ Mesa County/

High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Mesa County/ Saguache County/ igneous-metamorphic/ Pitch mine/ Colorado Plateau/ Dolores County/

High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/ mines/ reports/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/

High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ mines/ Colorado Plateau/

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uranium/ vanadium/ mapping/ geological studies/ drilling/ Dolores County/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/ Rico-Argentine district/

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vanadium/ analyses/ molybdenum/ ore deposits/ Colorado Plateau/ sandstone/

Hillebrand, W. F., 1900
vanadium/ molybdenum/ analyses/ Colorado Plateau/ sandstone/

Hillebrand, W. F., 1924
Colorado/ Utah/ ore deposits/ minerals/ carnotite/ tyuyamunite/ sandstone/ analyses/ Colorado Plateau/

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carnotite/ vanadium/ minerals/ sandstone/ ore deposits/ Colorado Plateau/ Montrose County/ San Miguel County/ analyses/

Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ Colorado Plateau/

Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1914
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ hewettite/ metahewettite/ pascoite/ Colorado Plateau/ hydrous calcium vanadates/

Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1915
Paradox Valley/ Colorado Plateau/ minerals/ sandstone/ San Miguel County/ hydrous calcium vanadates/ hewettite/ metahewettite/ pascoite/ vanadium/

Hillebrand, W. F., Wright, F. E., and Merwin, H. E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/ Utah/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ minerals/ Mesa County/

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tectonics/ Proterozoic rocks/ Wyoming/ Colorado/ South Dakota/ sandstone/

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San Miguel County/ exploration/ drilling/ reserves/ Ellison claims/ Upper group claims and mines/ sandstone/ ore deposits/ Colorado Plateau/ Burro claims/ uranium/ vanadium/ Morrison Formation/ Slick Rock district/ Salt Wash Member/

Hilpert, L. S., 1952
Colorado Plateau/ exploration/ Spud Patch area/ sandstone/ Morrison Formation/ Salt Wash Member/ ore deposit/ reserves/ drilling/ uranium/ vanadium/ San Miguel County/

Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ drilling/ Morrison Formation/ Uravan district/ Yellow Cat mine/ Monogram Mesa/ Gateway district/

Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/ Mesa County/ San Miguel County/ Dolores County/ drilling/ exploration/ ore deposits/ Morrison Formation/ Uravan district/ Salt Wash Member/ Uravan district/ Gateway district/ Gypsum Valley district/ Montrose County/

Hilpert, L. S., and Fischer, R. P., 1949
Mesa County/ uranium/ vanadium/ minerals/ carnotite/ drilling/ exploration/ ore deposits/ Outlaw Mesa/ sandstone/ Gateway district/ Colorado Plateau/ analyses/

Holland, H. D., and others, 1958
uranium/ leachable ores/ Utah/ ore deposits/ Colorado Plateau/ sandstone/

Holmes, C. N., 1949
geochemistry/ carnotite/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/
**Montezuma County**/ **Entrada Sandstone**/ stratigraphy/ Morrison Formation/ Colorado Plateau/  

**Holmes, C. N., 1960**  
Colorado/ Colorado Plateau/ sandstone/ Jurassic history/ stratigraphy/ paleogeography/ paleogeology/ Morrison Formation/  

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Jurassic history/ stratigraphy/ Colorado/ Colorado Plateau/ sandstone/ geology/ Morrison Formation/  

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Mesa County/ Montrose County/ copper/ sandstone/ Colorado Copper Company/ Colorado Plateau/  

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Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/  

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Glen Canyon Formation/ San Raphael Formation/ correlation/ sandstone/ La Plata County/ Jurassic Formations/ stratigraphy/ Ute/ Colorado/ Arizona/ New Mexico/ San Juan basin/ Archuleta County/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/  

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transportation/ precipitation/ vanadium/ Colorado/ sandstone/ geochemistry/ minerals/ Colorado Plateau/  

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Montezuma County/ Colorado Plateau/ Moqui SW quadrangle/ Ute Mountains/ Morrison Formation/ sandstone/ uranium/ vanadium/ map/ geology/ Salt Wash Member/  

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Ute Mountains/ Montezuma County/ Dolores County/ sandstone/ Cretaceous strata/ Colorado Plateau/ Dakota Sandstone/  

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Colorado Plateau/ Montezuma County/ San Juan basin/ sandstone/ Cretaceous/ black sandstones/ stratigraphy/ structure/ mineralogy/ placer deposits/ heavy minerals/ monazite/ zircon/ ilmenite/ depositional environment/  

**Huff, L. C., 1954**  
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ mapping/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores County/ San Miguel County/ ore deposits/  

**Huff, L. C., 1955**  
Colorado/ Utah/ ore deposits/ Colorado Plateau/  

Dolores County/ San Miguel County/ stratigraphy/ Salt Wash Member/ sandstone/ uranium/ vanadium/ Sage Plain area/ Morrison Formation/  

**Huff, L. C., and Lesure, F. G., 1956**  
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ Salt Wash Member/ geochemistry/ Middle Montezuma group/ Coyote No. 1 mine/ Verdiure mine/ Strawberry mine/ Rainbow mine/ ore deposits/ geophysical logs/ Lucky Boy mine/  

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Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ mines/ Salt Wash Member/ ore deposits/  

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Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Salt Wash Member/ sandstone/ stratigraphy/ mapping/ structure/ ore deposits/ geochemistry/ mines/ Sage Plain area/ Morrison Formation/  

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plants/ ash/ uranium/ analyses/ fluorimetry/ geobotany/ Colorado Plateau/ sandstone/  

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exploration/ vanadium/ Colorado/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/  

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Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/  

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drilling/ Colorado Plateau/ sandstone/ San Miguel County/ drilling trends/ ore deposits/ reserves/ Montrose County/ Mesa County/  

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uranium/ crude oil/ petroleum/ Moffat County/ conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/ Morrison Formation/ Archuleta County/ Cretaceous/ Dakota Sandstone/ Mancos Shale/ Morgan County/ Rio Blanco County/ sandstone/ trace elements/ Shinarump Member/ Fremont County/  

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uranium/ exploration/ geology/ ore deposits/ United States/ sandstone/ igneous-metamorphic/  

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uranium/ ore deposits/ genesis/ United States/ sandstone/ igneous-metamorphic/  

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Skull Creek district/ Uranium Peak district/ ore deposits/ Garfield County/ sandstone/ Rio
SANDSTONE, SILTSTONE

Blanco County/ Moffat County/ guidebook/ Colorado Plateau/

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Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ San Miguel County/ Dolores County/ Big Indian Wash - Lisbon Valley district/ Mesa County/ stratigraphy/ structure/

Isachsen, Y. W., 1956
Colorado Plateau/ tectonics/ ore deposits/ sandstone/ genesis/

Isachsen, Y. W., 1956
Colorado Plateau/ ore deposits/ genesis/ tectonics/ sandstone/

Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash - Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/

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uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

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Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

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sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnitite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/

geology/ map/ Hot Sulphur Springs SE quadrangle/ quartz monzonite/ igneous-metamorphic/ Grand County/ Middle Park Formation/ siltstone/ sandstone/ conglomerate/ arkose/ Lucky Jack mine/ Precambrian rocks/

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Browns Park Formation/ sandstone/ Moffat County/ volcanic rocks/ igneous-metamorphic/ K-Ar age dating/ stratigraphy/ Colorado Plateau/

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mining/ Park County/ uranium/ Gold Star deposit/ sandstone/ ore deposits/

Sandstone, Siltstone

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Fremont County/ Tallahassee Creek district/ ore deposits/ uranium/ sandstone/ arkose/ volcanic detritus/ igneous-metamorphic/ Dickson-Snooper mine/ Sunshine mine/

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Colorado Plateau/ ore deposits/ mineralization/ sulfides/ uranium/ sandstone/ uranium/ San Miguel County/ Montrose County/ Dolores County/ Morrison Formation/ Entrada Sandstone/

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Colorado Plateau/ Wyoming/ ore deposits/ genesis/ geochemistry/ sulfur isotopes/ sandstone/ uranium/ Montrose County/ San Miguel County/ Garfield County/ Morrison Formation/ Entrada Sandstone/

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U.S. Vanadium Co. property/ sandstone/ Colorado Plateau/ reserves/ ore deposits/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Jobin, D. A., 1952
U.S. Vanadium Co. property/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Jobin, D. A., 1952
Vanadium Corp. of America property/ Colorado Plateau/ ore deposits/ sandstone/ reserves/ Dolores Bench/ King Solomon claim/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/

Jobin, D. A., 1953
Colorado Plateau/ exploration/ Dolores Bench/ ore deposits/ Montrose County/ sandstone/ geology/ reserves/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Uranium/ Uranium district/

Jobin, D. A., 1953
ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
SANDSTONE, SILTSTONE

uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/

Colorado Plateau/ ore deposits/ sandstone/ reserves/ exploration/ Atkinson Mesa/ Montrose County/ geology/ drilling/ uranium/ vanadium/ Morrison Formation/ Uranav district/ Salt Wash Member/

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Colorado Plateau/ geophysics/ exploration/ sandstone/

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regional studies/ Colorado Plateau/ gravity studies/ aeromagnetics/ sandstone/ geophysics/

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Colorado Plateau/ regional studies/ gravity studies/ aeromagnetics/ sandstone/ geophysics/

Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/

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aeromagnetics/ gravity surveys/ Colorado Plateau/ sandstone/ geophysics/ ore deposits/

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Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ Colorado Plateau/ geology/ Dolores County/ Montrose County/

Joesting, H. R., and Byerly, P. E., 1956
aeromagnetics/ gravity profiles/ sandstone/ Colorado Plateau/ Colorado/ Utah/ Mesa County/ Montrose County/ Dolores County/ Uravan district/ geology/ ore deposits/ geophysics/ San Miguel County/
Sandstone, Siltstone

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Moffat County/ airborne surveys/ radioactivity/ maps/ sandstone/ Sunny Peak SW quadrangle/ Browns Park Formation/ Miocene/ Sunny Peak SE quadrangle/

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Moffat County/ airborne surveys/ radioactivity/ map/ sandstone/ Sunny Peak NW quadrangle/ Browns Park Formation/ Miocene/ Sunny Peak NE quadrangle/

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Triassic sediments/ Jurassic sediments/ Colorado Plateau/ sandstone/ thucholite/ carbon/ ore deposits/

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lithology/ cores/ Colorado Plateau/ Morrison Formation/ petrography/ Salt Wash Member/ sediments/ sandstone/ structure/ Mesa County/ Montrose County/ San Miguel County/ shale/ siltstone/ Bull Canyon district/

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ore deposits/ Colorado/ uranium/ United States/ sandstone/ Front Range/ igneous-metamorphic/ Colorado Plateau/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ La Plata County/ Larimer County/ Eagle County/ igneous-metamorphic/

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carnotite/ sandstone/ ionium/ thorium/ Colorado Plateau/ Colorado/ barium sulfate/ trace elements/ geochemistry/

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ore deposits/ resources/ production/ uranium/ sandstone/ Colorado/ Colorado Plateau/

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ore deposits/ uranium/ geography/ mining/ exploration/ maps/ tonnage/ grade/ Lightner Creek district/ San Juan basin/ Colorado Plateau/ production/ sandstone/ La Plata County/

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sandstone/ Morrison Formation/ electrical properties/ logging/ geophysics/ Colorado Plateau/ Spud Patch area/ uranium/ vanadium/ ore deposits/ San Miguel County/ Montrose County/ gramlich claims/ La Sal Creek area/ Utah/ Urvan district/ Long Park district/

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resistivity/ geophysics/ exploration/ ore deposits/ Spud Patch area/ San Miguel County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Utah/ White Canyon district/ Colorado Plateau/

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electrical properties/ sandstone/ Morrison Formation/ geophysics/ resistivity/ porosity/ Dolores County/ Mesa County/ Montrose County/ San Miguel County/ Urvan district/ exploration/ Colorado Plateau/

Keller, G. V., 1959
Colorado/ Utah/ ore deposits/ exploration/ resistivity/ Colorado Plateau/ Spud Patch area/ San Miguel County/ sandstone/ Morrison Formation/ geophysics/

Keller, G. V., and Licastro, P. H., 1959
dielectric constant/ electrical resistivity/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Miguel County/ Dolores County/ cores/ Colorado Plateau/ Morrison Formation/

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Colorado Plateau/ ore deposits/ mudstone/ clay minerals/ uranium/ vanadium/ Morrison Formation/ San Miguel County/ Chinle Formation/ Montrose County/ Mesa County/ Dolores County/ sandstone/ clay minerals/

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clay minerals/ Morrison Formation/ kaolinite/ illite/ depositional environments/ Colorado Plateau/ sandstone/ type section/ geochemistry/ analyses/ Jefferson County/ Front Range/

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Colorado Plateau/ clay minerals/ mudstone/ sandstone/ mineralogy/

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Colorado Plateau/ clay minerals/ mudstone/ Long Park area/ Slick Rock district/ Urvan district/ Club mines/ mudstone/ ore deposits/ Utah/ uranium/ vanadium/ mineralogy/ Dolores County/ San Miguel County/ Montrose County/ sandstone/

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clay studies/ Jurassic rocks/ mineralogy/ sandstone/ Montrose County/ glauconitic mica/ geochemistry/ Colorado Plateau/ Urvan district/ Morrison Formation/

Keller, W. D., 1956
clay studies/ Colorado Plateau/ Jurassic rocks/
SANDSTONE, Siltstone

mudstone/ analyses/ Montrose County/ Gunnison County/ San Miguel County/ Saplino/ Slick Rock district/ sandstone/ Uravan district/ Morrison Formation/

Keller, W. D., 1957

glaucnite/ mica/ Morrison Formation/ Lone Tree Mesa/ Montrose County/ analyses/ sandstone/ Colorado Plateau/

Keller, W. D., 1957

clay/ Jurassic rocks/ Morrison Formation/ sandstone/ mineralogy/ mudstone/ Colorado Plateau/ Montrose County/

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clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

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drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/

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cost review/ exploration/ Colorado Plateau/ drilling/ statistics/ Mesa County/ drilling rates/ Utah/ sandstone/ Montrose County/

Kelly, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelly, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ sandstone/

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Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelly, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

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structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/}

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jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Delta County/ Rio Blanco County/ Moffat County/ San Miguel County/

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Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

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cost review/ exploration/ Colorado Plateau/ drilling/ statistics/ Mesa County/ drilling rates/ Utah/ sandstone/ Montrose County/

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resources/ exploration/ geophysics/ ore deposits/ Montrose County/ sandstone/ vanadium/ uranium/ Colorado Plateau/ geology/

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air/ alpha sources/ ore deposits/ building materials/ Colorado/ concretes/ daughter products/ radiation monitoring/ radioactivity/ radon/ uranium/ Mesa County/ sandstone/ Colorado Plateau/

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Colorado Plateau/ uranium/ minerals/ ore deposits/ sandstone/

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veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/

Kerr, P. F., 1956

uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ igneous-metamorphic/

Kerr, P. F., 1956

veins/ alteration/ exploration/ uranium/ geology/
SANDSTONE, SILTSTONE

Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/

Kerr, P. F., 1958
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SANDSTONE, SILTSTONE

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908
SANDSTONE, Siltstone

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maps/ drilling/ exploration/ sandstone/ San Miguel bench area/ Uravan district/ Montrose County/ Colorado Plateau/ Spring Creek Mesa area/

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SANDSTONE, SILTSTONE

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Sandstone, Siltstone

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sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/

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geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/

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Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

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Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chinle Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ igneous-metamorphic/ Front Range/

Front Range/ Colorado Plateau/ stratigraphy/ botanical projections/ mineralogy/ Ralston Buttes district/ black shale/ reconnaissance/ analyses/ Jefferson County/ sandstone/ igneous-metamorphic/

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SANDSTONE, SILTSTONE

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drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/

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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/

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sandstone/ Gypsum Valley district/ Montrose County/ San Miguel County/ maps/ drilling/ exploration/ Colorado Plateau/

maps/ drilling/ exploration/ sandstone/ Atkinson Mesa/ Dolores Bench area/ Uravan district/ Montrose County/ Colorado Plateau/

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SANDSTONE, SILTSTONE

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montroseite/ Montrose County/ Bitter Creek mine/ Jo Dandy mine/ Matchless mine/ Mesa County/ Colorado Plateau/ vanadium/ mineral properties/ geochemistry/ x-ray analyses/ sandstone/

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SANDSTONE, SILTSTONE

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Wilmarth, V. R., 1951 Thucholite/ Robinson property/ Placerville district/ Weatherly property/ asphaltite/ hydrocarbons/ pyrobitumens/ base metals/ precious metals/ veins/ fault breccia/ shear zone material/ limestone/ Dolores Formation/ ore deposits/ Colorado Plateau/ San Miguel County/ structure/ Cutler Formation/ sandstone/

Wilmarth, V. R., 1953 veins/ Shirley May mine/ radioactivity/ Garo deposit/ sandstone/ Maroon Formation/ copper/
Sandstone, Siltstone

vanadium/ Park County/ uranium/ geology/ ore deposits/

Wilmarth, V. R., 1958
Park County/ Shirley May mine/ Garo deposit/ sandstone/ uranium/ vanadium/ copper/ Maroon Formation/ geology/ ore deposits/

Wilmarth, V. R., 1959
geology/ uranium/ vanadium/ Park County/ sandstone/ Maroon Formation/ Shirley May mine/ ore deposits/ Garo deposits/ copper/

Wilmarth, V. R., and Hawley, C. C., 1958
San Miguel County/ Placerville district/ vanadium/ sandstone/ geology/ ore deposits/ Colorado Plateau/ Entrada Sandstone/

Wilmarth, V. R., and Smith, L. E., 1952
drilling/ geology/ reconnaissance/ Maroon Formation/ sandstone/ ore deposits/ structure/ Park County/ uranium/ reserves/ resources/ minerals/ calciovolborthite/ carnitite/ tanyamunitite/ volborthite/ vanadium/ copper/ Garo deposit/ Shirley May deposit/

Wilmarth, V. R., and Vickers, R. C., 1953
Colorado Plateau/ geology/ organic material/ sandstone/ shale/ San Miguel County/ Placerville district/ minerals/ uranophane/ asphaltite/ hydrocarbons/ pyrobitumen/ thucholite/ Barbara J claim/ ore deposits/ New Discovery lode/ Robinson property/ Weatherly property/ White Spar claims/ Black King claims/ Cutler Formation/ economic geology/ Dolores Formation/

Wilpoit, R. H., 1956
Colorado Plateau/ sandstone/ exploration/ sandstone/

Wilson, H. D., 1953
crchromium/ vanadium/ titanium/ ore deposits/ geochemistry/ Colorado Plateau/ sandstone/

Wilson, J. H., 1923
Denver area/ ore deposits/ carnitite/ sandstone/ Jefferson County/ Leyden coal mine/ Front Range/ Laramie Formation/

Winterhalder, E. C., 1953
veins/ reconnaissance/ North Park/ Jackson County/ uranium/ Sheep Mountain prospect/ Pedad prospect/ igneous-metamorphic/ fluorite/ ore deposits/ Dakota Sandstone/ sandstone/ conglomerate/ chert/ breccia breccia zones/ geology/ Precambrian rocks/

Withington, C. F., 1949
Montrose County/ Paradox quadrangle/ Colorado Plateau/ Urrgan district/ carnitite/ structure/ stratigraphy/ Salt Wash Member/ sandstone/ Cashin mine/ Cliff Dweller mine/ copper/ silver/ vanadium/ uranium/ Skelina Mesa/ geology/ Morrison Formation/

Withington, C. F., 1950
minerals/ carnitite/ geology/ sandstone/ reserves/ Slick Rock district/ San Miguel County/ Upper group area/ exploration/ drilling/ production/ resources/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/

Withington, C. F., 1951
Colorado Plateau/ San Miguel County/ exploration/ drilling/ Upper group claims/ uranium/ production/ reserves/ resources/ vanadium/ Slick Rock/ geology/ minerals/ carnitite/ roscoelite/ sandstone/ Morrison Formation/ Salt Wash Member/

Withington, C. F., 1954
Uravan district/ Montrose County/ Paradox quadrangle/ geology/ ore deposits/ minerals/ carnitite/ Cashin mine/ Cliff Dweller mine/ genesis/ uranium/ ore deposits/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Colorado Plateau/

Withington, C. F., 1955
Colorado Plateau/ stratigraphy/ structure/ Salt Wash Member/ sandstone/ carnitite/ copper/ silver/ vanadium/ uranium/ Wray Mesa/ Skelina Mesa/ Cliff Dweller mine/ Uravan district/ Cashin mine/ Morrison Formation/ Montrose County/ geology/

Withington, C. F., 1955
Montrose County/ Paradox quadrangle/ Colorado Plateau/ stratigraphy/ structure/ Morrison Formation/ geology/ Salt Wash Member/ sandstone/ carnitite/ vanadium/ uranium/ copper/ silver/ Skelina Mesa/ Cashin mine/ Cliff Dweller mine/ Wray Mesa/ Uravan district/

Withington, C. F., and Bush, A. L., 1950
carnitite/ geology/ exploration/ Colorado Plateau/ San Miguel County/ drilling/ Burro claim/ Ellision claim/ production/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

Montrose County/ San Miguel County/ Gypsum Valley district/ exploration/ sandstone/ Colorado Plateau/

Withington, C. F., and Scott, J. B., 1953
Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ Contact No. 4 claim/ Gypsum Valley district/ San Miguel County/ sandstone/ Morrison Formation/ breccia/ uranium/ vanadium/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ front range/ coal/ igneous-metamorphic/

Wood, H. B., 1956
Colorado Plateau/ ore deposits/ genesis/ age/ environment/ production/ host rocks/ sandstone/

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Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ front range/

gold/ ore deposits/ uranium/ Lisbon Valley area/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/
Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

uranium/ sandstone/ ore deposits/ Colorado Plateau/ Uravan district/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ sandstone/

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Entrada Sandstone/ Jurassic/ sandstone/ stratigraphy/ Colorado/ Utah/ Colorado Plateau/ ore deposits/ geology/

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San Rafael Group/ Entrada Sandstone/ sandstone/ Colorado Plateau/ geology/ ore deposits/

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Entrada Sandstone/ sandstone/ San Rafael Group/ Colorado Plateau/ geology/ ore deposits/

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San Rafael Group/ Entrada Sandstone/ sandstone/ Colorado Plateau/ geology/ ore deposits/

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Entrada Sandstone/ sandstone/ San Rafael Group/ Colorado Plateau/ geology/ ore deposits/

Wright, J. C., and Dickey, D. D., 1957
San Rafael Group/ Entrada Sandstone/ sandstone/ Colorado Plateau/ geology/ ore deposits/

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San Rafael Group/ Entrada Sandstone/ sandstone/ Colorado Plateau/ geology/ ore deposits/

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uranium/ exploration/ Colorado/ Colorado Plateau/ sandstone/ ore deposits/ geiger counters/

Wright, R. J., 1953
lithology/ ore controls/ sandstone/ uranium/ ore deposits/ Colorado Plateau/ Colorado/ genesis/

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ lithologic controls/ sandstone/ lithology/ ore controls/ genesis/

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

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Colorado Plateau/ ore deposits/ genesis/ uranium/ sandstone/

Wright, R. J., and Everhart, D. L., 1960
ore deposits/ resources/ reserves/ Colorado Plateau/ production/ sandstone/

Wyant, D. G., and Fischer, W. A., 1957
Colorado Plateau/ geologic maps/ 2° sheets/ ore deposits/ geology/ sandstone/

Wyant, D. G., Beroni, E. P., and Granger, H. C., 1951
Colorado Plateau/ uranium/ ore deposits/ conglomerate/ shale/ sandstone/

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ore deposits/ uranium/ sandstone/ Colorado Plateau/

Wyant, D. G., Fischer, W. A., O'Sullivan, R. B., and others, 1958
Colorado Plateau/ sandstone/ 2° sheets/ geology/ geologic maps/ ore deposits/

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Colorado Plateau/ geologic mapping/ geologic maps/ sandstone/ geology/ ore deposits/

Wyman, R. V., 1970
Colorado Plateau/ ore deposits/ genesis/ geochemistry/ ground water/ uranium/ sandstone/

Young, Neal, 1957
economic map/ ore deposits/ Mount Peale quadrangle/ Utah/ Colorado/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ geology/

Zareski, G. K., 1954
Colorado/ Utah/ Wray Mesa/ ore deposits/ Morrison Formation/ exploration/ reconnaissance/ Montrose County/ stratigraphy/ structure/ Brushy Basin Member/ Salt Wash Member/ sandstone/ carnitite/ uranium/ vanadium/ shale/ mudstone/ Colorado Plateau/

Great Plains/ uranium/ host rocks/ structure/ sandstone/
SPRING DEPOSITS, GROUNDWATER

SPRING DEPOSITS, GROUNDWATER

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geology/ sandstone/ reconnaissance/ marine black shales/ Entada Sandstone/ Curtis Formation/ igneous-metamorphic/ Skull Creek district/ Bozo claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ carnallite/ uranium/ springs/ migmatite/ granite/ Colorado/ Wyoming/ Utah/

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Delta County/ spring deposits/ radioactive springs/ radium/ geochemistry/

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gochemistry/ radioactive springs/ exploration/ Delta County/ spring deposits/ radium/ uranium/

springs/ spring deposits/ Delta County/ geochemistry/ exploration/ radioactive springs/ uranium/

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George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

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Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/

Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/

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Delta County/ spring deposits/ radium/ Doughty Springs/ Colorado Plateau/

Headden, W. P., 1905
Delta County/ spring deposits/ radium/ alunogen/ Doughty Springs/ Colorado Plateau/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

Headden, W. P., 1905
Delta County/ spring deposits/ radium/ Doughty Springs/ Colorado Plateau/

King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatite/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/

Lester, O. C., 1918
springs/ radioactivity/ mineral springs/ Colorado/ spring deposits/ Delta County/ Boulder County/

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive lithonite/ Lucky Break iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive lithonite/ Lucky Break iron mine/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ El Paso County/ Igneous-metamorphic/ ore deposits/

Malse, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground water/ mineralization/ sandstone/ Jurassic/ syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
Maan, R. C., 1957
uranium/mineralization/surface waters/meteoric waters/geochemistry/radiometric analysis/chemical analysis/carbonates/carbon dioxide/geology/peat beds/Spring claims/organics/Jackson County/spring deposits/

San Juan Mountains/Dolores County/Le Plata County/pitchblende/reconnaissance/radioactivity/mining districts/fractures/andesite/San Miguel County/hydrocarbons/calcareous tufa/hot springs/limonite/alteration/diorite/veins/fault breccia/shear zone materials/San Juan tuff/Uncompahgre Formation/igneous-metamorphic/spring deposits/Colorado Plateau/

U.S. Atomic Energy Commission, 1966
geology/uranium/geophysical prospecting/economic geology/mining engineering/petrology/minerals/radioactivity/Jackson County/reconnaissance/ore deposits/igneous-metamorphic/spring deposits/sandstone/

U.S. Atomic Energy Commission, 1966
geology/uranium/geophysical prospecting/economic geology/mining engineering/petrology/minerals/radioactivity/Ouray County/reconnaissance/ore deposits/spring deposits/igneous-metamorphic/Colorado Plateau/San Juan Mountains/

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Colorado Plateau/ore deposits/genesis/geochemistry/ground water/uranium/sandstone/
Colorado Plateau

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Colorado Plateau/ ore deposits/ alteration/ sandstone/ Chinle Formation/

Chinle Formation/ silicification/ Colorado Plateau/ Colorado/ sandstone/ uranium/

organic material/ asphaltite/ uranium/ coffinite/ Colorado Plateau/ spectroscopy/ chemistry/minerals/

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Dolores County/

ore rolls/ uranium/ occurrence/ genesis/ chemical characteristics/ Utah/ sandstone/ New Mexico/ Colorado Plateau/ Entrada Sandstone/ physical characteristics/ Morrison Formation/

Albee, H. F., 1956
sandstone/ pebbles/ size/ Shinarump Member/ Moss Back Member/ Chinle Formation/ conglomerate/ Colorado Plateau/

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Colorado/ Utah/ Arizona/ vanadium/ Placerville district/ San Miguel County/ sandstone/ Eagle County/ carnotite/ uranium/ Paradox Valley/ production/ uses/ ore treatment/ geology/ Colorado Plateau/

Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/ Montrose County/ Morrison Formation/ uranium/ vanadium/ San Miguel Bench/

Alvord, D. C., 1955
Montrose County/ San Miguel Bench/ exploration guides/ minerals/ carnotite/ sandstone/ Salt Wash Member/ Morrison Formation/ Colorado Plateau/ ore deposits/ ore guides/ geology/ uranium/ vanadium/ drilling/ reserves/ resources/

Anderson, J. P., 1950
reconnaissance/ Colorado/ Colorado Plateau/

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uranium/ Colorado Plateau/ sandstone/

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Colorado Plateau/ Colorado/ carnotite/ sandstone/

Anonymous, 1913
carnotite/ pitchblende/ radium/ Gilpin County/ Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/ Moffat County/ Paradox Valley/ Colorado Plateau/ uranium/ sandstone/ igneous-metamorphic/ Rio Blanco County/ Front Range/ San Miguel County/

Anonymous, 1913
carnotite/ Long Park/ Montrose County/ Colorado Plateau/ Huerfan County/ sandstone/ San Juan region/

Anonymous, 1913
uranium/ vanadium/ economics/ business/ carnotite/ Colorado Plateau/ sandstone/

Anonymous, 1950
McElmo Canyon/ sandstone/ Montezuma County/ Colorado Plateau/ ore deposits/

Anonymous, 1950
Grand Junction/ Mesa County/ ore processing/ Colorado Plateau/

Anonymous, 1950
San Miguel County/ sandstone/ Colorado Plateau/ mines/ uranium/

Anonymous, 1950
Rifle plant/ milling/ Garfield County/ Colorado Plateau/ ores/ sandstone/ vanadium/

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Colorado Plateau/ refining/ San Miguel County/ Mesa County/ sandstone/

Anonymous, 1951
Colorado Plateau/ Grand County/ sandstone/ bonus payments/ uranium/ mines/

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Colorado Plateau/ San Miguel County/ Montrose County/ mesa County/ vanadium/ sandstone/

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Colorado/ Utah/ processing/ sandstone/ San Miguel County/ Colorado Plateau/

Anonymous, 1952
Colorado Plateau/ Uravan belt/ sandstone/ mill/
COLORADO PLATEAU

exploration/ Mesa County/ San Miguel County/ Dolores County/
Archbold, N. L., 1955
lithology/ vanadium/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ calcium carbonate/

Archbold, N. L., 1955
vanadium/ uranium/ sandstone/ mudstone/ calcium carbonate/ Morrison Formation/ Salt Wash Member/ ore deposits/ geochemistry/ lithology/ Colorado Plateau/

Archbold, N. L., 1956
uranium/ vanadium/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ ore deposits/ lithology/ San Miguel County/

Archbold, N. L., 1958
carbonate cement/ lithology/ vanadium/ uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Urvan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper Group/

Archbold, N. L., 1959
carbonate cement/ lithology/ vanadium/ uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Urvan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper group/

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vanadium ores/ carnitite/ occurrences/ production/ Colorado/ Colorado Plateau/ sandstone/

Aurand, H. A., 1920
minerals/ ore deposits/ Western Slope/ Colorado Plateau/

Bachmann, H. G., 1957
Colorado Plateau/ vanadium/ mineralogy/ crystal chemistry/ Colorado/ sandstone/ calcium-sodium vanadates/

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genesis/ ore deposits/ fissionable materials/ geochemistry/ geology/ sandstone/ Colorado Plateau/

Bain, G. W., 1952
Colorado Plateau/ southwest/ ore deposits/ evaluation/ sandstone/ Shinarump Member/ Arizona/ Utah/ conglomerate/ uranium/ vanadium/ mines/ prospects/ Chine Formation/

Bain, G. W., 1952
Colorado Plateau/ geologic history/ uranium/ ore deposits/ sandstone/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ sediments/ sandstone/ stratigraphy/ Dakota Group/ Morrison Formation/ structure/ topography/ geologic history/ Mesa County/ Montrose County/ San Miguel County/ geology/ Montezuma County/ reconnaissance/ Colorado Plateau/ Dolores County/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnitite/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chine Formation/ Dolores County/ experimental studies/ Salt Wash Member/

Bain, G. W., 1956
uranium/ Phosphoria Formation/ Moffat County/ Colorado/ distribution/ analyses/ shale/ Colorado Plateau/ reconnaissance/

Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/ genesis/ Colorado/ general/ Mesa County/ Delta County/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ Archuleta County/ Garfield County/ La Plata County/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953
Colorado Plateau/ ore deposits/ experimental studies/ sandstone/ fluvial sediments/ field observations/ heavy minerals/ Shinarump Member/ Morrison Formation/ Dakota Sandstone/ geology/ sedimentation/ ground water/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chine Formation/

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Colorado/ Utah/ Arizona/ New Mexico/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/ Colorado Plateau/

