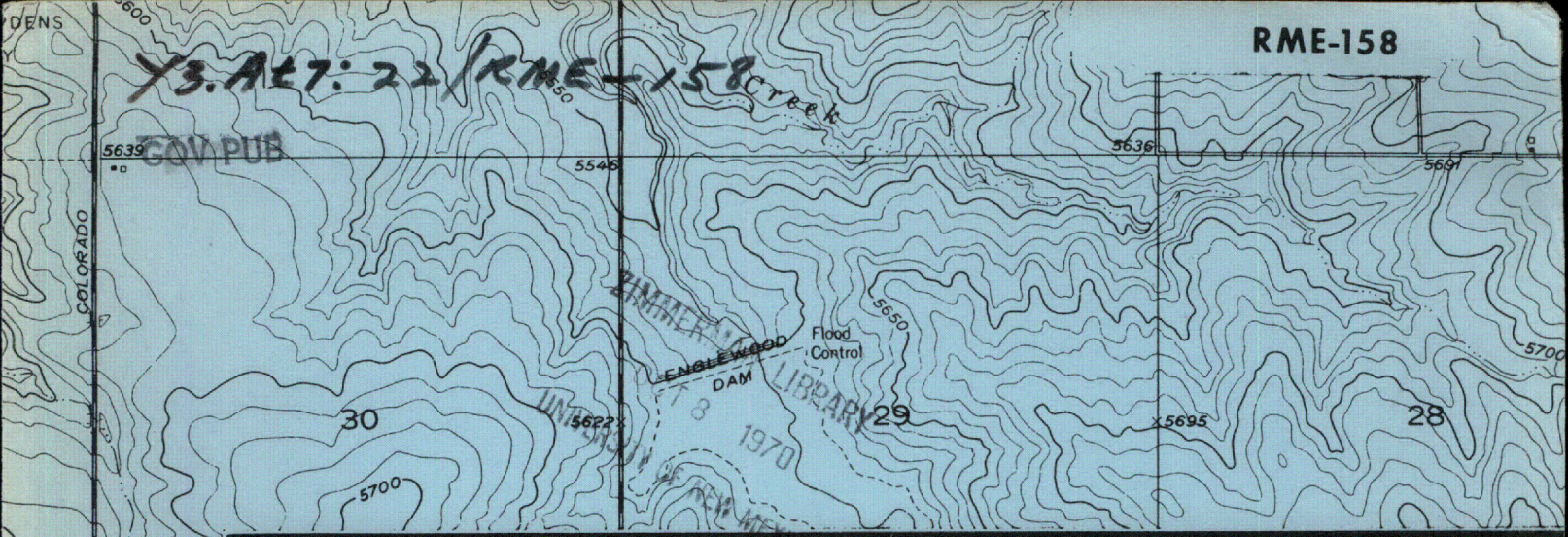
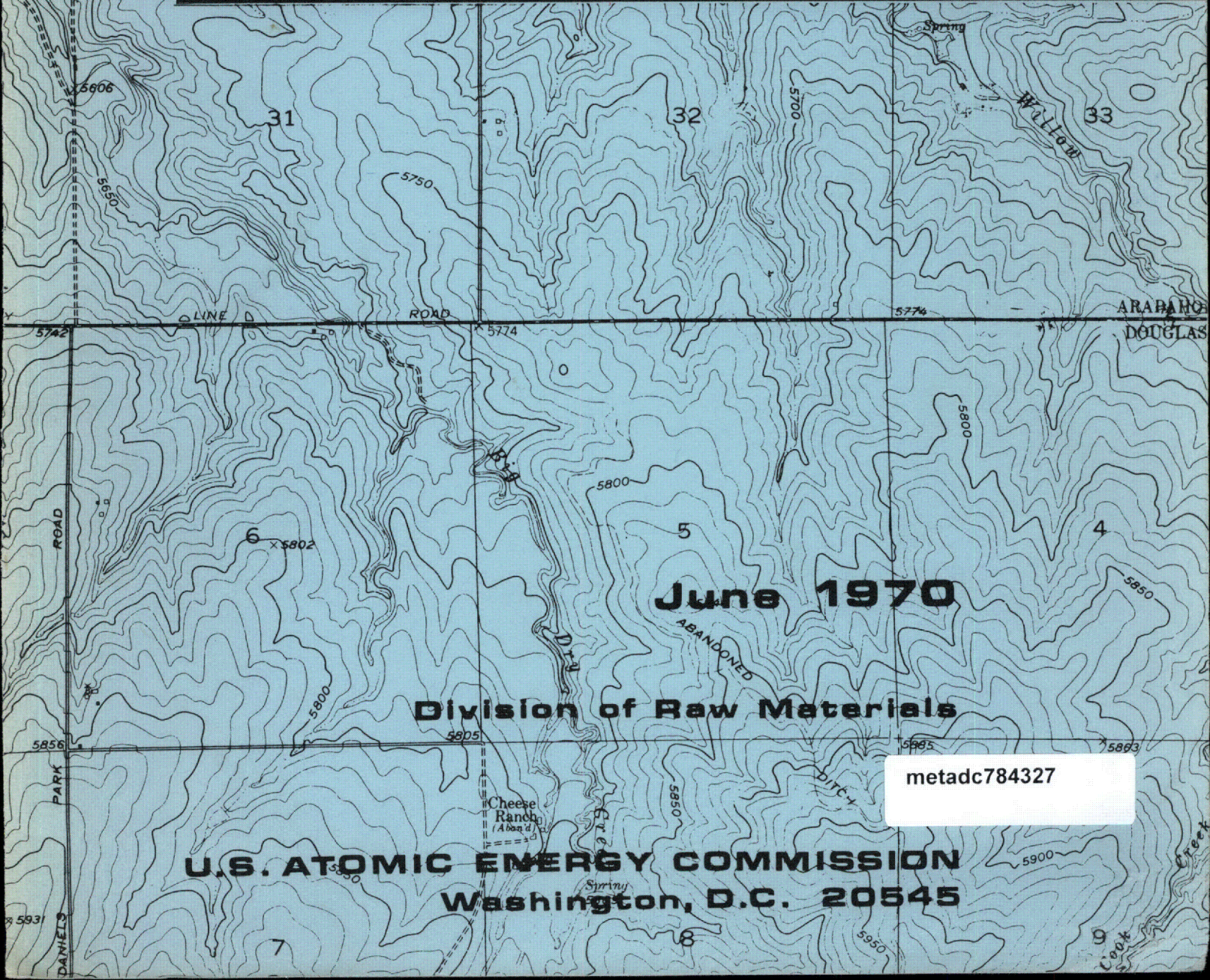


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**PRELIMINARY RECONNAISSANCE FOR URANIUM  
IN MOHAVE COUNTY, ARIZONA, 1952 TO 1956**



June 1970

Division of Raw Materials

metadc784327

U.S. ATOMIC ENERGY COMMISSION  
Washington, D.C. 20545

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RME-158

TID UC-51

**PRELIMINARY RECONNAISSANCE FOR URANIUM**  
**IN MOHAVE COUNTY, ARIZONA, 1952 TO 1956**

By

Grand Junction Office, AEC

and

U. S. Geological Survey

June 1970

(supersedes PB-172485)

Division of Raw Materials

U. S. Atomic Energy Commission

Washington, D. C. 20545



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 18, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Chloride

PROPERTY Johnny Bull, New Tennessee,  
 South Georgia, North Georgia, New Jersey,  
 LOCATION: Tennessee, Molly Gibson  
 SEC. 2.3 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: One mile east from Chloride

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle to moderately steep slopes; easily accessible.

B. Fissure-filled hydrothermal veins.

C. Quartz, sphalerite, galena, chalcopyrite, arsenopyrite, limonite, pyrite;  
 no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 17, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER TYPE AND WIDTH RADIOACTIVITY

NEAREST TOWN Chloride

PROPERTY Altata, Altata Extension.

Emmerson, Minnesota Conner, Silver Age,  
 LOCATION: Aurora

SEC. 23 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Two miles southeast from Chloride

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle to moderately steep slopes; easily accessible.

B. Fissure-filled hydrothermal veins.

C. Quartz, sphalerite, galena, pyrite, arsenopyrite, gold, silver, limonite;  
 no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 24, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE    AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY J. F. W. Mine (formerly known  
as the Mint)

LOCATION:

SEC. 32      T. 23 N.    R. 17 W.

3. TYPE OF EXAMINATION:  
Radiometric surface

4. DIRECTIONS TO DEPOSIT: Twelve miles northwest from Kingman, Arizona, on U. S. Highway 93, turn east, proceed for five miles. Mine is due north of the Golconda.

5. OWNER OR OPERATOR: Minnie A. Smith  
ADDRESS: Unknown

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Several drifts and crosscuts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep west-facing slope of the Cerbat Mountains.

B. Quartz- and gouge-filled fault fissure. Much pyrite in gouge matter, little calcite present in the gangue.

C. Quartz, calcite, much pyrite, chalcopryrite, galena, sphalerite, hematite and limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 26, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER      TYPE    AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Blue Bell, Miners Hope,  
Silver Legion, Fountain Head

LOCATION:      mines

SEC. 32      T. 23 N.    R. 17 W.

34                      22 N.      17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Go 12 miles northwest from Kingman, Arizona, on U. S. Highway 93; turn east on dirt road and proceed for approximately nine miles across the top of the Cerbat Range. Mine is one mile northeast from the De La Fontaine mine.

5. OWNER OR OPERATOR: George Reed - lessee of the Silver Legion and Fountain Head  
 ADDRESS:                      mines  
                                     Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Several drifts and shafts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On steep walls of canyon in the Cerbat Range. Most are easily accessible.

B. Quartz- and gouge-filled fault fissures.

C. Quartz, galena, sphalerite, hematite, limonite, little gold and silver; no radioactivity.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart and 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED D. L. Hetland  
January 25, 1953 DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Kingman, ArizonaPROPERTY Midday claim and nearby  
development

## LOCATION:

NW 1/4 SEC. 12 T. 22 N. R. 18 W.

3. TYPE OF EXAMINATION:  
Radiometric surface

4. DIRECTIONS TO DEPOSIT: Nine miles northwest from Kingman, Arizona, on U. S. Highway 93, turn east on road leading to Cerbat Canyon. Properties lie on north side of the entrance into Cerbat Canyon.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Unknown. Three inclined shafts and some surface trenching.

7. RADIOACTIVITY: Maximum radioactivity on scintillometer 150 cps, background 30 cps - radioactivity negligible.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

- A. Low rolling hills on the western flank of the Cerbat Range; easily accessible.
- B. Quartz and gouge-filled fault fissure striking N. 10° W., dipping 70° NE. Probably a gold-silver vein, with some lead or zinc minerals.
- C. Gold, quartz, silver, hematite, pyrite, chalcopyrite, galena and very little sphalerite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 26, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY
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NEAREST TOWN Kingman, Arizona

PROPERTY Banner

## LOCATION:

SEC. 4 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Go east from Kingman, Arizona, to dirt road following along the eastern side of the Cerbat Range for nine miles from the Stockton Tunnel. The Banner mine is approximately three miles up the road that goes over the Cerbat Mountains.

5. OWNER OR OPERATOR: United States Smelting, Refining, and Mining Company, Salt Lake  
 ADDRESS: City, Utah  
 George Reed, Lessee, Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Extensive surface and underground workings.

7. RADIOACTIVITY: One small point on an old dump where water has collected in a pond from natural runoff waters counted 500 cps on scintillometer; vein 7 feet from surface in gouge on footwall counted 300 cps - background 50 cps. No radioactivity detected in the underground workings.

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Mine is on the north-facing slope of steep canyon; accessible by auto.

B. Quartz vein in a fault fissure, much gouge and some fault breccia. Vein carries lead and zinc minerals with little copper and locally good grade of gold and silver ores.

C. Quartz, galena, sphalerite, chalcopryrite, pyrite, bornite, gold and silver.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O.M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 24, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER    TYPE AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY New Moon claim and nearby  
development

LOCATION:

SE 1/4 SEC. 31 T. 23 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: Go 9 miles northwest from Kingman on U. S. Highway 93;  
from the highway (east) above the old Jamison mine near the ridge top.

5. OWNER OR OPERATOR: A. A. Arnold, A. J. Jagerson, A. S. Jagerson, Kingman, Arizona  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Unknown - few surface pits and shafts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. High on ridge near crest; not accessible by road.

B. Quartz- and gouge-filled fault fissure.

C. Quartz, little galena and sphalerite, hematite and limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 29, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER    TYPE AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Cashier

## LOCATION:

SEC. 32 T. 23 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: Twelve miles northwest from Kingman, Arizona, on U. S. Highway 93 turn east on dirt road; proceed for five miles.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: **Drift**

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On steep slope, west side of Cerbat Range; easily accessible.

B. Quartz vein in a fault fissure; much gouge.

C. Quartz, galena, pyrite, hematite, chalcopyrite and limonite; no radio-activity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O.M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 21, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE      AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY St. Louis mine

LOCATION:

SEC. 8, 17 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: Twelve miles northwest from Kingman on U.S. Highway 93, turn east into Cerbat Canyon; mine is 1/4 mile on south side of Cerbat Canyon from the old town of Cerbat.

5. OWNER OR OPERATOR: Elsie L. Lietzow  
 ADDRESS: Unknown

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: 210 tons of ore shipped from 1935 to 1940, averaging 46 percent lead, 3 percent zinc, .2 percent copper, 8 oz. silver and trace of gold. 2000 feet of workings, mostly drifts, few small stopes.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep open south slope of Cerbat Canyon; easily accessible.

B. Veins a few inches to three feet have formed in fault fissures striking N. 30° W., principal minerals being quartz, galena, sphalerite and chalcopryrite. The vein outcrops are coated with a black manganese stain.

C. Quartz, galena, sphalerite, chalcopryrite and hematite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 16, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER TYPE AND WIDTH RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY High Line, Bay State, Town,  
Old Comanche and others

LOCATION:

SC $\frac{1}{4}$  SEC. 15 T. 23 N. R. 18 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: Three miles south from Chloride

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle slopes on the western flanks of the Cerbat Range.

B. Fissure-filled veins.

C. Sphalerite, galena, pyrite, gold and silver; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 16, 1953

DISTRICT Wallapai

1. SAMPLES

<u>NUMBER</u>	<u>TYPE</u>	<u>AND WIDTH</u>	<u>RADIOACTIVITY</u>
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NEAREST TOWN Chloride  
Midnight, Lone Jack, Uncle Abe,  
 PROPERTY Jupiter, Hidden Treasure  
Manzanita, Blackfoot and other develop-  
 LOCATION: ments  
 SEC. 11 - T. 23 N.R. 18 W.  
14

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Three miles south from Chloride on the low western slope of the Cerbat Mountains

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle to moderately steep slopes; easily accessible.

B. Fissure-filled veins.

C. Quartz, sphalerite, galena, gold, silver, limonite, very little carbonates; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 28, 1953

1. SAMPLES

<u>NUMBER</u>	<u>TYPE AND WIDTH</u>	<u>RADIOACTIVITY</u>

DISTRICT WallapaiNEAREST TOWN Kingman, ArizonaPROPERTY I. X. L. mine and nearby  
development

LOCATION:

SEC. 33 T. 23 N. R. 17 W.

