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National Uranium Resource Evaluation

BIBLIOGRAPHIC INDEX OF GRAND JUNCTION OFFICE URANIUM REPORTS

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Grand Junction, Colorado

May 1981

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY
Grand Junction Office, Colorado

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Mesa College
Grand Junction, Colorado

May 1981

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INTRODUCTION

In October 1978, Mesa College entered into subcontract 79-269-E with Bendix Field Engineering Corporation (BFEC) to prepare a bibliographic index of the uranium raw materials reports issued by the Grand Junction Office of the U.S. Department of Energy (DOE) or its predecessors, the Energy Research and Development Administration (ERDA), and the U.S. Atomic Energy Commission (AEC). Bendix, prime contractor to the Grand Junction Office, operates the Technical Library at the DOE facility.

Since the early 1950s, approximately 2,700 reports have been issued by the Grand Junction Office. These reports were the results of uranium investigations conducted by federal agencies and their subcontractors. The majority of the reports cover geology, mineralogy, and metallurgy of uranium and/or thorium. No single, complete list of these reports existed. The purpose of this subcontract was to compile a comprehensive index to these reports.

The Mesa College geology faculty worked with the BFEC and DOE staffs to develop the format for the index. Undergraduate geology students from Mesa compiled a master record sheet for each report. All reports issued up to January 1, 1979 were included in the bibliography.

The bibliography is in preliminary, unedited form. It is being open-filed at this time, on microfiche, to make the information available to the public on a timely basis.

BIBLIOGRAPHY FORMAT

The bibliography is divided into a master record list arranged in alpha-numeric order by report identification number, with separate indices arranged by title, author, state and county, 1° x 2° NTMS quadrangle, key words, and exploration area.

The following is an example of one complete record from the master file with a description of the various fields.

①
RME 3041
WRIGHT H D
BIELER B H ② AN INVESTIGATION OF URANIUM-BEARING DEPOSITS IN THE BOULDER BATHOLITH, MONTANA
 ④ CA PENNSYLVANIA STATE COLLEGE
 ⑤ PU AEC
 ⑥ DT 1953 AUGUST
 ⑦ CL 36 P. : 10 FIGURES
 ⑧ LC MONTANA, JEFFERSON
 ⑨ QD BUTTE * WHITE SULPHUR SPRINGS
 ⑩ KW URANIUM MINERALOGY * DEPOSITS; VEIN * ANALYSIS; LABORATORY
 ⑪ EP IDAHO-MONTANA * W. WILSON DEPOSIT * GRAY EAGLE DEPOSIT * LONE EAGLE DEPOSIT

- (1) Report Identification Number: The alpha prefix generally identifies the office, agency, or laboratory responsible for the report. The numeric data is simply a sequence number.
- (2) Title: Titles longer than 300 characters are truncated.
- (3) Author(s): All authors contributing to the report are listed.

- (4) Corporate Affiliation: This field lists the specific office, agency, laboratory, university, or institute with which the authors were associated (if ascertainable).
- (5) Publishing Authority: The agency sponsoring or having overall authority for publication of the report is listed.
- (6) Date: This is the date of the report taken from the title page; it does not necessarily coincide with the date of open filing.
- (7) Collation: Estimates of total length were made for unpaginated reports and reports having nonsequentially numbered pages.
- (8) Location: The geographic area covered by the report is listed by state and county, or states and counties, covered. On reports, covering many counties or wide geographic areas, broader geographic terms were used such as Utah; Southwestern, or United States; Western. Alaska has been divided into eight separate geographic units for indexing purposes in this bibliography. Figure 1 shows the regional names used for Alaska.
- (9) Quadrangle: The geographic area covered by the report is listed by 1° x 2° NTMS quadrangle or quadrangles. If the report covered an area of more than five quadrangles, this field was marked N/A and indexed only by Location and Exploration Area.
- (10) Key Word: The key words are an attempt to give a description of the subject content of the report. Appendix A is a list of all key words used in compiling the bibliography.
- (11) Exploration Areas: This field contains mine and property names, names of specific geographic features, and exploration areas. The names and geographic extent of the exploration areas used are shown in Figure 2.

The following are example citations in the title, author, location, quadrangle, key word, and exploration area indices. Refer to the master record list to obtain the complete citation.