Colorado/ Arizona/ New Mexico/ Utah/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/

Ball, M. N., 1954
Colorado Plateau/ ore deposits/ carnitite/ sedimentary occurrence/ sandstone/

Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/

Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ carbonaceous rocks/ shale/ siltstone/ Hermosa Formation/
COLORADO PLATEAU

San Miguel County/ Bald Eagle prospect/ Colorado Plateau/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ Acharlueta County/ coal/ shale/ reconnaissance/ Colorado Plateau/

Baltz, E. H., Jr., 1957
stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/

Barge, E. M., 1953
limestone/ sandstone/ Colorado Plateau/ Hermosa Formation/ reserves/ exploration/ drilling/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Early Morn group/ Gypsum Valley district/ San Miguel County/

Barge, E. M., 1953
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Tiny claim/ Gypsum Valley district/ San Miguel County/ Morrison Formation/

Barge, E. M., 1953
Colorado Plateau/ drilling/ ore deposits/ reserves/ exploration/ Gypsum Valley district/ Sunset claim/ San Miguel County/ sandstone/ Morrison Formation/ carnitite/ uranium/ vanadium/ Early Morn group/ limestone/ Salt Wash Member/

Barton, P. B., Jr., 1957
carnitite/ synthesis/ properties/ alkali analogues/ experimental/ Colorado Plateau/ sandstone/

Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/

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minerals/ carnitite/ Colorado Plateau/ ore deposits/ geology/ San Miguel County/ Legin group area/ exploration/ drilling/ ore production/ reserves/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/

Bell, Henry, 3d, 1950
uranium/ vanadium/ carnitite/ geology/ reserves/ ore deposits/ Colorado Plateau/ San Miguel County/ exploration/ Cougar claim/ Helen claim/ Last Chance claim/ Lower group/ Rainbow claim/ Cougar mine/ ore production/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

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Colorado Plateau/ ore deposits/ reserves/ sandstone/ San Miguel County/ drilling/ exploration/ carnitite/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Legin group area/

Bell, Henry, 3d, 1951
drilling/ exploration/ Legin group area/ San Miguel County/ ore deposits/ sandstone/ Colorado Plateau/ geology/ reserves/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Bell, Henry, 3d, 1951
reserves/ Legin group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/

Bell, Henry, 3d, 1951
reserves/ Legin group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/

Bell, Henry, 3d, 1952
ore deposits/ Egnar district/ San Miguel County/ minerals/ exploratory drilling/ carnitite/ U.S. Vanadium Co. property/ Vanadium Corp. of America property/ Morrison Formation/ geology/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Spud Patch area/

Bell, Henry, 3d, 1952
Colorado Plateau/ ore deposits/ ore guides/ U.S. Vanadium geology/ San Miguel County/ exploration/ drilling/ minerals, carnitite/ Legin group/ uranium/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ U.S. Vanadium Co. property/

Bell, Henry, 3d, 1953
ore deposits/ Colorado Plateau/ geology/ ore guides/ San Miguel County/ minerals/ carnitite/ Vanadium Corp. of America property/ uranium/ vanadium/ Spud Patch area/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

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Colorado Plateau/ ore deposits/ reserves/ sandstone/ Legin group area/ San Miguel County/ Morrison Formation/ Salt Wash Member/

Bell, Henry, 3d, and Cramer, M. A., 1951
reserves/ Legin group area/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Bell, Henry, 3d, and Cramer, M. A., 1952
Colorado Plateau/ sandstone/ ore deposits/ reserves/ Spud Patch area/ San Miguel County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Bell, Henry, 3d, and Icke, H. M., 1950
minerals/ carnitite/ Colorado Plateau/ geology/ San Miguel County/ Spud Patch area/ exploration/ drilling/ ore production/ sandstone/ Morrison Formation/ Salt Wash Member/ reserves/ uranium/ vanadium/ ore deposits/

Bell, K. G., 1949
analyses/ carnitite/ uranium/ stratigraphic correlation/ gamma-ray logging/ drilling/ Colorado Plateau/ sandstone/ Morrison Formation/ ore deposits/
Bell, K. G., 1954
uranium/ thorium/ sedimentary rocks/ sandstone/ geology/ genesis/ placers/ stream deposits/ mudstone/ Chinle Formation/ Morrison Formation/ shale/ black shale/ carnitite/ uraninite/ Colorado Plateau/

Bell, K. G., 1956
Colorado Plateau/ ore deposits/ occurrence/ precipitates/ evaporites/ uranium/

Bell, K. G., 1956
uranium/ precipitates/ evaporites/ Colorado Plateau/ occurrence/

Bell, K. G., 1960
uranium/ trace elements/ petroleum/ asphalts/ distribution/ occurrence/ Colorado Plateau/ Rocky Mountains/ United States/ Rio Blanco County/ Jefferson County/ Front Range/

Bell, K. G., and Rogers, A. S., 1950
Mesa County/ Calamity Mesa area/ gamma-ray logging/ Maverick claims/ Morrison Formation/ sandstone/ drilling/ stratigraphic correlation/ leaching/ ore deposits/ reserves/ geophysics/ "Barnaby" logs/ Schlumberger logs/ carnitite/ Colorado Plateau/ Calamity claims/

Bendix Field Engineering Corporation, 1975

Bendix Field Engineering Corporation, 1977
western states/ land surveys/ Industry/ leases/ survey/ exploration/ development/ production/ Colorado/ Colorado Plateau/

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survey/ uranium/ exploration/ development/ production/ Colorado/ Colorado Plateau/

Benicke, A., 1911
ore deposits/ occurrence/ vanadium/ sandstone/ uranium/ Colorado/ Colorado Plateau/ sandstone/

Berglof, W. R., 1970
Colorado Plateau/ absolute age/ ore deposits/ age estimation/ Colorado/ Isotope dating/ lead/ New Mexico/ uranium-235/ uranium-238/ Utah/ Morrison Formation/ Chinle Formation/ Toldilo Limestone/ sandstone/

Berglof, W. R., 1973
Colorado Plateau/ absolute age/ ore deposits/ Utah/ age estimation/ Colorado/ isotope dating/ lead/ New Mexico/ uranium-235/ uranium-238/ Morrison Formation/ Chinle Formation/ Toldilo Limestone/ sandstone/

Bethke, P. M., 1953
uranium salts/ Colorado Plateau/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ ground water/ Morrison Formation/ Salt Wash Member/ uraninite/ carnitite/

Beverly, R. G., and Bishop, V. P., 1961
Colorado Plateau/ radon gas/ air sampling/ radiation exposure/ mines/ uranium/

Bieber, P. P., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park/ Montrose County/

Bieber, P. P., and Bowes, H. E., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Bieniewski, C. L., Persse, F. H., and Brauch, E. F., 1971
Colorado Plateau/ Rifle district/ Front Range/ Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/

Black, R. A., 1953
Colorado Plateau/ geophysics/ mining districts/ logging/ Spud Patch area/ San Miguel County/ sandstone/ Long Park area/ Montrose County/ Morrison Formation/ ore deposits/

Black, R. A., 1953
Colorado Plateau/ ore deposits/ exploration/ geophysics/ methods/ uranium/ sandstone/

Black, R. A., 1953
Colorado Plateau/ reserves/ geophysics/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Gramlich group/ Paradox district/ Montrose County/

Black, R. A., 1954
geophysics/ mining districts/ logging/ Monogram Mesa/ Arizona/ Utah/ Peanut Group/ Bull Canyon/ Morrison Formation/ sandstone/ Mesa County/ Colorado/ Colorado Plateau/ ore deposits/

Black, R. A., 1954
Colorado Plateau/ geophysics/ mining districts/ logging/ Long Park area/ Montrose County/ electrical logging/ ore deposits/ sandstone/

Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/ electrical logging/ seismic logging/ gravity surveys/ sandstone/ ore deposits/

Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/ electrical logging/ seismic logging/ gravity surveys/ sandstone/ ore deposits/

Black, R. A., and Davis, W. E., 1953
Colorado Plateau/ geophysical investigations/ ore deposits/ uranium/ geophysics/ exploration/ sandstone/
Blackman, D. H., 1950
Colorado Plateau/ ore guides/ sandstone/ uranium/ ore deposits/ Mesa County/ minerals/ carnotite/ Calamity claims/

Blackman, D. H., 1950
Colorado Plateau/ sandstone/ uranium/ ore deposits/ ore guides/ carnotite/

Blackman, D. H., 1954
Calamity Mesa/ exploration/ Calamity claims/ sandstone/ Morrison Formation/ Colorado Plateau/ ore guides/ uranium/ Mesa County/ geology/ vanadium/ ore deposits/ carnotite/ carbonaceous materials/

Boardman, R. L., 1954
Guadalupe mine/ Colorado Plateau/ reserves/ exploration/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Boardman, R. L., 1954
King Solomon #5 claim/ U.S. Vanadium Co. property/ reserves/ Golden Cycle mine/ Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ Morrison Formation/ vanadium/ Salt Wash Member/ Atkinson Mesa/ Dolores Bench/ Montrose County/

Boardman, R. L., 1955
Uravan district/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ exploration/ drilling/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ ore deposits/

Boardman, R. L., 1955
Uravan district/ ore deposits/ sedimentary structures/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ appraisals/ drilling/ Long Park/ uranium/ vanadium/ Colorado Plateau/ Uravan project/

Boardman, R. L., 1955
Long Park/ Third Park/ Second Park Bench/ Uravan district/ Montrose County/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Boardman, R. L., 1956
Uravan district/ Montrose County/ sandstone/ Club Mesa/ Long Park/ drilling/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ uranium/ vanadium/

Boardman, R. L., 1957
Uravan district/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ Montrose County/ Mesa County/ stratigraphy/ structure/ sandstone/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ exploration/ drilling/

Boardman, R. L., Bowers, H. E., Litsey, L. R., and others, 1955
Colorado Plateau/ drilling/ Third Park/ Second Park Bench/ exploration/ uranium/ vanadium/ ore deposits/ Long Park/ Uravan district/ Montrose County/ sandstone/ geology/ stratigraphy/ Morrison Formation/ Salt Wash Member/ structure/ mineralogy/ ore guides/ reserves/ uraninite/ coffinite/ carnotite/

Boardman, R. L., Ekren, E. B., and Bowers, H. E., 1956
sedimentary features/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/ Uravan district/ Montrose County/ Colorado Plateau/ geology/ Jurassic/

Boardman, R. L., Litsey, L. R., and Bowers, H. E., 1957
Montrose County/ Club Mesa area/ Uravan district/ vanadium/ exploration/ sandstone/ Morrison Formation/ La Salle mine/ Salt Wash Member/ Club group mines/ Tramp No. 2 mine/ uranium/ Bunker mines/ ore deposits/ Colorado Plateau/

Montrose County/ Club Mesa area/ Uravan district/ uranium/ vanadium/ exploration/ Morrison Formation/ La Salle mine/ Salt Wash Member/ sandstone/ Club group mines/ Tramp No. 2 mine/ Bunker mines/ ore deposits/ Colorado Plateau/

Botinelly, Theodore, 1955
Peanut mine/ J. J. mine/ Jo Dandy group/ uranium/ vanadium/ geology/ mineralogy/ Montrose County/ sandstone/ carnotite/ Colorado Plateau/ Bull Canyon district/ ore deposits/ Morrison Formation/ Salt Wash Member/

Botinelly, Theodore, 1955
J. J. mine/ Jo Dandy group/ Bull Canyon district/ geology/ mineralogy/ Montrose County/ sandstone/ carnotite/ uranium/ vanadium/ ore deposits/ Rifle mine/ Garfield County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/

Botinelly, Theodore, 1956
Colorado Plateau/ ore deposits/ Jurassic/ Salt Wash Member/ Morrison Formation/ sandstone/ Montrose County/ geology/ mineralogy/ carnotite/ uraninite/ vanadium/

Botinelly, Theodore, 1956

Botinelly, Theodore, and Fischer, R. P., 1955
Garfield County/ mineralogy/ geology/ Rifle mine/ Garfield mine/ sandstone/ uranium/ vanadium/ Entrada Sandstone/ Chinle Formation/ ore deposits/ stratigraphy/ structure/ chromium/ petrology/ geochemistry/ galena/ minerals/ Garfield County/ clausthalite/ montrosite/ roscoeite/
COLORADO PLATEAU

Botinelly, Theodore, and Weeks, A. D., 1954
Jo Dandy area/ Montrose County/ sandstone/ mineralogic/ clays/ Peanut mine/ Colorado Plateau/

Botinelly, Theodore, and Weeks, A. D., 1954
mineralogy/ ore deposits/ minerals/ Colorado Plateau/ sandstone/ Montrose County/ Jo Dandy area/ Rifle mine/ Garfield County/ clay minerals/

Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/ Mesa County/ Montrose County/ minerals/ Dolores County/ San Miguel County/ ore deposits/ mineralogic classification/

Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/ uranium/ vanadium/ composition/ oxidation/ mineralogy/ sandstone/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/

Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/ petrology/ ore deposits/ vanadium/ Uravan/ Montrose County/ sandstone/ Long Park/ La Salie Creek/ Mesa County/ Utah/ Arizona/ uranium/

Boudette, E. L., 1956
Colorado Plateau/ aerial photographs/ regional fracture pattern/ sandstone/

Boutwell, J. M., 1904
Colorado/ Utah/ ore deposits/ vanadium/ uranium/ Colorado Plateau/ sandstone/

Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ vanadium/ Montrose County/

Bowers, H. E., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ vanadium/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/

Bowers, H. E., 1955
Guadalcanal claims/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Slack Rock district/ Disappointment Valley/ ore deposits/ exploration/ heavy minerals/ uranium/ vanadium/ sandstone/ Morrison Formation/ San Miguel County/ Salt Wash Member/ Dolores County/ ore guides/ Colorado Plateau/

Bowie, S. H. U., 1970
Canada/ Ontario/ Blind River/ Colorado Plateau/ ore deposits/ genesis/ reserves/ sedimentary rocks/ sandstone/ conglomerate/ metamorphic rocks/ exploration/ igneous-metamorphic/ geology/ uranium provinces/

Boyden, T. A., 1975
Colorado Plateau/ uranium/ marketing/ economics/

Boyer, W. H., 1956
ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrell mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/

Bradley, W. H., 1945
Colorado/ Wyoming/ Moffat County/ sections/ sandstone/ Green River Formation/ Wasatch Formation/ stratigraphy/ structure/ oil/ gas/ Washakie basin/ Colorado Plateau/ Browns Park Formation/

Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/

Brady, F. W., 1911
uranium/ occurrences/ properties/ metallurgy/ Colorado Plateau/ sandstone/

Brasher, G. K., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Mesa County/ uranium/ vanadium/ Morrison Formation/ Outlaw Mesa/

Brasher, G. K., 1952
Mesa County/ Outlaw Mesa area/ exploration/ drilling/ carnotite/ Colorado Plateau/

Brasher, G. K., 1952
Colorado Plateau/ ore deposits/ geology/ Mesa County/ exploration/ drilling/ minerals/ carnitote/ production/ Outlaw Mesa/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

Brasher, G. K., and Douglas, R. F., 1952
Colorado Plateau/ Gramlich group/ Paradox district/ drilling/ exploration/ sandstone/ ore deposits/ reserves/ Montrose County/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/

Brasher, G. K., and Jobin, D. A., 1951
reserves/ resources/ Colorado Plateau/ sandstone/ Outlaw Mesa/ Morrison Formation/ ore deposits/ drilling/ exploration/ uranium/ vanadium/ Salt Wash Member/ Mesa County/

Brasher, G. K., and Jobin, D. A., 1952
Colorado Plateau/ Mesa County/ reserves/ resources/ Outlaw Mesa/ sandstone/ ore deposits/ Salt Wash Member/ uranium/ vanadium/ Morrison Formation/

Brasher, G. K., and Jobin, D. A., 1951
Outlaw Mesa area/ Mesa County/ reserves/ resources/ Mineral Channel claims/ Colorado Plateau/ ore deposits/ sandstone/ uranium/ vanadium/ Salt Wash Member/ Morrison Formation/
COLORADO PLATEAU

Breger, I. A., 1955
uranium/ coal/ Colorado Plateau/ Colorado/ analyses/ vanadium/ carbonaceous material/

Breger, I. A., 1955
uranium/ vanadium/ coal/ carbonaceous material/ Colorado Plateau/ analyses/ Colorado/ general/

Breger, I. A., 1956
fossil wood/ coalification/ ore deposits/ Colorado Plateau/ geochemistry/ organic/ uranium/ sandstone/ conglomeratic sandstone/ conglomerate/

Breger, I. A., 1956
coalified wood/ uranium/ ore deposits/ Colorado Plateau/ ash/ analyses/ geochemistry/ sandstone/ Morrison Formation/ Chinle Formation/ lignite/

Breger, I. A., 1956
Colorado Plateau/ sandstone/ fossil plant debris/ uranium/

Breger, I. A., 1957
organic geochemistry/ coal/ uranium/ Colorado Plateau/ sandstone/ Wyoming/ Colorado/ New Mexico/ Utah/ peat/

Breger, I. A., 1957
uranium/ carbonaceous materials/ sedimentary rocks/ coal/ South Dakota/ Wyoming/ Colorado Plateau/ Colorado/ sandstone/ New Mexico/ crude oil/ asphaltite/ organic geochemistry/

Breger, I. A., 1958
Colorado Plateau/ ore deposits/ exploration/ sandstone/ coalified logs/ organic materials/ fossil wood/ petroleum/ uranium/ geochemistry/ analyses/ sulfur/

Breger, I. A., 1961
Colorado Plateau/ coal/ uranium/ carbonaceous material/ vanadium/ sandstone/ coalified wood/

Breger, I. A., 1974
uranium/ ore deposits/ geochemistry/ organic compounds/ coal/ sandstone/ Colorado/ Colorado Plateau/

Breger, I. A., and Chandler, J. C., 1959
humic substances/ coal/ geochemistry/ geothermometry/ Colorado Plateau/ sediments/ sandstone/ analyses/ Colorado/ coalified logs/ Morrison Formation/ Montrose County/

Breger, I. A., and Chandler, J. C., 1960
geochemistry/ humic substances/ coal/ coalified logs/ Colorado/ Colorado Plateau/ Montrose County/ Morrison Formation/ analyses/ geothermometry/ sandstone/

Breger, I. A., and Deul, Maurice, 1953
Colorado Plateau/ ore deposits/ lignite/ coal/ uranium/ Colorado/ Wyoming/ South Dakota/ retorts/ asphaltite/ sandstone/

Breger, I. A., and Deul, Maurice, 1955
Colorado Plateau/ uranium/ carbonaceous materials/ sandstone/ shale/ coalified wood/ asphaltites/ Utah/ New Mexico/ Colorado/ crude oil/
COLORADO PLATEAU

San Miguel County/ Dolores County/ Mount Wilson
quadrangle/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/geology/ Colorado Plateau/

Bromfield, C. S., and Williams, F. E., 1972
resources/ Wilson Mountains Primitive area/ uranium/ San Miguel County/ Dolores County/ vanadium/ sediments/ sandstone/ Colorado Plateau/geophysics/

elements/ variation/ analyses/ diagenesis/ ore deposits/ tabular uranium deposits/ La Sal mine/ Utah/ Rajah 49 mine/ Uravan district/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ Mesa County/ sandstone/

Brown, Andrew, 1961

Bryner, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores County/ history/ San Miguel County/ Montrose County/ Mesa County/

Bryner, Leonid, 1950
Colorado Plateau/ geology/ ore deposits/ uranium/ vanadium/ Club Mesa area/ minerals/ carnotite/ Uravan district/ Montrose County/ exploration/ drilling/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, 1952
uranium/ vanadium/ geology/ stratigraphy/ ore deposits/ Club Mesa/ Montrose County/ exploration/ drilling/ Colorado Plateau/ carnotite/ Buckshot claim/ Club mines/ Shamrock mines/ Tramp mines/ Morrison Formation/ production/ reserves/ resources/ sandstone/ Salt Wash Member/

Bryner, Leonid, 1971
Club Mesa area/ drilling/ Montrose County/ map/ Colorado Plateau/ sandstone/ exploration/ reserves/

Bryner, Leonid, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ sandstone/ reserves/ Montrose County/ Club Mesa area/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, and Cramer, M. A., 1952
Club Mesa area/ Montrose County/ Tramp mine/ uranium/ Colorado Plateau/ ore deposits/ reserves/ sandstone/ vanadium/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, and Cramer, M. A., 1952
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Club Mesa area/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Bryner, Leonid, and Douglas, R. F., 1952
Colorado Plateau/ Club Mesa area/ Montrose County/ ore deposits/ exploration/ sandstone/ geology/ reserves/ carnotite/ Morrison Formation/ Salt Wash Member/ vanadium/ uranium/ Uravan district/

Bryner, Leonid, and Withington, C. F., 1951
drilling/ exploration/ Club Mesa area/ Montrose County/ sandstone/ ore deposits/ Colorado Plateau/ reserves/ Uravan district/ carnotite/ Morrison Formation/ Salt Wash Member/

Bunker, C. M., and Hamontre, H. C., 1955
Jo Dandy area/ Montrose County/ sandstone/ well logs/ drill data/ gamma-ray logs/ caliper log/ Colorado Plateau/ drilling/ geophysics/

Bunker, C. M., and Hamontre, H. C., 1959
caliper log/ gamma-ray log/ Colorado Plateau/ drill data/ Jo Dandy area/ Montrose County/ drilling/ well logs/ geophysics/ sandstone/

Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/ Dolores County/ radioactivity/ reconnaissance/ San Juan Mountains/ igneous-metamorphic/ Colorado Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/ Ouray County/ San Miguel County/ Gunnison County/ Dolores County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ veins/ San Juan County/

Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnotite/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/

Busch, P. M., 1961
vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/

Bush, A. L., 1950
Legin group area/ San Miguel County/ Ellosa claim/ reserves/ resources/ sandstone/ Colorado Plateau/ ore deposits/ vanadium/ Morrison Formation/ Salt Wash Member/ Otero claim/

Bush, A. L., 1950
geology/ore deposits/ore guides/Morrison Formation/Salt Wash Member/reserves/resources/uranium/

Bush, A. L., 1953
San Juan Mountains/Colorado Plateau/Placerville district/uranium/Entrada Sandstone/sandstone/San Miguel County/ore deposits/uranium/veins/

Bush, A. L., 1953
San Juan Mountains/uranium/vanadium/Entrada Sandstone/San Miguel County/ore deposits/Colorado Plateau/veins/Placerville district/sandstone/

Bush, A. L., 1954
San Juan Mountains/San Miguel County/mapping/uranium/vanadium/sandstone/Colorado Plateau/veins/Entrada Sandstone/geology/ore deposits/Placerville district/Dolores County/

Bush, A. L., 1954
San Juan Mountains/Placerville district/San Miguel County/uranium/vanadium/Entada Sandstone/sandstone/structure/geology/ore deposits/Dolores County/Colorado Plateau/veins/

San Juan Mountains/Placerville district/San Miguel County/uranium/vanadium/Entada Sandstone/sandstone/igneous-metamorphic/Colorado Plateau/geology/

Bush, A. L., 1956
vanadium/uranium/ore deposits/Entrada Sandstone/veins/sandstone/San Juan Mountains/San Miguel County/Dolores County/mineralogy/Placerville district/geology/Colorado Plateau/

Dolores Peak quadrangle/Dolores County/San Miguel County/geology/sandstone/Colorado Plateau/

Bush, A. L., and Bryner, Leonid, 1953
carnotite/rosecellite/stratigraphy/Entrada Sandstone/minerals/Pony Express Limestone Member/Wanakah Formation/limestone/sandstone/Colorado Plateau/uranium/vanadium/San Juan Mountains/San Miguel County/ore deposits/San Juan County/Dolores County/Colorado Plateau/Lightner Creek district/Placerville district/resources/

minerals/carnotite/Calamity claims/Calamity mines/uranium/Charles T. claims/Club Mesa claims/Leon mine/sandstone/Morrison Formation/vanadium/Mesa County/Colorado Plateau/reserves/Uranium district/Montrose County/San Miguel County/ore deposits/

reserves/uranium/vanadium/Colorado Plateau/Colorado/sandstone/

estimation/reserves/uranium/Colorado Plateau/Colorado/sandstone/ore deposits/

Mesa County/Montrose County/San Miguel County/Uranium district/reserves/uranium/vanadium/carnotite/sandstone/Colorado Plateau/Morrison Formation/

Mesa County/Montrose County/San Miguel County/Uranium district/reserves/uranium/vanadium/carnotite/sandstone/Colorado Plateau/Morrison Formation/

San Juan Mountains/ore deposits/Gray head quadrangle/San Miguel County/uranium/vanadium/granodiorite/Placerville district/Pony Express Limestone Member/sandstone/limestone/Colorado Plateau/igneous-metamorphic/

San Miguel County/Placerville quadrangle/geology/map/sandstone/uranium/vanadium/Leopard Vanadium mine/Entrada Sandstone/Colorado Plateau/


Placerville quadrangle/Entrada Sandstone/sandstone/uranium/vanadium/Black King mine/Leopard Vanadium mine/San Miguel County/geology/map/Colorado Plateau/ore deposits/

Colorado Plateau/uranium/vanadium/ore deposits/San Miguel County/sediments/Entrada Sandstone/geology/Jurassic/areal geology/uranium/sandstone/Placerville quadrangle/

San Miguel County/Gray Head quadrangle/Entrada Sandstone/sandstone/uranium/vanadium/Colorado Plateau/map/

sandstone/ore deposits/ore guides/Colorado Plateau/San Miguel County/exploration/drilling/carnotite/uranium/Georgetown group claims/Georgetown claim/vanadium/Veta Mad claim/ore production/reserves/resources/Morrison Formation/Salt Wash Member/
COLORADO PLATEAU

San Juan Mountains/ structure/ Placerville district/ San Miguel County/ igneous-metamorphic/ uranium/ vanadium/ selenium/ ore deposits/ Colorado Plateau/ San Juan County/ La Plata County/ Dolores County/ sandstone/ veins/

San Miguel County/ Little Cone quadrangle/ structure/ sandstone/ vanadium/ uranium/ areal geology/ ore deposits/ Colorado Plateau/ Entrada Sandstone/

San Miguel County/ sandstone/ vanadium/ uranium/ Entrada Sandstone/ geology/ ore deposits/ Colorado Plateau/ Little Cone quadrangle/

San Juan Mountains/ uranium/ vanadium/ Placerville district/ San Miguel County/ Entrada Sandstone/ sandstone/ veins/ igneous-metamorphic/ Colorado Plateau/ ore deposits/

San Juan Mountains/ uranium/ vanadium/ Placerville district/ San Miguel County/ igneous-metamorphic/ stocks/ sandstone/ quartz monzonite/ ore deposits/ veins/ Colorado Plateau/

Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

Butler, A. P., Jr., 1955
resources/ uranium/ Colorado Plateau/

Butler, A. P., Jr., 1973
uranium/ ore deposits/ resources/ politics/ Colorado Plateau/

Butler, A. P., Jr., 1974
uranium/ resources/ ore deposits/ Colorado Plateau/ politics/

Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ Front Range/ uranium/ occurrences/ United States/ Colorado/ Colorado Plateau/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/

Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ occurrences/ United States/ Colorado/ Front Range/ Colorado Plateau/ uranium/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/

Butler, A. P., Jr., and Stead, F. W., 1947
ore deposits/ investigations/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/ radioactive raw materials/ costs/

map/ uranium/ Colorado/ United States/ epigenetic deposits/ ore deposits/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnitite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Byerly, P. E., and Joesting, H. R., 1958
gophysical investigations/ Lisbon Valley area/ Utah/ Colorado/ Paradox Basin/ stratigraphy/ salt anticlines/ Montrose County/ geophysics/ Colorado Plateau/ sandstone/

Byerly, P. E., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/ gophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetics/ sandstone/ geophysics/ Montrose County/

Cadigan, R. A., 1954
Colorado Plateau/ sandstone/ tuff/ alteration/ tuff estimation/ petrology/ stratigraphy/ ore deposits/ geochemistry/

Cadigan, R. A., 1954
correlation/ stratigraphy/ San Rafael group/ sandstone/ Colorado Plateau/ Colorado/ Entrada Sandstone/ limestone/ Todi To Limestone/ siltstone/

Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todi To Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/

Cadigan, R. A., 1955
sedimentary petrology/ Colorado Plateau/ Morrison Formation/ sandstone/ stratigraphy/ heavy minerals/ sources/

Cadigan, R. A., 1956
lithology/ Colorado Plateau/ petrology/ sediments/ Morrison Formation/ sandstone/ Montrose County/ ore deposits/ San Miguel County/ geochemistry/

Cadigan, R. A., 1957
lithology/ Colorado/ Cutler Formation/ Dolores Formation/ petrology/ arkose/ quartzite/ Utah/ Colorado Plateau/ ore deposits/ sandstone/ shale/

Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/
COLORADO PLATEAU

Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/

Cadigan, R. A., 1963
tuffaceous sandstone/ sandstone/ Chinle Formation/ Colorado Plateau/ petrography/ analyses/ Triassic strata/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnsion County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ sandstone/ Vanadum County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Cadigan, R. A., 1972
geochemistry/ anomalies/ alteration/ Moenkopi Formation/ Skull Creek area/ Moffat County/ shale/ sandstone/ Colorado Plateau/

Morrison Formation/ Salt Wash Member/ sandstone/ lithology/ ore deposits/ mineralogy/ uranium/ statistics/ Colorado Plateau/

California Division of Mines, 1955
uranium/ occurrence/ California/ Colorado Plateau/ comparisons/ sandstone/ geology/

Campbell, J. A., 1975
uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/

uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/

Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Culicoidus/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/

Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/

Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ ore deposits/ sandstone/ geobotany/

Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/

Cannon, H. L., 1953
geobotanical studies/ indicator plants/ carnotite/ Colorado Plateau/ New Mexico/ experimental garden/ sandstone/ uranium/ vanadium/ selenium/ absorber plants/ ore deposits/ geobotany/

Cannon, H. L., 1954
Colorado Plateau/ sandstone/ exploration/ vegetation/ indicator plants/ geobotany/

Cannon, H. L., 1955
Colorado Plateau/ botanical studies/ experimental garden/ New Mexico/ Arizona/ Utah/ Wyoming/ uranium/ ore deposits/ geobotany/ sandstone/

Cannon, H. L., 1955
Colorado Plateau/ sandstone/ vegetation/ exploration/ indicator plants/

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Uravan district/ Dolores County/ San Miguel County/ Egnar quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Charles T. mines/ map/ Golden Rod mines/ Ownbey group/ Spud Patch group/ Legin mines/ Ike group of mines/ ore deposits/

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Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Golden Rod mines/ ore deposits/ Ownbey group of mines/ Spud Patch group/ Legin mines/ Ike group of mines/ geology/ map/ mines/ Salt Wash Member/

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COLORADO PLATEAU

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San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Hermosa Formation/ limestone/ Pitchfork mines/ geology/ Bald Eagle mines/ Long Ridge mines/ map/ ore deposits/ Gypsum Gap quadrangle/

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Dolores County/ San Miguel County/ Egner quadrangle/ Colorado Plateau/ carnitite/ Morrison Formation/ sandstone/ Charles T. mines/ Ike group mines/ ore deposits/ Ownbey group/ Spud Patch group/ Legin mines/ geology/ map/ mines/ Golden Rod mines/ Salt Wash Member/

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conglomerate/ Lumsden mines/ Colorado Plateau/ Beaver Mesa area/ Salt Wash Member/
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COLORADO PLATEAU

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sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/

Farnum, Dwight, 1919
Colorado/ Utah/ Gateway district/ ore deposits/ resources/ carnottite/ uranium/ vanadium/ Mesa County/ sandstone/ Morrison Formation/ Colorado Plateau/

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geology/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/

Finch, W. L., 1951
Mesa County/ carnottite/ uranium production/ sandstone/ Blue Mesa area/ reserves/ resources/ drilling/ core/ Colorado Plateau/ exploration/ ore deposits/

Finch, W. L., 1951
Mesa County/ Blue Mesa area/ Moon Mesa area/ exploration/ drilling/ core/ carnottite/ uranium production/ sandstone/ Colorado Plateau/ drill data/ ore deposits/

Finch, W. L., 1952
Colorado Plateau/ ore deposits/ geology/ ore guides/ exploration/ drilling/ minerals/ carnottite/ uranium production/ Blue Mesa area/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/

Finch, W. L., 1953
Colorado Plateau/ ore deposits/ resources/ Paleozoic/ Mesozoic/ sandstone/ Morrison Formation/ Chinle Formation/ Shinarump Member/ conglomerate/

Finch, W. L., 1953
Colorado Plateau/ ore deposits/ exploration/ Shinarump Member/ conglomerate/ reconnaissance/ sandstone/

Finch, W. L., 1953
Colorado Plateau/ ore deposits/ resources/ Shinarump Member/ conglomerate/ Colorado Plateau/ sandstone/