3. TYPE OF EXAMINATION:  
Radiometric surface

4. DIRECTIONS TO DEPOSIT: Fifteen miles north from Kingman by dirt road on the eastern side of the Cerbat Range.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Unknown, Shaft and drifts.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. In bottom of a large wash (the I. X. L. Wash); easily accessible.

B. Quartz vein in a fault fissure.

C. Quartz, galena, Pb carbonate, sphalerite, pyrite and limonite; no radioactivity.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 28, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER TYPE AND WIDTH RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Victory mine

LOCATION:

SEC. 33 T. 23 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Scintillometer surface

4. DIRECTIONS TO DEPOSIT: Fifteen miles by dirt road north from Kingman, Arizona, on the eastern side of the Cerbat Range

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Underground workings inaccessible

7. RADIOACTIVITY: 150 cps by scintillometer on dump. background 40 cps  
 Radioactivity insignificant

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle slope near bottom of deep canyon; easily accessible.

B. Quartz vein in a fault fissure.

C. Quartz, galena, spalerite, hematite, pyrite, limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 27, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Prince George and Little  
Chief mines

LOCATION:

SEC. 9 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: East from Kingman, Arizona, to road going up along the eastern flank of the Cerbat Range to the Stockton Tunnel; mines are one mile west.

5. OWNER OR OPERATOR: Little Chief is owned by Ross Householder  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep open ridge; easily accessible

B. Quartz veins in fault fissures. Wallrock Precambrian gneiss and schist.

C. Quartz, galena, sphalerite, hematite, limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 26, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE      AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Oneida mine

## LOCATION:

SEC. 10 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Twelve miles north of Kingman, Arizona, on dirt road on the eastern side of the Cerbat Range

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Shaft

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle rolling slope near the eastern flank of the Cerbat Range.

B. Quartz vein in a fault fissure.

C. Quartz, galena, hematite, limonite, pyrite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 24, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Silver Mountain mine

## LOCATION:

SEC. 16 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: In Cerbat Canyon one-half mile south of the Jim Kane mine

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On steep south slope of Cerbat Canyon.

B. Quartz- and gouge-filled fault fissure.

C. Quartz, gold, silver, hematite, limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 19, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Chloride

Distaff, Schuylkill, Elkhart,  
 PROPERTY Argyle, Dardanelles,

Schenectady, Bullion, Badger, Hercules  
 LOCATION: and other developments

SEC. 34-35 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: One mile north from Chloride

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle to steep slopes, easily accessible.

B. Fissure-filled hydrothermal veins.

C. Quartz, sphalerite, galena, chalcopyrite, arsenopyrite, pyrite, limonite,  
 gold and silver; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 22, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Mohawk mine

## LOCATION:

SC $\frac{1}{4}$  SEC. 6 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: South one-half mile from the Golconda mine

5. OWNER OR OPERATOR: Jim Beauchamp  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Maximum scintillometer reading: 125 cps Bg. 50 cps.  
 Radioactivity insignificant

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep north slope on open ridge.

B. Quartz- and gouge-filled fault fissure vein 1' to 3' wide striking N.40° W.  
 dipping 75° N. Wallrock Precambrian gneiss. Pegmatites parallel the vein.

C. Quartz, silver, gold, pyrite, hematite, limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O.M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 22, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY O'Brien mine

## LOCATION:

SEC. 17 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Go 9 miles northwest from Kingman, Arizona, on U. S. Highway 93 turn east into Cerbat Canyon. Mine is approximately 5 miles from highway.

5. OWNER OR OPERATOR: Mr. O'Brien  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Several surface trenches, pits, drifts and few shafts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

- A. Open, north-facing, gently rolling slopes on the south side of Cerbat Canyon; easily accessible.
- B. Quartz- and gouge-filled fault fissures striking N. 15° W., dipping 75° NE. Very few base metals apparent in the vein material.
- C. Quartz, hematite, limonite, little galena, sphalerite, and probably traces of gold and silver; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 22, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Success No. 2 claim and  
nearby prospects

LOCATION:

SEC. 6 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: 1 1/2 miles west of Golconda mine

5. OWNER OR OPERATOR: R. H. Van Marel  
 ADDRESS: Unknown

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On south slope of canyon, easily accessible.

B. Quartz vein in fault fissure.

C. Quartz, hematite, limonite, galena; no radioactivity.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 25, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Cupel mine

## LOCATION:

SEC. 9 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION: Radiometric  
Surface

4. DIRECTIONS TO DEPOSIT: Go east from Kingman, Arizona, to road going up the eastern side of the Cerbat Range. Mine is approximately five miles from the Stockton tunnel near the crest of the ridge.

5. OWNER OR OPERATOR: A. W. Smith  
ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Several dumps from caved workings; three shafts.

7. RADIOACTIVITY: Scintillometer recorded 300 cps (Background 45 cps) on old jig tailings in a recent bulldozer trench. Geiger counter would not record any appreciable radioactivity on a picked sample. Radioactivity is insignificant.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Near ridge top in the upper elevations of the Cerbat Range; easily accessible.

B. Quartz vein in a fault fissure; much gouge. Vein is perpendicular to the strike of the banding of the gneiss and schist wallrock.

C. Quartz, galena, sphalerite, pyrite, hematite, limonite, gold and silver.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 26, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY San Antonio, Ark and  
Moonlight mine

LOCATION:

SEC. 25-36 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
Radiometric surface

4. DIRECTIONS TO DEPOSIT: Twelve miles northwest from Kingman, Arizona, on U. S. Highway 93 turn east on dirt road; proceed for three miles. Mines are on the flat one mile northwest from the Detroit Mine.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Unknown, shafts and drifts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Flat area in the mouth of canyon; easily accessible.

B. Quartz vein in a fault fissure.

C. Quartz, pyrite, hematite, limonite, galena; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 29, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY C. O. D. mine

## LOCATION:

SEC. 28 T. 23 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: This mine is 14.5 miles from Kingman, Arizona, on dirt road on the east side of the Cerbat Mountains.

5. OWNER OR OPERATOR: Mrs. Clack  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Gold and silver mine. Two shafts with probably considerable underground development.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Located at the head of C. O. D. wash, in the bottom of the canyon; easily accessible by jeep road.

B. Gold-quartz vein in fault fissure.

C. Quartz, gold, silver, little galena and sphalerite, hematite and limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 29, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Rico mine

## LOCATION:

SEC. 28 T. 23 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Seventeen miles from Kingman, Arizona, on dirt road on the east side of the Cerbat Mountains in the head of C. O. D. Wash.

5. OWNER OR OPERATOR: Mrs. Clack  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Gold-silver mine - two shafts and probably considerable underground development

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. North-facing slope on the steep south wall of C. O. D. wash; accessible by jeep road.

B. Gold-quartz vein in granite porphyry.

C. Quartz, gold, silver, pyrite, hematite, limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 29, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY White Eagle mine

## LOCATION:

SEC. 28 T. 23 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Fifteen miles from Kingman, Arizona, on dirt road on east side of the Cerbat Mountains.

5. OWNER OR OPERATOR: Mrs. Clack  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Gold and silver mine. Shaft, surface pits and several drifts.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep and rough north-facing slope; accessible by jeep road.

B. Quartz- and gouge-filled fault fissure; wallrock is granite porphyry.

C. Quartz, gold, silver, pyrite, hematite and limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 29, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER    TYPE AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Sixty-Three mine

## LOCATION:

SEC. 15 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Twelve miles from Kingman on the dirt road along the east side of the Cerbat Mountains; turn west on road into Canyon south of the Stockton tunnel. The mine is one and one-half miles from Stockton Tunnel (south).

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: **Four shafts and several drifts; underground development unknown**

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On moderately steep north-facing slope; accessible by rough jeep road.

B. Quartz vein in Precambrian schist and gneiss carrying little galena.

C. Quartz, little galena and sphalerite, probably little gold and silver; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 28, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Western Union

## LOCATION:

SEC. 15 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Mine is one-half mile east of the Jim Kane Mine on crest of ridge at the head of Cerbat Canyon.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Shaft and several surface pits and drifts

7. RADIOACTIVITY: ~~Maximum~~ scintillometer reading: 90 cps Background 40 cps  
 Radioactivity negligible.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On crest of ridge at the head of Cerbat Canyon; accessible by auto from the east side of Cerbat Range.

B. Quartz and gouge-filled fault fissure containing some galena, sphalerite, pyrite, chalcopyrite and hematite.

C. Quartz, galena, sphalerite, pyrite, hematite, gold, silver and limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 15, 1952

1. SAMPLES

<u>NUMBER</u>	<u>TYPE</u>	<u>AND WIDTH</u>	<u>RADIOACTIVITY</u>

DISTRICT HackberryNEAREST TOWN Hackberry, ArizonaPROPERTY Yellowroot #1, 2, 3

LOCATION:

SEC. 12 T. 23 N. R. 14 W.

## 3. TYPE OF EXAMINATION:

4. DIRECTIONS TO DEPOSIT: One mile west of Kingman, Hackberry Highway 66, turn north approximately 100 yards west of bridge.

5. OWNER OR OPERATOR: H. M. O'Conner  
 ADDRESS: General Delivery  
 Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Dumps and pits checked - negative

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):  
 Precambrian rocks containing scheelite and quartz; no radioactivity.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 26, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Chicago group of claims

LOCATION:

SEC. 8 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION: Radiometric surface  
underground

4. DIRECTIONS TO DEPOSIT: Go 9 miles northwest from Kingman on U. S. 93, turn east into Cerbat Canyon. Mine is one and one-half miles on side road bearing north-east from the main road.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Two short drifts along two separate veins, shallow shafts and pits.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On steep south slope on the south side of Cerbat Canyon. Jeep road leading to mines.

B. Quartz- and gouge-filled fissure fault in Pre-Cambrian gneiss. Gold and silver vein containing little lead and zinc minerals. Veins are heavily oxidized, strike north.

C. Quartz, gold, silver, galena, sphalerite, hematite, limonite, lead and zinc oxides; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 16, 1952

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

Peach tunnel, Nest claim,

PROPERTY Little Jimmie claim, Big Bethel  
claim, Oro Plata claim

LOCATION:

SEC. 6 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Thirteen miles northwest of Kingman, Arizona, turn northeast off Highway 93; follow dirt road. Pass Kay Ranch into canyon 5 miles after leaving Highway 93.

5. OWNER OR OPERATOR: John Sherman Bagg  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: No anomalous radioactivity was indicated on dumps.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Precambrian shear zone; sphalerite, chalcopyrite, galena, quartz.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart and 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED D. L. Hetland  
January 25, 1953 DISTRICT Wallapai

1. SAMPLES

<u>NUMBER</u>	<u>TYPE</u>	<u>AND WIDTH</u>	<u>RADIOACTIVITY</u>

NEAREST TOWN Kingman, ArizonaPROPERTY Inaguration claim, nearby  
development

LOCATION:

NW 1/4 SEC. 12 T. 22 N. R. 18 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: Go 9 miles northwest from Kingman on U. S. Highway 93, turn east on road leading into Cerbat canyon. Mine lies one mile north on the north side of the entrance into Cerbat canyon.

5. OWNER OR OPERATOR: Edwin White  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Unknown. Shaft filled with water.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On low rolling slope on the western flank of the Cerbat Range; easily accessible.

B. Quartz and gouge-filled fault fissure. Gold and silver vein striking N.10° W., dipping 70° NE.

C. Quartz, gold, silver, hematite, limonite, little pyrite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 16, 1952

1. SAMPLES

<u>NUMBER</u>	<u>TYPE</u>	<u>AND WIDTH</u>	<u>RADIOACTIVITY</u>
F-2989	Grab		

DISTRICT WallapaiNEAREST TOWN Chloride, ArizonaPROPERTY Prosperity claim

## LOCATION:

SEC. 6 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION: Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: 13 miles northwest of Kingman, Arizona, turn northeast off Highway 93, follow dirt road. Pass Kay Ranch into Canyon 5 miles after leaving Highway 93.

5. OWNER OR OPERATOR: John Sherman Bagg  
ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Dump showed 600 cps with a background of 30 cps.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Precambrian shear zone; sphalerite, chalcopyrite, galena, quartz.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 16, 1952

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

DISTRICT WallapaiNEAREST TOWN Chloride, ArizonaPROPERTY Golden Eagle claim

LOCATION:

SEC. 21 T. 23 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: 13 miles northwest of Kingman on Highway 93 turn northeast off Highway 93; follow dirt road. Pass Kay Ranch into canyon 5 miles after leaving Highway 93.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: No anomalous radioactivity was indicated on dumps.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep, almost barren hillside.

B. Precambrian schist - shear zone.

C. Sphalerite, chalcopryrite, galena, quartz.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1-17-56

DISTRICT Artillery Mountains

1. SAMPLES

NUMBER TYPE AND WIDTH RADIOACTIVITY

NEAREST TOWN Stovall

PROPERTY Navico group no. 1

LOCATION: Unsurveyed  
 SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Going west on Alamo Road take right fork marked Black Diamond Road toward Stovall; go 1.2 miles. Turn right on Mine Road; proceed 2.4 miles to property.

5. OWNER OR OPERATOR: J. R. Saunders  
 ADDRESS: Wenden, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Scintillator III      BG .02 mr/hr  
    High .15 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Rolling "badlands" topography with low hills and shallow washes.

B. Highly irregular lenticular beds of arkose, ash, sand and mud with basalt flow cap on ridges to the south. Various degrees of sorting and consolidation were noted. Some silicified wood was found.

C. Very thin coatings of carnotite are visible on fracture surfaces.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 16, 1952

DISTRICT Wallapai Mining District

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY Tub claim, Golconda

mine, Mexican mine

LOCATION:

SEC. 5 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

4. DIRECTIONS TO DEPOSIT: Go 13 miles northwest of Kingman, Arizona; turn northeast off Highway 93. Follow dirt road; pass Kay Ranch and turn into canyon 5 miles after leaving Highway 93.

5. OWNER OR OPERATOR: John Sherman Bagg  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: No anomalous radioactivity found on dumps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Precambrian schist shear zone; sphalerite, chalcopyrite, galena, quartz.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 14, 1952

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
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Bluestone	# 3 claim	Chem.
F-2976	Grab	Au, Ag, Cu, Zn, Pb

DISTRICT \_\_\_\_\_

NEAREST TOWN Signal, ArizonaPROPERTY Bluestone claim  
Lead Pill claimLOCATION:  
SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
Radiometric surface

4. DIRECTIONS TO DEPOSIT: About 4 miles southwest of Artillery Mountains manganese deposits

5. OWNER OR OPERATOR: A. N. Blicfeldt  
ADDRESS: Yucca, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Dumps checked - negative

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Precambrian schist shear zone,  $\text{CuO}_x$  stains.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. Holen, C. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED November 23, 1954

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
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NEAREST TOWN Fredonia

%  $eU_3O_8$

PROPERTY Mustang claims

F-1314	Grip 8°	0.013
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LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

## 3. TYPE OF EXAMINATION:

Radiometric

4. DIRECTIONS TO DEPOSIT: Take Pipe Springs road from Fredonia; take first turn to left (Grand Canyon National Monument Road) for approximately 40 miles. Prospect is at head of Hack's Canyon wash on Heaton-Finley Reservoir road.

5. OWNER OR OPERATOR: F. Morse Heaton, et al.  
 ADDRESS: Kanab, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: No radioactivity could be noted on scintillator or counter. Owner had radiometric assay run by AEC which ran 0.05%  $eU_3O_8$ . A chemical assay made by a private firm ran 0.04%  $cU_3O_8$ .