Title

RME 3041
AN INVESTIGATION OF URANIUM-BEARING DEPOSITS IN THE BOULDER BATHOLITH, MONTANA

Author

RME 3041
WRIGHT H D AN INVESTIGATION OF URANIUM-BEARING DEPOSITS IN THE BOULDER BATHOLITH, MONTANA

Location (state and county)

RME 3041
MONTANA, JEFFERSON AN INVESTIGATION OF URANIUM-BEARING DEPOSITS IN THE BOULDER BATHOLITH, MONTANA

Quad (1° x 2° NTMS quadrangle)

RME 3041
BUTTE AN INVESTIGATION OF URANIUM-BEARING DEPOSITS IN THE BOULDER BATHOLITH, MONTANA

Key Word

RME 3041
DEPOSITS; VEIN AN INVESTIGATION OF URANIUM-BEARING DEPOSITS IN THE BOULDER BATHOLITH, MONTANA

Exploration Area

RME 3041
LONE EAGLE DEPOSIT AN INVESTIGATION OF URANIUM-BEARING DEPOSITS IN THE BOULDER BATHOLITH, MONTANA

FIGURE 1. Regional names used for Alaska.

FIGURE 2. Names and geographic extent of exploration areas
(from National Uranium Resource Evaluation, Interim Report,
June 1979).

- A Colorado Plateau**
- (1) San Juan Basin
 - 10 Ambrose†
 - 11 Lagunita†
 - 12 Black Jack†
 - 13 Gallup†
 - 14 Mt Taylor†
 - 20 Shiprock
 - 30 Navajo
 - (2) Black Mesa Basin
 - 10 Cameron
 - 20 Holbrook
 - 30 Hopi Buttes
 - 40 Black Mountain
 - (3) Paradox Basin
 - 10 SW Lisbon Valleys
 - 11 NE Lisbon Valleys
 - 20 Uruvan*
 - 21 Gateway*
 - 22 Bull Canyon*
 - 23 Paradox*
 - 24 Gypsum Valley*
 - 25 Slack Rock*
 - 26 Dry Valley*
 - 27 La Sal
 - 30 Inter-River - Seven Mile
 - 40 Cane Creek
 - 50 Thompsons*
 - 60 Green River
 - 70 Montezuma Canyon
 - 80 Cottonwood Wash
 - 90 Placerville - Rico
 - (4) Monument Uplift
 - 10 Monument Valley
 - 20 White Canyon
 - (5) Henry Mountains
 - 10 Henry Mountains
 - 20 Circle Cliffs
 - (6) Kaibab Uplift
 - 10 Grand Canyon
 - 20 Marble Platform
 - (7) Uinta-Piceance Basin
 - 10 Myton
 - 20 Meeker
 - 30 Rifle
 - 40 Skull Creek
 - (8) San Rafael Swell
 - 10 Southern San Rafael Swell
 - 20 Northern San Rafael Swell
- B Wyoming Basins**
- (1) Central Wyoming
 - 10 Gas Hills
 - 20 Shirley Basin
 - 30 Crooks Gap
 - (2) Wind River Basin
 - 10 Copper Mountain
 - 20 Poison Spider
 - (3) Great Divide Basin
 - 10 Lost Creek
 - 20 Picket Lake
 - (4) Washakie-Sand Wash Basin
 - 10 Maybell
 - 20 Baggs
 - (5) Rock Springs Uplift
 - (6) Powder River Basin
 - 10 Pumpkin Buttes
 - 20 Monument Hill
 - 30 Turnercrest
 - 40 Pine Ridge
 - 50 Nine Mile Lake
 - (7) Laramie-Hanna Basin
 - (8) Miller Hill-Rowles Uplift
- B Wyoming Basins (cont'd)**
- (9) Big Horn Basin
 - (10) Green River Basin
 - 10 Tabernacle Butte
 - (11) Hartville Uplift
 - 10 Lance Creek
- C Coastal Plains**