Finch, W. L., 1955
uranium/ ore deposits/ Shinarump Member/ conglomerate/ Colorado Plateau/ sandstone/
Fischer, R. P., 1937
copper/ vanadium/ silver/ uranium/ sedimentary
deposits/ Colorado Plateau/ sandstone/ Mesa
County/ Montrose County/ Montezuma County/ Dolores
County/ San Miguel County/

Fischer, R. P., 1942
vanadium/ production/ sandstone/ Morrison Formation/
Entrada Shinarump Member/ conglomerate/ ore
deposits/ Dolores County/ San Miguel County/
Montrose County/ Colorado/ Utah/ Garfield County /
Colorado Plateau/ Entrada Sandstone/ Mesa County/

Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/
radium/ Morrison Formation/ Entrada Sandstone/
Shinarump Member/ sandstone/ conglomerate/ Mesa
County/ Montrose County/ San Miguel County/
Garfield County/ Dolores County/ Colorado Plateau/

Fischer, R. P., 1944
vanadium/ Colorado/ Utah/ Colorado Plateau/
uranium/ Entrada Sandstone/ sandstone/ Garfield
County/ San Miguel County/

Fischer, R. P., 1947
Colorado Plateau/ exploration/ drilling/ sandstone/
carnotite/ recommendations/ Garfield County/
San Miguel County/ Montrose County/ Mesa County/

Fischer, R. P., 1947
sandstone/ Colorado Plateau/ vanadium/ genesis/
ore deposits/ Garfield County/ San Miguel County/

Fischer, R. P., 1948
Morrison Formation/ Entrada Sandstone/ Placerville
district/ Colorado Plateau/ production potential/
uranium/ vanadium/ ore deposits/ Colorado/ Utah/
New Mexico/ Arizona/ sandstone/ Urankan district/
Rifle district/ Garfield County/ Dolores County/
San Miguel County/ Montrose County/ Slick Rock
district/

Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/
genesis/ structure/ ground water/ sandstone/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/

Fischer, R. P., 1949
carnotite/ ore deposits/ Federal funding/ sandstone/
Colorado Plateau/ exploration/

Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/
Morrison Formation/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ Dolores County/ Montezuma County/ La
Plata County/ Archuleta County/ ore guides/
Garfield County/ San Miguel County/

Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/
Dolores County/ Montrose County/ San Miguel
County/ Garfield County/ Rio Blanco County/
sandstone/ ore rolls/ carnitite/ geology/ ore
deposits/ mineralogy/ alteration/ Club mine/
uranium/ radium/ vanadium/ Entrada Sandstone/
genesis/
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<th>Year</th>
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<td>Colorado Plateau</td>
<td>R. P. Fischer</td>
<td>1950</td>
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<td>Uranium/ vanadium/ potential/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/</td>
<td>Fischer, R. P.</td>
<td>1951</td>
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<td>Colorado Plateau/ Uravan district/ exploration/ drilling/ sandstone/ ore deposits/ Morrison Formation/ Montrose County/ Mesa County/ Dolores County/ San Miguel County/</td>
<td>Fischer, R. P.</td>
<td>1952</td>
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<td>Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/</td>
<td>Fischer, R. P.</td>
<td>1955</td>
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<td>Vanadium/ uranium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/</td>
<td>Fischer, R. P.</td>
<td>1955</td>
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<td>Fischer, R. P.</td>
<td>1955</td>
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<td>Uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/</td>
<td>Fischer, R. P.</td>
<td>1956</td>
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<td>Uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/</td>
<td>Fischer, R. P.</td>
<td>1956</td>
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<td>Ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ Entrada Sandstone/ sandstone/</td>
<td>Fischer, R. P.</td>
<td>1956</td>
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Rifle district/ Garfield County/ genesis/ San Miguel County/ La Plata County/ Placerville district/ Rico district/ Dolores County/ | Fischer, R. P.                                                           | 1956 |
| Vanadium/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ La Plata County/ Rifle district/ Placerville district/ Rico district/ Durango district/ genesis/ localization/ Dolores County/ Entrada Sandstone/ | Fischer, R. P.                                                          | 1957 |
| Ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ genesis/ Rifle Creek area/ Garfield County/ Entrada Sandstone/ sandstone/ geology/ stratigraphy/ mineralogy/ | Fischer, R. P.                                                          | 1960 |
| Vanadium/ uranium/ mineralogy/ Rifle mine/ Rifle Creek area/ Garfield County/ ore deposits/ Entrada Sandstone/ Morrison Formation/ sandstone/ Colorado Plateau/ | Fischer, R. P.                                                          | 1962 |
| Colorado/ vanadium/ United States/ sandstone/ Colorado Plateau/ Entrace Sandstone/ Garfield County/ San Miguel County/ | Fischer, R. P.                                                          | 1964 |
| Colorado/ vanadium/ sandstone/ Colorado Plateau/ | Fischer, R. P.                                                          | 1968 |
| Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chine Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/ | Fischer, R. P.                                                          | 1968 |
| San Miguel County/ Entrada Formation/ sandstone/ vanadium/ Placerville district/ ore deposits/ guidebook/ Colorado Plateau/ | Fischer, R. P.                                                          | 1970 |
| Colorado/ Wyoming/ Colorado Plateau/ genesis/ supergene processes/ ore deposits/ sandstone/ configuration/ distribution/ uranium/ Arizona/ mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/ Rio Blanco County/ | Fischer, R. P.                                                          | 1973 |
| Ore guides/ uranium districts/ mineral belts/ exploration/ future/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ | Fischer, R. P.                                                          | 1974 |
| Exploration/ ore guides/ uranium/ ore deposits/ Colorado Plateau/ Uravan district/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ | Fischer, R. P.                                                          | 1974 |
| Colorado Plateau/ ore guides/ genesis/ Morrison Formation/ carnitite/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel/ | Fischer, R. P.                                                          | 1978 |

955
Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ geobotany/ sandstone/ carnotite/ Calamity group/ ore deposits/ geology/ mineralogy/ genesis/ ore guides/ stratigraphy/ ground water/ Morrison Formation/ Mesa County/ Lower group/ San Miguel County/ vanadium/ Club mine/ Montrose County/ Yellow Cat group/ geochemistry/

Fischer, R. P., and Butler, A. P., Jr., 1947
Colorado Plateau/ exploration/ drilling/ reserves/ resources/ uranium/ sandstone/ ore deposits/ carnotite/ Morrison Formation/ Entrada Sandstone/ Placerville district/ San Miguel County/ Utah/ Arizona/

Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uruvan mineral belt/ sandstone/ ore deposits/ Morrison Formation/ Colorado Plateau/ carnotite/ exploration/ geology/ vanadium/ uranium/ Uruvan district/

Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uruvan mineral belt/ sandstone/ ore deposits/ Morrison Formation/ Colorado Plateau/ carnotite/ exploration/ geology/ vanadium/ uranium/ Uruvan district/

Fix, P. F., 1952
Cimarron Creek/ waters/ stream waters/ Colorado Plateau/ geochemistry/ geologic terrane/ ground water/ nonsaline waters/ analyses/

Fix, P. F., 1953
natural waters/ ground water/ streams/ geochemistry/ San Juan County/ Ouray County/ tuffaceous terranes/ Cimarron Creek basin/ Las Animas River basin/ Colorado Plateau/ San Juan Mountains/

Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvus Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/

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Colorado Plateau/ natural waters/ streams/ snow/ ground water/ San Juan Mountains/ San Juan County/ Ouray County/ acid tuff/ igneous-metamorphic/ Front Range/ Colorado Plateau/ surface water/

Fix, P. F., 1954
natural waters/ hydrogeochemical exploration/ streams/ stream sediments/ ore deposits/ ground water/ mine waters/ Sevier River/ Utah/ Ralston Creek/ Colorado/ Montana/ Schwartzwalder mine/ Front Range/ Colorado Plateau/ Jefferson County/

Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/
COLORADO PLATEAU

Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Gilpin County/ Clear Creek County/

Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/

Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/ vanadium/ Placerville district/ San Miguel County/ rare metals/ uranium/ Entrada Sandstone/ sandstone/ igneous-metamorphic/ Front Range/ Colorado Plateau/

Fleck, Herman, 1909
rare metals/ pitchblende/ uranium/ ore deposits/ San Miguel County/ Placerville district/ vanadium/ Entrada Sandstone/ sandstone/ Colorado Plateau/

Fleck, Herman, 1909
ore deposits/ uranium/ vanadium/ Colorado/ sandstone/ Colorado Plateau/ Front Range/ igneous-metamorphic/

Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/ molybdenum/ vanadium/ uranium/ Colorado Plateau/ Placerville district/ San Miguel County/ sandstone/ igneous-metamorphic/ Front Range/ Gilpin County/ Colorado Plateau/

Fleck, Herman, and Haldane, W. G., 1907
uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Garfield County/ sandstone/ ore deposits/

Fleck, Herman, and Haldane, W. G., 1908
San Miguel County/ Placerville district/ carnitite/ analyses/ uranium/ vanadium/ radioactivity/ sandstone/ Colorado Plateau/

Fleck, Herman, and Haldane, W. G., 1909
carnitite/ uranium/ vanadium/ radioactivity/ Dolores County/ Montrose County/ Mesa County/ San Miguel County/ sandstone/ Colorado Plateau/

Fleck, Herman, and Haldane, W. G., 1909
carnitite/ uranium/ vanadium/ radioactivity/ Dolores County/ Montrose County/ Mesa County/ San Miguel County/ sandstone/ Colorado Plateau/

Flint, A. E., 1954
Paradox Valley/ Bull Canyon district/ Colorado Plateau/ Monogram Mesa area/ Montrose County/ reserves/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ exploration/ Salt Wash Member/

Flint, A. E., 1955
Montrose County/ Monogram Mesa/ exploration/ drilling/ reserves/ resources/ Mineral Joe mine/ Bull Canyon district/ uranium/ vanadium/ Colorado Plateau/ sandstone/ ore deposits/ Morrison Formation/ Salt Wash Member/

Flint, A. E., 1955
Bull Canyon district/ Montrose County/ San Miguel County/ sandstone/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
COLORADO PLATEAU

Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/minerals/

Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/minerals/

Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/minerals/

Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/minerals/

Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/minerals/

Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/minerals/

Froelich, A. J., 1953
Colorado Plateau/ ore deposits/ exploration/ absorber plants/ geobotanical prospecting/ Shinarump Member/ conglomerate/ Utah/ Deer Flat/ Elk Ridge/ New Mexico/ sandstone/ geobotany/

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carnotite/ Colorado/ Colorado Plateau/ sandstone/ trace elements/ actinium/ uranium/ time deposits/ lime stone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/

Fussier, K. H., 1916
carnotite/ Colorado/ Colorado Plateau/ sandstone/ trace elements/ actinium/ uranium/ time deposits/ lime stone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/

Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/

Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/

Gabelman, J. W., 1958
Colorado Plateau/ Uravan district/ mineral belts/ structure/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ alteration/ tectonic control/

Gabelman, J. W., and Boyer, W. H., 1958
Colorado/ Arizona/ ore deposits/ mineralization/ feeder structures/ alteration/ mineral zones/ Colorado Plateau/ sandstone/

Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/ pitchblende/ radium/ vanadium/ Colorado Plateau/ Front Range/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ Moffat County/ Jefferson County/ sandstone/ igneous-metamorphic/ shale/

Gei, H. S., 1907
Rio Blanco County/ Coal Creek district/ ore deposits/ carnitite/ areal geology/ coal/ sandstone/ Colorado Plateau/

Garrels, R. M., 1953
uranium oxides/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Colorado/ geochemistry/ sandstone/

Garrels, R. M., 1953
carnotite/ areal geology/ coal/ sandstone/ Colorado Plateau/

Garrels, R. M., 1953
uranium oxides/ uranium/ vanadium/ sandstone/ Colorado Plateau/ crysta/ chemistry/ ore deposits/ uranium/ Colorado Plateau/ crystallography/ oxidation/ sandstone/

Garrels, R. M., and Christ, C. L., 1955
crystal chemistry/ ore deposits/ uranium/ Colorado Plateau/ crystallography/ oxidation/ sandstone/

Garrels, R. M., and Christ, C. L., 1955
crystal chemistry/ oxidation/ uranium/ ores deposits/ Colorado Plateau/ crystallography/ sandstone/

Garrels, R. M., and Christ, C. L., 1956
uranite/ crystallite/ chemical/ uranium/ vanadium oxides/ sandstone/ ground water/ carnitite/}

958
Colorado Plateau

Garrels, R. M., and Christ, C. L., 1959
oxidation/reduction/ore deposits/Colorado Plateau/geochemistry/uranium/minerals/uraninite/coffinite/mineralogy/crystallography/sandstone/ground water/carnotite/

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ore deposits/mineralogy/geochemistry/sandstone/ground water/clay/mudstone/organelles/peanut mine/J. J. mine/Montrose County/Rifle mine/Garfield mine/Moffat County/Rio Blanco County/Mesa County/Delta County/San Miguel County/Dolores County/La Plata County/Montezuma County/Archuleta County/

Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/oxidation/reduction/ore deposits/organois/uraninite/pyrite/sandstone/geochemistry/San Miguel County/Garfield County/Montrose County/Mesa County/

Garrels, R. M., and Pommer, A. M., 1959
oxidation/reduction/minerals/geochemistry/ore deposits/mineralogy/Colorado Plateau/sandstone/San Miguel County/Mesa County/Montrose County/Garfield County/

thermodynamics/uranium oxides/oxidation states/Colorado Plateau/ore deposits/San Miguel County/genesis/sandstone/Montrose County/Garfield County/

carbon dioxide/uranium/ore deposits/ore-forming fluids/Colorado Plateau/sandstone/geochemistry/

Colorado Plateau/ore deposits/theoretical studies/genesis/chemical properties/geochemistry/sandstone/

Garrels, R. M., Larsen, E. S., 3d, Pommer, A. M., and others, 1957
Mineral Joe No. 1 mine/mineralogy/minerals/oxidation/ore deposits/Colorado Plateau/vanadium/geochemistry/uranium/Montrose County/sandstone/Virgin No. 3 mine/carnotite/Luny Park area/Jo Dandy area/

George, D'Arcy, 1949
uranium/thorium/mineralogy/hypogene/supergene/rare earth minerals/chemistry/pegmatites/sandstone/placers/black shales/igneous-metamorphic/Colorado Plateau/Front Range/

George, R. U., 1917
minerals/rocks/Colorado occurrences/uses/Colorado Plateau/sandstone/igneous-metamorphic/uranium/vanadium/radium/carnotite/pitchblende/Jefferson County/Gilpin County/Front Range/Montrose County/San Miguel County/Dolores County/Garfield County/Rio Blanco County/Routt County/Boulder County/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920

Colorado Plateau/mineralized waters/springs/spring deposits/Front Range/Jefferson County/Pitkin County/Pueblo County/Garfield County/Park County/El Paso County/Ouray County/Boulder County/Gunnison County/Delta County/Chaffee County/

Gilbert, C. C., 1954
resources/sandstone/Uravan district/Morrison Formation/Mesa County/Montrose County/Gateway district/Gypsum Valley district/Slick Rock district/Colorado Plateau/Salt Wash Member/Dolores County/San Miguel County/Paradox district/

Gilbert, C. C., 1954
ore deposits/ore distribution/Colorado Plateau/sandstone/Morrison Formation/Salt Wash Member/Bull Canyon district/Gypsum Valley district/Slick Rock district/San Miguel County/Montrose County/

Gilbert, G. K., 1875
Colorado Plateau/sandstone/geology/

Gilbert, G. K., 1876
Colorado Plateau/sandstone/geology/

Gill, J. R., 1953
Colorado/Montana/Wyoming/ore deposits/carbonaceous rocks/coal/Park County/Gunnison County/Delta County/Las Animas County/El Paso County/Teller County/La Plata County/Montezuma County/Denver Basin/Larimer County/shale/Crested Butte/Laramie Formation/Colorado Plateau/Front Range/

Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ore deposits/uranium/vanadium/lithology/mineralogy/sandstone/subsurface stratigraphy/Morrison Formation/Sage Plain area/Colorado Plateau/Utah/Colorado/Dolores County/Montezuma County/La Plata County/San Miguel County/

Goldenstein, S. J., 1957
economic map/Mount Waas quadrangle/Utah/Colorado/Mesa County/sandstone/ore deposits/resources/Colorado Plateau/

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sample collectors/drilling/cuttings/Colorado Plateau/sandstone/Morrison Formation/equipment/

Gott, G. B., and Erickson, R. L., 1951
reconnaissance/radioactive materials/sandstone/copper/New Mexico/Colorado/Utah/Idaho/Wyoming/uranium/ore deposits/Cashin mine/Montrose County/Colorado Plateau/

Gott, G. B., and Erickson, R. L., 1952
Colorado Plateau/New Mexico/Colorado/Utah/Idaho/Wyoming/reconnaissance/Montrose County/Cashin mine/sandstone/ore deposits/fault breccia/igneous-metamorphic/uranium/copper/exploration/bituminous substances/asphaltite/Shinarump Member/Wingate Sandstone/conglomerate/
Gott, G. B., and Erickson, R. L., 1952
ore deposits/ exploration/ copper/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/ reconnaissance/ bituminous substances/ Cashin mine/ Montrose County/ sandstone/ uranium/ asphaltite/ Shinarump Member/ Wingate Sandstone/ conglomerate/ fault breccia/ Colorado Plateau/

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sulfur compounds/ uranium/ ore deposits/ sandstone/ roll-type ore/ chemistry/ Wyoming/ New Mexico/ genesis/ Colorado Plateau/

Griffiths, J. C., 1952
sampling/ collection/ Salt Wash Member/ Colorado/ Utah/ Colorado Plateau/ Jurassic/ clays/ Bull Canyon district/ sandstone/ Montrose County/ San Miguel County/ Polar Mesa/ Blue Mesa/ Paradox Valley/ sediments/ Morrison Formation/

Griffiths, J. C., 1954
Colorado Plateau/ ore deposits/ exploration/ sediments/ sandstone/ mudstone/ Montrose County/ San Miguel County/ Salt Wash Member/ Morrison Formation/ Jurassic/ quantitative analysis/

Griffiths, J. C., 1954
Morrison Formation/ Salt Wash Member/ sediments/ sandstone/ textures/ grain size/ mudstone/ Jurassic/ Colorado/ Utah/ Colorado Plateau/ Bull Canyon district/ uranium/ vanadium/ Entrada Sandstone/ Arizona/ grain fabric/ Montrose County/ Shinarump Member/ petrography/ San Miguel County/

Griffiths, J. C., 1957
Salt Wash Member/ sandstone/ mudstone/ Morrison Formation/ Jurassic/ Bull Canyon District/ Monogram Mesa/ San Miguel County/ Colorado/ Utah/ Arizona/ Colorado Plateau/ statistics/ petrography/ ore guides/ exploration/ sand grain studies/ ore deposits/ Montrose County/ Colorado Plateau/

lithology/ analyses/ Salt Wash Member/ Jurassic/ sandstone/ mudstone/ cores/ uranium/ vanadium/ limonite/ Montrose County/ San Miguel County/ spectrometry/ Bull Canyon district/ Morrison Formation/ Colorado Plateau/

Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ mudstone/ Montrose County/ San Miguel County/ thin sections/ Colorado/ Utah/ limonite/ Colorado Plateau/ Bull Canyon district/ petrography/

Salt Wash Member/ sediments/ Morrison Formation/ Jurassic/ grain size/ grain shape/ sandstone/ Utah/ Colorado/ Arizona/ Montrose County/ San Miguel County/ statistics/ grain orientation/ Colorado Plateau/ Bull Canyon district/ quartz/ lithology/


Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ matrix/ clay/ Colorado Plateau/ Monogram Mesa/ Utah/ Arizona/ Montrose County/ San Miguel County/ petrography/ sediments/ clay pebbles/ grain packing/ statistics/ Bull Canyon district/

thorium/ high grade/ low grade/ analyses/ ore deposits/ Colorado Plateau/ sandstone/

Gruenerwald, William, and Richardson, G. R., 1945
vanadium/ geology/ stratigraphy/ sandstone/ mineralization/ uranium/ ore deposits/ exploration/ Sleepy Cat Mountain/ White River uplift area/ Colorado Plateau/ Rio Blanco County/ carnotite/ Stealey prospect/

Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado Plateau/ conglomerate/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Utah/ pitchblende/ genesis/ Chinie Formation/ ore deposits/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ shale/ sandstone/ siltstone/ clays/ Morrison Formation/ Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi Formation/ Shinarump Member/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ asphaltite/ uraninite/ copper/ Chinie Formation/ mineralization/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ Toldillo Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chinie Formation/

Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ igneous-metamorphic/

Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/ Utah/ Colorado/ sandstone/ siltstone/ conglomerate/ limestone/ uranium/ vanadium/ New Mexico/ geology/ San Miguel County/ Montrose County/ Mesa County/

Gruner, J. W., 1954
Colorado Plateau/ genesis/ ore deposits/ organic materials/ sandstone/ uranium/ carbon/ San Miguel County/ Montrose County/ Mesa County/

Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/

Gruner, J. W., 1956
Colorado Plateau/ ore deposits/ mineral assemblages/
Colorado Plateau

Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ sandstone/ genesis/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/ Colorado Plateau/

Gruner, J. W., 1957
Colorado Plateau/ ore deposits/ genesis/ sedimentary rocks/ sandstone/

Gruner, J. W., 1958
Colorado Plateau/ sandstone/ ore deposits/

Gruner, J. W., and Gardiner, L., 1950
ore deposits/ asphalt/ lignite/ geochemistry/ San Miguel County/ sandstone/ Placerville district/ experimental geochemistry/ Colorado Plateau/

Gruner, J. W., and Gardiner, L., 1952
mineral associations/ Shinarump Member/ Todilto Limestone/ Utah/ New Mexico/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ Colorado/ Montrose County/ San Miguel County/ Calamity Mesa/ Placerville district/ sandstone/ Chinle Formation/ ore deposits/

Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/

Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/ Colorado Plateau/ sandstone/ siltstone/ shale/ coffinite/ uraniumite/ organics/ Hopi Buttes/ diatremes/ Arizona/ Colorado/ New Mexico/ Utah/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Gruner, J. W., and Smith, D. K., Jr., 1955
Colorado Plateau/ ore deposits/ mineralization/ Utah/ Arizona/ New Mexico/ Horseshoe diatreme/ sandstone/ limestone/ mineralogy/

Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/ sandstone/ Browns Park Formation/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Mesa County/ San Miguel County/ peat/ lignite/ Moffat County/ Montrose County/

Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/
Colorado Plateau

Guillotte, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/ Utah/ Garfield County/ Rio Blanco County/ uranium/ Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ glissonite/ shale/ Green River Formation/ oil shale/ native asphalts/

Guillotte, G. B., 1947
drilling/ well logging/ drill cores/ tables/ data/ ore deposits/ gamma-ray logs/ Slick Rock district/ Colorado Plateau area/ Dolores County/ San Miguel County/ sandstone/ Dolores Plateau/

Guillotte, G. B., 1947
drilling/ mineralization/ Mesa County/ sandstone/ radioactivity/ ore deposits/ well logging/ gamma-ray logs/ Calamity district/ Uncompahgre uplift area/ Colorado Plateau/

Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/ Colorado/ Utah/ exploration/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ Igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/

Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ carnitite/ Colorado Plateau/ Mount Peale-8 quadrangle/

Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ carnitite/ Colorado Plateau/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ Mount Peale-1 quadrangle/

Hackman, R. J., 1952
San Miguel County/ photogeologic map/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Colorado Plateau/ Mount Peale-16 quadrangle/

Hackman, R. J., 1952
Montezuma County/ photogeologic map/ Aneth-1 quadrangle/ Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ carnitite/ Colorado Plateau/

Hackman, R. J., 1952
Montezuma County/ photogeologic map/ Verdure-16 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1952
Dolores County/ San Miguel County/ photogeologic map/ Verdure-1 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1952
Dolores County/ photogeologic map/ Verdure-8 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1955
Dolores County/ Montezuma County/ photogeologic map/ Verdure-9 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnitite/

Hackman, R. J., 1955
Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ Montezuma County/ photogeologic map/ Aneth-8 quadrangle/ Colorado Plateau/ carnitite/

Hackman, R. J., 1955
Montezuma County/ photogeologic map/ Aneth-1 quadrangle/ Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ Colorado Plateau/ carnitite/

Hackman, R. J., 1955
Montezuma County/ Colorado/ San Miguel County/ sandstone/ photogeologic map/ Mount Peale-9 quadrangle/ Utah/ Morrison Formation/ Salt Wash Member/ carnitite/ Colorado Plateau/

Hackman, R. J., 1956
Colorado/ Utah/ San Miguel County/ photogeologic map/ Mount Peale-16 quadrangle/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Colorado Plateau/

Hackman, R. J., 1956
Colorado/ Utah/ Montrose County/ photogeologic map/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Colorado Plateau/ Mount Peale-8 quadrangle/

Hackman, R. J., 1956
Montrose County/ Colorado/ photogeologic map/ Morrison Formation/ Salt Wash Member/ sandstone/ carnitite/ Colorado Plateau/ Mount Peale-1 quadrangle/

Hackman, R. J., 1956
Montrose County/ San Miguel County/ Utah/ photogeologic map/ Mount Peale-9 quadrangle/ sandstone/ Morrison Formation/ Salt Wash Member/ carnitite/ Colorado Plateau/

Hackman, R. J., 1958
Mesa County/ Montrose County/ Delta County/ photogeologic map/ sandstone/ Colorado Plateau/ Escalante Forks quadrangle/

Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek NE quadrangle/ sandstone/ Colorado Plateau/

Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek SE quadrangle/ sandstone/ Colorado Plateau/

Hackman, R. J., 1959
Dolores County/ Montezuma County/ photogeologic map/ Yellow Jacket quadrangle/ sandstone/ Colorado Plateau/

Hager, Dorsey, 1955
Colorado Plateau/ ore deposits/ exploration/ channels/ sandstone/ uranium/ ore concentration/ San Miguel County/ Montrose County/ Mesa County/
Hague, R. S., 1956
ore deposits/ stratigraphy/mineralogy/mineralization/Bull Canyon area/ Montrose County/ San Miguel County/ Colorado Plateau/ Uravan district/ Morrison Formation/ Salt Wash Member/ sandstone/mudstone/
Brushy Basin Member/ tuyuyamunite/carnotite/uraninite/ montroseite/

Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral belt/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/

Haji-Vassiliou, Andreas, 1969
Colorado Plateau/ ore deposits/ organic materials/ genesis/ geology/ uranium minerals/ Colorado/ sandstone/

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Colorado Plateau/ ore deposits/ organic materials/ genesis/ sandstone/ geology/ uranium minerals/

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alkaline igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/ production/ costs/ sandstone/ uranium/ methods/ mining/ San Miguel County/ Montrose County/ Mesa County/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Culebra Plateau/ Wyoming/ Utah/

Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/

Hastings, J. S., 1958
Long Park/ ore deposits/ resources/ geology/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/

Hastings, J. S., 1963
Uravan mineral belt/ Colorado Plateau/ sandstone/ exploration/ Montrose County/ San Miguel County/ Dolores County/ geology/ mining methods/

Hathaway, J. C., 1959
Colorado Plateau/ ore deposits/ geochemistry/ mudstone/clay mineralogy/ mixed-layered structures/
Hess, F. L., 1911
ore deposits/ Colorado/ vanadium/ sandstone/ Colorado Plateau/ uranium/ tungsten/

Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/ bismuth/ sandstone/ Colorado Plateau/ ore deposits/

Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/ bismuth/ sandstone/ Colorado Plateau/ ore deposits/

Hess, F. L., 1913
Placerville district/ vanadium/ sandstone/ geology/ San Miguel County/ Entrada Sandstone/ ore deposits/ Colorado Plateau/

Hess, F. L., 1913
Colorado Plateau/ uranium/ vanadium/ sandstone/ ore deposits/

Hess, F. L., 1914
genesis/ carnottite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Hess, F. L., 1925
carnottite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/

Hess, F. L., 1925
Colorado/ Colorado Plateau/ uranium/ vanadium/ sandstone/ radium/ sandstone/ ore deposits/ resources/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/ radium/ sandstone/ ore deposits/ resources/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/ radium/ sandstone/ ore deposits/ resources/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/ gold/ silver/ molybdenum/ sediments/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/

Heyl, A. V., 1954
Montrose County/ mineralogy/ petrology/ geochemistry/ zoning/ montroseite/ Bitter Creek mines/ corvusite/ pascoite/ rauvite/ uraninite/ Uravan district/ asphaltite/ hydrocarbons/ pyrobitumen/ uranium/ thuchollite/ sandstone/ Morrison Formation/ Salt Wash Member/ vanadium/ Colorado Plateau/ ore deposits/

Heyl, A. V., 1956
Uravan district/ Bitter Creek mine/ ore deposits/ zoning/ Morrison Formation/ sandstone/ Montrose County/ Colorado Plateau/ uranium/ geology/ vanadium/ mineralogy/ petrology/ geochemistry/ rauvite/ uraninite/ thuchollite/ Salt Wash Member/ corvusite/ montroseite/ pascoite/

High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/

High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ igneous-metamorphic/ San Miguel County/ Colorado Plateau/ Mesa County/

High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Mesa County/ Saguache County/ igneous-metamorphic/ Pitch mine/ Colorado Plateau/ Dolores County/

High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/ mines/ reports/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/

High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ mines/ Colorado Plateau/

High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/ drilling/ Dolores County/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/ Rico-Argentine district/

Hill, J. W., 1945
uranium/ reserves/ ore deposits/ exploration/ geology/ Coal Creek anticline/ White River uplift/ Colorado Plateau/ sandstone/ Urion mine/ Riland N mine/ Riland S mine/ Hess mine/ Quin Burral prospect/ Uranium Peak prospect/ Rio Blanco County/

Hillebrand, W. F., 1900
vanadium/ analyses/ molybdenum/ ore deposits/ Colorado Plateau/ sandstone/

Hillebrand, W. F., 1900
vanadium/ molybdenum/ analyses/ Colorado Plateau/ sandstone/
COLORADO PLATEAU

Hillebrand, W. F., 1924
Colorado/ Utah/ ore deposits/ minerals/ carnotite/ tyuyumite/ sandstone/ analyses/ Colorado Plateau/ 

Hillebrand, W. F., and Ransome, F. L., 1900
carnotite/ vanadium/ minerals/ sandstone/ ore deposits/ Colorado Plateau/ Montrose County/ San Miguel County/ analyses/ 

Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ Colorado Plateau/ 

Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1914
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ Colorado Plateau/ 

Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1915
Paradox Valley/ Colorado Plateau/ minerals/ sandstone/ San Miguel County/ hydrous calcium vanadates/ hewettite/ metahewettite/ pascolite/ Colorado Plateau/ 

Hillebrand, W. F., Wright, F. E., and Merwin, H. E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/ Utah/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ minerals/ Mesa County/ 

Hilpert, L. S., 1949
San Miguel County/ exploration/ drilling/ reserves/ Elliston claims/ Upper group claims and mines/ sandstone/ ore deposits/ Colorado Plateau/ Burro claims/ uranium/ vanadium/ Morrison Formation/ Slick Rock district/ Salt Wash Member/ 

Hilpert, L. S., 1952
Colorado Plateau/ exploration/ Spud Patch area/ sandstone/ Morrison Formation/ Salt Wash Member/ ore deposit/ reserves/ drilling/ uranium/ vanadium/ San Miguel County/ 

Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ drilling/ Morrison Formation/ Uravan district/ Yellow Cat mine/ Monogram Mesa/ Gateway district/ 

Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/ Mesa County/ San Miguel County/ Dolores County/ drilling/ exploration/ ore deposits/ Morrison Formation/ Salt Wash Member/ Uravan district/ Gateway district/ Gypsum Valley district/ Montrose County/ 

Hilpert, L. S., and Fischer, R. P., 1949
Mesa County/ uranium/ vanadium/ minerals/ carnotite/ drilling/ exploration/ ore deposits/ Outlaw/ 

Holland, H. D., and others, 1958
uranium/ leachable ores/ Utah/ ore deposits/ Colorado Plateau/ sandstone/ 

Holmes, C. N., 1949
geology/ carnotite/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ 

Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/ 

Holmes, C. N., 1960
Colorado/ Colorado Plateau/ sandstone/ Jurassic history/ stratigraphy/ paleogeography/ Maidon/ Morrison Formation/ 

Holmes, C. N., 1960
Jurassic history/ stratigraphy/ Colorado/ Colorado Plateau/ sandstone/ geology/ Morrison Formation/ 

Holmes, R. U., and Harrer, C. M., 1952
Mesa County/ Montrose County/ copper/ sandstone/ Colorado Copper Company/ Colorado Plateau/ 

Holmes, W. H., 1978
Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/ 

Hoover, W. B., 1950
Glen Canyon Formation/ San Rafael Formation/ correlation/ sandstone/ La Plata County/ Jurassic Formations/ stratigraphy/ Utah/ Colorado/ Arizona/ New Mexico/ San Juan basin/ Archuleta County/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/ 

Houser, F. N., and Ekren, E. B., 1959
Montezuma County/ Colorado Plateau/ Moqui SW quadrangle/ Ute Mountains/ Morrison Formation/ sandstone/ uranium/ vanadium/ map/ geology/ Salt Wash Member/ 