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gently rolling plain.

B. Sample came from 15' cuesta ridge of well-cemented Shinarump conglomerate and coarse sandstone.

C. No mineralization noted.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. Scott, L. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 7-20-54

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY
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NEAREST TOWN Fredonia, Arizona

PROPERTY Little Three #1 - group of 8

## LOCATION:

SEC. 6 T. 39 N. R. 3 W.

## 3. TYPE OF EXAMINATION:

Surface examination of outcrops

4. DIRECTIONS TO DEPOSIT: Go west on Pipe Springs road to Hack's Canyon road; turn south. Deposit is 16 miles from Fredonia, 1/2 mile east of road.

5. OWNER OR OPERATOR: Ralph Button, S. Button, M. Button, Wanda Button,  
 ADDRESS: Fredonia, Arizona  
 S. E. Johnston and E. R. Johnston  
 Kanab, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: B. G. - .05 mr/hr                      Halross - B. G. 10 cps  
 Top - 1.0 mr/hr    Top 500 cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Deposit along edge of ravine.

B. Brown, medium-to fine-grained sandstone and shales in the lower Moenkopi.

C. Some stringers and pockets of carbonaceous material; also fair copper showing.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. Holen and D. Tagg 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED \_\_\_\_\_

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU <sub>3</sub> O <sub>8</sub>	% cU <sub>3</sub> O <sub>8</sub>
A1682	Grab	0.53	0.518

NEAREST TOWN Kanab, Utah

PROPERTY Lease on Kaibab (Piute)  
Indian Reservation

LOCATION:  
 SEC. 6 ? T. 41 N. R. 3 W.

3. TYPE OF EXAMINATION:  
 Radiometric examination of outcrops

4. DIRECTIONS TO DEPOSIT: Take Pipe Springs National Monument road from Fredonia for 2.2 miles; turn right and follow indistinct jeep road to prospect near the base of the Vermillion cliffs (guide required).

5. OWNER OR OPERATOR: Verdi Development Corp.  
 ADDRESS: Hollywood, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 One small hand-dug pit

7. RADIOACTIVITY: B.G. - 0.02 mr/hr - Detectron Counter  
 High - 1.0 mr/hr  
 B.G. - 18 cps - Halross model 939 scintillometer  
 High - 150 cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

- A. Intricate system of low knolls, ridges and dry washes at the base of the Vermillion cliffs.
- B. Mineral occurrence is in the Petrified Forest member of the Chinle formation.
- C. Small nodules and seams of yellow uranium mineral in pink to white gypsum. Minor radioactivity from yellow uranium mineral associated with silicified logs. Also some sooty black material in the gypsum that is quite radioactive. A  $\pm$  1 - foot bed of white anhydrite and gypsum crops out on the opposite side of a narrow ridge from the prospect. No radioactivity associated with this outcrop although it may be the same bed.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. Scott, L. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 7-22-54

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Fredonia, Arizona

PROPERTY Radon # 6 and 7 claims

## LOCATION:

SEC. 22 T. 40 N. R. 6 W.

## 3. TYPE OF EXAMINATION:

Surface examination of outcrops

4. DIRECTIONS TO DEPOSIT: Approx. ten miles west of Pipe Springs, north of road on what is known as Cedar Ridge

5. OWNER OR OPERATOR: E. L. Gardner and Edward Mihen  
 ADDRESS: 450 Canobia Avenue,  
 Whittier, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Some bulldozer trenches

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Fairly flat ridge running north and south.

B. Probably Shinarump conglomerate.

C. Well-silicified logs present; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. L. Reyner 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 12/7/54

DISTRICT Lost Basin

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
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NEAREST TOWN Chloride

		% eU <sub>3</sub> O <sub>8</sub>
A-2805	Biotite granite 4'	0.009
A-2806	Select sample	0.533
A-2807	Select sample	0.007
A-2808	Coarse allanite(?) blebs in pegmatite 5	0.015

PROPERTY Hillside group and Quartz  
Mountain group (about 15 claims)

LOCATION:

SEC. 10, 14 T. 28 N. R. 16 W.

3. TYPE OF EXAMINATION:  
Surface radiometric

4. DIRECTIONS TO DEPOSIT: Drive north from Kingman about 40 mi. on Highway 93 to Pierce Ferry turnoff; take Pierce Ferry Road to a point 4.5 miles beyond Hualapai Wash or Red Lake. Turn right and follow dirt road to the end. Can be reached in passenger car.

5. OWNER OR OPERATOR: Bill Ayers and Frank Dennis  
 ADDRESS: P. O. Box 811  
 Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: New discovery; no workings except a few pits for discovery work

7. RADIOACTIVITY: Typical of pegmatite deposits

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Deposits lie on the south slope of rugged hills.

B. Gneisses and schists cut by granites and numerous pegmatites. The deposits are all associated with pegmatites. The best showing consists of allanite (?) in small pods and disseminations extending for a few hundred feet along the footwall of a quartz zone in a pegmatite dike. The allanite-bearing zone is about 5' wide. Some small pods of polycrase, euxenite and monazite are also present.

C. Typical pegmatite minerals.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 19, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER    TYPE AND WIDTH    RADIOACTIVITY

NEAREST TOWN Chloride

Payroll, Redemption, Mary Bell, Clyde,  
 PROPERTY New Deal, West Virginia

Rainbow, Lucky Boy, Brighter Star, Samoa  
 LOCATION:

SEC. 1-6 T. 23 N. R. 18-17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Three to four miles east from Chloride

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep west-facing slopes easily accessible by good roads.

B. Fissure-filled hydrothermal veins.

C. Quartz, sphalerite, galena, chalcopryrite, pyrite, gold, silver, limonite;  
 no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 19, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY Merrimac, Jackpot, G. R.  
Mine, Juno, Silver Hill

LOCATION:

SEC. 31, 32 T. 23,24 N.R. 18 W.  
4, 5

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: One mile west from Chloride

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle rolling slopes, easily accessible.

B. Fissure-filled veins.

C. Quartz, sphalerite, galena, silver, gold, pyrite, carbonates, limonite;  
 no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. Holen and C. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED December 4, 1954

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
		% eU <sub>3</sub> O <sub>8</sub>

F 1322	6' Channel	0.010
--------	------------	-------

F 1323	Select (carbonaceous trash)	0.015
--------	-----------------------------	-------

NEAREST TOWN Short Creek, Arizona

PROPERTY Iris claims

LOCATION:

SEC. 4 T. 38 N. R. 6 W.

## 3. TYPE OF EXAMINATION:

Radiometric

4. DIRECTIONS TO DEPOSIT: 10 miles southeast of Short Creek, Arizona, at Yellowstone Springs

5. OWNER OR OPERATOR: D. C. Covington  
 ADDRESS: Short Creek, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: A few hand dug pits and two short (less than 10') tunnels

7. RADIOACTIVITY: B. G. - .007 mr/hr  
 High - .130 mr/hr (in tunnel in Shinarump conglomerates)

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Low Shinarump cliffs and flat-topped mesas.

B. Shinarump and Moenkopi formations - apparently faulted on east side of prospect. Radioactivity is associated with carbonaceous material in a pebble conglomerate of the Shinarump.

C. No uranium minerals noted. A very irregular, more or less flat-lying vein of fine-grained galena is found in the Moenkopi (red shale) near the Moenkopi-Shinarump contact. Owner said he got an assay of 1.5% Pb.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. L. Reyner, W. R. Ashwill 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1/27/55

DISTRICT Hualapai Indian Reservation

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
		% eU <sub>3</sub> O <sub>8</sub>

NEAREST TOWN Peach Spring

A-2679	Select	0.112
Taxpayer	"	0.20

PROPERTY H.E.C. prospect

LOCATION:

SEC. 25-26 T. 26 N. R. 11 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go north from Peach Springs past airport and sawmill and springs; follow main dirt road down a wash for a total of 7 miles from Peach Springs. Turn right onto rough bulldozed track and go 1 mile to the deposit. Four-wheel drive vehicle is necessary.

5. OWNER OR OPERATOR: H. E. C. Company  
 ADDRESS: c/o Economy Pest Control  
 2108 W. Washington  
 Yakima, Washington

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Discovered by operators with scintillation counter mounted on a helicopter. A small amount of bulldozing and hand trenching performed.

7. RADIOACTIVITY: An area about 1/2 mile wide and over a mile long exhibits an abnormally high background. With normal background of 20 cps on Halross scintillometer, the area averages about 50 to 80 cps with up to 1200 cps.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Typical badlands topography. Deposit lies 10 miles south of the Colorado River in deeply dissected terrain.

B. Covering the high-background area are pebbles, cobbles and boulders that seem to be residual from the underlying conglomerate and cross-bedded sandstone which contains some silicified logs and wood fragments and is typical Shinarump conglomerate in appearance. The rimrock on all sides of this area is Redwall (Mississippian) limestone. Deposit lies about 1 mile west of Hurricane fault. There is abundant evidence of faulting along the southeast side of the high-background area, and this area may represent a down-dropped block. However, it appears to lie on the Bright Angel shale of Cambrian age, and it is possibly a Tertiary conglomerate. The best showing seems to be only a few feet long and 2' - 3' thick, but a very limited amount of work has been done.

C. No uranium minerals were recognized. Uranium is associated with limonite and hematite. A few scattered pieces of carbonized wood showed high radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY W. R. Ashwill, M. L. Reyner 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 11/23/54, 1/4/55

DISTRICT Artillery Mountains - Owens

1. SAMPLES		%U308	%C308
NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
A-2867	Select	0.306	
A-2868	Select	0.135	
A-2871	1.5-foot chip	0.058	
A-2872	2.3-foot chip	0.021	
A-2978		0.185	
F-0218	Select	0.146	0.044*
F-0298	Select	0.180	0.024*
F-0299	Select	0.220	0.044
I-00650		0.110	0.048*

NEAREST TOWN Signal

PROPERTY White Owl 1-3, Grey Boy 1-6

LOCATION:

SEC. \_\_\_\_\_ T. 13 N. R. 14 W.

3. TYPE OF EXAMINATION: Surface radiometric

\* Contains thorium

4. DIRECTIONS TO DEPOSIT:

Leave Signal on the Signal-Alamo Crossing road; go about 9 miles to the Bland windmills. The claims start just south of the windmills, extending northeast for nearly 1 mile.

5. OWNER OR OPERATOR: M. W. Taylor and associates  
 ADDRESS: 2401 West Indian School Road  
Phoenix, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Located in 1954; no previous mining; the workings consist of prospect and discovery pits.

7. RADIOACTIVITY: Halross 939 - Background 20 to 40 cps on gravels; 70 to 100 cps on granite; maximum 900 to 1000 cps in discovery pit

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Low-lying weathered knolls in a broad basin bounded on the east, south and west by high ridges and peaks.

B. Precambrian schist and granite intruded by a pink, coarse-grained granite. The pink granite contains pegmatite and basic dikes. Radioactivity is associated with pegmatite dikes and fault zones in the granite. The fault zones contain fluorite, chalcedonic quartz and calcite. There also are some limestone and quartzite float and some Artillery Peak (?) formation in place.

C. Quartz, feldspar, mica, limonite, fluorite, calcite, fine-grained, gray chalcedonic quartz.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. L. Reyner, W. R. Ashwill 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1/26/55

1. SAMPLES

<u>NUMBER</u>	<u>TYPE</u>	<u>AND WIDTH</u>	<u>RADIOACTIVITY</u>
---------------	-------------	------------------	----------------------

DISTRICT Conttonwood CliffsNEAREST TOWN ValentinePROPERTY Blazing Star group  
(12 claims)

LOCATION:

SEC. \_\_\_\_\_ T. 21 N. R. 13 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go south from Valentine on good graded road which joins State Highway 93. Continue south on Highway 93 for a total distance of 16 miles from Valentine. Claims are situated about 1/4 mile west of highway on granite outcrop.
5. OWNER OR OPERATOR: William Tucker, Route #1, Box 214, Perris, California  
 ADDRESS: F. M. Beatty, Box 124, Perris, California and associates
6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Discovered late in 1954 - no production; one small prospect pit about 8' deep.
7. RADIOACTIVITY: Weak anomalous radioactivity over a large area of pre-Cambrian (?) granite. With normal background over average granite of 50 cps on Halross, the readings averaged about 175 cps to 200 cps over an area of a few acres. A few local spots read up to 1200 cps. Concentrations of black sand in washes read 500 to 600 cps.
8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):
- Low-rounded granite hills along west side of wide valley of the Big Sandy River.
  - Granite is probably pre-Cambrian. Radioactivity is probably due to abnormal concentrations of accessory minerals. Granite varies in color from grey to red, and both types show anomalous radioactivity. The highest readings were obtained where the granite is soft and weathers more readily. Minor amounts of fluorite are present here. No substantial structures were observed although the granite is strongly jointed.
  - No radioactive minerals were recognized. Suspect that the anomalous radioactivity is due to allanite or a similar refractory mineral. A little fluorite is present.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Earl N. King 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 7/23/55

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
--------	----------------	---------------

NEAREST TOWN Mesquite, Nevada

% eU<sub>3</sub>O<sub>8</sub>

PROPERTY Sunset Group No. 1-20

F-1290            Select                            0.018

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface

4. DIRECTIONS TO DEPOSIT: Contact property owner at Mesquite, Nevada; property located just northeast of Mesquite in Arizona

5. OWNER OR OPERATOR: Albert Whorton Box 417, Mesquite, Nevada  
 ADDRESS: J. H. Rutter, 1726 Yalecrest Avenue, Salt Lake City, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 New prospect

7. RADIOACTIVITY: B. G. 0.03 mr/hr  
 High 0.08 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Steep barren slopes of Tertiary sediments cut by Beaver Dam wash. Unidentified yellow uranium mineral, MnO<sub>x</sub>, FeO<sub>x</sub>.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY L. L. Olsen, M. S. Papulak 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 11/1/55

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
		% eU <sub>3</sub> O <sub>8</sub>
	Select	.02

NEAREST TOWN Littlefield

PROPERTY Wharton property  
(20 claims)

LOCATION:  
 SEC. \_\_\_\_\_ T. 40 N. R. 16 W.

## 3. TYPE OF EXAMINATION:

Surface reconnaissance and radiometric

4. DIRECTIONS TO DEPOSIT: Take U. S. Highway 91 northeast from Mesquite, Nevada, for 7 miles. Turn left (west) and continue for 1.5 miles to prospect.

5. OWNER OR OPERATOR: Donald, Cliff, Thomas and Albert Wharton  
 ADDRESS: Mesquite, Nevada

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Two small prospect pits

7. RADIOACTIVITY: B. G. - .02 mr/hr  
 High - .20 mr/hr (fracture coatings)

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Broad valley west of the Virgin Mountains.

B. Carnotite (?) is associated with small fractures in the Muddy Creek formation (Tertiary). The Muddy Creek formation consists largely of flat-lying, well-sorted clays, silts and sands. The highest radioactive count was mostly associated with fracture coatings in the clays; however, there was abnormal radioactivity in the silts and sands.