- (1) Central Coast
 - 10 Kames
 - 20 Live Oak
 - (2) Duval
 - 10 Palangana
 - 20 Webb
 - (3) Starr
 - 10 Kelsey
 - (4) East Texas
 - 10 Lignite
- D Northern Rockies**
- (1) Loon Lake Batholith
 - 10 Loon Lake
 - 20 Mt. Spokane
 - (2) Idaho-Montana
 - 10 Boulder Batholith (Clancy)
 - 20 Basin Creek
 - (3) Northern Bighorn Uplift
 - 10 Pryor-Little Mountains
- E Colorado and Southern Rockies**
- (1) Front Range-Laramie-Medicine Bow Mountains
 - 10 Eastern Margin
 - 20 Turkey Creek
 - (2) Sawatch Range
 - 10 Marshall Pass
 - (3) Thirtymine Mile Volcanic Field
 - 10 Tallahassee Creek
 - 20 High Park
 - (4) Sangre de Cristo Range
 - (5) North Park-Middle Park Basin
 - (6) South Park
 - (7) Raton Basin
 - (8) San Juan Mountains
 - 10 Cochetopa
 - (9) Park Range-Sierra Madre Uplift
 - (10) San Luis Valley
 - (11) Jemez-Brazos Uplift
- F Great Plains**
- (1) Wilkston Basin
 - 10 Cave Hills-Slim Buttes
 - 20 Balfield
 - (2) Black Hills
 - 10 Southern Hills
 - 20 Northern Hills
 - (3) Denver Basin
 - (4) Sierra Grande-Las Animas Arch
 - (5) Midland Basin
 - 10 Tascosa
 - 20 Tucuman
 - 30 Post
- G Basin and Range**
- (1) Lake County
 - 10 Lakeview
 - (2) Walker Lake
 - 10 Hawthorne
- G Basin and Range (cont'd)**
- (3) North Torrey Range
 - 10 Austin
 - (4) Owens Lake
 - 10 Coso
 - (5) Thomas Range
 - 10 Spor Mountain
 - (6) Beaver Trend
 - 10 Marysvale
 - 20 Wah Wah Mountains
 - 30 Indian Creek
 - (7) Silver Reef (Leeds)
 - (8) Tonopah
 - (9) Blythe (McCoy Mountains)
 - (10) Mountain City
 - 10 Mountain City
 - (11) Winnemucca Lake
 - (12) Artillery Mountains
 - 10 Artillery Peak
 - (13) Globe
 - 10 Sierra Ancha
 - (14) Burro Mountains
 - (15) Rio Grande Trench
 - 10 Santa Fe
 - 20 Socorro
 - (16) Big Bend
 - (17) McDermitt
- H Pacific Coast and Sierra Nevada**
- (1) Northern Sierra
 - 10 Hallelujah Junction
 - 20 Sonora Pass
 - (2) Kern River
 - (3) Taft-McKittrick
 - (4) Ventura
 - (5) Medford
- I Central Lowlands**
- (1) Anadarko Basin
 - 10 Cement
- J Appalachian Highlands**
- (1) Carbon County
 - 10 Jim Thorpe
 - (2) Sullivan County
 - (3) Grandfather Mountain
 - 10 Spruce Pine
 - 20 Grandfather Mountain
- K Columbia Plateaus**
- (1) Crook County
 - (2) Malheur County
- L Southern Canadian Shield**
- (1) Keweenaw Bay
 - 10 Iron County
 - 20 Dickinson County
- M Alaska**
- (1) Prince of Wales Island
 - 10 Boken Mountain (Kendrick Bay)
- † Areas that comprise the Grants Mineral Belt
 ■ Areas that comprise the Lisbon Valley
 * Areas that comprise the Uruvan Mineral Belt