Houser, F. N., and Ekren, E. B., 1959
Ute Mountains/ Montezuma County/ Dolores County/ sandstone/ Cretaceous strata/ Colorado Plateau/ Dakota Sandstone/ 

Houston, R. S., and Murphy, J. t., 1951
Colorado Plateau/ Montezuma County/ San Juan basin/ sandstone/ Cretaceous/ black sandstones/ stratigraphy/ structure/ mineralogy/ placer deposits/ heavy minerals/ monazite/ zircon/ limenite/ depositional environment/ 

Huff, L. C., 1954
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ mapping/ uranium/ vanadium/ Morrison Formation/ 

COLORADO PLATEAU
COLORADO PLATEAU

Salt Wash Member/ sandstone/ Dolores County/ San Miguel County/ ore deposits/

Huff, L. C., 1955
Colorado/ Utah/ ore deposits/ Colorado Plateau/ Dolores County/ San Miguel County/ stratigraphy/ Salt Wash Member/ sandstone/ uranium/ vanadium/ Salt Wash Member/ geochemistry/ Middle Montezuma group/ Coyote No. 1 mine/ Verde mine/ Strawberry mine/ Rainbow mine/ ore deposits/ geophysical logs/ Lucky Boy mine/

Huff, L. C., and Lesure, F. G., 1956
Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ mines/ Salt Wash Member/ peat/ Sage Plain area/ Utah/ ore deposits/

Huff, L. C., and Lesure, F. G., 1957
Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Salt Wash Member/ sandstone/ stratigraphy/ mapping/ structure/ ore deposits/ geochemistry/ mines/ Sage Plain area/ Morrison Formation/

Huffman, Claude, Jr., and Riley, L. B., 1956
plants/ ash/ uranium/ analyses/ fluorimetry/ geobotany/ Colorado Plateau/ sandstone/

Hulett, W. P., Hazen, S. W., Jr., and Traver, W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/

Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Hunt, C. B., 1958
structural geology/ igneous geology/ La Sal Mountains/ Utah/ stratigraphy/ genesis/ economic geology/ Mesa County/ Montrose County/ Colorado/ igneous-metamorphic/ Colorado Plateau/

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drilling/ Colorado Plateau/ sandstone/ San Miguel County/ drilling trends/ ore deposits/ reserves/ Montrose County/ Mesa County/

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Skull Creek district/ Uranium Peak district/ ore deposits/ Garfield County/ sandstone/ Rio Blanco County/ Moffat County/ guidebook/ Colorado Plateau/

Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/

Isachsen, Y. W., 1956
Colorado Plateau/ tectonics/ ore deposits/ sandstone/ genesis/

Isachsen, Y. W., 1955
Colorado Plateau/ tectonics/ ore deposits/ sandstone/ genesis/

Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash - Lisbon Valley district/ Mesa County/ stratigraphy/ structure/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954
uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ stratigraphic environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnotite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/

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Browns Park Formation/ sandstone/ Moffat County/ volcanic rocks/ igneous-metamorphic/ K-Ar age dating/ stratigraphy/ Colorado Plateau/

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Colorado Plateau/ ore deposits/ mineralization/ sulfides/ uranium/ sandstone/ sulfur isotopes/ sulfur ratios/ genesis/ San Miguel County/ Montrose County/ Mesa County/

Jensen, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/ geochemistry/ sulfur isotopes/ sandstone/ uranium/ Montrose County/ San Miguel County/ Garfield County/ Morrison Formation/ Entrada Sandstone/

Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/ uranium/ ore deposits/ Colorado Plateau/ Wyoming/
Jobin, D. A., 1952
U.S. Vanadium Co. property/ sandstone/ Colorado Plateau/ reserves/ ore deposits/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Jobin, D. A., 1952
Vanadium Corp. of America property/ Colorado Plateau/ ore deposits/ sandstone/ reserves/ Dolores Bench/ King Solomon claim/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/

Jobin, D. A., 1953
Colorado Plateau/ exploration/ Dolores Bench/ ore deposits/ Montrose County/ sandstone/ geology/ reserves/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Uravan district/

Jobin, D. A., 1953
ground water/ Colorado Plateau/ sandstone/

Jobin, D. A., 1954
ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

Jobin, D. A., 1955
ground water/ Colorado Plateau/ sandstone/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Jobin, D. A., 1952
U.S. Vanadium Co. property/ sandstone/ Colorado Plateau/ reserves/ ore deposits/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

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Vanadium Corp. of America property/ Colorado Plateau/ ore deposits/ sandstone/ reserves/ Dolores Bench/ King Solomon claim/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/

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Colorado Plateau/ exploration/ Dolores Bench/ ore deposits/ Montrose County/ sandstone/ geology/ reserves/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Uravan district/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Jobin, D. A., 1952
U.S. Vanadium Co. property/ sandstone/ Colorado Plateau/ reserves/ ore deposits/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

Jobin, D. A., 1952
Vanadium Corp. of America property/ Colorado Plateau/ ore deposits/ sandstone/ reserves/ Dolores Bench/ King Solomon claim/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/

Jobin, D. A., 1953
Colorado Plateau/ exploration/ Dolores Bench/ ore deposits/ Montrose County/ sandstone/ geology/ reserves/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Uravan district/

Jobin, D. A., 1953
ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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ground water/ Colorado Plateau/ sandstone/

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Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

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Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

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U.S. Vanadium Co. property/ sandstone/ Colorado Plateau/ reserves/ ore deposits/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

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Vanadium Corp. of America property/ Colorado Plateau/ ore deposits/ sandstone/ reserves/ Dolores Bench/ King Solomon claim/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/

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Colorado Plateau/ geophysics/ exploration/ sandstone/

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géophysics/ regional studies/ Colorado Plateau/ gravity studies/ aeromagnetics/ sandstone/

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géophysics/ regional studies/ Colorado Plateau/ gravity studies/ aeromagnetics/ sandstone/

Joesting, H. R., 1957
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COLORADO PLATEAU

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Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

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sandstone/ Morrison Formation/ electrical properties/ logging/ geophysics/ Colorado Plateau/ Spud Patch area/ uranium/ vanadium/ ore deposits/ San Miguel County/ Montrose County/ Oramich claims/ La Sal Creek area/ Utah/ Uranium district/ Long Park district/

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resistivity/ geophysics/ exploration/ ore deposits/ Spud Patch area/ San Miguel County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Utah/ White Canyon district/ Colorado Plateau/

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electrical properties/ sandstone/ Morrison Formation/ geophysics/ resistivity/ porosity/ Dolores County/
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sandstone/ Morrison Formation/ geophysics/

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illite/ depositional environments/ Colorado Plateau/
sandstone/ type section/ geochemistry/ analyses/
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Slick Rock district/ Uranium district/ Club mines/
mudstone/ ore deposits/ Utah/ uranium/ vanadium/
mineralogy/ Dolores County/ San Miguel County/
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mudstone/ analyses/ Montrose County/ Gunnison County/
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mineralogy/ mudstone/ Colorado Plateau/ Montrose County/

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Utah/ Colorado/ Arizona/ New Mexico/
uranium/ Morrison Formation/ Entrada Sandstone/
sandstone/ Mesa County/ Montrose County/

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mudstone/

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sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Archuleta County/
Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Delta County/ Ouray County/ Gunnison County/
Garfield County/ Rio Blanco County/ Moffat County/

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sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Mesa County/
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La Plata County/ Delta County/ Garfield County/
Rio Blanco County/ Moffat County/ Archuleta County/

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sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Mesa County/
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La Plata County/ Delta County/ Garfield County/
Rio Blanco County/ Moffat County/ Archuleta County/

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Colorado Plateau/ ore deposits/ genesis/ Delta County/
uranium/ tectonic history/ regional structure/
Colorado/ sandstone/ Montezuma County/
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Mesa County/ Ouray County/ San Juan County/
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Colorado Plateau/ ore deposits/ genesis/ Mesa County/
structural controls/ uranium/ tectonic history/
Colorado/ sandstone/ Montezuma County/
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faults/ fractures/ Mesa County/ Montrose County/
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Colorado Plateau/ sandstone/ fractures/ tectonics/
genesis/ structures/ Montezuma County/ Dolores County/
Montrose County/ Delta County/ Garfield County/
Rio Blanco County/ Moffat County/ San Miguel County/
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Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tenderfoot Mesa/

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air/ alpha sources/ ore deposits/ building materials/ Colorado/ concretes/ daughter products/ radiation monitoring/ radioactivity/ radon/ uranium/ Mesa County/ sandstone/ Colorado Plateau/

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uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ igneous-metamorphic/

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veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/

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ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ exploration/ sandstone/ Monogram Mesa/ Uravan district/ Jo Dandy area/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Entrada Sandstone/ Moffat County/ Browns Park Formation/ Slick Rock district/ Long Park district/

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ore deposits/ carnotite/ resources/ Colorado Plateau/ production/ mining/ sandstone/ radium/ Montrose County/ San Miguel County/ Long Park district/

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ore deposits/ uranium/ Colorado/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/

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Colorado/ mining/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/

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copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnitite/ rosoelitie/ Colorado Plateau/
COLORADO PLATEAU

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Long Park district/ sandstone/ carnitite/ coring/ original state core studies/ drilling/ Montrose County/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/

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Colorado/ Utah/ ore deposits/ mineralization/ chemical properties/ Montrose County/ cores/ drilling/ sandstone/ Morrison Formation/ Colorado Plateau/ physical properties/ Salt Wash Member/

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Blue Mesa/ Urrvan district/ Mesa County/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ Utah/ stratigraphy/ Colorado Plateau/ carnitite/ Gateway district/ ore deposits/ exploration/ geology/ genesis/ localization/ ore guides/

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Urrvan district/ Montrose County/ ore guides/ carnitite/ Star No. 1 claim/ Wright mines/ theories of origin/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Burro Canyon Formation/ geology/ Colorado Plateau/ ore deposits/ Wingate Sandstone/ Mesa County/ Atkinson Creek quadrangle/

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Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnitite/ geology/ ore deposits/ Red Canyon quadrangle/

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Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnitite/ geology/ ore deposits/ Red Canyon quadrangle/

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Montrose County/ Mesa County/ Atkinson Creek quadrangle/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Wright mines/ Star No. 1 claim/ geology/ ore deposits/

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veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/

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Dolores County/ Mesa County/ exploration/ carnitite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/
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COLORADO PLATEAU

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sandstone/ Colorado Plateau/

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sandstone/ Colorado Plateau/

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sandstone/ Colorado Plateau/

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Archuleta County/ Colorado Plateau/

COLORADO PLATEAU

Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/
igneous-metamorphic/ Entrada Sandstone/

Montrose County/ claim map/ Bull Canyon quadrangle/
sandstone/ Colorado Plateau/

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sandstone/ Colorado Plateau/

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sandstone/ Colorado Plateau/

claim map/ Colorado Plateau/ Horse Range Mesa/
ore deposits/ sandstone/ Charles A claims/ Apex
claims/ Rio Grande claims/ Hot Foot claims/ Summit claims/ Radium claims/ Bean claims/ Charles
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Morrison Formation/

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sandstone/ Colorado Plateau/

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sandstone/ Colorado Plateau/

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982
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isotopes/ radium/ Montrose County/ sandstone/

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district/ sandstone/ Colorado Plateau/ ore deposits/
geology/

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County/ sandstone/ Colorado Plateau/ ore deposits/
geology/

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deposition/ uranium/ vanadium/ Colorado/ sandstone/

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mine/ Colorado Plateau/ genesis/ uranium/ vanadium/
ore deposits/ geology/

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sementation/ uranium/ vanadium/ Morrison Formation/
sandstone/ carbonaceous materials/ Mesa County/
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ore deposits/ zoning/ elements/ Colorado Plateau/
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Morrison Formation/ San Miguel County/ Dolores
County/ geochemistry/ sandstone/ uranium/ vanadium/
Colorado Plateau/

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exploration/ Montrose County/ San Miguel County/
Dolores County/ uranium/ vanadium/ sandstone/
Morrison Formation/ Colorado Plateau/

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district/ structure/ San Miguel County/ Dolores
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sandstone/ Colorado Plateau/

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alteration/ deposition/ genesis/ vanadium/ uranium/
sandstone/ carbonaceous materials/ San Miguel
County/ Mancos Shale/ Morrison Formation/ pore
waters/ Colorado Plateau/

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County/ Dolores County/ sandstone/ uranium/
vanadium/ Morrison Formation/ Chinle Formation/
Colorado Plateau/

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Plateau/ Dolores County/ sandstone/ uranium/
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Cougar mine/ Slick Rock district/ Colorado Plateau/
ore deposits/ geology/

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COLORADO PLATEAU

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Colorado Plateau/ elements/ analyses/ sandstone/ ore classification/ ore composition/ uranium/ ore deposits/

sandstone/ elements/ Triassic/ Jurassic/ Morrison Formation/ vanadium/ Chinle Formation/ Colorado Plateau/

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coffinite/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Larimer County/ Copper King mine/ mineralogy/ chemistry/ Front Range/ veins/ Montana County/ igneous-metamorphic/

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COLORADO PLATEAU

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age dating/ uraninite/ Triassic/ Jurassic/ sediments/ Colorado Plateau/ Colorado/ sandstone/

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COLORADO PLATEAU

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Colorado/ isotopes/ ore deposits/ sandstones/

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sandstone/

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genesis/ Front Range/

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County/ Montrose County/ San Miguel County/
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County/ Montrose County/ San Miguel County/
La Plata County/

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Matchless mine/ Old Leyden coal mine/ Peanut
mine/ Robinson property/ pyrobitumins/ Weatherly
property/ Wild Steer mine/ veins/ sandstone/
Cutler Formation/ Dolores Formation/ mineralogy/
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Wash Member/ igneous-metamorphic/ Colorado Plateau/
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Colorado Plateau/ Copper King mine/ Larimer
County/ Arrowhead mine/ Mesa County/ Jefferson
County/ Montrose County/ San Miguel County/
geochimistry/ x-ray analyses/ mineralogy/ sandstone/
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Colorado Plateau/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ Montrose
County/ x-ray analyses/ San Miguel County/ sandstone/
Cappe King mine/ geochemistry/ igneous-metamorphic/

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veins/ Front Range/ coffinite/ uranium/ silicates/
Copper King mine/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ Montrose
County/ x-ray analyses/ San Miguel County/ sandstone/
Copper King mine/ geochemistry/ igneous-metamorphic/

Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/
stratigraphy/ correlation/ Garfield County/
Mesa County/ Delta County/ Gunnison County/

Stokes, W. L., 1956
Colorado Plateau/ age determination/ carnotite/ sandstone/
uranium/ Colorado Plateau/ genesis/ age dating/
Colorado/ isotopes/ ore deposits/ sandstones/

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Colorado Plateau/ age determination/ radioactivity/
equilibrium/ carnotite/ sandstone/ ore deposits/
radioactive equilibrium/

Stokes, W. L., 1950
Colorado Plateau/ age determination/ carnotite/
sandstone/

Stokes, W. L., 1952
Colorado Plateau/ fossils/ stratigraphy/ Mesa
County/ correlation/ San Miguel County/ sandstone/

Stokes, W. L., 1953
Colorado Plateau/ ore deposits/ mineralization/
Jurassic/ Morrison Formation/ Salt Wash Member/
tectonism/ Utah/ sedimentary features/ organic
material/ Blanding district/ San Rafael area/
sandstone/

Stokes, W. L., 1955
Colorado Plateau/ ore deposits/ sedimentary
patterns/ mineralization/ Jurassic/ Morrison
Formation/ uranium/ Colorado/ genesis/ sandstone/

Stokes, W. L., 1954
Colorado Plateau/ ore deposits/ genesis/ Jurassic/
fluvial sediments/ cyclical deposition/ Morrison
Formation/ Jurassic/ stratigraphy/ Colorado/
sandstone/

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Colorado Plateau/ stratigraphy/ sedimentary
relations/ structural relations/ ore deposits/
Jurassic/ Morrison Formation/ Salt Wash Member/
sandstone/

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Colorado Plateau/ sandstone/ continental sediments/
Montrose County/ sandstone/ lead-uranium ratios/
Mesa County/ San Miguel County/ San Juan County/

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fluvial sandstone/ eolian sandstone/ Colorado
Plateau/ sedimentary structures/ sandstone/

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vanadium/ sandstone/ Mesa County/ Gateway district/
Colorado Plateau/ ore deposits/

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Montrose County/ San Miguel County/ geology/
oil/ gas/ sections/ stratigraphy/ Egnar-Gypsum
Valley area/ Salt Wash Member/ structure/ structural
history/ sandstone/ Colorado Plateau/ Morrison
Formation/

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and Butler, A. P., Jr., 1945
Mesa County/ Colorado/ Utah/ Gateway district/
uranium/ ore deposits/ vanadium/ Calamity Group
claims/ sandstone/ Tenderfoot Mesa/ carnotite/
production/ Salt Wash Member/ Morrison Formation/
Colorado Plateau/ geology/ map/

988
COLORADO PLATEAU

Strobell, J. D., Jr., 1953
Colorado Plateau/ ore distribution/ sandstone/ Gateway district/ ore deposits/ Mesa County/

Strobell, J. D., Jr., 1953
Colorado Plateau/ ore distribution/ sandstone/ grade distribution/ ore deposits/

Mesa County/ Montrose County/ sandstone/ Colorado Plateau/ statistical measures/ average deposit size/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Gateway district/ Uravan district/

Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1951
uranium/ ore deposits/ United States/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

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veins/ uranium/ secondary deposits/ United States/ Central City district/ Colorado Plateau/ Gilpin County/ ore deposits/ igneous-metamorphic/ sandstone/ Front Range/

Swanson, V. E., 1956
marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

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marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Paradox Member/ Hermosa Formation/

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oil yield/ uranium/ black shale/ Green River Formation/ Moffat County/ Rio Blanco County/ shale/ Colorado Plateau/

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gEOLOGY/ map/ Craig quadrangle/ sandstone/ Moffat County/ Colorado Plateau/

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detrioite/ vanadium/ Jo Dandy mine/ Montrose County/ Morrison Formation/ sandstone/ x-ray analyses/ geochemistry/ Colorado Plateau/ strontium/ mineralogy/

duttonite/ vanadium/ minerals/ type locality/ sandstone/ Montrose County/ Peanut mine/ Colorado Plateau/ mineralogy/

duttonite/ Montrose County/ Peanut mine/ vanadium/ mineralogy/ sandstone/ Colorado Plateau/

duttonite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ Morrison Formation/ x-ray analyses/ Peanut mine/ Sundown claim/ mineralogy/ sandstone/

sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/

duttonite/ vanadium/ Peanut mine/ Montrose County/ sandstone/ geochemistry/ x-ray analyses/ Colorado Plateau/ mineralogy/

sherwoodite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ x-ray analyses/ analyses/ Peanut mine/ Sundown claim/ Morrison Formation/ sandstone/ mineralogy/

sherwoodite/ vanadium/ sandstone/ Colorado Plateau/
COLORADO PLATEAU

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Colorado Plateau/ uranium/ vanadium/ Egnar area/ exploration/ drilling/ ore guides/ Radium group/ conglomerate/ carnallite/ Radium mines/ production/ reserves/ resources/ Brushy Basin Member/ sandstone/ Morrison Formation/ Salt Wash Member/ San Miguel County/

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reserves/ resources/ Club Mesa area/ Montrose County/ analyses/ Colorado Plateau/ ore deposits/ geology/ Morrison Formation/ sandstone/

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reserves/ resources/ Club Mesa area/ Montrose County/ Colorado Plateau/ ore deposits/ geology/ Morrison Formation/ sandstone/

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Georgetown group/ San Miguel County/ Veta Glad claim/ Veta Mad claim/ sandstone/ reserves/ resources/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/

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Georgetown group/ San Miguel County/ Morrison Formation/ reserves/ resources/ Georgeto claim/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/

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Club Mesa area/ Montrose County/ reserves/ resources/ sandstone/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ Morrison Formation/

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Morrison Formation/ Outlaw Mesa area/ Mesa County/ reserves/ resources/ Colorado Plateau/ sandstone/ ore deposits/ uranium/ vanadium/

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reserves/ resources/ Club Mesa area/ Montrose County/ Colorado Plateau/ ore deposits/ geology/ sandstone/ Morrison Formation/

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Club Mesa area/ Montrose County/ reserves/ resources/ sandstone/ Colorado Plateau/ geology/ ore deposits/ Morrison Formation/

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COLORADO PLATEAU

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radioactivity/Moffat County/reconnaissance/ordeposits/sandstone/Colorado Plateau/Browns
Park Formation/

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radioactivity/Montezuma County/reconnaissance/ordeposits/Colorado Plateau/sandstone/

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radioactivity/Montezuma County/reconnaissance/ordeposits/sandstone/Colorado Plateau/

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radioactivity/Ouray County/reconnaissance/ordeposits/spring deposits/igneous-metamorphic/
Colorado Plateau/San Juan Mountains/

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geology/mining engineering/petrology/minerals/
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district/sandstone/Colorado Plateau/

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Plateau/sandstone/

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lead-210/thorium/uranium/content/hazard
analysis/alpha particles/beta particles/water/
wastes/radioactivity/Colorado/surface waters/
Colorado River basin/radium monitoring/Colorado
Plateau/

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water pollution/uranium/ordeposits/tailings/
radium isotopes/statistical analyses/thorium/
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Mexico/Colorado River basin/water quality/

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radiation monitoring/radium-26/statistics/
uranium/water pollution/Colorado/
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production/potential/reserves/resources/
sandstone/ordeposits/

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Garfield County/Colorado Plateau/

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Jefferson County/Rio Blanco County/oil shale/
Front Range/Colorado Plateau/bituminous shales/

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geophysical investigations/ground water/Triassic
rocks/reserves/resources/igneous-metamorphic/
uranium/vanadium/stratigraphy/Carboniferous rocks/
Morrison Formation/trace elements/
U.S. Geological Survey, 1953
geology/ San Miguel County/ Uravan district/ sandstone/ Colorado Plateau/ Powderhorn district/ igneous-metamorphic/ exploration/ Slick Rock district/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ La Plata County/ Gunnison County/

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sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ San Miguel County/ Dolores County/ Gunnison County/ Montrose County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan County/ Clear Creek County/

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geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/

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Colorado Plateau/ Front Range/ sandstone/ coal springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/

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Colorado Plateau/ veins/ Front Range/ Morrison Formation/ Triassic studies/ mineralogy/ petrology/ analyses/ sandstone/ igneous-metamorphic/ permeability/ geophysics/ gamma-ray logs/ ground water studies/ trace elements/ petrology/ geophysics/

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Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ igneous-metamorphic/ Ralston Buttes district/

Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/

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Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ igneous-metamorphic/ Dolores County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/

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drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/
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Klondike Ridge/uranium/vanadium/copper/manganese/Colorado Plateau/San Miguel County/Gypsum Valley/Morrison Formation/sandstone/veins/

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geology/ore deposits/Klondike Ridge/uranium/vanadium/copper/manganese/Colorado Plateau/San Miguel County/Gypsum Valley district/Morrison Formation/sandstone/veins/

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Colorado Plateau/reserves/ore deposits/Jo Dandy area/Montrose County/Morrison Formation/Salt Wash Member/drilling/sandstone/uranium/vanadium/

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Colorado Plateau/Jo Dandy area/Montrose County/ore deposits/exploration/sandstone/reserves/Morrison Formation/Salt Wash Member/drilling/uranium/vanadium/Paradox Valley district/

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Mineral Joe mine/Colorado Plateau/reserves/exploration/sandstone/ore deposits/uranium/vanadium/Salt Wash Member/Jo Dandy area/Montrose County/Morrison Formation/

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Colorado Plateau/reserves/exploration/sandstone/ore deposits/uranium/vanadium/Morrison Formation/Salt Wash Member/Jo Dandy area/Montrose County/

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Boulder County/Larimer County/Clear Creek County/Central City district/Gilpin County/Caribou mine/Front Range/Jefferson County/Placerville district/San Miguel County/Colorado Plateau/ore deposits/Jo Dandy area/Montrose County/

Walker, G. W., and Adams, J. W., 1963
Boulder County/Larimer County/Placerville district/Central City district/Gilpin County/Clear Creek County/Front Range/Jefferson County/Schwertwelder mine/San Miguel County/Colorado Plateau/Copper King mine/Saguache County/ore deposits/Caribou mine/Los Ochos mine/sandstone/Colorado/mineralogy/igneous-metamorphic/stratigraphy/paragenesis/

Walker, G. W., and Osterwald, F. W., 1956
ore deposits/veins/fluorite/Front Range/Gilpin County/Jefferson County/sandstone/Dry Creek district/Saguache County/Powderhorn district/Custer County/Chaffee County/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/veins/geology/Front Range/Gilpin County/Jefferson County/sandstone/Boulder County/San Miguel County/igneous-metamorphic/Colorado Plateau/Saguache County/Custer County/Chaffee County/Colorado Plateau/Clear Creek County/Jamestown district/Cochetopa district/Powderhorn district/

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Montrose County/Bull Canyon district/sandstone/geology/Colorado Plateau/ore deposits/

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Monogram Mesa/Jo Dandy area/Bull Canyon district/Colorado Plateau/reserves/drilling/exploration/sandstone/ore deposits/uranium/vanadium/Morrison Formation/Salt Wash Member/Montrose County/San Miguel County/Dry Creek basin/

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uranium/ore deposits/exploration/geology/stratigraphy/mining/mineralogy/vanadium/minerals/reserves/Coyote Mesa district/Dolores Plateau/sandstone/Colorado Plateau/San Miguel County/Dolores County/

pyrite/ore stage/growth/deposit maturity/ore deposits/roll-type uranium deposits/sandstone/oxidation/uranium/supergene enrichment/Colorado Plateau/

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Colorado Plateau/ore deposits/genesis/volcanic debris/sandstone/precipitation/uranium/

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uranium/sandstone/volcanic debris/Triassic formations/Jurassic formations/Colorado Plateau/

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uranium/ore deposits/geology/stratigraphy/topography/geological surveys/mineralization/White River uplift/Rio Blanco County/sandstone/Colorado Plateau/Oak Ridge fold district/

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Colorado Plateau/uranium/ore deposits/geology/carnotite/sandstone/stratigraphy/vanadium/uranium/reserves/Coal Creek anticline/White
River uplift/ Rio Blanco County/ mineralization/ maps/ Coal Creek anticline district/

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uranium/ ore deposits/ maps/ geology/ Colorado Plateau/ mineralization/ Grand Hogback district/ White River uplift/ Rio Blanco County/ Garfield County/ sandstone/

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geology/ Colorado/ uranium/ ore deposits/ vanadium/ lithology/ stratigraphy/ geological surveys/ reserves/ Colorado Plateau/ resources/ sandstone/

Weeks, A. D., 1951
ore deposits/ Jurassic/ Morrison Formation/ clay studies/ Calamity Mesa/ Mesa County/ Montrose County/ mineralogy/ petrology/ geochemistry/ clay (red and gray)/ sandstone/ Colorado Plateau/ Bitter Creek district/

Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ roscoelite/ mineralogy/ Uravan district/ Chiricahua Formation/ Shinarump Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/

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mineralogy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ ore identification/ minerals/ sandstone/

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Colorado Plateau/ ore deposits/ mineral assemblages/ mineral properties/ sandstone/

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Colorado Plateau/ ore deposits/ mineral properties/ minerals/ sandstone/ mineralogy/

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ore deposits/ geologic history/ uranium/ sandstone/ genesis/ oxidation/ Colorado Plateau/ mineralogy/ oxidation/ uranium/ geology/ sandstone/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Uravan district/ ore deposits/ mineralogy/ sandstone/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/ ore deposits/ classification/ uranium/ ore deposits/ minerals/ Colorado Plateau/ Paradox Valley/ analyses/ mineralogy/ Colorado Plateau/ hummerite/ montroseite/ vanadium/ Montrose County/ sandstone/ Paradox Valley/ analyses/ minerals/ Colorado Plateau/ hummerite/ montroseite/ minerals/ Montrose County/ Colorado/ sandstone/ vanadium/ x-ray analyses/ Hummer mine/ Paradox Valley/ Colorado Plateau/ montroseite/ Montrose County/ Bitter Creek mine/ Jo Dandy mine/ Matchless mine/ Mesa County/ Colorado Plateau/ vanadium/ mineral properties/ geochemistry/ x-ray analyses/ sandstone/

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Colorado Plateau/ ore deposits/ ore guides/ mineralization/ mineralogy/ trace elements/ sandstone/

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Colorado Plateau/ sandstone/ mineralogy/ trace elements/

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Colorado Plateau/ sandstone/ mineralogy/ vanadium/ minerals/ uranium/ mineral identification/

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Colorado Plateau/ ore deposits/ uranium/ vanadium/ minerals/ mineralogy/ identification/ x-ray data/ Mesa County/ analyses/ Montrose County/ San Miguel County/ Dolores County/ sandstone/

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Uravan district/ sandstone/ Colorado Plateau/ mineralogy/ Dolores County/ Montrose County/ Mesa County/ ore deposits/ hummerite/ montroseite/ vanadium/ Montrose County/ sandstone/ Paradox Valley/ analyses/ minerals/ Colorado Plateau/ hummerite/ montroseite/ minerals/ Montrose County/ Colorado/ sandstone/ vanadium/ x-ray analyses/ Hummer mine/ Paradox Valley/ Colorado Plateau/ montroseite/ Montrose County/ Bitter Creek mine/ Jo Dandy mine/ Matchless mine/ Mesa County/ Colorado Plateau/ vanadium/ mineral properties/ geochemistry/ x-ray analyses/ sandstone/
montroseite/ Montrose County/ Jo Dandy mine/ Matchless mine/ Mesa County/ Bitter Creek mine/ Colorado Plateau/ vanadium/ mineral properties/ sandstone/ geochemistry/ x-ray analyses/

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Colorado Plateau/ asphaitic rocks/ Atkinson Mesa/ Club Mesa/ Flat Top Mesa/ Jo Dandy area/ Paradox district/ Placerville district/ Rifle district/ Slick Rock district/ Urravan/ Montrose County/ San Miguel County/ mineralogy/ petrology/ geochemistry/ vanadium/ ore deposits/ Garfield mine/ roscoelite/ chemical analyses/ sandstone/ Garfield County/

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granite/ vanadium/ mineral properties/ mineralogy/ sandstone/ limestone/ Colorado Plateau/ Club Mesa/ Montrose County/ Atkinson Mesa/ Golden Cycle mine/ Morrison Formation/ ore deposits/

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Front Range

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thalenite/ White Cloud pegmatite/ South Platte district/ Jefferson County/ igneous-metamorphic/ rare earths/ thorium/ Front Range/

thalenite/ allanite/ yttrium/ Jefferson County/ rare earths/ thorium/ pegmatite/ White Cloud pegmatite/ igneous-metamorphic/ South Platte district/ Front Range/

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pitchblende/Front Range/

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Rio Blanco County/Utah/Australia/Front Range/
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history/Gilpin County/Wood mine/Montrose
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Fisher, J. C., 1976
remote sensing/exploration/veins/ore deposits/Front Range/igneous-metamorphic/

Fleisch, P. F., 1954
Colorado Plateau/natural waters/streams/snow/ground water/San Juan Mountains/San Juan County/Ouray County/acid tuff/igneous-metamorphic/Front Range/Colorado Plateau/surface water/

Fix, P. F., 1954
natural waters/hydrogeochemical exploration/streams/stream sediments/ore deposits/ground water/mine waters/Sevier River/Utah/Ralston Creek/Colorado/Montana/Schwarzwalder mine/Front Range/Colorado Plateau/Jefferson County/

Fix, P. F., 1956
hydrogeochemistry/surface water/ground water/uranium/exploration/Front Range/Colorado Plateau/Central City/Clear Creek County/

Fix, P. F., 1956
hydrogeochemistry/surface water/ground water/uranium/exploration/Front Range/Colorado Plateau/Central City/Gilpin County/Clear Creek County/

Fleck, Herman, 1908
pitchblende/Gilpin County/igneous-metamorphic/uranium/ore deposits/Placerville district/sandstone/San Miguel County/Front Range/rare metals/Entrada Sandstone/

Fleck, Herman, 1908
rare elements/uranium/importance/Gilpin County/Front Range/igneous-metamorphic/Placerville district/sandstone/San Miguel County/ore deposits/Colorado Plateau/

Fleck, Herman, 1909
Gilpin County/ore deposits/pitchblende/production/uranium/Placerville district/San Miguel County/rare metals/uranium/Entrada Sandstone/sandstone/igneous-metamorphic/Front Range/Colorado Plateau/

Fleck, Herman, 1909
ore deposits/uranium/valadium/Colorado/sandstone/Colorado Plateau/Front Range/igneous-metamorphic/

Fleck, Herman, 1916
ore deposits/production/rare metals/tungsten/molybdenum/valadium/uranium/Colorado Plateau/Placerville district/San Miguel County/sandstone/Front Range/Gilpin County/igneous-metamorphic/