C. Carnotite (?), gypsum and MnO<sub>x</sub>.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O.M. Hart, D. L. Hetland  
 DATE(S) EXAMINED February 19, 1953

2. STATE Arizona COUNTY Mohave

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Chloride,

PROPERTY Gross Copper Prospect,  
Gross molybdenite prospects

LOCATION: and Turquoise mines around \*  
 SEC. 13 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION: \* Ithica Peak  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Six miles south from Chloride

5. OWNER OR OPERATOR: John Gross  
 ADDRESS: Chloride, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

- A. Gentle to steep slopes accessible by jeep roads.
- B. Fissure-filled veins, copper mineralization in granite porphyry, and fractures filling with turquoise.
- C. Chalcopyrite, other Cu minerals, Mn mineral, turquoise; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED Dec. 23, 1953  
Jan. 2, 1954 DISTRICT San Francisco  
 1. SAMPLES  
NUMBER TYPE AND WIDTH RADIOACTIVITY NEAREST TOWN Oatman  
 PROPERTY All development in the district  
 LOCATION:  
 SEC. \_\_\_\_\_ T. 18-20 N. R. 20, 21 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: 21 miles southwest from Kingman on old US 66 Highway

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: District has been a heavy gold producer up to 1942 at which time all properties then operating were closed pursuant to government (Federal) order.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. All mining property lies on the west slope of Black Mountains in gentle to moderately steep topography.

B. Gold-silver in quartz-calcite veins of northwesterly strike in predominantly andesite.

C. Gold, silver, quartz, calcite, adularia; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 24, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU	% U
F-8104	Chip	0.031	0.001

NEAREST TOWN Kingman, Arizona

PROPERTY Mam mouth No. 1 (formerly called the Jamison)

LOCATION:  
 SEC. 31 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Nine miles northwest from Kingman on US 93 turn east on road to Summit mine; mine is six miles from the highway.

5. OWNER OR OPERATOR: Melvin B. Maxwell - Chloride, Arizona  
 ADDRESS: Bernice Beer Dietrich - Chloride, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Adit, two shafts and several surface pits

7. RADIOACTIVITY: No radioactivity on the underground development detected; basic dike outcropping on this property recorded 600 cps, background 35 cps.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep south slope of deep canyon; easily accessible.

B. Veins are quartz-and gouge-filled fault fissures. Basic dike strikes about N. 70° W. and intersects the granite (Bronco) dike near the adit site. Dike is 5'+ in width, is paralleled by a rhyolite dike and small pegmatites.

C. Quartz, galena, sphalerite, hematite and limonite in the vein matter. Dike - ferromagnesian minerals and plagioclase feldspar.



PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED \_\_\_\_\_

1. SAMPLES  
NUMBER TYPE AND WIDTH RADIOACTIVITY

DISTRICT Black Mountains

NEAREST TOWN Kingman

PROPERTY All development in area

LOCATION:  
 SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION: Radiometric,  
 geologic (?) and surface

4. DIRECTIONS TO DEPOSIT: Take any road west from U. S. 93 north to Boulder Dam;  
 see map.

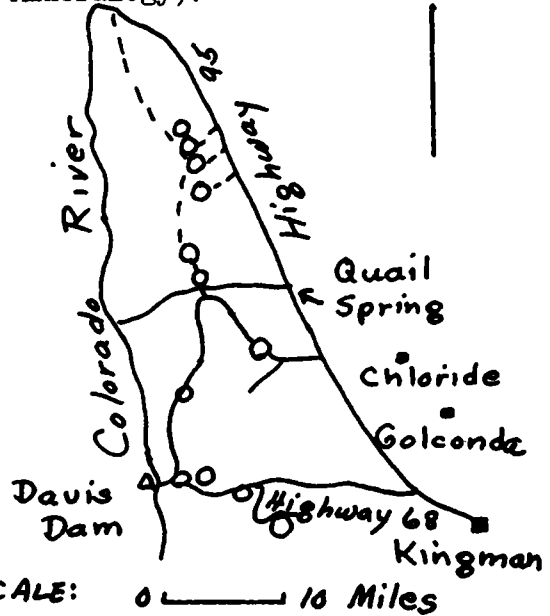
5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Area has gold mines first  
 developed in 1860's; production unknown; many shafts, adits and trenches; only  
 production is gold with a little silver.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

- A. Steep mountains with cliffs and broad detrital fans miles wide and long truncated by large washes.
- B. Precambrian granite gneiss and schist locally exposed in lower slopes and bottoms of canyons, capped by Tertiary andesite, trachyte, tuffs, latite and basalt with large rhyolite and basic dikes intruding all formations. Perlite beds are common.
- C. Veins are quartz-calcite gold-bearing type; insignificant radioactivity.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. Scott and L. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 7-20-54

DISTRICT \_\_\_\_\_

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Fredonia, Arizona

PROPERTY Fredonia #1 - group of 3

LOCATION:

SEC. 7 T. 39 N. R. 3 W.

## 3. TYPE OF EXAMINATION:

Surface examination of outcrops

4. DIRECTIONS TO DEPOSIT: 16 miles from Fredonia, Arizona, west on Pipe Springs road;  
 south on Hack's Canyon road, 1/2 mile east of main road to deposit

5. OWNER OR OPERATOR: Ralph Button, W. C. Judd, Merrill Sutton  
 ADDRESS: Fredonia, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: El- Tronics - B. G. - .05 mr/hr                      Halross - B. G. 15 cps  
                          Top - .20 mr/hr    High 60 cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Deposit along edge of ravine.

B. Brown, medium- to fine-grained sandstone and shales in the lower Moenkopi.

C. Some stringers and packets of carbonaceous material. Some fair copper showing.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 11, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU <sub>3</sub> O <sub>8</sub>	% cU <sub>3</sub> O <sub>8</sub>
F-8154	Chip	0.096	0.063

NEAREST TOWN Kingman, Arizona

PROPERTY Frontier, Frontier #2

LOCATION:

SEC. 18 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Thirteen miles northwest from Kingman in Cerbat Canyon; mine is due south of the Idaho Gem mine near the mouth of Cerbat Canyon.

5. OWNER OR OPERATOR: Edwin White  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: History and production unknown; several short drifts, pits and surface trenches; two 250' drifts and cross cut with little stoping along them.

7. RADIOACTIVITY: Scintillometer recorded 600 cps on quartz vein with much hematite at the Frontier #2 claim at the face of the drift; 500 cps on schist near pegmatite in the drift on the Frontier claim. Background was 40 cps.

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle south slope near the mouth of Cerbat Canyon; easily accessible.

B. Quartz vein along fault fissure paralleled by pegmatite, with highest radioactivity in the schist in the footwall at the Frontier claim. Quartz vein in fault through pre-Cambrian gneiss and schist carrying much hematite, some manganese and limonite. Gold-silver vein at the Frontier #2 claim.

C. Quartz, hematite, manganese, copper stain, pyrite, limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Earl N. King  
 DATE(S) EXAMINED February 8, 1955

2. STATE Arizona COUNTY Mohave  
 DISTRICT \_\_\_\_\_

1. SAMPLES		Percent	
NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		U308	cU308
F-1367	Grab	0.02	0.026

NEAREST TOWN Little field, Arizona

PROPERTY Dreamer Nos. 1-39

LOCATION:

SEC. 21 T. 41 N. R. 16 W.

3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: From St. George take U. S. 91 to Littlefield, Arizona. At top of dugway near Littlefield take road turning right. Continue on main traveled road 9.7 miles to claims.

5. OWNER OR OPERATOR: James N. Gottfridson  
 ADDRESS: Caliente, Nevada

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 History - new prospect; workings - small prospect pit

7. RADIOACTIVITY: B.G. - 0.03 mr/hr  
 High - 0.15 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Fairly deep wash cutting Tertiary sediments.

B. Tertiary sediments, mainly sandstones.

C. Yellow uranium mineral, probably carnotite, occurring along fracture planes in the sandstone.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY L. L. Olsen, M. S. Papulak 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1/26/56

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

DISTRICT \_\_\_\_\_

NEAREST TOWN St. George, UtahPROPERTY Windy Jim claims

LOCATION: Unsurveyed

SEC. 6(?) T. 41 N. R. 9 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Take Utah Highway 64 south from St. George AEC office for 3.0 miles; turn left at Virgin River bridge and proceed for 2.2 mi. Go left for 1.2 miles; then right for 0.3 mi. Go right for 1.5 mi.; then right for 4.6 miles. Go right at gate for 4.6 miles; then right at second gate for 1.1 miles. Go right for 1.6 mi. to property.

5. OWNER OR OPERATOR: J. P. Leavitt  
 ADDRESS: St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 20-ft. adit; some dozer work

7. RADIOACTIVITY: B.G. - .01 mr/hr PR 111 scintillometer  
 High - .01 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. East slope of a basal-capped mesa.

B. The claims are located near a north-south-trending fault contact of the Permian Kaibab limestone and the Triassic Moenkopi formation. A few pieces of slightly radioactive, well-sorted, copper stained conglomerate to fine-grained sandstone float (Shinarump ?) were observed near the adit and dozer cut. Shinarump was not observed in situ on the property.

C. Chrysocolla, gypsum; no uranium minerals were visible.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY L. L. Olsen 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 7/6/55

DISTRICT \_\_\_\_\_

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN St. George

PROPERTY School section

## LOCATION:

SEC. 16 T. 33 N. R. 11 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go 85 miles south of St. George, on the southern slope of Grass Mountain. Contact owner for guidance.

5. OWNER OR OPERATOR: Melvin Whipple  
 ADDRESS: St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Small prospect pit; little production

7. RADIOACTIVITY: B. G. - 0.05 mr/hr  
 High - 0.12 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Plateau, canyon type.

B. Kaibab(?) limestone - fracture area intersected by a basic dike.

C. FeOx.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 9, 1953

1. SAMPLES		%U	% U
NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
F-8135	Chip	0.016	0.006
F-8136	Chip	0.038	0.024
F-8201	Chip, 1.5'	0.008	0.009
F-8202	Chip, 1.5'	0.023	0.013
F-8203	Chip, 0.5'	0.030	0.077
F-8204	Chip, 1.6'	0.014	0.007
F-8205	Chip, 1.3'	0.007	0.005
F-8206	Chip, 1.0'	0.006	
F-8207	Chip, 2.0'	0.008	
F-8208	Chip 10'	0.006	0.007
F-8209	Chip, 2.0'	0.008	0.008
F-8210	Chip, 3.0'	0.020	
F-8211	Chip. 0.6'	0.093	

DISTRICT WallapaiNEAREST TOWN Kingman, ArizonaPROPERTY Bobtail mine

LOCATION:

SW $\frac{1}{4}$  SEC. 31 T. 23 N. R. 17 W.

3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Twelve miles northwest from Kingman on US 93 turn east on dirt road; proceed for three miles. Mine is one-half mile beyond the Detroit mine on Detroit mine road.
5. OWNER OR OPERATOR: Mr. Ken Kuencer  
 ADDRESS: Kingman, Arizona
6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: History and production unknown; 85' shaft with 200' drift of bottom toward the north; drift 150', several surface trenches and pits.
7. RADIOACTIVITY: 500 counts per second on scintillometer (background 30 cps) on quartz vein carrying sulfides of zinc, copper and lead
8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):
- A. West slope, moderately steep, easily accessible.
- B. Quartz vein striking approximately N. 40° W., dipping near vertical with galena, sphalerite and copper mineralization. Wallrocks are pre-Cambrian gneisses and schists. Vein parallels the banding of the gneiss and schist. Vein is in a fault fissure with much gouge and some breccia.
- C. Quartz, sphalerite, galena, bornite, copper sulfate, pyrite, limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. K. Holen, L. C. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1-10-55

DISTRICT \_\_\_\_\_

1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Short Creek

PROPERTY Langston Ranch

## LOCATION:

SEC. 20 T. 40 N. R. 5 W.

3. TYPE OF EXAMINATION:  
 Radiometric probe of old well

4. DIRECTIONS TO DEPOSIT: Approximately 22 miles west of Fredonia, Arizona, on Fredonia-Pipe Springs road. Well is located near Langston Ranch buildings.

5. OWNER OR OPERATOR: Robert Langston  
 ADDRESS: Hurricane, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

- 7 RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A 66-foot water well was probed at the request of the owner. No significant radioactivity. The well is collared in the Chinle formation and may possibly have intersected the Shinarump.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 24, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU	% U
F-8102	Chip	0.021	0.021

NEAREST TOWN \_\_\_\_\_, Arizona

PROPERTY Cerbat mine

LOCATION:

SEC. 7 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT: Nine miles northwest from Kingman to road into Cerbat Canyon; six miles east from highway to old town of Cerbat. Mine is northwest one-half mile near ridge crest.

5. OWNER OR OPERATOR: F. A. Morrison  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Worked from 1869 to 1906, has produced \$250,000 in gold and silver; 750-foot shaft with some drifting

7. RADIOACTIVITY: Maximum scintillometer reading was 1200 cps (background 30 cps) on a hematite-stained pod of gouge on the footwall of the vein abutting fault breccia, cemented by hematite and quartz. Radioactive pod is small and probably insignificant in occurrence.

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Near ridge crest on the south side of Cerbat Canyon; not accessible by auto.

B. Three-to fifteen-foot quartz- and gouge-filled fault fissure with much fault breccia striking N. 48° W., dipping near vertical. Much hematite is found in the cement of the fault breccia and carries the highest radioactivity. Radioactivity up to 400 cps on the scintillometer was found intermittently along the traceable outcrop of the vein on the surface and was contained in the hematite-cemented fault breccia. Radioactivity of the gouge and quartz was insignificant.

C. Quartz, hematite, galena, sphalerite, gold, and silver.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY A. J. Richards 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED May 25, 1956

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% $eU_3O_8$	% $cU_3O_8$
56565	Taxpayer grab	1.35	1.23

DISTRICT \_\_\_\_\_

NEAREST TOWN KingmanPROPERTY White Cap

LOCATION:  
 SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface geologic and radiometric

4. DIRECTIONS TO DEPOSIT: From junction of Route 93 and Miller Ranch Road, 31 miles northwest of Kingman, proceed north on Miller Ranch Road for 20.9 miles. Turn right and go 1.9 miles; turn left and proceed 2.6 miles. Take right fork and go 1.6 miles.

5. OWNER OR OPERATOR: Lorin Anderson, 319 Water Street, Henderson, Nevada  
 ADDRESS: James Jensen, 110 Silver Street, Henderson, Nevada

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: No previous mining history on these claims; recent work consists of two discovery holes for uranium

7. RADIOACTIVITY: Precision 107C Geiger counter:  
 B. G. 0.03 mr/hr  
 Max. 2.00 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On south slope of foothills at westernmost end of Grand Wash cliffs.

B. Granite pegmatite dike about 20' wide.

C. Euxenite, quartz, feldspar, biotite, hornblende, beryl.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 14, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY Cornwall, Gold Star,  
Katie and Hazel

LOCATION:

SEC. 24 T. 23 N R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Five miles south from Chloride on dirt road into Mineral Park; mines are on the northern perimeter of the park.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Unknown. Shafts and drifts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep south-facing slope. Most of the mine workings are easily accessible.

B. Fissure-filled quartz veins in pre-Cambrian gneiss and schist.

C. Quartz, galena, sphalerite, pyrite, arsenopyrite, limonite, gold and silver; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 14, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER TYPE AND WIDTH RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY Keystone mine

## LOCATION:

NE 1/4 SEC. 24 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Scintillometer, surface

4. DIRECTIONS TO DEPOSIT: Five miles south from Chloride on dirt road in the Mineral Park area.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Shaft with considerable underground development.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle slopes, in Mineral Park on the west flank of the Cerbat Range.