FIGURE 2 (continued). Names and geographic extent of exploration areas.

APPENDIX A. KEY WORDS

Alum Shale	Deposits; Magmatic
Annual Report	Deposits; Magmatic-Hydrothermal
Antero Formation	Deposits; Magmatic, Authigenic
Arbuckle Dolomite	Deposits; Marine Black Shales
Beryllium	Deposits; Orthomagmatic
Beryllium Mineralogy	Deposits; Pegmatitic
Bibliographic	Deposits; Phosphorites
Bone Valley Formation	Deposits; Placers
Borehole Logging	Deposits; Roll-Type
Breathitt Formation	Deposits; Sandstone
Brines	Deposits; Sandstones
Browns Park Formation	Deposits; Sea Water
Burro Canyon Formation	Deposits; Sedimentary
Cannonball Formation	Deposits; Stream Placer
Carbonaceous Materials	Deposits; Unconformity Related
Carbonaceous Materials; Coal	Deposits; Vein
Castile Formation	Deposits; Vein Type
Catskill Formation	Deposits; Volcanogenic
Cenozoic	Dighton; Conglomerate
Chinle Formation	Dripping Spring Formation
Clinton Formation	Dripping Springs Formation
Colimapu Formation	Echo Park Formation
Computer Applications	Entrada Formation
Concentration	Entrada Sandstone
Conway Granite	Equipment
Coso Formation	Equipment; Drilling
Cumnock Formation	Equipment; Field
Curtis Formation	Equipment; Geophysical
Cutler Formation	Equipment; Laboratory
Dakota Formation	Exploration
Dakota Sandstone	Exploration; Developmental
Dawson Formation	Exploration, Drilling
Deposits	Exploration Map
Deposits; Alluvial Placers	Exploration Methods
Deposits; Asphaltic	Exploration Proposals
Deposits; Beach Placers	Exploration; Aerial Photography
Deposits; Black Marine Shales	Exploration; Aerial
Deposits; Brines	Exploration; Drilling
Deposits; Calcretes	Exploration; Equipment
Deposits; Carbonaceous Materials	Exploration, Geophysical
Deposits; Coal	Exploration; Land
Deposits; Conglomerates	Exploration; Map
Deposits; Evaporative Precipitates	Exploration; Maps
Deposits; Evaporites	Exploration; Methods
Deposits; Fluvial	Exploration; Proposals
Deposits; Fluvial Placers	Exploration; Remote Sensing
Deposits; Granitic	Fall River Formation
Deposits; Hydrothermal	Fort Union Formation
Deposits; Igneous	Fox Hills Formation
Deposits; Lignite	Fruitland Formation
Deposits; Lignites	Fuson Formation
Deposits; Limestone	Gases
Deposits; Limestones	Geochemistry

APPENDIX A. KEY WORDS (continued)

Geochemistry; Alteration	Ore; Controls
Geologic Map	Ore; Distribution
Geology	Ore; Reserves
Geophysical Surveys	Ownership Map
Golden Valley Formation	Paleochannels
Goliad Formation	Paleozoic
Green River Formation	Panaca Formation
Ground Water	Park City Formation
Gueydan Formation	Pegmatitic
Hartford Hill Formation	Pekin Formation
Hawthorn Formation	Phosphoria Formation
Hell Creek Formation	Phosphorites
Igneous Rocks	Photogeologic Map
Inyan Kara Formation	Pierre Formation
Jackson Formation	Pierre Shale
Jurassic	Precambrian
Kansas City Group	Production
Lakota Formation	Quincy Granite
Latah Formation	Reconnaissance
Ludlow Formation	Reconnaissance; Aerial
Madera Formation	Reconnaissance; Field
Marine Black Shales	Reconnaissance; Geobotanical
Market	Reconnaissance; Surface
Mesozoic	Reconnaissance; Tertiary
Metallurgy	Reconnaissance; Underground
Metallurgy; Beneficiation	Rustler Formation
Metallurgy; Black Shale	Salina Formation
Metallurgy; Calcining	Salt Lake Formation
Metallurgy; Carbonaceous Materials	San Jose Formation
Metallurgy; Concentration	San Pedro Formation
Metallurgy; Dehydration	Sandpoint
Metallurgy; Extraction	Sanford Formation
Metallurgy; Lignites	Sangre De Cristo Formation
Metallurgy; Monazites	Santa Rosa Formation
Metallurgy; Phosphorites	Sedimentary Rocks
Metallurgy; Precipitation	Seminar
Metallurgy; Process Control	Spokane
Metallurgy; Resin Poisoning	St. Hippolyte Formation
Metallurgy; Waste Management	Stratigraphic Correlation
Metamorphic Rocks	Stratigraphy
Milling	Structure
Mineralogy	Structure; Anticlines
Mineralogy; Vanadium	Structure; Basins
Mining	Structure; Faults
Moenkopi Formation	Structure; Fractures
Morrison Formation	Summerville Formation
Oak Springs Formation	Sundance Formation
Oakville Formation	Surface Waters
Ohio Formation	Surface Waters Analysis; Procedures
Ojo Alamo Sandstone	Suwannee Limestone
Ore Controls	Sweetwater Granite
Ore Distribution	Tailings
Ore Reserves	Tallahassee Formation

APPENDIX A. KEY WORDS (continued)

Tampa Limestone
Thorium Mineralogy
Todilto Limestone
Tongue River Formation
Toreya Formation
Troublesome Formation
Truckee Formation
Vanadium Mineralogy
Virgin Valley Formation
Volcanic Rocks
Wasatch Formation
Waste Disposal
White Rim Formation
White River Formation
Wichita Group
Wind River Formation
Winnemucca