Franz, G. A., Jr., 1960
Colorado/minerals/locations/Colorado Plateau/Front Range/

Franz, G. A., Jr., 1963
Colorado/minerals/locations/Colorado Plateau/Front Range/

Fraser, G. D., 1948
Coal Creek Quartzite/igneous-metamorphic/Jefferson County/Boulder County/Front Range/

Gabelman, J. W., 1948
geoology/Golden Gate area/Van Bibber Creek area/Jefferson County/igneous-metamorphic/Front Range/

Gabelman, J. W., and Boyer, W. H., 1974
exploration/status/uranium/technology/history/pitchblende/radium/valadium/Colorado Plateau/Front Range/Montrose County/Mesa County/San Miguel County/Dolores County/Moffat County/Jefferson County/sandstone/igneous-metamorphic/shale/
FRONT RANGE

Gable, D. J., 1968
geology/ crystalline rocks/ Morrison quadrangle/ Jefferson County/ igneous-metamorphic/ Front Range/

Gable, D. J., 1969
gleology/ Nederland quadrangle/ Boulder County/ Gilpin County/ igneous-metamorphic/ ore deposits/ Caribou district/ veins/ map/ Caribou mine/ Front Range/

Gallagher, G. L., 1976
Badger Flats area/ Elkhorn thrust area/ Park County/ Teller County/ Precambrian rocks/ ore deposits/ Front Range/ uranium favorability/ igneous-metamorphic/

George, D'Arcy, 1949
uranium/ thorium/ mineralogy/ hypogene/ supergene/ rare earth minerals/ chemistry/ pegmatites/ sandstone/ placers/ black shales/ igneous-metamorphic/ Colorado Plateau/ Front Range/

George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnottite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/

George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

Gilbert, R. E., 1972
Jefferson County/ Schwartzwalder mine/ Front Range/ geology/ map/ igneous-metamorphic/

Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/

Goddard, E. N., 1946
Boulder County/ veins/ igneous-metamorphic/ fluorite/ Tertiary Intruslons/ Jamestown district/ ore deposits/ fluor spar/ Front Range/

Goddard, E. N., and Glass, J. J., 1940
radioactive cerite/ Jamestown district/ ore deposits/ igneous-metamorphic/ uranum/ Boulder County/ geology/ mineralogy/ chemistry/ Front Range/ Precambrian rocks/

Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/

Gott, G. B., 1949
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/

Gott, G. B., 1950
Leyden Ridge/ Jefferson County/ Leyden uranium prospect/ Old Leyden coal mine/ coal/ ore deposits/ geology/ genesis/ reserves/ sandstone/ Front Range/

Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/ Jefferson County/ Clear Creek County/ Gilpin County/ Plikes Peak batholith/ Log Cabin batholith/ Boulder Creek batholith/ igneous-metamorphic/ Boulder County/

Gow, T. T., 1914
basalt/ Table Mountain/ igneous-metamorphic/ Jefferson County/ Conejos County/ Rio Grande County/ Gilmore/ Front Range/ radioactivity/

Granger, H. C., and Beroni, E. P., 1950
Jefferson County/ Cook property/ igneous-metamorphic/ reconnaissance/ Front Range/

Granger, H. C., and King, R. U., 1950
Larimer County/ Copper King mine/ Copper King shaft/ Black Hawk claim no. 1/ pitchblende/ analyses/ igneous-metamorphic/ data/ Front Range/ uranium/

Granger, H. C., and King, R. U., 1951
Larimer County/ pitchblende/ Copper King mine/ Black Hawk no. 1 claim/ igneous-metamorphic/ pitchblende/ geology/ analyses/ Front Range/

Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/

Grossman, E. L., and Smith, B. C., 1956
lithology/ uranium/ ore deposits/ sandstone/ exploration/ Front Range/ Dakota hogback/ Dakota Sandstone/ Cretaceous/ Boulder County/ Larimer County/ asphaltite/ Rose Mary No. 1 claim/ Wahketa lease/ Horsetooth Reservoir site/ Carter Lake/ Bonnell lease/ airborne radiometrics/

Gruener, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/
Gude, A. J., 3d, and McKeown, F. A., 1952
Jefferson County/ ore deposits/ Front Range/ coal/ exploration/ drilling/ Old Leyden coal mine/ minerals/ carnallite/ Laramie Formation/ reserves/ sandstone/ shale/ veins/

Gude, A. J., 3d, and McKeown, F. A., 1953
veins/ exploration/ Jefferson County/ Old Leyden coal mine/ sandstone/ coal/ shale/ drilling/ reserves/ Front Range/

Guillotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ Igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek permatltes/ Clear Creek County/ carnallite/

Guillotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Gilpin County/ Igneous-metamorphic/ Kirk mine/ Wood mine/ Belcher mine/ Front Range/ Central City district/ geology/ mining/ Quartz Hill area/

Guillotte, G. B., 1944
uranium/ ore deposits/ Grover pegmatite mine/ Igneous-metamorphic/ Clear Creek County/ Front Range/ columbite/ North Beaver Brook area/

Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ Igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/

Hall, C. R., 1976
alkaline/ igneous rocks/ Igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Hanley, E. S., 1948
El Paso County/ Golden Cycle mill dump/ tallings/ Cripple Creek ore/ Teller County/ Front Range/ Igneous-metamorphic/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ Igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/

Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ Igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/

Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown district/ Nederland district/ Boulder County/

Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ Igneous-metamorphic/ reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/ Belcher mine/ trace elements/ Front Range/

Harrison, J. E., 1952
Clear Creek County/ ore deposits/ Front Range/ Spring Gulch/ Lawson-Dumont district/ pegmatite/ granite/ schist/ minerals/ autunite/ metatorbernite/ pitchblende/ Martha E prospect/ Igneous-metamorphic/ Idaho Springs area/

Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/ Colorado/ Clear Creek County/ Igneous-metamorphic/ veins/ Gilpin County/ thorium/ hypogene zoning/ Front Range/

Harrison, J. E., 1953
Freeland-Lamartine district/ Clear Creek County/ veins/ Igneous-metamorphic/ Gilpin County/ Front Range/

Harrison, J. E., 1955
fracture patterns/ Freeland-Lamartine district/ Clear Creek County/ Igneous-metamorphic/ Gilpin County/ veins/ thorium/ hypogene zoning/ Front Range/

Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont district/ pitchblende/ Jo Reynolds mine/ veins/ stratigraphy/ Idaho Springs Formation/ Precambrian rocks/ Igneous-metamorphic/ structure/ ore deposits/ geology/ metamorphic rocks/ bostonite porphyry/ economic geology/

Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont district/ pitchblende/ Jo Reynolds mine/ veins/ stratigraphy/ Idaho Springs Formation/ Precambrian rocks/ Igneous-metamorphic/ structure/ ore deposits/ geology/ metamorphic rocks/ bostonite porphyry/ economic geology/

Harrison, J. E., and Wells, J. D., 1953
Igneous-metamorphic/ Clear Creek County/ Freeland district/ Chicago Creek area/ structure/ pitchblende/ Front Range/

Harrison, J. E., and Wells, J. D., 1954
Freeland-Lamartine district/ Front Range/ autunite/ dumontite/ Arelands mine/ Belle Creole mine/ Invincible mine/ Golden Rod mine/ veins/ stratigraphy/ Idaho Springs Formation/ Igneous-metamorphic/ geology/ ore deposits/ Lone Tree mine/ Clear Creek County/ Belle of the West (mine) tunnel/

Harrison, J. E., and Wells, J. D., 1956
Clear Creek County/ Chicago Creek area/ Front Range/ mineralogy/ petrology/ geochrodi/ breccia reefs/ pitchblende/ Igneous-metamorphic/ intrusive igneous rocks/ uranium/

Harrison, J. E., and Wells, J. D., 1956
veins/ ore deposits/ production/ geology/ bostonite/ alaskite/ migmatite/ Freeland-Lamartine district/ Clear Creek County/ Igneous-metamorphic/ metamorphic rocks/ Front Range/
Harrison, J. E., and Wells, J. D., 1959
Clear Creek County/ Chicago Creek area/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ minerals/ pitchblende/ intrusive igneous rocks/ pegmatites/ veins/ uranium/ geology/ genesis/ production/ ore deposits/ igneous-metamorphic/

Hart, S. R., 1964
petrology/ isotopes/ minerals/ contact zone/ Front Range/ igneous-metamorphic/ age dating/

Hawley, C. C., and Moore, F. B., 1955
Fall River area/ ore deposits/ genesis/ garnet/ quartz/ Clear Creek County/ veins/ uranium/ ore controls/ igneous-metamorphic/ pitchblende/ wall rocks/ Front Range/ geology/

Hawley, C. C., and Moore, F. B., 1967
Clear Creek County/ ore deposits/ resources/ Front Range/ geology/ genesis/ Lawson-Dumont-Fall River district/ veins/ Idaho Springs Formation/ Precambrian rocks/ igneous-metamorphic/

Heyse, J. V., 1971
uranium/ mineralogy/ petrology/ Schwatrzwalder mine/ Jefferson County/ age estimation/ emission spectroscopy/ uraninite/ ore deposits/ Front Range/ geochemistry/ igneous-metamorphic/ paragenesis/ pitchblende/

Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/

Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/

Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/

Hill, J. M., 1945
Gilpin County/ Kirk mine/ geology/ sampling/ unwatering/ igneous-metamorphic/ Front Range/ Quartz Hill area/

Hillebrand, W. F., 1890
ore deposits/ geochemistry/ nitrogen/ uraninite/ Black Hawk mine/ analyses/ Gilpin County/ Front Range/ igneous-metamorphic/

Hillebrand, W. F., 1890
ore deposits/ uraninite/ geochemistry/ nitrogen/ Black Hawk/ Gilpin County/ igneous-metamorphic/ analyses/ Front Range/

Hirschi, H., 1923
igneous-metamorphic/ Clear Creek County/ volcanic rocks/ pitchblende/ Central City district/ genesis/ Front Range/

Hurstey, P. M., and Fairbairn, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/ minerals/ igneous-metamorphic/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/

Jenkins, E. D., 1961
records/ logs/ wells/ test holes/ chemical analyses/ radiometric analyses/ ground water/ Boulder area/ Boulder County/ Front Range/

Kaiser, E. P., and Page, L. R., 1952
ore deposits/ Colorado/ uranium/ United States/ sandstone/ Front Range/ igneous-metamorphic/ Colorado Plateau/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kehn, T. M., 1955
bibilography/ geology/ shale/ uranium/ coal/ lignite/ Ledyen Coal mine/ Jefferson County/ canrotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ ore deposits/ Great Plains/

Kehn, T. M., 1957
ore deposits/ coal/ shale/ lignite/ Great Plains/ bibliography/ uranium/ geology/ Jefferson County/ canrotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ Ledyen coal mine/

Keller, W. D., 1953
clay minerals/ Morrison Formation/ kaolinite/ illite/ depositional environments/ Colorado Plateau/ sandstone/ type section/ geochemistry/ analyses/ Jefferson County/ Front Range/

Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
King, R., 1950  
uraninite/ Canada/ Idaho/ Lake Superior/ Caribou mine/ Wood's Hole/ Colorado/ Radium vein/ Boulder County/ igneous-metamorphic/ Front Range/ geology/ veins/ ore deposits/  

Kerr, P. F., 1956  
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/  

Kerr, P. F., 1956  
uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ igneous-metamorphic/  

Kerr, P. F., 1956  
veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/  

Kerr, P. F., Anderson, T. P., and Hamilton, Peggy-Kay, 1951  
veins/ Bellevue-Rochester mine/ igneous-metamorphic/ Clear Creek County/ alteration/ Front Range/ geology/  

King, R. U., 1950  
Boulder County/ pitchblende/ veins/ igneous-metamorphic/ Precambrian rocks/ Caribou mine/ geology/ ore deposits/ No Name vein/ Radium vein/ silver/ uranium/ lead/ zinc/ analyses/ Front Range/  

King, R. U., 1950  
Gilpin County/ Apex claims/ Bates Creek/ Front Range/ ore deposits/ geology/ igneous-metamorphic/  

King, R. U., 1950  
Central City district/ Gilpin County/ pitchblende/ Wood mine/ igneous-metamorphic/ Front Range/ ore deposits/ geology/  

King, R. U., 1951  
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/  

King, R. U., 1951  
Lawson area/ Clear Creek County/ Jo Reynolds mine/ minerals/ pitchblende/ Precambrian rocks/ veins/ igneous-metamorphic/ ore deposits/ geology/ schist/ granite/ Elida tunnel/ Front Range/  

King, R. U., 1951  
Wood mine/ ore deposits/ pitchblende/ Gilpin County/ igneous-metamorphic/ Front Range/ Central City district/ geology/  

King, R. U., 1952  
ore deposits/ Boulder County/ Caribou mine/ veins/ No Name vein/ Radium vein/ uranium/ geology/ igneous-metamorphic/ Front Range/ pitchblende/  

King, R. U., 1952  
uranium/ veins/ Caribou mine/ Boulder County/ Front Range/ igneous-metamorphic/ pitchblende/ ore deposits/ geology/  

King, R. U., 1953  
reconnaissance/ Front Range/ igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/  

King, R. U., 1954  
ore deposits/ exploration/ veins/ Ralston Creek district/ Jefferson County/ Copperdale/ Lake George/ Park County/ geology/ igneous-metamorphic/ Front Range/  

King, R. U., and Beroni, E. P., 1953  
igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/  

King, R. U., and Granger, H. C., 1952  
Clear Creek County/ torbernite/ George Peabody claim/ Little MacGregor claim/ Robineau claims/ Front Range/ granite/ pegmatites/ veins/ Little Mac claim/ ore deposits/ geology/ igneous-metamorphic/  

King, R. U., and Moore, F. B., 1951  
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/  

King, R. U., and Theobald, P. K., Jr., 1955  
Canon City/ Idiedale/ ore deposits/ exploration/ Jefferson County/ veins/ FMD mine/ Front Range/ geology/ igneous-metamorphic/ Fremont County/  

King, R. U., and Theobald, P. K., Jr., 1955  
veins/ Gilpin County/ Blackhawk district/ Silver Hill area/ igneous-metamorphic/ geology/ Front Range/ ore deposits/  

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952  
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiloa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/  

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953  
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/
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| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

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| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |

| ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ | ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/ |
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resources/ Front Range/

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Creek area/ Dawson arkose/ James Peak area/
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Formation/ Front Range/

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base metals/ ore deposits/ age dating/ Front
Range/ igneous-metamorphic/

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Range/ Jefferson County/ Chaffee County/ Fremont
County/ Gunnison County/ Huerfano County/ Saguache
County/ Park County/ Colorado Plateau/

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exploration/ veins/ sandstone/ igneous-metamorphic/
pegmatites/ geobotany/ Front Range/ Gilpin County/
Clear Creek County/ coal/ Montrose County/ San
Miguel County/ ore deposits/ phosphates/ shale/
placers/

McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/
sandstone/ igneous-metamorphic/ Front Range/
pegmatites/ geobotany/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ Colorado Plateau/ phosphates/
shale/ placers/

McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnallite/
veins/ sandstone/ igneous-metamorphic/ pegmatites/
geobotany/ Front Range/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ veins/ Colorado Plateau/
phosphates/ shale/ placers/

McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous
substances/ coal/ sandstone/ phosphates/ United
States/ Dolores County/ Mesa County/ Gilpin
County/ igneous-metamorphic/ Clear Creek County/
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Colorado Plateau/
uranium/ore deposits/ veins/bituminous substances/sandstone/limestone/coal/shale/pitchblende/geochemistry/age/Front Range/Colorado Plateau/Gilpin County/Clear Creek County/Montrose County/San Miguel County/Mesa County/igneous-metamorphic/

veins/bituminous substances/genesis/uranium/ore deposits/igneous-metamorphic/sandstone/limestone/coal/shale/pitchblende/geochemistry/age/Front Range/Colorado Plateau/Gilpin County/Clear Creek County/Montrose County/San Miguel County/Mesa County/igneous-metamorphic/

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uranium/Colorado Plateau/Morrison Formation/Entrada Sandstone/sandstone/Mesa County/Montrose County/San Miguel County/Dolores County/Montezuma County/Front Range/Boulder County/Gilpin County/Clear Creek County/Caribou district/igneous-metamorphic/

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geochemistry/Precambrian rocks/Idaho Springs district/petrography/Clear Creek County/Gilpin County/igneous-metamorphic/Front Range/

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Canon City embayment/ airborne radiometrics/ Pueblo County/ shale/ clay/ George Avery Ranch/ carnitite/ analyses/ Hoyt Adkins Ranch/ Burgess prospect/ El Paso County/ Dawson Arkose/ sandstone/ Dakota Formation/ Fremont County/ geology/ Morrison Formation/ Front Range/

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veins/ structural geology/ Precambrian rocks/ Teller County/ structural controls/ ore deposits/ Cordilleran foreland/ igneous-metamorphic/ Gilpin County/ Front Range/ tectonics/ El Paso County/ Larimer County/ Clear Creek County/

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ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/

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Front Range/ Central City district/ ore deposits/ Clear Creek County/ Gilpin County/ analyses/ quartz monzonite/ igneous-metamorphic/ Wood mine/ Kirk Mine/ Quartz Hill area/ pitchblende/ Copper King mine/ Larimer County/ paragenesis/

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Front Range/ veins/ igneous-metamorphic/ ore deposits/ Central City district/ Idaho Springs district/ Gilpin County/ Clear Creek County/ reserves/ Wood mine/ Kirk mine/ Bonanza mine/ German mine/ pitchblende/ Martha E mine/

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Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/ pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/

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mineralogy/ geochemistry/ Copper King mine/ Larimer County/ pitchblende/ uraninite/ coffinite/ Front Range/ ore deposits/ igneous-metamorphic/ Phair, George, 1954
uranium/ veins/ igneous-metamorphic/ Front Range/ pitchblende/ porphyries/ thorium/ ore deposits/

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ore deposits/ mineralization/ igneous-metamorphic/ thorium/ analyses/ granite/ Front Range/ Boulder Creek batholith/ Sherman granite/ Pikes Peak granite/ New Hampshire/ Boulder County/
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Colorado/ New Hampshire/ ore deposits/ geochemistry/ igneous rocks/ igneous-metamorphic/ Precambrian rocks/ granite/ Boulder Creek batholith/ Silver Plume granite/ Front Range/ Boulder County/

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Front Range/ Boulder Creek batholith/ Silver Plume/ ore deposits/ uranium/ Precambrian rocks/ granite/ igneous-metamorphic/ thorium/ Boulder County/

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taxiation/ uranium/ rocks/ minerals/ Boulder Creek batholith/ igneous-metamorphic/ Front Range/ Boulder County/

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zircon/ Boulder Creek batholith/ Front Range/ igneous-metamorphic/ granite/ uranium/ Precambrian rocks/ age dates/ ore deposits/ Boulder County/

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Blue Jay mine/Jamestown district/Colorado Plateau/bostonite dikes/Front Range/ Central City district/mineralogy/petrology/geochemistry/radioactivity/fluorite/Clear Creek County/pitchblende/ordeposits/minerals/Gilpin County/veins/breccia/sandstone/Boulder County/igneous-metamorphic/

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Front Range/Central City district/ordeposits/or guides/exploration/Clear Creek County/Gilpin County/Colorado Plateau/Jamestown district/mineralogy/petrology/geochemistry/radioactivity/Gilpin County/mineralogy/petrology/geochemistry/ igneous-metamorphic/Front Range/

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mining/Jefferson County/Schwartzwalder mine/Ladwig mine/igneous-metamorphic/district 1/Front Range/

mineralogy/paragenesis/fluiddiclusions/generation/Schwartzwalder mine/ordeposits/Jefferson County/Front Range/igneous-metamorphic/

veins/uranium/ordeposits/mineralogy/liquid inclusions/paragenesis/hydrothermal/pitchblende/groundwater/Front Range/Jefferson County/Clear Creek County/Gilpin County/Gunnison County/Saguache County/ Marshall Pass district/Schwartzwalder mine/igneous-metamorphic/

geochemistry/mineralogy/geochemistry/genetic models/hydrothermal uranium deposits/ordeposits/igneous-metamorphic/generation/Front Range/

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veins/ordeposits/pitchblende/Boulder County/Caribou mine/radioactivity/No Name vein/Radium vein/igneous-metamorphic/Front Range/silver/

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or deposis/pitchblende/Boulder County/Caribou mine/radioactivity/No Name vein/Radium vein/veins/igneous-metamorphic/Front Range/silver/

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Park County/sandstone/Garо district/carnotite/copper/vanadium/Front Range/

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uranium/stratigraphy/copper/Jefferson County/mineralogy/geochemistry/geology/mineralization/minerals/Ralston Creek area/Golden Gate Canyon area/Precambrian rocks/pitchblende/Idaho Springs Formation/breccia reefs/ordeposits/Front Range/Schwartzwalder mine/

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data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/

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Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/

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Jefferson County/ veins/ pitchblende/ Ascension mine/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/

Sheridan, D. M., 1956
Jefferson County/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ Ralston Buttes district/ Ascension mine/

Ralston Buttes district/ ore deposits/ exploration/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ exploration/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes quadrangle/ Ralston Buttes district/ Ralston Creek area/

Ralston Buttes district/ ore deposits/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes quadrangle/ Ralston Buttes district/ Ralston Creek area/

Jefferson County/ Juanita Arch quadrangle/ veins/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes quadrangle/ Ralston Buttes district/ Ralston Creek area/

Jefferson County/ Juanita Arch quadrangle/ veins/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes quadrangle/ Ralston Buttes district/ Ralston Creek area/

Sims, P. K., 1953
Front Range/ ore deposits/ exploration/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1953
ore deposits/ Central City district/ Georgetown district/ Front Range/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1954
veins/ igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/

Sims, P. K., 1954
Front Range/ ore deposits/ mineralogy/ petrology/ igneous-metamorphic/ Gilpin County/ Clear Creek County/
Front Range

Sims, P. K., 1955
Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ veins/ Front Range/ igneous-metamorphic/ paragenesis/ structure/

Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ uranium/ mineralogy/ Front Range/ ore deposits/ Buckhorn mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., 1955
veins/ Tertiary/ igneous-metamorphic/ Front Range/ ore deposits/

Sims, P. K., 1955
ore deposits/ veins/ igneous-metamorphic/ Front Range/ Precambrian rocks/ pegmatites/

Sims, P. K., 1955
Front Range/ ore deposits/ trace elements/ Clear Creek County/ Gilpin County/ igneous-metamorphic/

Sims, P. K., 1956
veins/ Front Range/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ igneous-metamorphic/

Sims, P. K., 1956
Gilpin County/ ore deposits/ pitchblende/ genesis/ structural controls/ veins/ Front Range/ Clear Creek County/ geology/ uranium/ igneous-metamorphic/ Central City district/ mineralogy/ paragenesis/

Sims, P. K., 1956
Front Range/ Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ zoning/ tennantite/ Calhoun (East and West) mines/ Carroll mine/ J.P. Whitney mine/ genesis/ host rocks/ intrusive structures/ veins/ stratigraphy/ Precambrian rocks/ uranium/ igneous-metamorphic/ paragenesis/ structure/ pitchblende-bearing vein

Sims, P. K., 1957
Front Range/ igneous-metamorphic/ veins/ geology/ ore deposits/ Gilpin County/ Clear Creek County/

Sims, P. K., 1960
mineralogy/ hypogene zoning/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Front Range/

Sims, P. K., 1960
hypogene zoning/ mineralogy/ Gilpin County/ Clear Creek County/ Central City district/ Front Range/ igneous-metamorphic/

Sims, P. K., 1956
Clear Creek County/ Gilpin County/ geology/ igneous-metamorphic/ Central City district/ Front Range/ Idaho Springs district/ guidebook/

Sims, P. K., 1963
geochemistry/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

Sims, P. K., 1964
Gilpin County/ Clear Creek County/ igneous-metamorphic/ Central City quadrangle/ Russell Gulch/ geology/ Front Range/

Sims, P. K., and Barton, P. B., Jr., 1962
Gilpin County/ Central City district/ hypogene zoning/ ore genesis/ ore deposits/ igneous-metamorphic/ Front Range/ petrology/

Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Jefferson County/ geology/ ore deposits/

Sims, P. K., and Gable, D. J., 1963
cordierite/ Precambrian rocks/ gneiss/ igneous-metamorphic/ Central City quadrangle/ Gilpin County/ Clear Creek County/ Front Range/ minerals/ Central City district/ geology/

Sims, P. K., and Gable, D. J., 1964
geochemistry/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/

Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., and others, 1959
Front Range/ igneous-metamorphic/ uranium/ ore deposits/ geology/ Clear Creek County/ Gilpin County/

Sims, P. K., and Phair, George, 1952
age determination/ Front Range/ Larimer County/ mineralogy/ petrology/ geochemistry/ mines/ minerals/ pitchblende/ Copper King mine/ fault breccia/ shear zones/ veins/ stratigraphy/ Precambrian rocks/ veins/ geology/ Prairie Divide area/ igneous-metamorphic/

Sims, P. K., and Phair, George, 1953
pitchblende/ ore deposits/ Copper King mine/ Larimer County/ uranium/ igneous-metamorphic/ Front Range/
geology/ore deposits/Front Range/genesis/mineralogy/analyses/emission spectroscopy/uranium/veins/igneous-metamorphic/Clear Creek County/Gilpin County/Boulder County/Larimer County/

Sims, P. K., and Tooker, E. W., 1954
Eureka Gulch area/Central City district/Gilpin County/igneous-metamorphic/maps/Front Range/geochemistry/

Sims, P. K., and Tooker, E. W., 1955
metatorbernite/alteration/wall rocks/Gilpin County/uranium/igneous-metamorphic/veins/Front Range/Central City district/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/Gilpin County/ore deposits/pitchblende/Central City district/veins/uranium/igneous-metamorphic/bostonite/production/pegmatites/gneiss/genesis/Front Range/

Sims, P. K., and Toulmin, Priestley, 3d, 1961
temperature of formation/Precambrian rocks/Copper King mine/Front Range/Larimer County/igneous-metamorphic/uranium/granite/ore deposits/uranium/thorium/Colorado/gneiss/original/Sharon Springs Member/Hermosa Formation/Paradox Member/

Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1953
Gilpin County/Clear Creek County/igneous-metamorphic/Central City district/Front Range/geochemistry/ore deposits/

Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1954
Gilpin County/Clear Creek County/Central City district/geology/maps/ore deposits/Iron mine/veins/Russell Gulch area/Quartz Hill area/Nevada Gulch area/pitchblende/Wood mine/Cahloun mine/Gold King claim/Kirk mine/Ross shaft/Becher claims/Front Range/German claims/Pewabic mine/igneous-metamorphic/

Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1954
veins/maps/Central City district/Gilpin County/igneous-metamorphic/Front Range/geochemistry/

Sims, P. K., Drake, A. A., Jr., and Tooker, E. W., 1963
economic geology/Central City district/Gilpin County/igneous-metamorphic/production/geochemistry/ore deposits/mineralogy/uranium/pitchblende/veins/Front Range/granite/gneiss/pegmatites/

Sims, P. K., Harrison, J. E., and Moore, F. B., 1952
Central City district/Dumont district/Fall River district/Eureka Gulch district/Front Range/Georgetown area/Clear Creek County/pitchblende/Diamond Mountain (Lanagan) mine/Gomer mine/Golden Calf mine/Golden Glen mine/Martha E. mine/veins/Old Town mine/Spread Eagle mine/reconnaissance/Gilpin County/ore deposits/base metals/precious metals/igneous-metamorphic/Freeland-Lamartine district/

Sims, P. K., Moench, R. H., Drake, A. A., Jr., and others, 1963
uranium/ore deposits/Central City district/Idaho Springs district/mining/Gilpin County/Clear Creek County/Front Range/igneous-metamorphic/

Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1954
Gilpin County/igneous-metamorphic/Wood mine/Nigger Hill/Uinta Mountains/Central City district/mineralogy/petrology/geochemistry/pitchblende/ore deposits/veins/minerals/kasolite/metatorbernite/Buckley mine/Bullion mine/Carroll mine/Claire Marie mine/Rare Avis mine/R.H.D. mine/Two Sisters mine/stratigraphy/Precambrian rocks/genesis/Front Range/Eureka Gulch area/

Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1955
Gilpin County/ore deposits/petrology/Eureka Gulch area/veins/geochemistry/Central City district/pitchblende/metatorbernite/igneous-metamorphic/uranium/Front Range/

Sims, P. K., Phair, George, and Moench, R. H., 1955
age determination/Front Range/Larimer County/mineralogy/petrology/geochemistry/pitchblende/ore deposits/wall rock/geochemistry/Copper King mine/minerals/coffinite/uraninite/Precambrian rocks/base metals/stratigraphy/precious metals/igneous-metamorphic rocks/veins/genesis/igneous-metamorphic/

Sims, P. K., Phair, George, and Moench, R. H., 1958
Larimer County/Copper King mine/ore deposits/petrology/geochemistry/Front Range/igneous-metamorphic/

Sims, P. K., Tooker, E. W., and Osterwald, F. W., 1954
Central City district/Gilpin County/Eureka Gulch area/geochemistry/igneous-metamorphic/uranium/ore deposits/Front Range/maps/

Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/uranium/veins/Front Range/Boulder County/Larimer County/Jefferson County/Clear Creek County/igneous-metamorphic/ore deposits/

Singewald, Q. D., Christman, R. A., and others, 1956
Custer County/Fremont County/McKinley Mountain area/igneous-metamorphic/geochemistry/radiometrics/maps/City/Colorado Plateau/Gilpin County/metamorphic/ore deposits/Colorado/sandstone/Front Range/

Slaughter, A. L., and Clabaugh, S. E., 1945
Jefferson County/trace elements/igneous-metamorphic/coal/carnotite/Front Range/

Solster, P. E., Conklin, D. R., and Bowman, M. D., 1956
Colorado/New Mexico/Utah/Arizona/United
Staatz, M. H., and Trites, A. F., Jr., 1955
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Stern, Stern,
Staatz, M. H., and Trites, A. F., Jr., 1952
FRONT RANGE
Schwartzwalder, geology/

thorium/ ore deposits/ igneous-metamorphic/
Custer County/ Fremont County/ Gunnison County/ deposits/ Colorado/ igneous-metamorphic/ sandstone/ Front Range/
Staatz, M. H., 1976
thorium/ resources/ igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ Front Range/
thorite/ Seerie pegmatite/ igneous-metamorphic/ fluorite/ mineralogy/ geochemistry/ uraninite/ Jefferson County/ Front Range/ thorium/ pegmatites/
Staatz, M. H., and Trites, A. F., Jr., 1952
Front Range/ granite/ pegmatites/ igneous-metamorphic/ geology/ structure/ mineralogy/ Gunnison County/ Wood Guich/ Guich/ beryllium/ petrology/ geochemistry/ minerals/ allanite/ monazite/ pyrochlore-microlite/ uranium/ thorium/ Brown Derby claim/ Black Wonder claim/ Beryl and Rare Minerals Lode claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
Staatz, M. H., and Trites, A. F., Jr., 1955
Front Range/ granite/ pegmatites/ igneous-metamorphic/ geology/ structure/ mineralogy/ Gunnison County/ Wood Guich/ beryllium/ petrology/ geochemistry/ minerals/ allanite/ monazite/ pyrochlore-microlite/ Brown Derby claim/ Black Wonder claim/ Beryl and Rare Minerals Lode claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spur claim/ Quartz Creek district/ Beryl and Rare Minerals Lode claim/
Stahl, R. L., 1974
Schwartzwalder mine/ Jefferson County/ Front Range/ igneous-metamorphic/ surface resistivity/ faults/ fault detection/ fault delineation/ structure/
Stern, T. W., and Stieff, L. R., 1953
Colorado Plateau/ Larimer County/ Mesa County/ minerals/ coffinite/ Copper King mine/ La Sal No. 2 mine/ sandstone/ Front Range/ igneous-metamorphic/
coffinite/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Larimer County/ Copper King mine/ mineralogy/ chemistry/ Front Range/ veins/ Montrose County/ igneous-metamorphic/
Stieff, L. R., and Stern, T. W., 1951
age determination/ Colorado Plateau/ genesis/ sandstone/ uranium/ Front Range/ conglomerate/ lead-uranium ratio/ uraninite/ Shinarump conglomerate/ Shinarump Member/ Moenkopi Formation/
Stieff, L. R., and Stern, T. W., 1952
age determination/ Colorado Plateau/ genesis/ sandstone/ ore deposits/ uranium/ Front Range/ conglomerate/ lead-uranium ratio ages/ uraninite/ Shinarump Member/
Stieff, L. R., and Stern, T. W., 1952
age determination/ Colorado Plateau/ genesis/ sandstone/ ore deposits/ uranium/ Front Range/ conglomerate/ lead-uranium ratio/ uraninite/ Shinarump Member/ Moenkopi Formation/
Stieff, L. R., and Stern, T. W., 1953
age determination/ Colorado Plateau/ Front Range/ uraninite/ host formations/ Morrison Formation/ Shinarump Member/ Chinle Formation/ sandstone/ conglomerate/
Stieff, L. R., Stern, T. W., and Milkey, R. G., 1952
Colorado Plateau/ age dating/ uranium/ ore deposits/ Pb-U ratio/ Pb-Pb ratio/ sandstone/ uranium/ genesis/ Front Range/
Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchiess mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumins/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/
Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ sandstone/ igneous-metamorphic/
Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
Stokking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1951
uranium/ ore deposits/ United States/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 1952
veins/uranium/secondary deposits/United States/Central City district/Colorado Plateau/Gilpin County/ore deposits/igneous-metamorphic/sandstone/Front Range/