B. Fissure-filled vein of quartz, galena, sphalerite, pyrite, arsenopyrite with little limonite in pre-Cambrian gneiss; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 17, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Eva, Marion and Esther claims,  
White Elephant claim

LOCATION:

SEC. 30 T. 22 N. R. 17 W.

33 traversed

3. TYPE OF EXAMINATION:

Surface and underground radiometric

4. DIRECTIONS TO DEPOSIT: Go 7 miles northwest on U. S. Highway 93 from Kingman, Arizona; turn east at the Flying S Ranch.

5. OWNER OR OPERATOR: Capt. J. E. Stewart (retired)  
 ADDRESS: P. O. Box 790  
 Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: 35-foot drift and 20-foot crosscut five feet below level of the drift.

7. RADIOACTIVITY: Scintillometer recorded 120 cps maximum on the pegmatite.  
 Background: 20 cps  
 Radioactivity negligible

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Mine is located in the low, rolling hills on the southwestern flank of the Cerbat Mountains; easily accessible.

B. Eva mine on the Eva claim is on a eight-foot vertical pegmatite dike which strikes north-northeast. Simple pegmatite with much feldspar, quartz and little white muscovite. Black biotite(?) is moderately abundant but in very small books less than 2". Rare earths are reported by the Bureau of Mines laboratory. Pegmatites in this area may be a possible source of rare earths though low grade. Wall rock is Precambrian gneiss and schist.

C. Feldspar, quartz, biotite, muscovite and rare earths(?) in small quantity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 14, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY Washington, Washington  
Extension and Gold Streak

LOCATION:

NE 1/4 SEC. 24 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Five miles south from Chloride on dirt road; mines are on the north perimeter of Mineral Park.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Shafts and drifts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep south-facing slope. Easily accessible.

B. Fissure-filled quartz veins.

C. Galena, quartz, sphalerite, pyrite, arsenopyrite, limonite, gold and silver; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 16, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Chloride

PROPERTY Azurite lode and nearby  
development

LOCATION:

SEC. 14 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Six miles south from Chloride at the head of a large wash  
 in steep canyon

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Unknown - drifts and crosscuts

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep south-facing slope accessible by jeep road.

B. Fissure-filled vein along the footwall of a large rhyolite dike.

C. Quartz, sphalerite, galena, pyrite, chalcopryite, limonite; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY A. J. Richards 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED May 2, 1956

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU <sub>3</sub> O <sub>8</sub>	% cU <sub>3</sub> O <sub>8</sub>
56870	Taxpayer grab	0.36	0.348

NEAREST TOWN Boulder City, Nevada

PROPERTY Cisco

LOCATION:

SEC. unsurveyed T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface geologic and radiometric

4. DIRECTIONS TO DEPOSIT: From Temple Bar Resort on Lake Mead proceed west toward Bonelli Landing Road for a distance of  $6\frac{1}{2}$  miles. Turn south and proceed  $1\frac{1}{2}$  miles to Leonard Wilson's DAB Claim. Cisco is about 1 mile east of here.

5. OWNER OR OPERATOR: Bartram H. Woodruff  
 ADDRESS: Temple Bar Landing  
Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: No history of previous production from this claim; recent workings consist of a few small discovery trenches and an 18-foot drill hole. About 200 pounds of ore-grade material has been removed from opalized zones in trenches.

7. RADIOACTIVITY: In 80 pounds of opalized material removed from one of the trenches: Precision 107B Geiger counter; Max. 10.0 mr/hr, Ave. 4.0 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On northeast slope of small mesa. Elevation approximately 2000 feet.

B. The radioactivity is associated with opal in small, scattered pockets in a white, friable, tuffaceous limestone. Two opalized pockets, about 150 feet apart, were seen.

C. Carnotite - no other identifiable uranium minerals; opal.





## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 18, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Chloride

PROPERTY Rhea, Neptune, Big Boy and  
nearby developments

LOCATION:

SEC. 14 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
Radiometric surface

4. DIRECTIONS TO DEPOSIT: About five miles south from Chloride on dirt road on the western flank of the Cerbat Range

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle to steep west facing slopes, easily accessible.

B. Fissure-filled veins in pre-Cambrian gneiss and schist.

C. Quartz, sphalerite, galena, pyrite, arsenopyrite, hematite, limonite, gold and silver.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 16, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY Twentieth Century, Pinkham  
and Copper Age

LOCATION:

SEC. 11,14 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Scintillometer surface

4. DIRECTIONS TO DEPOSIT: About three miles south from Chloride

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle to moderately steep slopes easily accessible.

B. Fissure-filled veins striking northwest.

C. Quartz, sphalerite, galena, pyrite, arsenopyrite, chalcopyrite, gold, silver, limonite and very few carbonates.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 14, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Chloride

PROPERTY New Moon, Morning  
White Horse, and nearby developments  
 LOCATION:  
 SEC. 13, 24      T. 23 N.    R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Seven miles south from Chloride on dirt road on the western flank of the Cerbat Mountains: turn east into Mineral Park.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle to moderatley steep slopes, easily accessible.

B. Fissure-filled veins in pre-Cambrian gneiss and schists.

C. Sphalerite, galena, pyrite, arsenopyrite, quartz, hematite, limonite, few carbonates; no radioactivity.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED Feb. 15, March 5, 1954

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Hackberry

PROPERTY Various

LOCATION: East-central part of county  
 SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION: Radiometric traverse on all roads and on all mine development

4. DIRECTIONS TO DEPOSIT: Area includes that south of Highway 66 from Kingman, east to Mohave County line, east of Arizona 93 as far south as Burro Creek.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Williams tungsten mine is the only operating property in the area. Gold and silver mines with small development are located throughout the area - small past production. Edward Edgerton has a pegmatite which is mined for beryl and rare-earth minerals, and is located a few miles northeast of Wickieup.

7. RADIOACTIVITY:

Edgerton pegmatite showed only slight radioactivity; all production from this deposit has been beryl, bismuth, monazite and Ce, La, Si rare-earth minerals.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep and rugged, dissected by many canyons.

B. Precambrian granite gneiss overlain by Tertiary and Cretaceous volcanics; it has many simple pegmatites intruded along the gneissic banding.

C. Tungsten minerals, gold, silver and copper minerals.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 14, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Chloride, Arizona

PROPERTY Copper, Ostrich, Home Pastime

LOCATION:

NE $\frac{1}{4}$  SEC. 24 T. 23 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Five miles south from Chloride on dirt road to Mineral Park; mines are south and east of the Keystone mill.

5. OWNER OR OPERATOR: Copper Ostrich owned by  
 ADDRESS: Jim Kay  
 Chloride, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Near bottom of large wash in Mineral Park; easily accessible.

B. Quartz veins in fissure-type veins.

C. Quartz, galena, sphalerite, pyrite, arsenopyrite, gypsum?, limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. L. Reyner, R. L. Robison 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED March 7, 1956

DISTRICT Artillery Mountains

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU <sub>3</sub> O <sub>8</sub>	% cU <sub>3</sub> O <sub>8</sub>
A-12071	2' chip	.08	0.10

NEAREST TOWN Signal

PROPERTY Masterson group (10 claims)

LOCATION:

SEC. 22 T. 12 N. R. 13 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: From Brown's Crossing follow new Signal road northwest for 5.4 miles. Turn right on private road and go 0.7 mile to property.

5. OWNER OR OPERATOR: B. J. Masterson and L. M. Burrows  
 ADDRESS: Box 167  
Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Three small prospect pits and four wagon drill holes.

7. RADIOACTIVITY: El Tronics counter  
B. G. .03 mr/hr  
Max. 1.20 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Parallel east-west ridges and narrow steepwalled washes in Artillery Mountains.

B. Limestone and mudstone beds of the Eocene (?) Artillery formation striking east-west, dipping from 30° - 40° S. Radioactive bed is approximately 100' above Precambrian granite and can be traced for several hundred feet with minor offsets due to small cross faults. Mineralized bed is 1 to 2 feet thick and contains some carbonaceous material. A few palm-type fragments were noted.

C. No uranium minerals were observed; some limonite is present. The radioactive zone appears bleached and may be sheared.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 24, 1953

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU	% U

F-8103	Chip	0.023	0.045
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NEAREST TOWN Kingman, Arizona

PROPERTY Gold Nugget

LOCATION:

SEC. 7 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
Radiometric surface

4. DIRECTIONS TO DEPOSIT: Mine is one-half mile north of the Columbus mine in Cerbat Canyon 15 miles northwest from Kingman, Arizona.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Vertical shaft and some surface trenching; probably considerable underground development.

7. RADIOACTIVITY: Maximum scintillometer reading 525 cps, background 30 cps  
Maximum count came from small pile of ore on dump. Average reading on the dump was 150 cps.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Crest of ridge on the north side of Cerbat Canyon. Nearest road is one-half mile to the south and approximately 600' below mine level.

B. Quartz- and gouge-filled fault fissure striking N. 10° W., dipping 86° W.  
Wallrock is pre-Cambrian gneiss and schist.

C. Quartz, galena, sphalerite, chalcopryrite, copper sulfate, gold, silver, hematite and limonite.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King, J. G. Henderson 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 3/18/53

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
		%eU308
3953	Grab	14.1%
3954	Hanging wall	0.75%
3955		0.54%
3956		0.13%

DISTRICT \_\_\_\_\_

NEAREST TOWN St. George, UtahPROPERTY Copper Mountain mine

LOCATION:

SEC. \_\_\_\_\_ T. 32 N. R. 10 W. (?)

Chemical assays have not yet been  
 received from the Denver Laboratory.

## 3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: From St. George, Utah, follow highway 64 south and turn right on a fork approximately 15 miles before reaching Mt. Trumbull. Follow this fork through Box Canyon about 30 miles. Distance from St. George is approximately 100 miles.

5. OWNER OR OPERATOR: James Wulfenstein and Brothers  
 ADDRESS: 172 E. 3rd South, St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 An old copper producer - production unknown; workings shaft 210 feet deep and old stopes

7. RADIOACTIVITY: Background 30 cps - High at water table - 4750 cps

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gently sloping valley floor cut by deep wash (600' approximately).  
 Evidence of faulting, fracturing and leaching.

B. Brecciated zones in gently dipping Supai sandstone.

C. Chalcocite, malachite and unidentified radioactive minerals at the bottom of the mine; 210 feet below surface.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1-17-56

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
		${}^{\%}\text{eU308}$
A-12159-1	Chip	.05
A-12159-2	Grab	.07

DISTRICT Artillery MountainsNEAREST TOWN StovallPROPERTY Candy Bar groupLOCATION: Unsurveyed  
SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Where Stovall Road crosses the Bill Williams River turn up river on jeep road. At junction of Santa Maria and Big Sandy take left fork up Big Sandy. Follow for 6.3 miles to property.

5. OWNER OR OPERATOR: J. R. Saunders  
 ADDRESS: Wenden, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 One small (10') adit

7. RADIOACTIVITY: B.G. .02 mr/hr  
 High .90 mr/hr Scintillator III

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Sharp high ridges with steep north slope and more gentle south slope; deep narrow canyons.

B. Bedded mudstones and sandstones overlain by red volcanic flow rock and underlain by red conglomerate. A repetition of beds is evident from one wash to the next indicating step faulting. Radioactive beds of 3' and 5" were noted and could be followed for several hundred yards laterally. Area is highly faulted.

C. No uranium mineral was evident.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robinson 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1-19-56

DISTRICT Artillery Mountains

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
		% eU <sub>3</sub> O <sub>8</sub>
A-12160	Select	.02

NEAREST TOWN Stovall

PROPERTY Lucky Four property  
42 claims

LOCATION:  
 SEC. Unsurveyed T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: At western edge of Stovall camp near Alamo take right fork; go 1.0 mile and take right fork. Go 2.5 miles farther bearing left at next three forks; turn right on private jeep road and proceed 1.0 mile to property.

5. OWNER OR OPERATOR: James Dollarhide - Clifford Dollarhide - R. T. Fussell  
 ADDRESS: Roy MacDonald  
 Box 242, Congress Junction, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Thirteen dozer cuts on ore horizon and location cuts

## 7. RADIOACTIVITY:

Scintillator III B.G. .01 mr/hr  
 High .15 mr/hr

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Basin between two high mountains moderately high, steep sloped ridges between deep, narrow washes.

B. 5' carbonaceous bed in mudstone-limestone series beneath a thrust sheet of gneiss. Can be traced laterally for approximately 1 mile with abundant faulting on either end. Uranium minerals occur as thin secondary coatings on fractures of siliceous material and limestone

C. Thin coating of tyuyamunite and carnotite on fractures.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 14, 1952

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

DISTRICT \_\_\_\_\_

NEAREST TOWN Signal, ArizonaPROPERTY Wilcox mine

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

## 3. TYPE OF EXAMINATION:

Radiometric

4. DIRECTIONS TO DEPOSIT: About 6 miles southwest of Artillery Mountains manganese

5. OWNER OR OPERATOR: Tom Rogers  
 ADDRESS: Signal, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Dumps checked - negative

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Precambrian; CuO<sub>x</sub>.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Harry E. Nelson 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED September 28, 1954

DISTRICT Minnesota

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU <sub>3</sub> O <sub>8</sub>	% cU <sub>3</sub> O <sub>8</sub>
100198	Chip - 1/2'	.03	.015

NEAREST TOWN Boulder City, Nevada

PROPERTY Jessie Belle Nos. 2,3,4

## LOCATION:

SEC. 31 T. 29 N. R. 21 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go 11.2 miles east of Hoover Dam on US 93; turn left (north) go 0.2 mile on dirt road.

5. OWNER OR OPERATOR: A. S. Warner (36%) 615 North E., Las Vegas, Nevada  
 ADDRESS: T. D. Robinson (33 1/3%), 607 Bridger Avenue, Las Vegas, Nevada  
 C. V. Dudrey (30 2/3), 1701 South 5th Street, Las Vegas, Nevada

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: B. G. 0.025 mr/hr Scintillator #111  
 High 0.60 mr/hr  
 Average 0.05 to 0.10 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Southwest flank of Black Mountains 2192 ft. elevation  
 2722 ft. elevation top pit.

B. Precambrian schist and gneiss with basic and pegmatitic dikes zone 100' wide  
 100' long, 20' thick on claim #3.

C. No visible uranium minerals.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 2/25/54

DISTRICT San Francisco

## 1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman

PROPERTY Secret Pass area

## LOCATION:

SEC. 6,7,8 T. 20 N. R. 20 W.

3. TYPE OF EXAMINATION:  
 Radiometric and geologic  
 surface and underground

4. DIRECTIONS TO DEPOSIT: Go 6 miles south of Union Pass on right-of-way road of the Davis Dam-Prescott power line.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Small production on gold veins

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep and very rugged.

B. Gold-bearing quartz-calcite veins in Tertiary volcanics.

C. Quartz-calcite veins-gold, silver, fluorite veins.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart and 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED D. L. Hetland  
January 22, 1953

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

DISTRICT WallapaiNEAREST TOWN Kingman, ArizonaPROPERTY Bunker Hill mine and all  
workings west to the Mohawk mine

LOCATION:

SEC. 6 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface

4. DIRECTIONS TO DEPOSIT:                      miles northwest from Kingman, Arizona, on U. S. Highway 92, turn east and go up Colconda road to large tailings dump on south side of the road. Then            south over the ridge.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Workings consist of two drifts and some stoping.

7. RADIOACTIVITY: Maximum scintillometer reading 90 cps; background 40 cps  
Radioactivity insignificant.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. On south slope of steep ridge near crest; inaccessible by road

B. Quartz and gouge-filled fissure fault striking N. 70° W., dipping 70° N. Vein is 1' to 3' wide with heavy bleaching and alteration bordering both sides of vein. Footwall alteration more broad than that on hanging wall. Little pyrite and hematite occur as small pods in quartz.

C. Quartz, gold, silver(?), hematite, limonite, little pyrite, slight copper stain.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 9/30/55

DISTRICT Greenwood

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
		$\%eU_3O_8$

NEAREST TOWN Wikieup

A-3689-1 Select 0.07

PROPERTY Madrill and Leival claims

A-3689-2 Select (samarskite) 8.0

LOCATION:

SEC. 29 T. 14 N. R. 12 W.

## 3. TYPE OF EXAMINATION:

Surface radiometric

4. DIRECTIONS TO DEPOSIT: From Wikieup go south on Highway 93 approximately 9 miles; turn right on Signal Road for 7.9 miles. Turn left and go 1.4 mile to ranch; follow jeep road 2.8 miles to property.

5. OWNER OR OPERATOR: R. J. Fitzpatrick  
 ADDRESS: 9034 South Budlong Avenue  
 Los Angeles 44, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Previously mined for tungsten - one 100' adit and seven prospect pits

7. RADIOACTIVITY: B. G. 0.03 mr/hr  
 Ma<sub>2</sub> 1.20 mr/hr

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Very rough mountainous terrain.

B. Several large pegmatite dikes trending northeast-southwest through pre-Cambrian granite.

C. Samarskite and allanite.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 29, 1954

DISTRICT San Francisco (Secret Pass)

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Kingman

PROPERTY Secret Pass area

LOCATION:

SEC. \_\_\_\_\_ T. 21 N. R. 20 W.

## 3. TYPE OF EXAMINATION:

Radiometric and geologic - surface  
and underground

4. DIRECTIONS TO DEPOSIT: Take highway to Davis Dam 5 miles west of Kingman off U. S. 93. Turn south across cattle guard at first bend in highway. Follow good gravel road to crest of mountains.

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: All development work in the area has been on gold property; production unknown. Many shafts, adits and trenches.

7. RADIOACTIVITY: Insignificant. Contacts between rhyolite dikes and Pre-Cambrian granites locally exposed in the area are detectable (with Halross scintillometer 939) and also quartz-calcite veins which have been heavily oxidized. Few small pegmatites containing alunite are slightly radioactive. Radiation of 2-3 times background (20 cps) was maximum reading for the area.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Extremely steep and rugged cliffs and deep canyons on western part of area, and steep gravel slopes and cliffs on eastern part. Accessible by few roads and washes.

B. Deeply eroded Tertiary andesites, trachytes, rhyolites, tuffs and basalt flows overlying pre-Cambrian granite; traversed by large quartz-calcite veins striking north-south and northwest-southeast.

C. Veins - quartz, calcite, fluorite, hematite, manganese, limonite, Au, Ag.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart and 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED D. L. Hetland  
January 22, 1953

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

DISTRICT WallapaiNEAREST TOWN Kingman, ArizonaPROPERTY Paymaster

## LOCATION:

SEC. 6 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go 12 miles northwest from Kingman, Arizona, on U. S. Highway 93. Turn right or east and go up Golconda road two miles; turn right off Golconda road. Proceed up wash one-half mile to mine.

## 5. OWNER OR OPERATOR:

ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Shaft probably over 100 feet deep

## 7. RADIOACTIVITY:

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle south slope easily accessible by jeep road.

B. Quartz vein in fault fissure striking N. 70° W, dipping 70° N. Footwall of vein contains much fault breccia and is slightly mineralized with quartz and hematite. Much recemented gouge.

C. quartz, gold, silver, little galena, little sphalerite, pyrite, hematite and limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart and 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED D. L. Hetland  
January 20, 1953

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

DISTRICT WallapaiNEAREST TOWN Kingman, ArizonaPROPERTY Lucky Friday

## LOCATION:

SEC. 18 T. 22 N. R. 17 W.3. TYPE OF EXAMINATION: Surface and  
underground radiometric4. DIRECTIONS TO DEPOSIT: Go 9 miles northwest from Kingman, Arizona, on U. S. 93;  
turn east on dirt road into Cerbat Canyon. Then go up the first wash to the  
south, entering the canyon. Proceed for 1/2 mile.5. OWNER OR OPERATOR: Arthur Nordene  
ADDRESS: Las Vegas, Nevada6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Two short drifts and one 100' inclined shaft7. RADIOACTIVITY: Maximum scintillometer reading 125 cps, background 30 cps;  
insignificant

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep, open south slope in Cerbat Mountains.

B. Quartz vein in fault fissure about 15 feet wide, striking north-northwest,  
dipping vertically.C. Little galena, sphalertie, pyrite and chalcopyrite; much limonite staining;  
probably a gold prospect.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King and A. J. Rambosek 2. STATE Arizona COUNTY Yuma  
 DATE(S) EXAMINED \_\_\_\_\_

DISTRICT Silver

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Yuma

PROPERTY Silver Chief

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Follow Arizona 95 north from Yuma to Martinez Lake road junction; follow Martinez Lake road 10 miles to Lake. Turn right and follow dirt road 5 miles to junction of Boy Scout Camp road. Follow righthand road 4 miles to mouth of Yuma Wash; follow road up wash five miles. Turn left on road up tributary wash and follow road  $1\frac{1}{4}$  miles to claim.

5. OWNER OR OPERATOR: Workings - inclined shaft caved, three open cuts, apparent ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Workings - inclined shaft caved, three open cuts, apparent stoping to surface

7. RADIOACTIVITY: B. G. - 25-30 cps  
 Maximum - 30 cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

- A. Rough, fairly steep mountain slope. Numerous quartzitic outcrops.
- B. Southeast and northwest-trending fault vein on contact of quartzite and altered volcanics.
- C. PbS, Ag(?), quartz, calcite,  $MnO_x$ ,  $FeO_x$ .

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 21, 1953

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

DISTRICT Owen'sNEAREST TOWN SignalPROPERTY Copper Cliff mine

## LOCATION:

SEC. 33 ? T. 14 N. R. 15 W.

3. TYPE OF EXAMINATION: Surface and  
underground radiometric

4. DIRECTIONS TO DEPOSIT: From Kingman, Arizona, go south on U. S. 66 to Yucca; turn east on dirt road to Signal. Take Alamo road about 10 miles west of Signal, and proceed for 10 miles. Mine is 100 yards north from the road.

5. OWNER OR OPERATOR: E. M. Berger  
ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Unknown history; 150' drift, two surface trenches

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Low rolling hills easily accessible by auto.

B. Quartz vein filling fault fissure with much cemented gouge. Excellent banding of quartz around local fault breccia, Mine is primarily a gold vein with little silver, galena, copper staining (chrysocolla), hematite, pyrite and limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 5, 1953

1. SAMPLES

<u>NUMBER</u>	<u>TYPE AND WIDTH</u>	<u>RADIOACTIVITY</u>

DISTRICT WallapaiNEAREST TOWN Kingman, ArizonaPROPERTY Evahom mine

## LOCATION:

SEC. 20 T. 23 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Go 12 miles northwest from Kingman, Arizona, on U. S. Highway 93; turn east on dirt road and go two miles. Turn north and go into Mineral Park. Mine is at the southeast end of the park.

5. OWNER OR OPERATOR: A. J. Jagerson  
 ADDRESS: Chloride, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
625 feet of drifting and crosscutting; three stopes

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle north slope on southern edge of Mineral Park.

B. Quartz vein in a fault fissure carries lead, zinc and copper minerals.

C. Quartz, galena, little sphalerite, chalcopryrite, pyrite, gold, silver, hematite and limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Harry E. Nelson 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED October 6, 1954

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Boulder City, Nevada

PROPERTY Rainy Day claims

LOCATION:

SEC. \_\_\_\_\_ T. 30 N. R. 22 W.

## 3. TYPE OF EXAMINATION:

Surface radiometric

4. DIRECTIONS TO DEPOSIT: Follow US/and <sup>93</sup>466 for 7.5 mi. east of the Arizona side of Hoover Dam. Turn south (right) on dirt road for 0.1 mi.

5. OWNER OR OPERATOR: L. Wagner  
 ADDRESS: 104 Baltimore  
 Las Vegas, Nevada

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Halross #939, B. G. 70 cps  
 Scintillator #111, B. G. 0.022 mr/hr

Nothing above background in place

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Southwest flank of Black Mountains at elevation of 2180 feet.

B. Alluvial fan of Precambrian schist, granite, aplite, basalt.

C. Yellow mineral coating and disseminated in white aplitic rock, very highly radioactive float - 5.0 mr/hr

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, A.J. Rambosek 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED July 14, 1952

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Signal, Arizona

PROPERTY Mahogany claim, Lola claim

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Radiometric surface

4 DIRECTIONS TO DEPOSIT: About 5 miles southwest of Artillery Mountains manganese deposits

5. OWNER OR OPERATOR: Kelly Kline and Associates  
 ADDRESS: Phoenix, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Dumps checked - negative

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Precambrian shear zone;  $\text{CuO}_x$  stains.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. D. Miller 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED July 22, 1953

1. SAMPLES

<u>NUMBER</u>	<u>TYPE AND WIDTH</u>	<u>RADIOACTIVITY</u>

DISTRICT Gold BasinNEAREST TOWN HackberryPROPERTY Gold Basin

LOCATION:

SEC. \_\_\_\_\_ T. 28 N. R. 18 W.

3. TYPE OF EXAMINATION: Dumps and  
 accessible workings - radiometric

4. DIRECTIONS TO DEPOSIT: Turn north from U. S. Highway 66 about 6 miles west of Hackberry. Travel 3/4 miles on unimproved road to ranch; turn left (west) at junction and drive 1 mile to abandoned mill and mine.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Abandoned gold mill and buildings near two adits and two inaccessible inclined shafts; fairly large dump indicates extensive underground workings. Deep shaft and adit comprise entrance to separate workings 3/4 mile to southwest.

7. RADIOACTIVITY: B. G. 40 cps, max. 60 at copper stains in adit uphill from mill

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Moderately steep barren slopes.

B. Quartz-hematite veins in metamorphic rocks. Above mill gneiss forms steep hanging wall; gneissic granite forms footwall. Abundant fault gouge on footwall. At workings 3/4 mile to south vertical quartz-hematite vein is in gneissic granite and quartz schist.

C. Quartz, abundant hematite, chlorite, sparse green copper stains, unidentified nonradioactive bright-yellow mineral; gold reported.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. D. Miller 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED July 26, 1953

DISTRICT \_\_\_\_\_

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Peach Springs, Arizona

PROPERTY Meriwhitica Springs -  
Hualapai Indian Reservation

LOCATION:

SEC. \_\_\_\_\_ T. 28 N. R. 13 W.

## 3. TYPE OF EXAMINATION:

Rim radiometric

4. DIRECTIONS TO DEPOSIT: Turn northwest off U. S. 66 about 3 miles west of Peach Springs. Drive 23 miles on improved road to junction. Turn right (northeast) and proceed 3 miles to rim. Meriwhitica Springs is about 5 miles by foot from the rim. Trail is largely washed out.

5. OWNER OR OPERATOR: Hualapai Indian Reservation  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Old placer mine (gold) is north of area visited. No other mine workings, but 2000 feet of early Paleozoic sediments are exposed on rim.

7. RADIOACTIVITY: Not above background

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Deep canyon with fairly level floor and very steep sides.

B. Rims expose Redwall limestone (Mississippian), Temple Butte limestone (Devonian), and Muav limestone, Bright Angel shale and Tapeats sandstone (all Cambrian). Large monocline on northwest rim appears to become normal fault on southwest rim.

C. No ore minerals observed.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King and  
 DATE(S) EXAMINED E. J. Poehlmann  
March 12, 1953

STATE Arizona COUNTY Mohave

DISTRICT Bentley

1. SAMPLES  
NUMBER TYPE AND WIDTH RADIOACTIVITY

NEAREST TOWN Mesquite

PROPERTY Savannic

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go 60 miles southeast of Riverside, Nevada, on U. S. Highway 91; 3 miles southeast of Grand Gulch mine.

5. OWNER OR OPERATOR: Lewis Lund  
 ADDRESS: St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 History - old copper mine  
 Workings - shaft, sills and stopes

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep wash on edge of plateau. Wash exposes beds on steep slopes.

B. Flat-lying beds of gray limestone and red crossbedded sandstones, hydrothermal activity.

C. Copper as carbonates and oxides, chalcocite in small grains, FeO<sub>x</sub>, CaCO<sub>3</sub>, (barite?).

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 4, 1954

DISTRICT San Francisco

1. SAMPLES

NUMBER      TYPE AND WIDTH      RADIOACTIVITY

NEAREST TOWN Oatman

PROPERTY \_\_\_\_\_

LOCATION:

SEC. 5 T. 18 N. R. 20 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go south on old US Highway 66 from Oatman to Boundry Cone; property is 1/4 mile southwest of Boundry Cone.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Development consists of small prospect shafts and trenches for gold-bearing ores in the general vicinity.

7. RADIOACTIVITY: Ranges from three to ten times average background (60) on a Halross scintillometer across the granite porphyry out crop of approximately 10 acres. Results of further investigation will be reported later.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle rolling slopes dissected by torrential washes.

B. Precambrian granite gneiss cropping through Tertiary lavas and Quaternary alluvium. Granite is gneissic in texture and coarsely crystalline; contains several shear zones and many small simple pegmatites.

C. Granite, pegmatite (consisting of quartz and feldspar), quartz and reddish limonite staining overall.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. J. eehan 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED December 16, 1953

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH		RADIOACTIVITY	
	% eU <sub>3</sub> O <sub>8</sub>	% cU <sub>3</sub> O <sub>8</sub>	% Cu	% V <sub>2</sub> O <sub>5</sub>

101754	.01	.006	1.65	.02
101754A	.02	.029	4.57	.01
101754B	.06	.048	0.60	.01

NEAREST TOWN St. George, Utah

PROPERTY Copper House Coalition #2

LOCATION:

SEC. 1, 2 T. 12 N. R. 11 W.

## 3. TYPE OF EXAMINATION:

Surface radiometric

4. DIRECTIONS TO DEPOSIT: Claims are about 85 miles south of St. George in Andrus canyon. Due to remoteness and inaccessibility of area, it is best to contact owner at St. George for guidance.

5. OWNER OR OPERATOR: Omar Bundy, Harold Anderson  
 ADDRESS: Omar Bundy, 531 South 5th East, St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 No production; small prospect pits

7. RADIOACTIVITY: B.G. - 15-20 cps  
 High - 500 (rock knoll) cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Plateau-canyon type topography.

B. Flat regional dipping sediments (Supai sandstone), bleached fracture zone (more or less circular); basic dikes in immediate area.