Taylor, R. B., 1975
geochemistry/Black Hawk quadrangle/Gilpin County/ Jefferson County/Clear Creek County/ Front Range/igneous-metamorphic/

Theobald, P. K., and Guillinger, R. R., 1955
veins/FMD mine/Jefferson County/shear zones/copper/radioactivity/igneous-metamorphic/geology/Front Range/

Thurston, W. R., 1950
beryllium/pegmatites/Larimer County/Big Boulder prospect/igneous-metamorphic/exploration/Front Range/beryl/

Thurston, W. R., 1950
beryllium/pegmatites/Larimer County/Hyatt mica mine/pegmatite/beryl/igneous-metamorphic/exploration/front Range/Hyatt pegmatite/

Thurston, W. R., 1950
beryllium/pegmatites/Larimer County/Buckhorn mica mine/drilling/sections/igneous-metamorphic/Front Range/exploration/

Thurston, W. R., 1952
igneous-metamorphic/Buckhorn mica mine/schist/Hyatt area/Front Range/beryllium/pegmatites/Crystal Mountain district/mineralogy/petrology/geochemistry/minerals/autunite/gummite/uraninite/Big Boulder prospect/Hyatt Mica pegmatite/reserves/resources/uranium/thorium/beryl/Larimer County/metaborbernite/

Thurston, W. R., 1955
Front Range/Larimer County/igneous-metamorphic/schist/granite/diorite/pegmatites/Crystal Mountain district/uraninite/structure/alteration/Hyatt pegmatite/Big Boulder prospect/Buckhorn mica mine/Idaho Springs Formation/

Tooker, E. W., 1953
wall rock alteration/Front Range/igneous-metamorphic/Gilpin County/Clear Creek County/

Tooker, E. W., 1955
Gilpin County/Clear Creek County/Central City district/Idaho Springs district/mineralogy/petrology/alteration/geochemistry/wall rock/igneous-metamorphic/uranium/veins/Front Range/

Tooker, E. W., 1956
Central City district/Idaho Springs district/igneous-metamorphic/alteration/veins/wall rocks/sulfides/structures/ore deposits/Front Range/Gilpin County/Clear Creek County/

Tooker, E. W., 1963
alteration/wall rocks/Front Range/Gilpin County/Clear Creek County/igneous-metamorphic/
U.S. Atomic Energy Commission, 1966
geology/uranium/geophysical prospecting/economic
geology/mining engineering/petrology/minerals/
radioactivity/Ei Paso County/reconnaissance/ordeposits/Front Range/sandstone/igneous-metamorphic/

U.S. Atomic Energy Commission, 1966
geology/uranium/geophysical prospecting/economic
geology/mining engineering/petrology/minerals/
radioactivity/Fremont County/reconnaissance/ordeposits/Front Range/sandstone/

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geology/uranium/geophysical prospecting/economic
geology/mining engineering/petrology/minerals/
radioactivity/Gilpin County/reconnaissance/ordeposits/Front Range/igneous-metamorphic/

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geology/uranium/geophysical prospecting/economic
geology/mining engineering/petrology/minerals/
radioactivity/Jefferson County/reconnaissance/ordeposits/Front Range/sandstone/coal/igneous-metamorphic/

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geology/uranium/geophysical prospecting/economic
geology/mining engineering/petrology/minerals/
radioactivity/Pueblo County/reconnaissance/ordeposits/Front Range/sandstone/

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resources/United States/uranium districts/sandstone/igneous-metamorphic/Colorado Plateau/geology/veins/Great Plains/Front Range/Rocky Mountains/NRE program/

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shales/radioactivity/carbonaceous shales/Jefferson County/Rio Blanco County/oil shale/Front Range/Colorado Plateau/bituminous shales/

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Front Range/igneous-metamorphic/sandstone/

U.S. Geological Survey, 1953
sandstone/Colorado Plateau/Front Range/veins/igneous-metamorphic/thorium/Powderhorn district/natural waters/Morrison Formation/Mesa County/San Miguel County/Dolores County/Gilpin County/San Juan County/La Plata County/Ouray County/geology/Gunnison County/Montrose County/San Juan Mountains/Clear Creek County/ordeposits/

U.S. Geological Survey, 1953
geologic mapping/Colorado Plateau/Front Range/carbonaceous rocks/geochemistry/reconnaissance/black shales/sandstone/igneous-metamorphic/geology/ordeposits/Gilpin County/Clear Creek County/Jefferson County/Montrose County/Mesa County/San Miguel County/Gunnison County/

U.S. Geological Survey, 1953
Colorado Plateau/Front Range/sandstone/coal/springs/igneous-metamorphic/shale/Gilpin County/Clear Creek County/Jefferson County/Boulder County/Custer County/thorium/Gunnison County/La Plata County/San Juan County/Ouray County/

U.S. Geological Survey, 1953
Colorado Plateau/veins/Front Range/Morrison Formation/Triassic studies/mineralogy/petrology/analyses/sandstone/igneous-metamorphic/permeability/geophysics/gamma-ray logs/ground water studies/trace elements/

Clear Creek County/Gilpin County/ordeposits/reserves/Colorado Plateau/exploration/sandstone/Mesa County/Montrose County/San Miguel County/Garfield County/Moffat County/Dolores County/Rio Blanco County/Front Range/igneous-metamorphic/Jefferson County/pitchblende/hydrogeochemical exploration/stream sediments/ground water/mine waters/

Colorado Plateau/geophysics/Front Range/sandstone/mineralogy/coal/shales/reconnaissance/petrology/stratigraphy/sandstone/igneous-metamorphic/geology/ordeposits/

Colorado Plateau/sandstone/Mesa County/Montrose County/San Miguel County/Dolores County/ordeposits/Morrison Formation/geology/Chinle Formation/Shinarump Member/reserves/San Juan Mountains/snow/surface water/ground water/Ouray County/San Juan County/conglomerate/igneous-metamorphic/Front Range/


Beaver Mesa/Disappointment Valley/Front Range/Jo Dandy area/La Sal Creek area/Monogram Mesa/exploration/drilling/Ralston Buttes district/Uravan district/Montrose County/San Miguel County/Mesa County/Jefferson County/Colorado Plateau/Gilpin County/sandstone/igneous-metamorphic/

Front Range/Golden Gate Canyon area/Uravan district/exploration/drilling/Colorado Plateau/Jefferson County/San Miguel County/Montrose County/Mesa County/Dolores County/sandstone/igneous-metamorphic/Ralston Buttes district/

Colorado Plateau/Front Range/sandstone/geologic mapping/veins/carbonaceous rocks/geochemistry/
reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/

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Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/ igneous-metamorphic/

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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ igneous-metamorphic/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Jefferson County/ Fremont County/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Dolores County/ Mesa County/ Jefferson County/ Fremont County/

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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Dolores County/ Mesa County/ Jefferson County/ Fremont County/

U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Glen County/ Clear Creek County/ igneous-metamorphic/

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Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/

Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/

Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ igneous-metamorphic/

Colorado Plateau/ minerals/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/ map/

United Nations, 1956
uranium/ thorium/ geology/ ore deposits/ geochemistry/ isotope geology/ Front Range/ Colorado Plateau/ sandstone/ igneous-metamorphic/

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geology/ Golden quadrangle/ Jefferson County/ igneous-metamorphic/ Front Range/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ igneous-metamorphic/ Front Range/

Wood, H. E., 1913
radio/ pitchblende/ Gilpin County/ chemical
separation/ igneous-metamorphic/ Front Range/

Wood, J. R., 1912
vanadium/ Boulder County/ igneous-metamorphic/
Front Range/

Wright, H. D., 1950
Caribou mine/ ore deposits/ radium/ mineralogy/
Boulder County/ Radium vein/ igneous-metamorphic/
uraninite/ sampling/ analyses/ paragenesis/
Front Range/ veins/

Wright, H. D., 1950
ore deposits/ radium/ veins/ wall-rock alteration/
Caribou mine/ Radium vein/ igneous-metamorphic/
uraninite/ Front Range/ Boulder County/

Wright, H. D., 1951
ore deposits/ paragenesis/ Boulder County/ Caribou
district/ Radium vein/ igneous-metamorphic/
uraninite/ silver/ Caribou mine/ Front Range/
veins/

Wright, H. D., 1951
Canada/ Ontario/ ore deposits/ uraninite/ Caribou
mine/ alteration/ Boulder County/ paragenesis/
Front Range/ igneous-metamorphic/

Wright, H. D., 1954
ore deposits/ uraninite/ mineralogy/ Boulder
County/ silver/ Radium vein/ uranium/ veins/
wall-rock/ igneous-metamorphic/ geochemistry/
Caribou mine/ Front Range/ Caribou district/

Wright, H. D., and Shulhof, W. P., 1957
veins/ sulfide minerals/ Front Range/ Boulder
County/ igneous-metamorphic/ ore deposits/

Wright, H. D., Hutta, J. J., Shulhof, W. P., and
Smith, C. M., 1957
veins/ igneous-metamorphic/ Clear Creek County/
sulfide minerals/ base metals/ mineral associations/
analyses/ paragenesis/ trace elements/ Idaho/
Arizona/ Central City district/ Carroll mine/
pitchblende/ solid solution/ ore deposits/ Front
Range/

Wyant, D. G., 1949
Larimer County/ Treasure Hill area/ schist/
 granite/ igneous-metamorphic/ reconnaissance/
Front Range/ Precambrian rocks/

Wyant, D. G., 1949
Boulder County/ Wheelman mine tunnel/ pegmatites/
igneous-metamorphic/ Precambrian rocks/ granite/
gold/ wolframite/ veins/ Front Range/ analyses/

Wyant, D. G., 1949
Larimer County/ Spaulding-Woodhams prospects/
scheelite/ igneous-metamorphic/ Front Range/
Thorium

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Year</th>
<th>Title</th>
<th>Location/Geological Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams, J. A. S.</td>
<td>1954</td>
<td>volcanic rocks/uranium/thorium/analyses</td>
<td>Larimer County/igneous-metamorphic/Grand County/Rocky Mountain National Park/Silverton/San Juan County</td>
</tr>
<tr>
<td>Armbrustmacher, T. J.</td>
<td>1975</td>
<td>thorium/Wet Mountains/Fremont County/Custer County/igneous-metamorphic/veins/or deposits/</td>
<td></td>
</tr>
<tr>
<td>Armbrustmacher, T. J.</td>
<td>1975</td>
<td>thorium/Wet Mountains/Fremont County/Custer County/igneous-metamorphic/veins/or deposits/</td>
<td></td>
</tr>
<tr>
<td>Armstrong, F. C.</td>
<td>1975</td>
<td>uranium/distribution/granite/igneous-metamorphic/Colorado/</td>
<td></td>
</tr>
<tr>
<td>Austin, S. R.</td>
<td>1962</td>
<td>thorium/minerals/mineralogy/tables/synonyms/varieties/doubtful species/Colorado/</td>
<td></td>
</tr>
<tr>
<td>Barrett, J. K., and Pearl, R. H.</td>
<td>1976</td>
<td>hydrogeological data/thermal springs/thermal wells/ground water/radioactivity/radium/radon/thorium/Colorado/</td>
<td></td>
</tr>
<tr>
<td>Battelle-Pacific Northwest Laboratories</td>
<td>1974</td>
<td>uranium/thorium/resources/Colorado/United States/policy alternatives/</td>
<td></td>
</tr>
<tr>
<td>Bell, K. G.</td>
<td>1954</td>
<td>uranium/thorium/sedimentary rocks/sandstone/geology/genesis/placers/stream deposits/mudstone/Chinle Formation/Morrison Formation/shale/black shale/carnotite/uraninite/Colorado Plateau/</td>
<td></td>
</tr>
<tr>
<td>Bell, K. G.</td>
<td>1956</td>
<td>Colorado Plateau/ore deposits/occurrence/precipitates/evaporites/uranium/</td>
<td></td>
</tr>
<tr>
<td>Bell, K. G.</td>
<td>1956</td>
<td>uranium/precipitates/evaporites/Colorado Plateau/occurrence/</td>
<td></td>
</tr>
<tr>
<td>Bellamy, R. G., and Hill, N. A.</td>
<td>1963</td>
<td>uranium/thorium/beryllium/extraction/metallurgy/</td>
<td></td>
</tr>
<tr>
<td>Black, R. A.</td>
<td>1956</td>
<td>Colorado Plateau/geophysics/exploration/Colorado/electrical logging/seismic logging/gravity surveys/sandstone/or deposits/</td>
<td></td>
</tr>
<tr>
<td>Black, R. A.</td>
<td>1956</td>
<td>Colorado Plateau/geophysics/exploration/Colorado/electrical logging/seismic logging/gravity surveys/sandstone/or deposits/</td>
<td></td>
</tr>
<tr>
<td>Boardman, R. L., Ekren, E. B., and Bowers, H. E.</td>
<td>1975</td>
<td>sedimentary features/sandstone/Morrison Formation/Salt Wash Member/uranium/vanadium/or deposits/Uranus district/Montrose County/Colorado Plateau/geoology/Jurassic/</td>
<td></td>
</tr>
<tr>
<td>Boyer, R. E.</td>
<td>1961</td>
<td>Badito Cone/zirconium/phonolite/Huerfano County/Dakota Sandstone/Morrison Formation/Stumbling Stud claims/Wet Mountains/Pueblo County/sandstone/fluorite/thorium/uranium/cement/rhyolite/igneous-metamorphic/</td>
<td></td>
</tr>
<tr>
<td>Breger, I. A., and Deul, Maurice</td>
<td>1956</td>
<td>bituminous substances/uranium/coal/San Miguel County/Colorado Plateau/oil/organics/geochemistry/sandstone/</td>
<td></td>
</tr>
<tr>
<td>Breger, I. A., and Deul, Maurice</td>
<td>1956</td>
<td>bituminous substances/uranium/coal/San Miguel County/geochemistry/Colorado Plateau/oil/organics/sandstone/</td>
<td></td>
</tr>
<tr>
<td>Brock, M. R., and Singewald, Q. D.</td>
<td>1968</td>
<td>geology/Mount Tyndall quadrangle/Custer County/thorium/igneous-metamorphic/or deposits/Wet Mountains/</td>
<td></td>
</tr>
<tr>
<td>Brooks, R. A.</td>
<td>1975</td>
<td>colloids/epigenesis/ore-forming processes/uranium/or deposits/genesis/</td>
<td></td>
</tr>
<tr>
<td>Brown, Andrew</td>
<td>1961</td>
<td>bibliography/radioactive deposits/geology/uranium/thorium/mineralogy/geochemistry/</td>
<td></td>
</tr>
</tbody>
</table>
THORIUM

reconnaissance/ Colorado/ Colorado Plateau/ sandstone/ geobotany/ geophysics/ United States/ veins/ igneous-metamorphic/ Front Range/ geologic investigations/

Brown, H., and Silver, L. T., 1956
extraction/ processing/ low grade ores/ distribution/ igneous-metamorphic/ uranium/ thorium/ igneous rocks/ reserves/ resources/

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bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

Buck, K. L., 1957
ore deposits/ bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

Butler, A. P., Jr., 1947
thorium/ resources/ Front Range/ igneous-metamorphic/

Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnottite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ Front Range/ uranium/ occurrences/ United States/ Colorado/ Colorado Plateau/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/

Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ occurrences/ United States/ Colorado/ Front Range/ Colorado Plateau/ uranium/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/

ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnottite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Cadigan, R. A., and Flemlee, J. K., 1975
geochemistry/ radioactive springs/ exploration/ Delta County/ spring deposits/ radium/ uranium/

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uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/

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Colorado Plateau/ botanical methods/ exploration/ geobotany/ prospecting/ uranium/ analyses/ Indicator plants/ Colorado/ biogeochemistry/ sandstone/
Thorium

Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/

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Wet Mountains/ ore deposits/ geology/ Custer County/ thorium/ igneous-metamorphic/

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minerals/ water/ resources/ Colorado/ uranium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

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analyses/ uranium/ gamma-ray spectrometry/ isotopes/ radiometric methods/ ore deposits/ thorium/

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Willis Tuttle ranch/ Greenwood thorium property/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ igneous-metamorphic/ alkaline rocks/

Dillig, L. F., and Gott, G. B., 1951
Custer County/ rare earth minerals/ shear zone material/ veins/ Haputa Ranch/ ore deposits/ Wet Mountains/ thorium/ thorite/ fault breccia/ igneous-metamorphic/

Denson, M. E., Jr., 1956
ore deposits/ exploration/ geophysics/ geochemistry/ Colorado/ Front Range/ South Dakota/ Wyoming/ uranium/ thorium/ geology/ Jefferson County/ igneous-metamorphic/

Denson, M. E., Jr., 1956
Colorado/ Front Range/ geophysics/ geochemistry/ South Dakota/ Wyoming/ exploration/ uranium/ thorium/ Jefferson County/ igneous-metamorphic/ geology/ ore deposits/

hydrogeochemistry/ volcanics/ ground water/ springs/ surface water/ exploration guides/ evaluation/ exploration/ uranium/ Wyoming/ South Dakota/ igneous-metamorphic/ ore deposits/

hydrogeochemistry/ volcanics/ ground water/ springs/ surface water/ exploration guides/ evaluation/ exploration/ uranium/ Wyoming/ South Dakota/ igneous-metamorphic/ ore deposits/

Derrazy, R. C., 1956
Los Ochos mine/ ore deposits/ Saguache County/ veins/ uranium/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ igneous-metamorphic/ thorium/

Derrazy, R. C., 1956
veins/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ Los Ochos mine/ uranium/ Saguache County/ igneous-metamorphic/ ore deposits/ thorium/

Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/ Wedding Bell mines/ Montrose County/ San Miguel County/ County/ sandstone/ uranium/ vanadium/ ore controls/ ore deposits/

Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/ ore deposits/ Wedding Bell mines/ Montrose County/ County/ sandstone/ uranium/ vanadium/ ore controls/ San Miguel County/

chronology/ age dating/ uranium/ thorium/ lead/ zircons/ granite/ Chaffee County/ Gunnison County/
analyses/ St. Kevin granite/ igneous-metamorphic/ Sawatch Range/

Dooley, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ igneous-metamorphic/

Eberl, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ igneous-metamorphic/

Eberl, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ igneous-metamorphic/

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description/ minerals/ Colorado/ uranium/ vanadium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

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radioactivity/ rocks/ Colorado/ uranium/ thorium/ radium/ analyses/ igneous-metamorphic/ sedimentary sandstone/

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hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/

Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/

Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/

brockite/ thorium/ Wet Mountains/ Chemical properties/ igneous-metamorphic/ crystal chemistry/ Bassick mine/ Custer County/ phosphate/ ore deposits/

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techniques/ exploration/ uranium/ thorium/ geology/ geochemistry/ geophysics/ drilling/ Colorado Plateau/ sandstone/ .

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uranium/ thorium/ glossary/ chemistry/ minerals/ .

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uranium/ thorium/ glossary/ minerals/ chemistry/ .

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glossary/ uranium/ thorium/ minerals/ mineralogy/ .

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uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/ .

Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/ .

George, D'Arcy, 1949

Finch, W. I., 1973
uranium/ thorium/ environment/ resources/ deposit types/ prospecting techniques/ production/ ore deposits/ exploration/ sandstone/ igneous-metamorphic/ .

brockite/ thorium/ Wet Mountains/ Chemical properties/ igneous-metamorphic/ crystal chemistry/ Bassick mine/ Custer County/ phosphate/ ore deposits/ .

Finch, W. I., 1973
uranium/ thorium/ environment/ resources/ deposit types/ prospecting techniques/ production/ ore deposits/ exploration/ sandstone/ igneous-metamorphic/ .

Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/ .

Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/ .

brockite/ thorium/ Wet Mountains/ Chemical properties/ igneous-metamorphic/ crystal chemistry/ Bassick mine/ Custer County/ phosphate/ ore deposits/ .

Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/ .
THORIUM

Gillerman, Elliot, 1958
thorium/ Wet Mountains/ igneous-metamorphic/
Custer County/ ore deposits/

thorium/ high grade/ low grade/ analyses/ ore
deposits/ Colorado Plateau/ sandstone/

Grogan, R. M., 1959
Gunnison County/ Iron Hill/ Powderhorn/ carbonatite/
minerals/ thorium/ niobium/ igneous-metamorphic/

Grogan, R. M., 1960
niobium/ Gunnison County/ Powderhorn/ Iron Hill/
igneous-metamorphic/ carbonatite/ minerals/
thorium/

Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ ore deposits/ clastics/ Tertiary/
uranium/ Washakie basin/ Moffat County/ sandstone/
economic geology/

Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ sediments/ Tertiary/ clastics/
uranium/ ore deposits/ Washakie basin/ Moffat
County/ sandstone/ economic geology/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/
Boulder County/ Clear Creek County/ Douglas
County/ Fremont County/ Gunnison County/ Jefferson
County/ Larimer County/ Montrose County/ Park
County/ monazite/ thorium/ production/ Front
Range/ El Paso County/ igneous-metamorphic/ Colorado
Plateau/ Wyoming/ Utah/ Summit County/

Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/
Colorado/ Clear Creek County/ igneous-metamorphic/
veins/ Gilpin County/ thorium/ hypogene zoning/
Front Range/

Harrison, J. E., 1955
fracture patterns/ Freeland-Lamartine district/
Clear Creek County/ igneous-metamorphic/ Gilpin
County/ veins/ thorium/ hypogene zoning/ Front
Range/

Hedlund, D. C., and Olson, J. C., 1958
Gunnison County/ ore deposits/ thorium/ veins/
Gateview quadrangle/ igneous-metamorphic/ geology/

Hedlund, D. C., and Olson, J. C., 1961
thorium/ rare earths/ niobium/ Powderhorn district/
Colorado/ Gunnison County/ igneous rocks/ carbonatite/
monazite/ pyrochlore/ veins/ thorite/ dikes/
igneous-metamorphic/ minerals/ ore deposits/
geology/

Hedlund, D. C., and Olson, J. C., 1973
Gunnison County/ Carpenter Ridge quadrangle/
igneous-metamorphic/ thorium/ map/ geology/
ore deposits/ Black Canyon Schist/

Hedlund, D. C., and Olson, J. C., 1974
Gunnison County/ Saguache County/ igneous-metamorphic/
thorium/ Iris NW quadrangle/ map/ geology/ ore
deposits/

Hedlund, D. C., and Olson, J. C., 1975
geology/ Powderhorn quadrangle/ Gunnison County/
igneous-metamorphic/ ore deposits/ thorium/
map/ niobium/ carbonatite/ alkalic rocks/ Saguache
County/

Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison
County/ production/ thorium/ Fremont County/
Custer County/ igneous-metamorphic/

Heinrich, E. W., 1948
pegmatites/ thorium/ rare earth minerals/ Chaffee
County/ Fremont County/ monazite/ igneous-metamorphic/
ore deposits/ fluorite/

Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South
Platte area/ Douglas County/ Teller County/
Park County/ igneous-metamorphic/ mineralogy/
analyses/ rare earth minerals/

Heinrich, E. W., and Dahlem, D. H., 1957
Brown Derby pegmatites/ pegmatite/ Gunnison
County/ monazite/ thorium/ igneous-metamorphic/
mineralogy/ niobium (columbite)/ stibiotantalite/

Heinrich, E. W., Borup, R. A., and Levinson, A.
A., 1958
thorium/ pegmatites/ monazite/ Colorado/ Brown
Derby mine/ igneous-metamorphic/ analyses/ Gunnison
County/ rare earth minerals/

Hickling, N. L., Phair, G., Moore, R., and others,
1970
Boulder Creek batholith/ uranium/ thorium/ age
patterns/ allanite/ mineralogy/ genesis/ paragenesis/
igneous-metamorphic/ Jefferson County/ Clear
Creek County/ Gilpin County/ Boulder County/
Larimer County/ Summit County/ Grand County/
Front Range/ Silver Plume batholith/

Hildebrand, F. A., and Conkin, N. M., 1974
breccia dikes/ rare earths/ Iron Hill/ Custer
County/ igneous-metamorphic/ thorium/ apatite/
molybdenite/ magnetite/

Houston, R. S., and Murphy, J. F., 1970
organic materials/ La Plata County/ Durango
area/ thorium/ titanium/ Cretaceous/ Dakota
Sandstone/ barium/ bitumens/ gold/ rare earths/
sandstone/ transition elements/ uranium/ petrography/
chemistry/ composition/ mineralogy/

Hurley, P. M., and Fairbairn, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/
sphene/ apatite/ epidote/ monazite/ granite/
minerals/ pegmatites/ mineralogy/ Climax/ Colorado/
Massachusetts/ Nova Scotia/ Canada/ Germany/
El Paso County/ Eagle County/ Lake County/ Summit
County/ igneous-metamorphic/

Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/
conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/
Morrison Formation/ Archuleta County/ Cretaceous/
Dakota Sandstone/ Mancos Shale/ Morgan County/
Rio Blanco County/ sandstone/ trace elements/
Shinarump Member/ Fremont County/
Kelley, V. C., 1956
Colorado Plateau/ Shinarump Member/ Chine Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
sandstone/ geology/ ore deposits/ Montrose County/
San Miguel County/ Dolores County/ Big Indian
Wash - Lisbon Valley district/ Mesa County/
stratigraphy/ structure/

Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chine Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
Big Indian Wash - Lisbon Valley district/ sandstone/
geochemistry/ ore deposits/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ stratigraphy/ structure/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/
sediments/ sandstone/ ground water/
La Plata County/ Archuleta County/ Moffat County/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
regional transmissivity/ uranium/ sediments/
sandstone/ ground water/ La Plata County/
Archuleta County/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Dolores County/ Montezuma
County/

Kammer, G. D., 1925
carnotite/ sandstone/ ionium/ thorium/ Colorado
Plateau/ Colorado/ barium sulfate/ trace elements/
geochimistry/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta
County/ uranium/ tectonic history/ regional
structure/ Colorado/ sandstone/ Montezuma County/
San Miguel County/ Dolores County/ Montrose
County/ Mesa County/ Ouray County/ San Juan
County/ Gunnison County/ La Plata County/
Garfield County/ Rio Blanco County/ Delta County/
structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa
County/ structural controls/ uranium/ tectonic
history/ Colorado/ sandstone/ Montezuma County/
San Miguel County/ Dolores County/ Montrose
County/ Moffat County/ San Juan County/ Ouray
County/ Gunnison County/ La Plata County/
Garfield County/ Rio Blanco County/ Delta County/
regional structure/

Kelley, F. N., 1962
County/ Fremont County/ Gunnison County/ Jefferson
County/ Park County/ mineralogy/ Powderhorn
district/ rare earths/ resources/ igneous-metamorphic/
Colorado/ Wyoming/ New Mexico/ economics/ Front
Range/ Gilpin County/

Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/
Jamestown district/ Colorado Plateau/ Colorado/
sandstone/ Front Range/ igneous-metamorphic/
fluorite/ Boulder County/

Kerr, P. F., 1956
uranium/ thorium/ veins/ sediments/ Front Range/
ore deposits/ sandstone/ fluorite/ geology/
Colorado Plateau/ igneous-metamorphic/

Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/
Colorado Plateau/ Colorado/ sandstone/ Jamestown
district/ Front Range/ igneous-metamorphic/
fluorite/ Boulder County/

King, R. U., and Beroni, E. P., 1953
igneous-metamorphic/ reconnaissance/ Jefferson
County/ Park County/ El Paso County/ Clear Creek
County/ prospects/ uranium/ thorium/ Front Range/
ore deposits/ geology/

Klepper, M. R., and Wyant, D. G., 1956
uranium/ United States/ Colorado/ geochemistry/
genesis/ exploration/ provinces/ ore deposits/
veins/ sandstone/ igneous-metamorphic/ Colorado
Plateau/ Front Range/

Klepper, M. R., and Wyant, D. G., 1956
uranium/ provinces/ United States/ Colorado/
ore deposits/ geochemistry/ genesis/ exploration/
veins/ sandstone/ igneous-metamorphic/ Colorado
Plateau/ Front Range/

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geochemistry/ ore deposits/ zonation/ Rifle
mine/ vanadium/ Garfield County/ sandstone/
Colorado Plateau/ geology/ Entrada Sandstone/

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analyses/ Colorado/ Wyoming/ Montana/ quartz
monzonite/ granite/ Log Cabin batholith/ solubility/
uranium/ thorium/ Front Range/ Gilpin County/
Clear Creek County/ Boulder County/ Sherman
batholith/ igneous-metamorphic/

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uranium/ thorium/ igneous-metamorphic/ Front
Range/ dikes/ stocks/ minerals/ porphyry/ San
Juan Mountains/ calc-alkaline rocks/ San Juan
County/ Ouray County/ Hinsdale County/ Cripple
Creek/ Teller County/ quartz-bostonite/ geochemistry/

Colorado Plateau/ ore deposits/ paragenesis/
uranium/ Meeker/ Rio Blanco County/ sandstone/

paragenesis/ uranium/ ore deposits/ Colorado
Plateau/ Meeker/ Rio Blanco County/ sandstone/
genesis/

basalt/ spectroscopy/ Cenozoic rocks/ potassium/
thorium/ uranium/ Rio Grande depression/ New
Mexico/ geochemistry/ ore composition/ Baca
County/ Las Animas County/ igneous-metamorphic/
Thorium

Lovering, T. G., 1954
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ limonite/ tyuyamunite/

Lovering, T. G., 1955
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ limonite/ tyuyamunite/

Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/

Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive limonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/

geochemical techniques/ exploration/ uranium/ analyses/ geochemistry/ Front Range/ cobalt/ niobium/ igneous-metamorphic/

geochemical techniques/ exploration/ uranium/ analyses/ geochemistry/ Front Range/ cobalt/ niobium/ igneous-metamorphic/

Ludwig, K. R., 1975
uranium/ lead/ isotopes/ dating/ ore deposits/ Colorado Plateau/ sandstone/

Malan, R. C., 1972
Arizona/ California/ Colorado/ Nevada/ Wyoming/ geology/ ore deposits/ uranium/ thorium/ quantitative chemical analyses/ sedimentary rocks/ chemical composition/ Precambrian rocks/ igneous-metamorphic/ Front Range/

Malan, R. C., and Sterling, D. A., 1969
ore deposits/ Precambrian rocks/ Colorado Plateau/ Nevada/ California/ New Mexico/ Arizona/ uranium/ geology/ thorium/ Colorado/ igneous-metamorphic/ resources/ Front Range/

Malan, R. C., and Sterling, D. A., 1970
uranium/ thorium/ minerals/ ore deposits/ geology/ Colorado/ Utah/ Wyoming/ South Dakota/ Montana/ Idaho/ Washington/ ore composition/ potassium/ reserves/ Precambrian rocks/ igneous-metamorphic/ resources/ Front Range/

Marjaniemi, D. K., and Basler, A. L., 1972
exploration/ quantitative chemical analysis/ uranium/ thorium/ potassium/ gamma spectroscopy/ geochemistry/ plutonic rocks/ veins/ ore deposits/ igneous-metamorphic/ Colorado/

McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatises/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ coal/ Jefferson County/ Montrose County/ Old Leyden mine/ uranium/ Gilpin County/ Clear Creek County/ Front Range/ genesis/ Mesa County/

McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatises/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

Moore, D. G., 1970
Custer County/ Fremont County/ igneous-metamorphic/ thorium/ geology/ mineralogy/ genesis/ Wet Mountains/ feldspar rocks/ alkalic rocks/ carbonatite/

Myers, A. T., and Waring, C. L., 1956
analyses/ spectrography/ Colorado Plateau/ pyrite/ ore deposits/ uranium/ geochemistry/ thorium/ selenium/ sandstone/

Nash, W. P., 1970
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/

Nash, W. P., 1972
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/

Olson, J. C., 1953
Powderhorn district/ Gunnison County/ thorium/ monazite/ igneous-metamorphic/ Little Johnny vein/ reserves/ ore deposits/

Olson, J. C., 1953
Powderhorn district/ Gunnison County/ thorium/ monazite/ igneous-metamorphic/ Little Johnny deposit/ ore deposits/ thorium/ augite
syenite/shonkinite/Iron Hill complex/Lot mine/igneous-metamorphic/

Olson, J. C., 1973
geochemistry/Rudolph Hill quadrangle/map/Gunnison County/thorium/ore deposits/Hinsdale County/Saguache County/igneous-metamorphic/