C. Cu (secondary), FeOx, FeOH, MnO; no uranium minerals noted.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. J. Meehan 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED December 17, 1953

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH		RADIOACTIVITY	
	% eU <sub>3</sub> O <sub>8</sub>	% cU <sub>3</sub> O <sub>8</sub>	%Cu	% V <sub>2</sub> O <sub>5</sub>

101753	.01	.011	1.99	.01
101753A	.18	.165	.07	.01
101753B	.02	.018	3.99	.01

NEAREST TOWN St. George, Utah

PROPERTY Copper House no. 1

LOCATION:

SEC. 1, 2 T. 32 N. R. 11 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Claims are about 85 miles south of St. George, Utah, in Andrus Canyon. Due to remoteness and inaccessibility of area, it is best to contact owner at St. George for guidance.

5. OWNER OR OPERATOR: Omar Bundy, Harold Anderson, Will Jones  
 ADDRESS: Omar Bundy, 531 South 5th East  
 St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 No production; 30' adit - prospect pits and trench

7. RADIOACTIVITY: B. G. - 15-20 cps  
 High - 1000 cps (in trench)

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Plateau canyon topography.

B. Flat regional dip. Supai sandstone - bleached and fractured zone - gossan material. Mineralization appears along fractures (N. 50° W.) Fault 200 ± feet west of mineralized zone. Two 3' wide basic dikes striking N. 50° W., dipping 80° northeast in immediate area.

C. Cu (secondary), FeOx, FeH, MnO; no uranium mineralization megascopically discernible.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 20, 1954

DISTRICT White Hills

## 1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman

PROPERTY All development in district

LOCATION:

SEC. \_\_\_\_\_ T. 27 N. R. 20 W.

## 3. TYPE OF EXAMINATION:

Radiometric surface and underground

4. DIRECTIONS TO DEPOSIT: Go 40 miles northwest from Kingman on U. S. 95; turn east on slope Temple Bar Road. District is 3 miles east of highway on west slope of White Hill Mts.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: District was a boom camp in late 1890's and early 1900. Production unknown, but reportedly fabulous shoots of silver ore were discovered here. Many shafts and adits of shallow depth are in the district.

7. RADIOACTIVITY: Insignificant

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle steep slopes, all properties easily accessible.

B. North-south veins with low-angle dip strike through pre-Cambrian granite gneiss and schist capped by Tertiary lava flows.

C. Silver veins of stephanite, ruby silver and native silver, with manganese, quartz, calcite, limonite.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 16, 1953

DISTRICT Wallepai

1. SAMPLES

NUMBER      TYPE      AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Diplomat

## LOCATION:

SEC. 13 T. 22 N. R. 18 W.

## 3. TYPE OF EXAMINATION:

Surface and underground radiometric

4. DIRECTIONS TO DEPOSIT: Go northwest on U. S. Highway 93 from Kingman, Arizona, for 10 miles; take dirt road going northeast to Ferguson property. Turn south on the first right turn on cross road; proceed south to first left turn. Follow the road directly to the mine.

5. OWNER OR OPERATOR: Jim Board, Guy Hibbs and  
 ADDRESS: Tom Donahue  
 Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: 250-foot inclined shaft; 67-foot drift on lead vein striking northwest; no production

7. RADIOACTIVITY: Few high-grade galena specimens recorded three to four times background; quantity negligible. Scintillometer maximum reading 100 cps, background count is 30 cps.

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Low, rolling hills on the west side of the Cerbat Range.

B. Galena vein striking N. 50° W., dipping 60° S. It comprises a group of lens-shaped en-echelon ore bodies, each lens separated by a horse of altered and bleached gneiss.

C. Galena, sphalerite, pyrite, silver.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 20, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE      AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Champion mine

## LOCATION:

SEC. 18 T. 22 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Surface and underground radiometric

4. DIRECTIONS TO DEPOSIT: Go 9 miles northwest from Kingman, Arizona, on U. S. Highway 93. Turn east on dirt road to Ferguson property; mine lies one mile east of the Ferguson home.

5. OWNER OR OPERATOR: I. M. George, Kingman, Arizona (owner)  
 ADDRESS: C. G. Paterson, Chloride, Arizona (Lessee)

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Mine has a 500-foot inclined shaft, five developed levels - 500, 250, 150, 100 and 50.

7. RADIOACTIVITY: Insignificant; maximum scintillometer reading: 150 cps, background, 50 cps

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep western slope of the Cerbat Mountains; easily accessible.

B. North-northwest-striking vein dipping 75° E. It is primarily lead with some zinc, silver and little gold in a fault fissure with much quartz and gouge. Pegmatite was noted intermittently in the footwall of the vein. Vein is lenslike in character and ranges from 6" to 4' in width. Wallrock is Precambrian amphibole, schist and gneiss.

C. Galena, sphalerite, silver, gold, quartz and feldspar.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart and D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED February 6, 1953

DISTRICT Wallapai

1. SAMPLES NUMBER	TYPE AND WIDTH	% eU RADIOACTIVITY	% cU
F-8187	Channel, 1.8'	0.019	0.020
	(also .18 oz/ton Au 2.2 oz/ton Ag)		
F-8188	Channel, 1.3'	0.018	--
F-8189	Channel, 3.2'	0.030	--
F-8190	Channel, 1.9'	0.049	--
F-8191	Channel, 2.0'	0.022	--
F-8192	Channel, 0.6'	0.007	--
F-8193	Channel, 2.3'	0.032	0.025
F-8194	Channel, 1.8'	0.166	--
F-8195	Channel, 1.5'	0.063	--
F-8196	Channel, 3.5'	0.045	0.056
	(also .02 oz/ton Au .2 oz/ton Ag)		
F-8197	Channel, 4.0'	0.013	--
F-8198	Channel, 3.5'	0.026	--
F-8199	Channel, 1.4'	0.264	0.110
	(also .21 oz/ton Au 3.9 oz/ton Ag)		
F-8200	Channel, 2.0'	0.052	0.024

NEAREST TOWN Kingman, Arizona

PROPERTY Democrat

LOCATION:

SEC. 12 ? T. 19 N. R. 15 W.

3. TYPE OF EXAMINATION: Radiometric and geologic of surface and underground

4. DIRECTIONS TO DEPOSIT: Go 10 miles southeast of Kingman on Arizona 93, then 8 miles south on canyon road to prospect.

5. OWNER OR OPERATOR: Dick Hart, Adrion Skinner, Scott Ellis, Kingman, Arizona (Ellis represents Sevier Minerals, Richfield, Utah, which now has a lease on the property.)

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Three adits and one shaft; shaft and #2 tunnel caved - production unknown

Radioactivity occurs in #3 tunnel which is caved about 220' from portal.

7. RADIOACTIVITY: Background - 40 cps; maximum - 3000 cps  
 Highest radioactivity occurs about 210' from portal of caved tunnel.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. The property is near the summit of the Hualapai Mountains at an elevation of about 6000 feet; very rough topography. Water is sufficient for general mining.

B. Fissure vein in shear zone; vein pinches and swells from 1 to 4 feet. It strikes northwest and dips about 45° NE.

C. Heavy gouge; fine pyrite, gold and silver, minor amounts of CuFeS<sub>2</sub> and FeAsS. Highest radioactivity where the gouge is heavy with pyrite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. K. Holen, L. C. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 5, 1955

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
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DISTRICT \_\_\_\_\_

NEAREST TOWN Short Creek

PROPERTY \_\_\_\_\_

LOCATION:

SEC. 26 T. 40 N. R. 6 W.

## 3. TYPE OF EXAMINATION:

4. DIRECTIONS TO DEPOSIT: Go 14 miles south of Short Creek; south of junction of Short Creek and Pipe Springs - Fredonia road.

5. OWNER OR OPERATOR: C. E. Kenyon and associates  
 ADDRESS: Los Angeles, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Two rotary drill holes

7. RADIOACTIVITY: Operator probed holes and reported "no radioactivity." Holes caved and were not probed by AEC. Drill cuttings were checked with scintillator with negative results.

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Flat plain. Holes collared in Chinle formation and drilled to 240 and 270 feet. The Shinarump-Moenkopi contact apparently was not reached.

DRILLING LOG (no radioactivity reported)

Hole no. 1 - 0 - 140 overburden  
 140 - 185 gray, purple mudstone  
 185 - 205 yellow sandstone  
 205 - 270 very limy, fine sandstone

Hole no. 2 - 0 - 120 overburden  
 120 - 170 yellow sandstone  
 170 - 190 gray sandstone  
 190 - 210 fine-grained sandstone  
 210 - 240 hard gray sandstone

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. D. Miller 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 6-3-53

DISTRICT Music Mountain

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Valentine, Arizona

PROPERTY Music Mountain mine  
 (Rosebud mine)

LOCATION:

SEC. \_\_\_\_\_ T. 26 N. R. 15 W.

3. TYPE OF EXAMINATION: Radiometric of  
 dumps and accessible workings

4. DIRECTIONS TO DEPOSIT: Turn north from U. S. Highway 66 about 28 miles east of Kingman ( 5 miles west of Valentine). Proceed along unimproved road for 19 miles; turn right (east) at sign for 2 miles to mine.

5. OWNER OR OPERATOR: Thelma Hintz, Owner  
 ADDRESS: Louis F. Walter, Attorney for owner,  
 5541 Yarmouth Avenue, Encina, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Dormant gold mine comprises four claims: Portland, Mizpah, Emma and Little Johnny. Workings consist of three inaccessible shafts, trenches and open cuts.

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep barren hills.

B. Shears and veins in coarse-grained biotite granite. Shears strike N. 35° W., dip steeply northeast.

C. Quartz, pyrite, chlorite, limonite, hematite, calcite, manganese stains; gold reported.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King, E. J. Poehlmann 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED March 12, 1953

DISTRICT Bentley

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

NEAREST TOWN Mesquite

PROPERTY Cunningham

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

## 3. TYPE OF EXAMINATION:

Surface radiometric

4. DIRECTIONS TO DEPOSIT: Approximately 60 miles southeast of Riverside, Nevada, on Highway No. U. S. 91, 1 mile southeast of Savannic Mine

5. OWNER OR OPERATOR: James and McMurrin Wulfenstein  
 ADDRESS: St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 History - old copper prospect  
 Workings - several prospect pits and shallow adits

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Wash exposes beds on 45° slope at edge of plateau.

B. Red and gray sandstones and dense gray limestones.

C. Few oxides and carbonates of copper; some FeO<sub>x</sub>.

PRELIMINARY RECONNAISSANCE REPORT-

USGS

1. SAMPLE INFORMATION:

<u>NUMBER</u>	<u>TYPE</u>	<u>RADIOACTIVITY</u>
---------------	-------------	----------------------

2. STATE Arizona  
 COUNTY Mohave  
 DISTRICT Hack's Canyon  
 CLAIM/MINE Hack's Canyon  
 NEAREST TOWN Fredonia  
 SEC.        T.        R.       

3. OWNER:  
 ADDRESS:

4. PREVIOUS WORK: Report by Dr. Charles A. Rasor, February 1949

5. TYPE GEIGER COUNTER Not known MFR                      MODEL                     

BACKGROUND ON                      SCALE                      C/M OR DIAL READING OF                     

6. DESCRIPTION OF EXAMINATION:

	<u>TYPE OF MAPPING</u>	
	<u>GEOLOGIC</u>	<u>RADIOMETRIC</u>

DETAIL

RECONN.	x	x
SURFACE	x	x
UNDRGRND.	x	x

RESULTS: Based on the reexamination, the ore may extend into the wall of the canyon as well as to depth. Deposit may be similar to that of the Happy Jack mine. Previous estimate of ore reserves may be low.

7. MINERALOGIC ASSOCIATION: Sulfides and pitchblende; green torbernite and malachite.

8. GEOLOGIC ENVIRONMENT: Block of white Coconino sandstone that may have slid down to the level of the red Hermit shale.

9. TYPE OF DEPOSIT: Mineralized sandstone seems to consist of masses without bedding or having strikes and dips which conform to no pattern. No mineralization in Coconino sandstone in place above the mine.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY J. W. Gruner

12. DATE(S) September 1950

13. HAS A PROOF OF OWNERSHIP FORM BEEN DISTRIBUTED No

14. SUPPLEMENTARY REPORT TO FOLLOW x NOT NECESSARY

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King, E. J. Poehlmann 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED March 12, 1953

DISTRICT Bentley

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Mesquite

PROPERTY Grand Gulch

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Turn off U. S. Highway 91 south of Mesquite at Riverside, Nevada. Drive to Pakoon Springs, Grand Wash. Mine is on plateau 60 miles south-east of Riverside, Nevada.

5. OWNER OR OPERATOR: James and McMurrin Wulfenstein  
 ADDRESS: St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 History - Old copper mine  
 Workings - quite extensive - shaft, sills and stopes

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Edge of plateau, wash exposes formations on gentle slopes.

B. Flat-lying beds of red and gray sandstone (some crossbedded) and gray limestones (dense).

C. Copper as carbonate and oxide; few sulfide specks;  $\text{FeO}_x$ ,  $\text{CaCO}_3$ .



PRELIMINARY RECONNAISSANCE REPORT- USGS

1. SAMPLE INFORMATION:

NUMBER	TYPE	RADIOACTIVITY

2. STATE Arizona  
 COUNTY Mohave  
 DISTRICT McConnico  
 CLAIM/MINE Mineral X claim  
 NEAREST TOWN Kingman, Arizona  
 SEC. 16 T. 20 N. R. 17 W.

3. OWNER: Guy E. Hazen and C. D. Woodhouse  
 ADDRESS: Hazen's Fossil Museum, P. O. Box 695,  
Kingman, Arizona

4. PREVIOUS WORK:

C. D. Woodhouse at Santa Barbara College reportedly sent samples to AEC some 1 - 2 years ago. Woodford at Pomona College did first work on "thalenite" about 4 years ago.

5. TYPE GEIGER COUNTER Halross MFR Syndicate Ltd. MODEL # 939  
Scintillometer  
 BACKGROUND ON 60 SCALE 120 C/M OR DIAL READING OF 110 cps

6. DESCRIPTION OF EXAMINATION: RESULTS:

<u>TYPE OF MAPPING</u>	
<u>GEOLOGIC</u>	<u>RADIOMETRIC</u>
DETAIL	
RECONN.	
SURFACE	x
UNDRGRND.	x

DETAIL

RECONN.

SURFACE

x

x

UNDRGRND.

7. MINERALOGIC ASSOCIATION: Zircon, fergusonite, thalenite, allanite, fluorite, epidote.

8. GEOLOGIC ENVIRONMENT: Pegmatite dike in a pre-Cambrian biotite schist. A granitic plug is exposed about 500 feet west of the dike. An outcrop showing epidote and fluorite occurs about 200 feet south of pegmatite toward the exposed granite. Pegmatite dike 100 feet long by 30 feet wide.

9. TYPE OF DEPOSIT:

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY E. E. Thurlow  
H. E. Nelson

12. DATE(S) May 11, 1952

13. HAS A PROOF OF OWNERSHIP FORM BEEN DISTRIBUTED No

14. SUPPLEMENTARY REPORT TO FOLLOW NOT NECESSARY

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. S. Scott, C. L. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED June 6, 1954

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Fredonia, Arizona

PROPERTY Delta Group (6 claims)

LOCATION:

SEC. 28 T. 40 N. R. 6 W.

3. TYPE OF EXAMINATION:  
 Surface examination of outcrops

4. DIRECTIONS TO DEPOSIT: West from Fredonia to Pipe Springs; ten miles west from Pipe Springs; turn south for seven miles. Ores called Yellow Stone Rim on county map.

5. OWNER OR OPERATOR: H. F. Beasley  
 ADDRESS: Box 86  
Casper, Wyoming

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Halross, Model 939  
Background - 10-20 cps  
Top - 40 cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Claims include cliff face and dip slope.