Olson, J. C., 1974
map/geology/Rudolph Hill quadrangle/Gunnison County/thorium/ore deposits/Saguache County/Hinsdale County/igneous-metamorphic/

Olson, J. C., 1975
uranium/ore deposits/Cochetopa district/Oligocene erosion surface/Gunnison County/sandstone/Saguache County/volcanics/veins/igneous-metamorphic/

Olson, J. C., and Adams, J. W., 1962
thorium/rare earths/United States/Colorado/igneous-metamorphic/Gunnison County/Fremont County/Custer County/Larimer County/Gilpin County/Montezuma County/Moffat County/El Paso County/

Olson, J. C., and Hedlund, D. C., 1956
Gunnison County/Powderhorn district/ore deposits/exploration/thorium/alkaline igneous rocks/Sapinero Mesa/igneous-metamorphic/

Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/Gateview quadrangle/ore deposits/exploration/investigations/thorium/veins/igneous-metamorphic/

Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/ore deposits/exploration/investigations/thorium/veins/igneous-metamorphic/

Olson, J. C., and Hedlund, D. C., 1958
Gunnison County/Cebolla quadrangle/ore deposits/exploration/investigations/thorium/veins/alkaline igneous rocks/Powderhorn district/Gateview district/Iron Hill complex/Carbonate veins/igneous-metamorphic/

Olson, J. C., and Hedlund, D. C., 1973
geochemistry/Gateview quadrangle/Gunnison County/ore deposits/igneous-metamorphic/thorium/

Olson, J. C., and Overstreet, W. C., 1964
thorium/igneous-metamorphic/veins/resources/alkaline rocks/bostonite/Gunnison County/Saguache County/Hinsdale County/ore deposits/

Olson, J. C., and Steven, T. A., 1975
Sawtooth Mountain quadrangle/geology/map/Saguache County/igneous-metamorphic/uranium/thorium/Cochetopa district/ore deposits/

Olson, J. C., and Wallace, S. R., 1953
Gunnison County/Powderhorn district/ore deposits/titanium/veins/igneous-metamorphic/Little Johnny deposit/thorite/thorium/

Olson, J. C., and Wallace, S. R., 1954
ore deposits/igneous-metamorphic/geology/Gunnison County/Powderhorn district/stratigraphy/thorium/rare earths/Iron Hill complex/mineralogy/petrology/Little Johnny deposit/thorite/veins/xenotime/alkaline igneous rocks/carbonate veins/marble/

Olson, J. C., and Wallace, S. R., 1956
Powderhorn district/Gunnison County/thorium/rare earths/veins/igneous-metamorphic/minerals/ore deposits/

Olson, J. C., Butler, A. P., Jr., Finch, W. L., and Fischer, R. P., 1973
resources/uranium/thorium/exploration/veins/sandstone/San Miguel County/Colorado Plateau/Gunnison County/Saguache County/

thorium/alkaline rocks/age dating/carbonatite/Gunnison County/Saguache County/Custer County/Fremont County/tectonics/igneous-metamorphic/mafic rocks/Paleozoic/veins/

Osterwald, F. W., 1956
Cordilleran foreland/Clear Creek County/Jefferson County/ore deposits/Routt County/Jackson County/El Paso County/Park County/Grand County/Front Range/igneous-metamorphic/Larimer County/Eagle County/Summit County/Fremont County/Saguache County/Teller County/Chaffee County/tectonics/Gilpin County/Pueblo County/Custer County/Precambrian/genesis/structures/

Osterwald, F. W., 1956
veins/structural geology/Precambrian rocks/Teller County/structural controls/ore deposits/Cordilleran foreland/igneous-metamorphic/Gilpin County/Front Range/tectonics/El Paso County/Larimer County/Clear Creek County/

Page, L. R., 1956
uranium/thorium/ore guides/exploration/Colorado/sandstone/igneous-metamorphic/geology/Colorado Plateau/

Page, L. R., 1956
uranium/thorium/ore guides/igneous-metamorphic/exploration/Colorado/sandstone/geology/Colorado Plateau/

Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/Front Range/Gunnison County/Limestone/Montrose County/Jefferson County/arose/sandstone/shale/geology/uranium/thorium/exploration/igneous-metamorphic/San Miguel County/geochronometry/mineralogy/conglomerate/

Parker, R. L., and Sharp, W. N., 1970
carbonatites/mafic-ultramafic/thorium/monazite/geology/Gem Park complex/Custer County/Fremont County/mineralogy/geochronometry/igneous-metamorphic/

Paterson, W. C., 1951
Colorado Plateau/ore deposits/production/thorium/power/weapons/sandstone/

Pettijohn, F. J., 1963
chemical composition/sandstone/uranium/thorium/
monazite/ United States/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/

Phair, George, 1952
ore deposits/ porphyries/ radioactivity/ Gilpin County/ Central City district/ pitchblende/ Tertiary/ deposition/ Front Range/ mineralogy/ petrology/ geochemistry/ zircon/ veins/ uranium/ thorium/ analyses/ Quartz Hill/ Nigger Hill dike/ Clear Creek County/ igneous-metamorphic/ ore deposits/

Phair, George, 1954
uranium/ veins/ igneous-metamorphic/ Front Range/ pitchblende/ porphyries/ thorium/ ore deposits/

Phair, George, 1955
ore deposits/ mineralization/ igneous-metamorphic/ thorium/ analyses/ granite/ Front Range/ Boulder Creek batholith/ Sherman granite/ Pikes Peak granite/ New Hampshire/ Boulder County/

Phair, George, 1957
Wet Mountains/ ore deposits/ Custer County/ thorium/ veins/ igneous-metamorphic/ Haputa Ranch/ Hardwick property/ Mystery Lode/ shear zones/

Phair, George, 1958
uranium/ thorium/ intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/

Phair, George, 1958
Wet Mountains/ ore deposits/ wallrock alteration/ thorium/ Custer County/ igneous-metamorphic/ chemical properties/

Phair, George, and Fisher, F. G., 1961
Wet Mountains/ ore deposits/ genesis/ metamatism/ processes/ potassic feldspathization/ thorium/ Custer County/ Powderhorn district/ Precambrian rocks/ thorite/ igneous-metamorphic/

Phair, George, and Gilbert, F. L., 1959
igneous-metamorphic/ thorium/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ veins/ zoning/

Phair, George, and Gottfried, David, 1955
Front Range/ Boulder Creek batholith/ Silver Plume/ ore deposits/ uranium/ Precambrian rocks/ granite/ igneous-metamorphic/ thorium/ Boulder County/

Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/

Phair, George, and Jenkins, L. B., 1975
uranium/ thorium/ data/ igneous-metamorphic/ intrusives/ Mesozoic/ Cenozoic/ Colorado/ Colorado Plateau/ Front Range/

Phair, George, and Onoda, Kiyoko, 1951
Jamestown district/ Boulder County/ ore deposits/ hydrothermal uranothorite/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ thorium/ haloes/ Blue Jay mine/ igneous-metamorphic/ Front Range/

Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/

Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/

Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/ Arizona/ Utah/ crude oil/ asphaltite/ petroleum/ helium/ natural gas/ Las Animas County/ Montezuma County/ Adams County/ radon/ uranium/ thorium/ radium/ sandstone/

Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/ Arizona/ Utah/ crude oil/ asphaltite/ petroleum/ helium/ natural gas/ Las Animas County/ Montezuma County/ Adams County/ radon/ uranium/ thorium/ radium/ sandstone/

Piller, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Pennsylvanian/ thorium/ uranium/ Boulder County/ analyses/ Front Range/ geochemistry/ igneous-metamorphic/ weathering profile/

Piller, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Cretaceous/ Mancos Shale/ thorium/ Colorado Plateau/ uranium/ analyses/ shale/ geochemistry/

ore deposits/ resources/ Cretaceous/ Mancos Shale/ thorium/ Colorado Plateau/ uranium/ analyses/ shale/ geochemistry/

weathering profiles/ pre-Pennsylvanian/ Pennsylvanian/ thorium/ uranium/ Boulder County/ geochemistry/ igneous-metamorphic/ analyses/ Front Range/

Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/
THORIUM

Sears, R. S., Marjaniemi, D. K., and Blomquist, J. T., 1974
Colorado/ computers/ data processing/ exploration/ geology/ iron/ maps/ New Mexico/ petroleum/ potassium/ radioactivity/ rocks/ stratigraphy/ thorium/ uranium/ ore deposits/ minerals/ well logging/ Morrison Formation/ San Juan basin/ Archuleta County/ La Plata County/ sandstone/ Colorado Plateau/

Shawe, D. R., 1956
roll fronts/ sandstone/ Garfield County/ Rifle mine/ Colorado Plateau/ genesis/ uranium/ vanadium/ ore deposits/ geology/

Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/

Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ uranium/ mineralogy/ Front Range/ ore deposits/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., 1963
geochemistry/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freemant-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

Sims, P. K., and Gable, D. J., 1964
geology/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/

Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Shaw, D. R., 1956
Roll fronts/ sandstone/ Garfield County/ Rifle mine/ Colorado Plateau/ genesis/ uranium/ vanadium/ ore deposits/ geology/

Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ uranium/ mineralogy/ Front Range/ ore deposits/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Shaw, D. R., 1956
Roll fronts/ sandstone/ Garfield County/ Rifle mine/ Colorado Plateau/ genesis/ uranium/ vanadium/ ore deposits/ geology/

Sims, P. K., 1963
Geochemistry/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freemant-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

Sims, P. K., and Gable, D. J., 1964
Geology/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/

Sims, P. K., and Gable, D. J., 1967
Petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/

Singewald, Q. D., 1965
map/ thorium/ Wet Mountains/ Custer County/ igneous-metamorphic/ ore deposits/

Singewald, Q. D., 1966
Thorium/ faults/ ilse fault zone/ Wet Mountains/ structure/ igneous-metamorphic/ gneiss/ ore deposits/ Fremont County/

Singewald, Q. D., and Brock, M. R., 1956
Thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ igneous-metamorphic/ gneiss/ veins/ pegmatites/ ore deposits/

Singewald, Q. D., and Brock, M. R., 1956
Thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ igneous-metamorphic/ gneiss/ veins/ pegmatites/ ore deposits/

Singewald, Q. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ Custer County/ thorium/ igneous-metamorphic/

Singewald, Q. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ exploration/ Custer County/ thorium/ igneous-metamorphic/

Haputa Ranch area/ Custer County/ Fremont County/ veins/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Precambrian rocks/ Sawall property/ Anna Lee property/ igneous-metamorphic/

Stoiser, P. E., Conklin, D. R., and Bowman, M. D., 1956
Colorado/ New Mexico/ Utah/ Arizona/ United States/ bibliography/ trace element reports/ uranium/ vanadium/ thorium/ sandstone/ Colorado Plateau/ Front Range/ igneous-metamorphic/

Spraklis, C. S., 1977
Rifle mine/ Garfield mine/ ore deposits/ uranium/ vanadium/ sandstone/ Garfield County/ genesis/ Colorado Plateau/ semipermeable membranes/ Entrada Sandstone/

Staatz, M. H., 1964
ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ igneous-metamorphic/

Staatz, M. H., 1973
Veins/ thorium/ igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/

Staatz, M. H., 1974
ore deposits/ veins/ mineralogy/ geochemistry/
Staatz, M. H., 1975
thorium/ore deposits/igneous-metamorphic/Custer County/Fremont County/Gunnison County/Colorado district/igneous-metamorphic/sandstone/ Front Range/
Staatz, M. H., 1976
thorium/igneous-metamorphic/alkalic igneous rocks/Fremont County/Custer County/Gunnison County/
Staatz, M. H., 1976
thorium/resources/igneous-metamorphic/Custer County/Fremont County/Gunnison County/Front Range/
thorite/Seerie pegmatite/igneous-metamorphic/fluorite/mineralogy/geochemistry/uraninite/Jefferson County/Front Range/thorium/pegmatites/
Staatz, M. H., and Conklin, N. M., 1966
thorium/veins/carbonate/Road Gulch area/Wet Mountains/rare-earths/igneous-metamorphic/thorite/geology/mineralogy/Fremont County/Custer County/
Staatz, M. H., and Olson, J. C., 1973
thorium/igneous-metamorphic/resources/Custer County/Fremont County/Gunnison County/
Staatz, M. H., and Trites, A. F., Jr., 1952
Front Range/granite/pegmatites/geology/structure/mineralogy/Gunnison County/Wood Gulch/beryllium/petrology/geochemistry/minerals/allanite/monazite/pyrochloremicroite/Brown Derby claim/Black Wonder claim/Beryl and Rare Minerals Lode claim/Buckhorn mica mine/Bucky claim/Opportunity No. 1 claim/Trio claims/White Spar claim/Quartz Creek district/uranium/thorium/geiss/origin/Sharon Springs Member/Hermosa Formation/Paradox Member/igneous-metamorphic/
Staatz, M. H., and Trites, A. F., Jr., 1955
Front Range/granite/pegmatites/geology/structure/mineralogy/Gunnison County/Wood Gulch/beryllium/petrology/geochemistry/minerals/allanite/monazite/pyrochloremicroite/uranium/thorium/origin/Black Wonder claim/Brown Derby claim/Buckhorn mica mine/Bucky claim/Opportunity No. 1 claim/Trio claims/White Spar claim/Quartz Creek district/Beryl and Rare Minerals Lode claim/igneous-metamorphic/
Staatz, M. H., and Page, L. R., 1956
veins/Front Range/coffinite/uranium/silicates/Colorado Plateau/Larimer County/Arrowhead mine/Mesa County/Jefferson County/Montrose County/x-ray analyses/San Miguel County/sandstone/Copper King mine/geochemistry/igneous-metamorphic/
Stocking, H. E., and Page, L. R., 1956
veins/Front Range/coffinite/uranium/silicates/Colorado Plateau/Larimer County/Arrowhead mine/Mesa County/Jefferson County/Montrose County/x-ray analyses/San Miguel County/sandstone/Copper King mine/geochemistry/igneous-metamorphic/
Swanson, V. E., 1956
marine black shales/uranium/United States/distribution/shale/Sedgwick County/Colorado Plateau/Pierre Shale/Sharon Springs Member/Hermosa Formation/Paradox Member/
Swanson, V. E., 1956
marine black shales/uranium/United States/distribution/shale/Sedgwick County/Colorado Plateau/Pierre Shale/Sharon Springs Member/Paradox Member/Hermosa Formation/
Temple, A. K., and Grogan, R. M., 1963
Gunnison County/Powderhorn district/carbonatite/pyroxenite/alkalic rocks/igneous-metamorphic/niobium/Iron Hill/thorium/columbite/
Temple, A. K., and Grogan, R. M., 1963
carbonatite/alkalic complex/Powderhorn district/igneous-metamorphic/thorium/veins/alkalic rocks/Iron Hill/Gunnison County/niobium/
sandstone/district studies/uranium/resources/La Plata County/Archuleta County/San Juan basin/stratigraphy/Montezuma County/Colorado Plateau/
Thurston, W. A., 1952
igneous-metamorphic/Buckhorn mica mine/schist/Hyatt area/Front Range/beryllium/pegmatites/Crystal Mountain district/mineralogy/petrology/geochemistry/minerals/austinite/gummite/uraninite/Big Boulder prospect/Hyatt Mica pegmatite/reserves/resources/uranium/thorium/beryl/Larimer County/metatorbernite/
Twenhofel, W. S., and Buck, K. L., 1956
thorium/Powderhorn district/Gunnison County/veins/Custer County/Fremont County/Colorado/Idaho/Wyoming/Precambrian rocks/Montana/California/geochemistry/New Mexico/Wisconsin/New York/Michigan/Wet Mountains/or deposits/igneous-metamorphic/
Twenhofel, W. S., and Buck, K. L., 1956
geochemistry/thorium/Powderhorn district/Gunnison County/Wet Mountains/Custer County/Fremont County/veins/Precambrian rocks/Copper King mine/geochemistry/igneous-metamorphic/
prospecting/sandstone/Colorado Plateau/uranium/
thorium/ techniques/ geology/ exploration/ Front Range/ igneous-metamorphic/ Colorado/ United States/

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CHRONOLOGY

AEC Domestic Uranium Raw Materials Program
1947-1965

The history of the AEC Domestic Uranium Raw Materials Program can be confusing, especially to those new in uranium exploration and development. For this reason we are including a chronology, 1947-1965, prepared as an AEC handout by Neilson B. O'Rear, Public Information Officer, Grand Junction Office, U.S. Atomic Energy Commission, May 31, 1966. We hope that this chronology will help clarify some of the questions regarding procurement programs, withdrawals, bonus payments, various circulars, and miscellaneous events through the years.

May 28

October 2
Concentrate purchase contract with U.S. Vanadium (later Union Carbide) for processing mill at Rifle, Colo. First deliveries to AEC in December, 1947.

December
Colorado Raw Materials office established in Grand Junction, Colorado, to inaugurate AEC procurement program.

April 8
Commission approves plan for expanding uranium production in Colorado Plateau region, including operation of a Government-owned processing mill at Monticello, Utah.

April 11
Domestic Uranium Program Circular 1 promulgated by AEC. Guaranteed for 10 years a minimum price for certain high grade uranium ores other than carnotite or roscoelite type ores. (Terminated April 11, 1958).

April 11
Domestic Uranium Program Circular 2 promulgated, offering a bonus of $10,000 for delivery of 20 short tons of uranium-bearing ores or mechanical concentrates assaying 20 percent or more U3O8 from any single mining location, lode, or placer, which had not previously been worked for uranium. Did not apply to carnotite or roscoelite type ores. Offer expired April 11, 1958. This bonus collected only once in 10 years.

April 11
Domestic Uranium Program Circular 3 promulgated. Provided minimum prices, specifications and conditions under which AEC would purchase carnotite and roscoelite type ores delivered at Monticello, Utah, buying station.

June 1
Domestic Uranium Program Circular 4 promulgated. Provided for payment of haulage and development allowances.

July 1
54,000 tons of ore produced in western states in FY 1948; AEC purchased 110 tons of U3O8 in FY 1948 at cost of $1,700,000 an average price per pound, $7.14.

December 31
In Calendar Year 1948, U.S. Geological Survey drilled 130,000 feet of holes in AEC exploration program; estimate private industry drilled 80,000 feet.

1949
February 1
Domestic Uranium Program Circular 5 promulgated. Consolidated Circulars 3 and 4; increased price of U3O8 by fifty cents per pound, plus premium prices and other provisions.

February 17
Contract with Vanadium Corporation of America to purchase U3O8 from Durango, Colo., processing mill. (First deliveries to AEC in August, 1949).

April 13
Contract with U.S. Vanadium (later Union Carbide) to purchase concentrates from Uravan, Colo., mill.

May 17
First lease issued in Mineral Leasing program for mining of uranium ore on AEC-controlled lands which had been explored by AEC and certain ore reserves established. This program, authorized by the 1946 Atomic Energy Act, continued from 1949 to 1962, during which a total of 49 leases were executed between the AEC and individuals or companies. The lessees paid the Government a royalty fee for the uranium mined. (See March 31, 1962, for ore mined and fees paid Government).

May 17
Contract with VCA to purchase concentrates from mill at White Canyon, Utah. (Power plant operation). This mill went into production in 1950 and shut down in 1953 after delivering more than 125,000 pounds of U3O8 to AEC.

July 10
AEC announces types of high-lime uranium-vanadium ores to be purchased at Monticello, Utah. (Differed from Circular 5).

August 23
AEC contracts with Galigher Company to renovate Monticello, Utah, mill (from War Assets Admin.) and operate to produce U3O8. Six months later the mill was producing concentrates.

1039
December 31
In exploration program in CY 1949, AEC drilled 70,000 feet of holes and the USGS drilled 223,000 feet, for total Government drilling of 293,000 feet. Estimate private industry drilling at 120,000 feet.

1950

January
First concentrates produced by Government-owned processing mill at Monticello, Utah.

March
First concentrates received by AEC from Rifle, Colorado mill.

March 12
Marysville, Utah, AEC ore-buying station established and schedules given.

July 1
FY 1950 ore production, 230,000 tons. FY 1950 U₃O₈ purchased by AEC, 320 tons at cost of $5,800,000; average cost per pound, $8.92.

July 10
Concentrate purchase contract executed by AEC and Climax Uranium Company for mill at Grand Junction, Colorado.

December 31
In exploration program in CY 1950, AEC drilled 156,000 feet of holes, USGS drilled 212,000, for Government total of 568,000 feet. Estimate private drilling at 410,000 feet.

1951

March 1
Domestic Uranium Program Circular 5, Revised, promulgated. Extended Circular 5 to March 31, 1962, and increased the price payable for U₃O₈ in certain ores.

March 16
AEC restored 42 square miles in Colorado to public domain (through BLM) and withdrew another 86 square miles for exploration program.

March 29
AEC offers to buy copper-bearing uranium ores at Marysville, Utah, and Monticello, Utah.

June 29
Domestic Uranium Program Circular 6 promulgated. Provided bonus payments for initial and certain other production of uranium ores to assist development of new sources. This known as "the bonus program".

June
AEC receives first concentrates from Climax Uranium mill at Grand Junction, Colorado.

July 1
FY 1951 ore production, 290,000 tons. FY 1951 U₃O₈ purchased by AEC, 630 tons at cost of $12,800,000; average cost per pound, $10.01.

August 22
AEC asked withdrawal of 66 square miles of public land in Grand County, Utah, for exploration program.

October 25
AEC executes contract with Vitro Corporation of America to buy concentrates from mill at Salt Lake City, Utah. (First U₃O₈ delivered to AEC later in 1951).

December 27
AEC and the Anaconda Company execute contract for concentrates to be produced at mill at Bluewater, New Mexico (Grants area).

December 31
In CY 1951, AEC drilled 354,000 feet in exploration program, and USGS drilled 374,000 feet, for total Government drilling of 728,000 feet. Estimate private industry drilling at 700,000 feet.

1952

January 17
Bluewater, New Mexico, ore-buying station opened by Anaconda for AEC and buying schedules announced.

January 30
AEC announces over a quarter million dollars paid out in initial production bonus program in 1951. (First payments under Circular 6, promulgated June 29, 1951)

June 8
Grants, New Mexico, ore-buying station opened by AEC and buying schedules given.

July 1
In FY 1952, total of $607,232 paid by AEC in initial production bonus program.

July 1
FY 1952 ore production, 390,000 tons. FY 1952 AEC concentrate purchases, 830 tons at cost of $18,400,000; average cost per pound, $11.19.

November 30
Grand Junction Operations Office established to consolidate AEC's exploration and procurement programs on the Colorado Plateau. Formerly known as Colorado Raw Materials Office. Operations Office status ranked it with major AEC field installations throughout U.S.

November 30
Edgemont, South Dakota, ore-buying station established by AEC and schedule published.

December 31
First report on access road program made by AEC, showing construction started on 428 miles of roads with total costs to be $1,762,802.

December
CY 1952, in exploration program, AEC drilled 482,000 feet and USGS 580,000 feet, for Government total of 1,062,000 feet. Estimate private industry drilled 600,000 feet.

January 11
AEC announces issuance of report on uranium sampling practices on Colorado Plateau prepared by Colorado School of Mines Research Foundation.
April 12
AEC announces policy of posting results of airborne surveys of radioactivity on the 15th of each month in public places throughout the West. This airborne program continued until 1956 when it was no longer necessary. AEC had as many as a dozen planes flying at one time.

July 1
FY 1953 ore production, 610,000 tons. FY 1953 concentrates purchased by AEC, 990 tons at cost of $24,200,000, with average price per pound of $12.30.

August 17
AEC signs contract with Kerr-McGee Oil Industries, Inc., to buy concentrates from Shiprock, New Mexico, mill.

September
Anaconda mill at Bluewater, New Mexico, delivers first concentrate to AEC.

September 23

November 17
AEC reports initial production bonus payments total 2 1/2 million dollars since start March 1, 1951.

December 31
In CY 1953, AEC requested seven separate public land withdrawals for the exploration program.

December 31
In exploration program, AEC drilled 600,000 feet and USGS drilled 715,000 feet, for total Government drilling of 1,315,000 feet. Estimate private industry drilling at 2,700,000 feet.

1954
January 29

February 23
AEC announces bonus payments over $3 million since the beginning on March 1, 1951. Current rate of payments at $175,000 a month.

March 30
AEC announces ore-crushing and sampling plant to be built at Moab, Utah.

May 5
Contract signed for expansion of Government-owned Monticello, Utah, processing mill to treat refractory ores.

May 9
Provisional ore-buying station established by AEC at Moab, Utah.

May 18
Contract signed for expansion of Anaconda's Bluewater, New Mexico, mill to treat sandstone gangue ores.

July 1
FY 1954 ore production, 914,000 tons. FY 1954 concentrates purchases by AEC, 1,450 tons costing $35,600,000; average price per pound, $12.25.

July 7
AEC announces ore-buying station to open in White Canyon, Utah, in August, 1954.

July 20

October 12
AEC announces plans to establish ore-buying station at Grand Junction Operations Office. This plant began operations in July, 1954 and ran continuously until June of 1958. Approximately 30,000 tons of ore from 40 different mines were tested in this plant.

September 15
Another expansion of Anaconda's Bluewater, New Mexico uranium processing plant announced.

October 25
Expansion of Climax Uranium Company mill at Grand Junction announced.

November 1
Shiprock, New Mexico processing mill at Kerr-McGee Oil Industries goes into operation.

November 30
Capacity increased at Naturita, Colorado processing mill operated by Vanadium Corporation of America.

December 31
In CY 1954, approximately 133,000 acres in Colorado and Utah restored to public domain at request of AEC. Had been withdrawn in exploration program.

December 31
In CY 1954, in exploration program, AEC drilled 613,000 feet of holes and the USGS drilled 497,000 feet, for Government total of 1,110,000. Estimate private industry drilled 3,500,000 feet.

December 31
In access road program in CY 1954, projects on 72 1/2 miles of roads started at total cost of $287,732.

January
First concentrate received from Shiprock, New Mexico mill of Kerr-McGee.

March 1
March 5

- Announce ore-buying station for Green River, Utah. (cancelled later).

March 30

- AEC announces plans to make tests on uranium-bearing lignite, but no buying program at that time.

April 8

- AEC announces bonus payments pass $5 million mark since start of program March 1, 1951. To date, 2,889 payments totaling $5,001,019. Rate of payments per month, $195,000.

April 29

- Contract executed for purchase of concentrates from Edgemont, South Dakota, mill operated by Mines Development, Inc.

June 17

- AEC executed contract with Uranium Reduction Company for Moab, Utah, processing mill. (Later acquired by Atlas Corporation).

July 1

- FY 1955 ore production, 1,306,000 tons. FY 1955 concentrate purchases, 2,140 tons at cost of $53,600,000; average price per pound, $12.51.

July 15

- Tuba City, Arizona, mill contract signed with Rare Metals Corp. (Later, El Paso Natural Gas Company).

August 6

- Announce expansion of U.S. Vanadium (later Union Carbide) processing mill at Uravan.

August 10

- Executed contract with Trace Elements Corp., for mill at Maybell, Colorado. (Later, Union Carbide).

November 29

- Contract with Continental Uranium, Inc., for mill at LaSal, Utah. (Never built and contract cancelled).

December 31

- In CY 1955, AEC requested restoration of approximately 84,000 acres of public land in Wyoming, Colorado and Utah.

December 31

- In CY 1955 exploration program, AEC drilled 316,000 feet of holes and USGS drilled 213,000, for Government total of 529,000 feet. Estimate of private drilling was 5,500,000 feet.

December 31

- In CY 1955, access road projects totaling 110 miles and costing $1,874,184 started under AEC auspices.

1956

January 12

- AEC to open ore-buying station at Tuba City, Arizona.

January 15

- AEC to open ore-buying station at Grants, New Mexico. (Began receiving ore July 5, 1956).
August 22  
Domestic Uranium Program Circular 5, Revised, is modified to eliminate requirements for proof of development allowance funds.

October 18  

October 24  
Moab, Utah, ore-buying station to go on standby basis November 1, 1956.

November  
First concentrate from URC mill at Moab, Utah, received by AEC.

November 11  

November 15  
Contract executed for Gas Hills, Wyoming, processing mill with Lucky Mc Uranium (later Utah Construction and Mining Company).

November 16  
Contract with Gunnison Mining Co., for processing mill at Gunnison, Colorado.

December 14  
AEC announces plans for provisional ore-buying station at Crooks Gap, Wyoming.

December 20  
AEC contract with Homestake-New Mexico Partners for processing mill at Grants, New Mexico.

December 31  
In CY 1956, AEC initiated 8 separate actions to restore 148,000 acres to the public domain in Colorado, Utah and New Mexico.

December 31  
In CY 1956, AEC drilled 14,000 feet and USGS drilled 26,000 feet in exploration program. Estimate private industry drilled 8,750,000 feet. (The final AEC drilling contract was let in 1956; private industry had taken over and there was no need for further Government drilling.)

December 31  
In CY 1956, access road program saw start of work on 48 miles of roads at total cost of $559,381.

January 1  
Globe, Arizona, AEC ore-buying station to close June 30, 1957.

February 5  
Marysville, Utah, AEC ore-buying station to close March 15, 1957.

March 4  
Domestic Uranium Program Circular 9 promulgated. Deals with prospecting permits on certain lands.

April 2  
AEC requests restoral to public domain of about 95,000 acres in Colorado.

April 24  
AEC signs contract with Homestake-Sapin Partners for mill at Grants, New Mexico.

May 3  
AEC signs contract with Kermac Nuclear Fuels Corporation for processing mill at Grants, New Mexico.

May 23  
AEC signs contract with Cotter Corporation to purchase concentrates from pilot plant at Canon City, Colorado.

July 1  
FY 1957 ore production, 3,303,000 tons. FY 1957 AEC concentrate purchases, 7,580 tons at cost of $159,600,000; average cost per pound, $10.93.

July 1  
Bonus payments by AEC in Fiscal Year 1957 totaled $2,982,965.

July 15  
AEC announces White Canyon, Utah, buying station to close July 31, 1957.

July 19  
AEC announces discontinuance of ore buying at Crooks Gap, Wyoming.

August  
First concentrates received by AEC from Western Nuclear, Inc., mill in Wyoming.

September  
First concentrate received by AEC from Dawn Mining Company mill at Ford, Washington.

September 17  
AEC signs contract with Phillips Petroleum Company for processing mill at Grants, New Mexico.

October 28  
Address by Director, Division of Raw Materials, before Atomic Industrial Forum in New York City in which it was stated that "We have arrived at the point where it is no longer in the interest of the Government to expand the production of uranium concentrate."

November  
First concentrate received by AEC from Texas-Zinc mill at Mexican Hat, Utah.

November 18  
AEC signs contract with Lakeview Mining Company for processing mill at Lakeview, Oregon.

December 4  
AEC signs contract with Fremont Minerals (Later, Susquehanna-Western, Inc.) for a mill at Riverton, in Fremont County, Wyoming.
December
First concentrate received by AEC from Maybell, Colo., processing mill owned by Union Carbide.

December 5
Reorganization of the Grand Junction Operations Office affecting units responsible for programs for the evaluation of source material resources, uranium ore procurement, mining incentives, and the acquisition and production of uranium concentrates.

December 31
CY 1957, there was no AEC or USGS exploratory drilling. It was estimated that private industry drilled 9,200,000 feet.

December 31
Access road program in CY 1957 saw projects begun on 30 miles of roads at total cost of $1,483,976.

January 24
Riverton, Wyoming, AEC ore-buying station closed.

March
First concentrate received by AEC from Utah Construction & Mining Company mill in Wyoming.

April 2
AEC announces program modification to permit a limited expansion of the domestic uranium industry by providing a market for certain ore reserves developed prior to November 1, 1957.

April 24
AEC requests restoral to public domain of 21,440 acres in Utah.

April 28
Lisbon Uranium Company of Salt Lake City collects the $10,000 bonus under Circular 2 only two days before the circular expired on April 11.

May 8
AEC announces plan to permit private sales of uranium.

July 1
FY 1958 ore production, 4,416,000 tons. FY 1958 AEC concentrate purchases, 10,250 tons at cost of $196,000,000; average cost per pound, $9.57.

July 1
FY 1958 bonus payments total $2,040,118.

August
First concentrate received from Cotter pilot plant at Canon City, Colorado.

August
First concentrate received by AEC from Phillips Petroleum Company mill at Grants, New Mexico.

August 6

August 27
AEC announces discontinuance of ore buying at Grants, New Mexico, station.

September
AEC receives first concentrate from Homestake-Sapin mill at Grants, New Mexico.

November 24
AEC announces modification of procurement program, establishing November 24, 1958, as cutoff date for eligible ores from which concentrates could be derived for sale to Government in 1962-66 period. (Allocation system also established later by AEC as part of this program).

December
AEC receives first concentrates from Kermac processing mill at Grants, New Mexico.

December 31
AEC estimates private industry drilled 7,300,000 feet of exploratory holes. (AEC and USGS had discontinued exploratory drilling).

January
First concentrate received from Susquehanna-Western mill at Riverton, Wyoming.

February 27
AEC contract with Western Nuclear extended to December 31, 1966, and capacity of mill increased.

April 10
AEC signs contract with Federal-Radorock-Gas Hills Partners for processing mill in Fremont County, Wyoming.

May 1
AEC extends contract with Lucky Mc Uranium Corp., (later, Utah Construction & Mining) from July 1, 1959, to December 31, 1966.

May 9
AEC announces Government-owned processing mill at Monticello, Utah, will be closed January 1, 1960.

May 13
AEC signs contract with Globe Mining Co., (Later, Union Carbide) for new processing mill in Natrona County, Wyoming.

May 14
Initial production bonus payments to March 31, 1959, total $14,327,200 on 1,015 certified properties under Circular 6.

May 18
AEC requests ore reserve data by August 1, 1959, under terms of November 24, 1958, announcement. (Deadline later extended to October 1, 1959).

July 1
FY 1959 uranium ore production, 6,117,000 tons. FY 1959, AEC bought 15,160 tons of UO, at cost of $280,500,000; average price per pound, $9.25.
August 3

November 24
AEC contract with Kerr-McGee (Shiprock mill) extended to June 30, 1965.

December 1
AEC estimates domestic recoverable uranium ore reserves at 88,900,000 tons.

December 11
AEC contract with Anaconda Company for Bluewater, New Mexico mill extended to December 31, 1966.

December 17
Cotter concentrate purchase contract extended to March 1, 1960. (Pilot plant enlarged to full scale mill.)

December
First concentrate delivered to AEC from Federal processing mill in Wyoming.

1960
January 1
Government-owned uranium processing mill atMonticello, Utah, is closed.

February 1
First concentrate received by AEC from Globe mill in Natrona County, Wyoming.

March 29
AEC contract with Phillips Petroleum Co., amended to provide for deferral of 1,000,000 pounds of U₃O₈ to the 1962-1966 period.

March 31
Initial production bonus program (Circular 6) terminates. From beginning March 1, 1951, to date, total of approximately $17,700,000 paid on 1,281 certified properties.

April 26
Dawn Mining Co. processing contract extended to December 31, 1966, from March 31, 1962.

May 27
AEC sold 1,581,000 pounds of vanadium pentoxide to Vanadium Corporation of America for $1 per pound.

July 1
In FY 1960, uranium ore production, 7,606,309 tons. In FY 1960, AEC bought 16,403 tons of U₃O₈ at cost of $287,140,064; average price per pound, $8.75.

July 25
AEC signs U₃O₈ purchase contract with Susquehanna-Western, Inc., for mill at Falls City, Texas; runs to December 31, 1966.

July 27
AEC-Homestake-Sapln contract extended from April 1, 1960, to December 31, 1966.

August 3
AEC signs contract with Petrotomics Company to purchase concentrate from Shirley Basin (Wyo.) ores. (Mill built later by Petrotomics).

September 22
AEC-Climentax contract extended to December 31, 1966, from August 1, 1960.

November
Lakeview Mining Co., processing mill at Lakeview, Oregon, closed. Assets acquired by Kermac.

January 4
AEC-Susquehanna-Western contract for Riverton mill extended from June 1, 1960, to December 31, 1966.

February 2
AEC sold 1,139,900 pounds of vanadium pentoxide to private industry firms for $1,152,756.

February 13
AEC exempts uranium miners from source material license requirements.

February 21
Uravan mineral belt policy statement issued. Established historical production rate as basis for allocations.

March 21
AEC extends contract with Trace Elements (unit of Union Carbide) from March 31, 1962, to December 31, 1966.

March 22

May 22

June
First concentrate received by AEC from Susquehanna-Western mill at Falls City, Texas.

July 1
FY 1961, uranium ore production 8,300,198 tons. Peak year. FY 1961, AEC bought 17,671 tons of U₃O₈ at a cost of $299,340,000. (Peak year). Average cost per pound, $8.47.

August
Grand Junction Operations Office changed to Grand Junction Office.

August 16

November 9
AEC modifies contract with Homestake-Sapln Partners to replace prior existing contracts with Homestake-Sapln Partners and Homestake-New Mexico closed in April, 1962.
March 14 1962
AEC announces Monticello, Utah, ore-buying station to close March 31, 1962.

March 19

March 31
Termination of Domestic Uranium Program Circular 5, Revised, which provided for minimum ore prices, premium prices, haulage and development allowances, etc.

March 31
Last ML lease (Mineral Leasing program) expires. Between 1949 and 1962, a total of 49 such leases executed, with a peak 30 active leases operating in 1954. Total ore production during program was 1,251,971 tons of ore averaging 0.29 percent U₃O₈ and yielding 7,261,000 pounds of U₃O₈. The ore also yielded 40,824,000 pounds of vanadium (V₂O₅). The Government received $5,890,391 in royalties during the program.

April
AEC receives first concentrates from Perotomics Company mill in Wyoming's Shirley Basin area.

April
Gunnison Mining Company, mill at Gunnison, Colorado, closed and assets acquired by Kermac.

April 9
AEC extends concentrate contract with Vitro, Salt Lake City, from March 31, 1962 to December 31, 1963.

June 29
AEC relaxes restrictions for small mines producing less than 20,000 pounds of U₃O₈ for year.

July 1
FY 1962, uranium ore production, 7,965,291. FY 1962, AEC bought 17,248 tons of U₃O₈ at cost of $281,180,000; average price per pound, $8.00.

August 18
AEC announces assignment of Uranium Reduction Company contract (Moab, Utah, mill) to Atlas Corporation.

November 17
AEC announces domestic uranium procurement program through December 31, 1970. (stretch-out program).

November 19

1963

February 25

March 31

May
Susquehanna-Western processing mill at Riverton, Wyoming, closed and arrangements made to toll some ores through Federal mill.

July 1
FY 1963, uranium ore production, 6,435,359 tons. FY 1963, AEC bought 15,760 tons of U₃O₈ at cost of $246,210,000; average price per pound, $8.00.

July 12
AEC announces appointment of Rafford L. Faulkner as Director of the Division of Raw Materials to succeed Jesse C. Johnson, retired.

July 25

July 31
AEC approves consolidation of contracts of Atlas Corporation (Moab mill) and Texas-Zinc Minerals (Mexican Hat mill).

December 27
AEC announces signing of first stretch-out contract under the November 17, 1962 announcement with the Anaconda Company for the processing mill at Bluewater, New Mexico. Anaconda deferred approximately 3,000,000 pounds of U₃O₈ from the 1962-1966 period to 1967 and 1968.

January 10
AEC announces uranium procurement program not affected by fissionable materials cutback; procurement commitments through 1970 to be carried out.

March 13
Second stretch-out contract signed with Western Nuclear for processing mill in Wyoming. Western Nuclear deferred approximately 2,500,000 pounds of U₃O₈.

May 13
Third stretch-out contract signed with Union Carbide Corp., for processing mill in Wyoming, formerly Globe Mining Co. Union Carbide deferred approximately 758,000 pounds of U₃O₈.

July 1
FY 1964 uranium ore production, 5,430,471 tons. FY 1964, AEC bought 12,583 tons of U₃O₈ at cost of $201,370,000; average price per pound, $8.00.

July 2
Fourth stretch-out contract signed with Utah Construction & Mining Co., for processing mill in Wyoming. Utah deferred approximately 2,100,000 pounds of U₃O₈.
August 28
Fifth stretch-out contract signed with Kermac Nuclear Fuels Corp., for mill at Grants, New Mexico. Kermac deferred approximately 6,000,000 pounds of \( \text{U}_3\text{O}_8 \).

December 10
Sixth stretch-out contract signed with Federal-Radorock-Gas Hills Partners for mill in Wyoming. Federal deferred approximately 1,400,000 pounds of \( \text{U}_3\text{O}_8 \).

January 28
Seventh stretch-out contract signed with Federal-Radorock-Gas Hills Partners for mill in Wyoming. Federal deferred approximately 1,400,000 pounds of \( \text{U}_3\text{O}_8 \).

February
Cotter Corporation processing mill at Canon City, Colo., closed upon expiration of AEC contract.

June
Dawn Mining Company mill at Ford, Washington closed.

June 23
Eighth stretch-out contract signed with Homestake-Sapin Partners for mill at Grants, New Mexico. Homestake-Sapin deferred approximately 4,100,000 pounds of \( \text{U}_3\text{O}_8 \).

July 1
FY 1965 uranium ore production, 4,896,239 tons. FY 1965, AEC bought 11,819 tons of \( \text{U}_3\text{O}_8 \) at cost of $181,100,000; average price per pound, $8.00.

July 27
AEC-Vitro contract for Salt Lake City mill terminated at request of Vitro because of declining ore production in district.

August 5
Ninth stretch-out contract signed with United Nuclear Corp., operators in Grants, New Mexico, area. United Nuclear deferred approximately 3,800,000 pounds of \( \text{U}_3\text{O}_8 \). United Nuclear had choice of operating own mill or tolling through Homestake-Sapin mill. (At end of 1965, UN was tolling through Homestake.)

October 28
Tenth stretch-out contract signed with Union Carbide Corp., for processing mills at Uravan and Rifle, Colorado. Carbide deferred approximately 2,520,000 pounds of \( \text{U}_3\text{O}_8 \).

November 26
Eleventh and last stretch-out contract signed with Vanadium Corporation of America for mill at Shiprock, New Mexico. VCA deferred approximately 867,000 pounds of \( \text{U}_3\text{O}_8 \).

Summarizing the stretch-out program, AEC announced that in the eleven contracts executed, about 15,300 tons of \( \text{U}_3\text{O}_8 \) had been deferred from the 1962-1966 period for delivery in 1967 and 1968 at $8 per pound, and that the AEC expected to buy an additional 15,300 tons in 1969 and 1970 at an average price within the range of $5.50 to $6.00 per pound.

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Appendix 2

CHEMICAL CLASSIFICATION OF THE URANIUM AND THORIUM MINERALS


Arsenates:

Abernathyite $K_2(UO_2)_2(AsO_4)_2\cdot6H_2O$
Arsenuranylite $Ca(UO_2)_4(AsO_4)_2(OH)_4\cdot6H_2O$
Hallimondite $Pb_2(UO_2)(AsO_4)_2$
Heinrichite $Ba(UO_2)_2(AsO_4)_2\cdot10-12H_2O$
Hügelite $Pb_2(UO_2)_3(AsO_4)_2(0H)_4\cdot3H_2O$
Kahlerite $Fe(UO_2)_2(AsO_4)_2\cdotnH_2O$
Metaheinrichite $Ba(UO_2)_2(AsO_4)_2\cdot8H_2O$
Metakahlerite $Fe(UO_2)_2(AsO_4)_2\cdot8H_2O$
Metakirchheimerite $Co(UO_2)_2(AsO_4)_2\cdot8H_2O$
Metanovacekite $Mg(UO_2)_2(AsO_4)_2\cdot4H_2O$
Metauranospinite $Ca(UO_2)_2(AsO_4)_2\cdot8H_2O$
Metazeunerite $Cu(UO_2)_2(AsO_4)_2\cdot8H_2O$
Novacekite $Mg(UO_2)_2(AsO_4)_2\cdot8-10H_2O$
Paulite $HA1(UO_2)_4(AsO_4)_4\cdot16H_2O(?)$
Sodium uranospinite $(Na_2, Ca)(UO_2)_2[As, P]O_4\cdot2\cdot5H_2O$
Troegerite $H_2(UO_2)_2(AsO_4)_2\cdot8H_2O$
Uranospathite $Cu(UO_2)_2(AsO_4, P0_4)_2\cdot11H_2O(?)$
Uranospinite $Ca(UO_2)_2(AsO_4)_2\cdot10H_2O$
Walpurgite $Bi_4(UO_2)_2(AsO_4)_2O_4\cdot3H_2O$
Zeunerite $Cu(UO_2)_2(AsO_4)_2\cdot10-12H_2O$

Carbonates:

Andersonite $Na_2Ca(UO_2)(CO_3)_3\cdot6H_2O$
Bayleyite $Mg_2(UO_2)(CO_3)_3\cdot18H_2O$
Liebigite $Ca_2(UO_2)(CO_3)_3\cdot10H_2O$
Mackelveyite Near $Na_2Ba_4Ca(Y, U)_2(CO_3)_9\cdot5H_2O$
Metazellerite $Ca(UO_2)(CO_3)_2\cdot3H_2O$
Rabbittite $Ca_3Mg_3(UO_2)_2(CO_3)_6(0H)_4\cdot18H_2O$
Rutherfordine \((\text{UO}_2)\text{CO}_3\)

Schroeckingerite \(\text{NaCa}_3(\text{UO}_2)(\text{CO}_3)_5(\text{SO}_4)_6\cdot10\text{H}_2\text{O}\)

Sharpie \((\text{UO}_2)(\text{CO}_3)\cdot\text{H}_2\text{O}\) or \(6\text{UO}_3\cdot5\text{CO}_2\cdot7\text{H}_2\text{O}\)

Studtite Hydrated carbonate of U and Pb.

Swartzite \(\text{CaMg}(\text{UO}_2)(\text{CO}_3)_3\cdot12\text{H}_2\text{O}\)

Thorbastnaesite \(\text{Th(Ce,Na)}(\text{CO}_3)_2\cdot2\text{F}_2\cdot3\text{H}_2\text{O}\)

Voglite \(\text{Ca}_2\text{Cu}(\text{UO}_2)(\text{CO}_3)_4\cdot6\text{H}_2\text{O}\)

Widenmannite Carbonate of U and Pb.

Wyartite \(\text{UO}_2\cdot6\text{UO}_3\cdot2\text{CO}_2\cdot3\text{CaO}\cdot12-14\text{H}_2\text{O}\)

Zellerite \(\text{Ca}(\text{UO}_2)(\text{CO}_3)_2\cdot5\text{H}_2\text{O}\)

Molybdates:

Calcurmolite \(\text{Ca}(\text{UO}_2)_3(\text{MoO}_4)_3(\text{OH})_2\cdot11\text{H}_2\text{O}\)

Cousinite \(\text{MgO}_2\cdot2\text{MoO}_3\cdot2\text{UO}_2\cdot6\text{H}_2\text{O}\)

Irigrinite \(\text{UO}_2\cdot2\text{MoO}_3\cdot3\text{H}_2\text{O}\)

Moluranite \(\text{UO}_2\cdot3\text{UO}_3\cdot7\text{MoO}_3\cdot20\text{H}_2\text{O}\)

Mourite Hydrous uranous uranic molybdate.

Sedovite \(\text{U}(\text{MoO}_4)_2(?)\)

Umohoite \((\text{UO}_2)(\text{MoO}_4)_2\cdot4\text{H}_2\text{O}(?)\)

Wulfenite \(\text{Pb}(\text{Mo},\text{U})_4\)

Niobates-tantalates-titanates:

Aeschynite \((\text{Ce},\text{Ca},\text{Fe}^{+2},\text{Th})(\text{Ti},\text{Nb})_2(\text{O},\text{OH})_6\)

Betalite \(\text{A}_2\cdot\text{B}_2\cdot(\text{O},\text{OH})_6\), where \(\text{A}=(\text{Ca,Na,U,Ce,Fe})\;\text{B}=(\text{Nb,Ti,Fe})\)

Brannerite \(\text{A}_2\cdot\text{B}_2\cdot\text{O}_6\), where \(\text{A}=(\text{U,Na,Ce,Fe,Th,Y})\;\text{B}=(\text{Ti} \text{mainly} \text{and} \text{Fe})\)

Calciosamarskite Probably \((\text{Ca,Y},\text{Ce},\text{U},\text{Th})_3(\text{Nb,Ti,Fe,Ti},\text{Sn})_5\text{O}_{15}(?)\)

Davidite \(\text{A}_6\cdot\text{B}_15\cdot(\text{O},\text{OH})_36\), where \(\text{A}=(\text{Fe}^{+2},\text{Fe}^{+3},\text{Fe}^{+4},\text{Ca,Fe,Zr,Y})\;\text{B}=(\text{Ti,Fe})\)

Euxenite \((\text{Y,Ca,Ce,U,Fe})(\text{Nb,Fe,Ti})_2\cdot\text{O}_6\)

Fergusonite \((\text{Y,Er,Fe})(\text{Nb,Fe,Ti})_2\cdot\text{O}_4\)

Formanite \((\text{Y,Fe,Ca,Fe})(\text{Ti,Fe})_2\cdot\text{O}_4\)

Hielmite \((\text{Y,Fe,Fe})(\text{Ti,Fe})_2\cdot\text{O}_6\)

Ishikawaite \((\text{U,Fe})(\text{Y,Fe,Fe})(\text{Ti,Fe})_2\cdot\text{O}_4\)

Khlopinite \((\text{Y,Fe})_3(\text{Nb,Fe,Ti})_7\cdot\text{O}_{20}(?)\)

Kobeite \(\text{A}_2\cdot(\text{OH})_6\), where \(\text{A}=(\text{Y,Fe})\;\text{B}=(\text{Ti} \text{mainly} \text{Fe}^{+3},\text{Nb,Ti})\)

Loparite \((\text{Na,Ce,Fe})(\text{Ti,Fe})_7\cdot(\text{O}_3\cdot\text{OH})_3\)

Microlite \(\text{A}_2\cdot\text{B}_2\cdot(\text{OH},\text{F})_6\), where \(\text{A}=(\text{Na,Ca,Fe}^{+2},\text{Fe}^{+3},\text{Sb}^{+3},\text{Pb,Fe,Zr,Fe})\;\text{B}=(\text{Nb,Ti,Fe})\)

1050
Niobo-aeschynite \((\text{Ce,Y,Ca,Fe,Th})(\text{Nb,Ti})_2\text{O}_6\)
Nohlite \((\text{Ca,Mg,Fe}^{+2},\text{Y,}U)_2(\text{Nb,}Zr,\text{Fe}^{+3})_3\text{O}_{10}\)
Obruchevite \((\text{Y,Na,Ca,U})(\text{Nb,Ta,Fe})_2(\text{O,OH})_7\text{H}_2\text{O}\)
Pisekite Niobate-tantalate-titanate of U and rare earths, with Th and Sn.
Polycrase \((\text{Y,}Ca,\text{Ce,}U,\text{Th})(\text{Ti,}Nb,\text{Ta})_2\text{O}_6\)
Priorite \((\text{Y,Er,}Ca,\text{Fe}^{+2},\text{Th})(\text{Ti,}Nb)_2\text{O}_6\)
Pyrochlore \(A_2B_2\text{O}_6(0,\text{OH,F})\), where \(A=\text{Na,Ca,U,}\text{Th,}Ce,\text{Y}\); \(B=\text{Nb,}Ta,\text{Ti}\).
Samarsoite \((\text{Y,}Ce,\text{U,}Ca,\text{Fe,}Pb,\text{Th})(\text{Nb,}Ta,\text{Ti},S\text{n})_2\text{O}_6\)
Sinicite \(AB_2(0,\text{OH})_7\), where \(A=\text{Ce,}Y,\text{Th,}U\); \(B=\text{Ti},N\text{b mainly}\)
Thorutite \((\text{Th,}Ca,U)\text{Ti}_2(0,\text{OH})_6\)
Yttrocrasite \((\text{Y,}Th,\text{U,Ca})_2\text{Ti}_4\text{O}_{11}(?)\)
Yttrotantalite \((\text{Fe,Y,}U)(\text{Nb,}Ta)\text{O}_4\)
Zirkelite \((\text{Ca,Fe,Th,}U)_2(\text{Ti,}Nb,\text{Zr})_2\text{O}_7(?)\)

**Oxides:**

Becquerelite \(7\text{UO}_3.11\text{H}_2\text{O}\)
Billietite \(\text{Ba}0.6\text{UO}_3.11\text{H}_2\text{O}\)
Cerianite \((\text{Ce,}Th)\text{O}_2\)
Clarkellite \((\text{Na,Ca,Pb,}Th,\text{H}_2\text{O})_2(0,\text{H}_2\text{O})_7\)
Compaignacite \(K_2.0.6\text{UO}_3.11\text{H}_2\text{O}\)
Curite \(3\text{Pb0.8UO}_3.5\text{H}_2\text{O}\)
Fourmarierite \(\text{Pb}0.4\text{UO}_3.5\text{H}_2\text{O}\)
Hydronasturan \(\text{UO}_2.k\text{UO}_3.n\text{H}_2\text{O}\), where \(k=2.3\) to 5.0; \(n=3.9\) to 9.0
Lanthininite \(\text{UO}_2.5\text{UO}_3.10-11\text{H}_2\text{O}\)
Masuyite \(\text{UO}_3.2\text{H}_2\text{O}\)
Parapitchblende Oxide of uranium, chiefly \(U^{+6}\), minor \(U^{+4}\).
Richelite Contains \(\text{Pb}\) and \(U\).
Schoepite \(\text{UO}_3.2\text{H}_2\text{O}\)
Thorianite \((\text{Th,}U)\text{O}_2\)
Uraninite \((U^{+4}1-x, U^{+6}x)\text{O}_2 + x\)
Uranosphaerite \(\text{BiUO}_4(\text{OH})\)
Urgite \(\text{UO}_3.n\text{H}_2\text{O}\)
Vandenbrandelte \(\text{CuUO}_4.2\text{H}_2\text{O}\)
Vandendriesscheite \(\text{Pb}0.7\text{UO}_3.12\text{H}_2\text{O}(?)\)
Wölsendorfite \((\text{Pb,}Ca)\text{UO}_7.2\text{H}_2\text{O}\)
<table>
<thead>
<tr>
<th>Phosphates:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autunite $\text{Ca(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 10-12\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Bassette $\text{Fe(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 8\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Bergenite $\text{Ba(UO}_2\text{)}_4(\text{PO}_4)_2(\text{OH})_4\cdot 8\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Brockite $(\text{Ca, Th)}\text{PO}_4 \cdot \text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Cerphosphorhuttonite $(\text{Th, Ce})(\text{Si, P})_4 \cdot 1.5\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Cheralite $(\text{Ca, Th, Ce})(\text{P, Si})_4$</td>
</tr>
<tr>
<td>Coconinoite $\text{Fe}^{+3}_2\text{Al}_2(\text{UO}_2)_2(\text{PO}_4)_4(\text{SO}<em>4)</em>{\text{(OH)}}_2\cdot 2\text{OH}_2\text{O}$</td>
</tr>
<tr>
<td>Dewindite $\text{Pb}_3(\text{UO}_2)_5(\text{PO}_4)_4(\text{OH})_4\cdot 10\text{H}_2\text{O}$ (?)</td>
</tr>
<tr>
<td>Dumontite $\text{Pb}_2(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_4\cdot 3\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Fritzcheite $\text{Mn(UO}_2\text{)}_2[(\text{P, V})_4\text{]}_2\cdot 8\text{H}_2\text{O}$ (?)</td>
</tr>
<tr>
<td>Grayite Thorium phosphate, perhaps $(\text{Th, Pb, Ca})(\text{PO}_4)_2 \cdot \text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Hydrogen autunite $\text{H}_2(\text{UO}_2)_2(\text{PO}_4)_2\cdot 8-10\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Kivuite $(\text{Th, Ca, Pb})_2(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_8\cdot 7\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Lermontovite $(\text{U, Ca, R.E.}* )_3(\text{PO}_4)_4\cdot 6\text{H}_2\text{O}$ *RARE EARTHS</td>
</tr>
<tr>
<td>Meta-ankoleite $\text{K}_2(\text{UO}_2)_2(\text{PO}_4)_2\cdot 2\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Meta-autunite I $\text{Ca(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 2-6\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Meta-autunite II $\text{Ca(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 0-6\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Metasaleite $\text{Mg(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 4(?)\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Metatorbernite $\text{Cu(UO}_2\text{)}_2(\text{PO}_4)_2\cdot \text{nH}_2\text{O}$, where n=4 (?) to 8.</td>
</tr>
<tr>
<td>Meta-uranocircite $\text{Ba(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 8\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Monazite $(\text{Ce, La, Nd})\text{PO}_4$, with Th substituting for (Ce, La).</td>
</tr>
<tr>
<td>Natreautunite $\text{Na}_2(\text{UO}_2)_2(\text{PO}_4)_2\cdot 8\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Ningyoite $(\text{U, Ca, R.E.}* )_2(\text{PO}_4)_2\cdot 2\text{H}_2\text{O}$ *RARE EARTHS</td>
</tr>
<tr>
<td>Parsonsite $\text{Pb}_2(\text{UO}_2)_2(\text{PO}_4)_2$</td>
</tr>
<tr>
<td>Phosphuranylite $\text{Ca(UO}_2\text{)}_4(\text{PO}_4)_2(\text{OH})_4\cdot 7\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Przhevolskite $\text{Pb(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 2\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Pseudo-autunite $(\text{H}_3\text{O})_2\text{Ca(UO}_2\text{)}(\text{PO}_4)_2\cdot 2\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Renoardite $\text{Pb(UO}_2\text{)}_4(\text{PO}_4)_2(\text{OH})_4\cdot 7\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Sabugalite $\text{HAl(UO}_2\text{)}_4(\text{PO}_4)_4\cdot 16\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Saleite $\text{Mg(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 8-10\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Saryarkite $(\text{Ca, Y, Th})_2\text{Al}_4(\text{SiO}_4\cdot \text{PO}_4)_4(\text{OH})_9\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Sodium uranospinite $(\text{Na}_2, \text{Ca})(\text{UO}_2)_2[(\text{As, P})_4\text{]}_2\cdot 5\text{H}_2\text{O}$</td>
</tr>
<tr>
<td>Torbernite $\text{Cu(UO}_2\text{)}_2(\text{PO}_4)_2\cdot 12\text{H}_2\text{O}$</td>
</tr>
</tbody>
</table>
| Uramphite $(\text{NH}_4)(\text{UO}_2)(\text{PO}_4)_2\cdot 3\text{H}_2\text{O}$ }
Uranophaneite \( \text{Cu(UO}_2\text{)}_2(\text{AsO}_4\text{,PO}_4)_{2\cdot 11}\text{H}_2\text{O(?)}} \\

Selenites:

Domesmaekerite \( \text{Pb}_2\text{Cu}_5(\text{UO}_2\text{)}_2(\text{SeO}_3)_6(\text{OH})_{6\cdot 2}\text{H}_2\text{O} \\

Guilleminite \( \text{Ba(UO}_2\text{)}_3(\text{OH})_4(\text{SeO}_3)_{2\cdot 3}\text{H}_2\text{O} \\

Silicates:

Barium uranophane Contains major Ba, U, Si.

Beta-uranophane \( \text{Ca(UO}_2\text{)}_2(\text{SiO}_3)_{2\cdot (OH)\cdot 2\cdot 5}\text{H}_2\text{O} \\

Bilbinit  \( 3(\text{Ca, Pb})_0.(\text{U, Th})_0.7\text{UO}_3.10\text{SiO}_2.19\text{H}_2\text{O} \\

Boltwoodite \( \text{K}_2(\text{UO}_2)_{12}(\text{SiO}_3)_{2\cdot (OH)\cdot 2\cdot 5}\text{H}_2\text{O} \\

Caryocerite Borosilicate of Ce, Y, and Th.

Carphosphorhuttonite \( (\text{Th, Ce})(\text{Si, P})_0.4\cdot 1.5\text{H}_2\text{O} \\

Cheralite \( (\text{Ca, Th, Ce})(\text{P, Si})_0.4\ \\

Chevkinite \( (\text{Ce, Y, Ca, U, Th})_2(\text{Ti, Fe, Mg})_2(\text{Si, Al})_{2\cdot 0\cdot 1}\quad (?) \\

Coffinite \( U(\text{SiO}_4)_{1-x}(\text{OH})_{4x} \\

Cuprosklodowskite \( \text{Cu(UO}_2\text{)}_2(\text{SiO}_3)_{2\cdot (OH)\cdot 2\cdot 5}\text{H}_2\text{O} \\

Ekanite \( (\text{Th, U})(\text{Ca, Fe, Pb})_2\text{Si}_8\text{O}_{20} \\

Halweeite \( \text{Ca}_0.2\text{UO}_3.6\text{SiO}_2.5\text{H}_2\text{O} \\

Huttonite \( \text{ThSiO}_4 \\

Hydrocerite \( (\text{La, Ce, Th})_2(\text{Si, P})_2\text{O}_7.5\text{H}_2\text{O} \\

Kasolite \( \text{Pb(UO}_2\text{)}(\text{SiO}_3)(\text{OH})_2 \\

Metahalweeite \( \text{Ca}_0.2\text{UO}_3.6\text{SiO}_2.n\text{H}_2\text{O} \\

Nenadkevite \( (\text{U}^{4+}, \text{Y, Ce})\text{U}^{6+}(\text{Ca, Mg, Pb})(\text{SiO}_4)_{2\cdot (OH)\cdot 4}\cdot \text{nH}_2\text{O} \\

Orlite \( 3\text{PbO.3UO}_3.45\text{SiO}_2.6\text{H}_2\text{O} \\

Orthochekinite Dimorph of chevkinite.

Perrierite \( (\text{Ce, Y, Ca, Th})_2(\text{Ti, Fe, Mg})_2(\text{Si, Al})_{2\cdot 0\cdot 1}\quad (?) \\

Ranquilite \( 3\text{Ca}_0.4\text{UO}_3.10\text{SiO}_2.24\text{H}_2\text{O} \\

Saryarkite \( (\text{Ca, Y, Th})_2\text{Al}_4(\text{SiO}_4, \text{PO}_4)_{4\cdot (OH)\cdot 9}\text{H}_2\text{O} \\

Sklodowskite \( \text{Mg(UO}_2\text{)}_2(\text{SiO}_3)_{2\cdot (OH)\cdot 2\cdot 5}\text{H}_2\text{O} \\

Soddyite \( \text{UO}_2(\text{SiO}_4)_{2\cdot (OH)\cdot 2\cdot 5}\text{H}_2\text{O} \\

Steenstrupine \( (\text{Ce, La, Th, Ca, Na})_2(\text{Mn, Fe})(\text{SiO}_3)_2(\text{OH})_2.2\text{H}_2\text{O} \\

Thorite \( \text{ThSiO}_4 \\

Thorogummite \( (\text{Th(SiO}_4)_{1-x}(\text{OH})_{4x} \\

Thoroste0nstrupine \( (\text{Ca, Th, Mn})_3\text{Si}_4(0, \text{F})_{1\cdot 2\cdot 5\cdot 7}\text{H}_2\text{O} \\

Tritonite Borosilicate of Ce, Y, Th, Ca, and F.

Uranophane \( \text{Ca(UO}_2\text{)}_2(\text{SiO}_3)_{2\cdot (OH)\cdot 2\cdot 5}\text{H}_2\text{O} \\

.053
Ursilite 2(Ca,Mg)O.2UO₃.5SiO₂.9-10H₂O
Usigite R*(UO₂)₁₂(Si₂O₇)₆.nH₂O  MEANING OF R NOT SPECIFIED
Weeksite K(UO₂)₁₂(Si₂O₇)₃.4H₂O
Yttrialite (Y, Th)₂Si₂O₇

Sulfates:

Calciouraconite Near Ca(UO₂)₄(SO₄)₂(OH)₆.20H₂O
Coconinoite Fe₃⁺₄Al₂(UO₂)₂(PO₄)₄(SO₄)(OH)₂.20H₂O
Cuprozippeite Cu(UO₂)₂(SO₄)₂(OH)₂.11H₂O
Johannite Cu(UO₂)₂(SO₄)₂(OH)₂.6H₂O
Medjidite Supposedly a uranium sulfate.
Meta-uranopilite (UO₂)₆(SO₄)(OH)₁₀.5H₂O(?)
Schroeckingerite NaCa₃(UO₂)(CO₃)₃(SO₄)F.10H₂O
Uranochalcite Supposedly a uranium sulfate.
Uranopilite (UO₂)₆(SO₄)(OH)₁₀.12H₂O
Voglianiite Hydrous calcium uranium sulfate.
Zippeite K₄(UO₂)₆(SO₄)₃(OH)₁₀.₆H₂O

Tellurites:

Moctezumite PbO.2UO₃.2TeO₂

Vanadates:

Carnotite K₂(UO₂)₆(VO₄)₁₂.nH₂O(n=1 to 3)
Ferghanite (UO₂)₃(VO₄)₂.5H₂O(?)
Francevillite (Ba,Pb)(UO₂)₂(VO₄)₂.5H₂O
Fritzscheite Mn(UO₂)₂[(P,V)O₄]₄.8H₂O(?)
Metatyuyamunite Ca(UO₂)₂(VO₄)₂.3-5H₂O
Rauvite CaO.2UO₃.5V₂O₅.16H₂O(?)
Sengierite Cu(UO₂)₂(VO₄)₂.8-10H₂O
Tyuyamunite Ca(UO₂)₂(VO₄)₂.5-8H₂O
Uvanite U₂V₆O₂₁.15H₂O(?)
Vanuralite (UO₂)₂Al(VO₄)₂(OH).8H₂O
Vanuranylite [(H₂O)₁.₂(Ba,Ca,K,Pb)₀.₄](UO₂)₂(VO₄)₂.4.2H₂O