B. Walked contact between Shinarump and Moenkopi. Some slight scour, no more than ten feet deep.

C. No uranium minerals were observed.

PRELIMINARY RECONNAISSANCE REPORT- USGS

1. SAMPLE INFORMATION:  
NUMBER            TYPE                            RADIOACTIVITY

2. STATE Arizona  
 COUNTY Mohave  
 DISTRICT Wallapai  
 CLAIM/MINE Miscellaneous pros-\*  
 NEAREST TOWN Kingman, Arizona  
 SEC. 7-8 T. 22 N. R. 17 W.

\* pects Cerbat canyon

3. OWNER:  
 ADDRESS:

4. PREVIOUS WORK: Workings and history unknown. Includes several small workings in Cerbat canyon west of the Jim Kane mine. Cerbat canyon is located in southern end of Cerbat Range, approximately 12 miles northwest of Kingman, Arizona.

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939  
 BACKGROUND ON 15 cps SCALE 120 C/M OR DIAL READING OF 15-20  
cps

6. DESCRIPTION OF EXAMINATION: RESULTS:  
TYPE OF MAPPING No favorable radiometric anomalies noted  
GEOLOGIC    RADIOMETRIC

DETAIL  
 RECONN.  
 SURFACE  
 UNDRGRND.

7. MINERALOGIC ASSOCIATION: Oxides and sulfides of Fe, Cu, Zn and Pb; some Au and Ag also found.

8. GEOLOGIC ENVIRONMENT: Gneissoid granite and schist at the mouth of the canyon.

9. TYPE OF DEPOSIT: Fissure.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY A. J. Rambosek,  
E. N. King

12. DATE(S) August 18, 1952

13. HAS A PROOF OF OWNERSHIP FORM BEEN DISTRIBUTED No

14. SUPPLEMENTARY REPORT TO FOLLOW NOT NECESSARY X

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY A. J. Rambosek, F. N. King 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 12/1/52

DISTRICT Maynard

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY
--------	------	-----------	---------------

NEAREST TOWN Kingman

PROPERTY Mineral "X" claim

LOCATION:

SEC. \_\_\_\_\_ T. 20 S. R. 17 W.

## 3. TYPE OF EXAMINATION:

Surface radiometric

4. DIRECTIONS TO DEPOSIT: Follow U. S. 66 south from Kingman 4 miles to junction of old and new sections of U. S. 66. Turn east; cross A. T. and S. F. Ry, and follow up dry wash approximately 3 miles to prospect.

5. OWNER OR OPERATOR: Guy Hazen  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 Workings - open cut approximately 20 feet long and 6 feet wide.

7. RADIOACTIVITY: B. G. 80 cps  
 Max. 225 cps  
 Average 150 cps

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Barren, low, rock hills at edge of flood plain.

B. Pegmatite dike in schist and granite.

C. Rare earths (?), feldspars, quartz.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 6, 1954

DISTRICT Wallapai

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
7250 (Halross)	Channel 1.4'	1000 cps

NEAREST TOWN Kingman

Private assay reported as 0.11%  $\text{cU}_3\text{O}_8$

PROPERTY J. G. and Fort Lee Claims

Includes five unpatented claims and one  
 LOCATION: patented

SEC. 12 T. 22 N. R. 18 W.

3. TYPE OF EXAMINATION:  
 Surface and underground, radiometric  
 and geologic

4. DIRECTIONS TO DEPOSIT: Go 13 miles northwest of Kingman; property lies approximately 2 miles north of the mouth of Cerbat canyon.

5. OWNER OR OPERATOR: Kenneth Kuencer and associates  
 ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Property has been mined for gold and silver in the early days. Workings consist of two inclined shafts and approximately 300 feet of drifting and little stoping.

7. RADIOACTIVITY: Anomalous radioactivity can be found locally along the vein, particularly where the vein has been strongly oxidized near the surface and ground waters have not moved the oxides off, and where the vein has not been extensively oxidized at depth (95 feet at present).

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle slopes on the western foothill of the Cerbat Range.

B. Quartz vein in rhyolite dike in Ithica Peak granite. Vein strikes north-south, dips steeply east. Strong quartz outcropping for 1/4 mile on surface.

C. Quartz, pyrite, chalcopyrite, enargite?, tetrahedrite?, gold, silver, marcasite and much limonite.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. K. Holen, 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED L. C. Twitchell

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER    TYPE AND WIDTH    RADIOACTIVITY

NEAREST TOWN Short Creek

PROPERTY Kim Claims

LOCATION:

SEC. 22 T. 40 N. R. 6 W.

## 3. TYPE OF EXAMINATION:

Probe of drill holes and examination of core

4. DIRECTIONS TO DEPOSIT: Thirteen miles south of Short Creek at junction of Short Creek road and Pipe Springs-Fredonia road

5. OWNER OR OPERATOR: United Uranium, Inc.                      Mr. Jesse Lackman, President  
 ADDRESS:                      616 Eastman Building  
    Boise, Idaho

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Two holes core drilled to Shinarump-Moenkopi contact

7. RADIOACTIVITY: Both holes probed by AEC personnel. Slight radioactivity in both holes but nothing approaching ore grade; no radioactivity in core.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Flat plain.

B. Shinarump formation crops out on a rim about 7 miles to the south. A coarse sandstone member of the Chinle formation with some uranium mineralization is exposed in a low ridge (Cedar Ridge) about  $1\frac{1}{4}$  miles to the east. Holes were collared in the Chinle formation at approximately the same elevation. Moenkopi-Shinarump contact in hole No. 1 at 295 feet. Moenkopi-Shinarump contact in hole No. 2 at 315 feet

C. Some pyrite in hole No. 1 from 265' to 295'  
 Some pyrite in hole No. 2 from 225' to 235' and 311' to 315'

KIM CLAIMS

Accompanies Reconnaissance Report No. R-R-281

Sec. 22 T. 40 N. R. 6 W.

Mohave County, Arizona

United Uranium, Inc.

Hole No. 1 - Logged by W. Malrose, Geologist for United Uranium, Inc.

- 0- 58 - overburden
- 58- 95 - white sandstone
- 95-105 - red shaley sandstone
- 105-115 - gray mudstone
- 115-125 - carbonaceous, gray, sandy shale; good core and yellow sandstone at base
- 125-145 - coarse yellowish sandstone grading to conglomerate
- 145-165 - coarse conglomerate up to 1-inch pebbles
- 165-175 - yellowish sandstone, 8" shale lens at 168 feet
- 175-185 - gray and yellowish sandstone
- 185-215 - carbonaceous gray sandstone
- 215-223 - carbonaceous gray sandstone, arkosic in part with grit bands
- 223-243 - coarse gray sandstone
- 243-255 - same with pebbly bands
- 255-265 - fine to coarse sandstone; many carbonaceous bands and conglomerate in lens
- 265-285 - carbonaceous sandstone and conglomerate up to 1-inch pebbles and pyrite crystals
- 285-295 - coarse sandstone, pebbly, and pyrite
- 295-297 - red-gray shale

Hole No. 2 - Logged by L. Twitchell, AEC

- 0- 87 - overburden
- 87-105 - dark-red mudstone
- 105-155 - purple and gray mudstone
- 155-156 - fine-grained white sandstone
- 156-157 - silty mudstone, gray
- 157-166 - gray, purple, brown mudstone
- 166-170 - pebble conglomerate up to one inch
- 170-172 - gray mudstone
- 172-175 - coarse-grained, white sandstone
- 175-183 - fine- to coarse-grained, white sandstone
- 183-190 - very coarse-grained, white sandstone
- 190-194 - gray mudstone and siltstone
- 194-203 - white, fine- to coarse-grained sandstone
- 203-205 - gray, silty mudstone
- 205-215 - white, coarse-grained sandstone; some carbonaceous banding
- 215-235 - white, fine- to coarse-grained sandstone  
(225-235 very carbonaceous, banded appearance with considerable pyrite)

- 235-237 - white, fine-grained sandstone
- 237-238 - mudstone, red
- 238-252 - sandstone, white, fine grained, grades into red mudstone, slightly carbonaceous
- 252-265 - mudstone, dark red
- 265 - Shinarump contact?
- 265-275 - sandstone, white, coarse grained, poorly sorted, well-rounded quartz grains
- 275-282 - sandstone, white, poorly sorted, medium- to coarse-grained, well-rounded quartz grains
- 282 - sandstone, white, coarse to fine grained; some carbonaceous material
- 282-287 - sandstone, white and gray, fine grained, considerable mica in bedding planes; a few thin clay bands
- 287-305 - sandstone, white, fine to coarse grained; some pebbles up to 1/4"
- 305-311 - sandstone, white, coarse grained
- 311-315 - small pebble conglomerate, poorly sorted, pyrite, predominantly quartz; some mud inclusions
- 315.5 - Shinarump Moenkopi contact
- 315-325 - siltstone, reddish brown



U. S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. C. Granger, R. B. Raup  
DATE EXAMINED July 30, 1952

USGS - PRR NO. D-430  
DATE August 7, 1952  
STATE Arizona  
COUNTY Mohave  
DISTRICT \_\_\_\_\_  
SEC. 24 T. 40 N. R. 6 W.

1. NAME OF PROPERTY: Rainbow claim
2. DIRECTIONS TO PROPERTY: Go 23 miles west of Fredonia, Arizona, on the Pipe Springs road.

3. OWNER OR LESSEE: Carter and Lamb  
ADDRESS: 1630 Yale Avenue  
Salt Lake City 5, Utah

4. PUBLISHED REFERENCES:

5. MINE WORKINGS: 18-foot prospect shaft and several shallow prospect pits.

6. TYPE OF EXAMINATION: Radiometric reconnaissance and grab sampling

7. RADIOACTIVE DEPOSIT: TYPE AND AGE: Red-bed copper deposit  
WALL ROCKS: Shinarump conglomerate (Triassic)

ORE MINERALS, PRIMARY: Malachite

ORE MINERALS, SECONDARY:

GANGUE MINERALS: Iron oxides

ORE-GANGUE RELATIONSHIP: Dissemination in host rock

ATTITUDES: Flat lying  
LENGTH (STRIKE 75 feet  
OR OTHER):

SHAPE: Lenticular  
WIDTH: THICKNESS: Less than  
4 feet

8. COUNTER TYPE: N.I.C.C. Geiger counter No. 1338  
BACKGROUND READING: 0-5 divisions on 0.2 scale

AVERAGE READING FOR DEPOSIT:  
N.I.C.C. scintillation counter  
no. 707 - Highest counts; middle  
of 2.0 scale

9. SAMPLE INFORMATION:

SAMPLE NO.	TYPE AND MATERIAL SAMPLED	%EU OR U <sub>3</sub> O <sub>8</sub> OR C/M	CHEM. ASSAY (PERCENT)	LOCATION
RR-3	Grab	0.020	0.024	Point of maximum radio-activity

10. SUPPLEMENTAL REPORT TO FOLLOW:

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. D. Miller 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 7/23/53

DISTRICT Lost Basin

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		%U <sub>3</sub> O <sub>8</sub>	%C <sub>3</sub> O <sub>8</sub>
100553	Selected from stockpile	.26	0.25

NEAREST TOWN Hackberry

PROPERTY Corley, Lind and Ellington  
mine no. 3

LOCATION:  
SEC. \_\_\_\_\_ T. 29 N. R. 17 W.

3. TYPE OF EXAMINATION:  
Radiometric

4. DIRECTIONS TO DEPOSIT: Turn north from U.S. 66 about 6 miles west of Hackberry; continue north for 34 miles to junction near ranch. Take middle fork for 9 miles; turn right (east) on rough road over hills. Travel about 3 miles to mine.

5. OWNER OR OPERATOR: Jim R. Corley, L. L. Clinton and Jimmy Ellington (from claim papers)  
 ADDRESS: Unknown

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Production and history unknown. Evidence indicates assessment work done during 1952. Workings consist of 15' shaft at intersection of two veins. Two shafts about 60' deep about 100 and 125 feet to southeast. Padlocked adit about 175 feet to west. Shallow water in all shafts may be result of recent cloudburst. Two ore stockpiles about 12 tons each.

7. RADIOACTIVITY:

Defective Halross - max. 350 cps on west stockpile  
 Professional counter - Max. 15 mr/hr (x100 scale) on west stockpile; east stockpile Max. 1.5 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep, barren slopes above canyon.

B. Area of prominent quartz veins in metamorphic rocks. Fifteen-foot shaft is at intersection of two veins (about 5' wide) in gneissic granite: N.20° E. dipping 50° N. and about N. 80° W., dipping very steeply into hill. Striations on slickensides indicate last movement was strike slip on shear zone filled by N. 80° E. fault. Source of stockpiles not determined -- may be padlocked adit.

C. Veins at surface: quartz, limonite. Stockpiled ore: quartz, limonite, abundant calcite, pyrite, galena, chalcocite, chalcopyrite, hematite. Radioactive mineral is greenish black with resinous luster.

## SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. D. Miller  
 DATE(S) OF EXAMINATION 10/4/53

SUPPLEMENT NO. 1  
 DATE OF THIS REPORT Oct. 26, 1953  
 DATE OF PREVIOUS REPORT 7/23/53

## 1. SAMPLE DATA

NUMBER	ASSAY %U <sub>3</sub> O <sub>8</sub>		OTHER ELEMENTS
	RADIOMETRIC	CHEMICAL	CHEMICAL
34999	0.70	0.70	
35000	0.30	0.012	contains thorium
100751	0.19	0.23	
100751A	0.24	0.27	

2. STATE Arizona COUNTY MohaveDISTRICT Lost BasinNEAREST TOWN HackberryPROPERTY Corley, Lind and  
EllingtonLOCATION: Mine No. 3.  
SEC. \_\_\_\_\_ T. 29 N. R. 17 W.

3. OWNER OR OPERATOR: James R. Corley, General Delivery, Chloride, Arizona.  
 ADDRESS: Search of records in Mohave Countyhouse shows Corley  
is now sole owner.

## 4. ADDITIONAL INFORMATION ON MINERALOGY, RADIOACTIVITY, GEOLOGY, MINING, ETC.:

All workings were examined in company with owner. Original location work was done in 1947, and property has been intermittently worked since then. Corley is now operating on very limited funds. One shipment of lead-silver ore is reported. Uranium-bearing rock on top of stockpiles is reported to be from last round in Shaft no. 3.

Shaft measurements show a vertical depth of 12' for 55° inclined shaft near ore pile and depths of 31 ft. and 30 ft. for other shafts. More detailed examination shows main vein in shallow shaft strikes about east-west and dips 25° S. Vein is offset about 4 ft. in shaft by fault trending east-west and dipping 30° N. Adit (77 ft.) apparently missed thin quartz-calcite vein. Examination of all workings indicates uranium minerals are confined to one small spot near the bottom of Shaft no. 3 associated with calcite along fractures in schist. Shaft is cribbed to within four ft. of bottom. Vein trending N. 80° E. and dipping about 40° SE. may be zone of mineralization at bottom of shaft, but waste piles around shaft obscure surface geology.

Sample 100751 is from bottom of shaft and Samples 34999 and 100751A are from pile reported to be from last round in shaft. Sample 35000 was taken from shallow cut in hillside near north-west corner of claim. Radioactive zone occurs in thin schist lens in gneissic granite. Bureau of Mines (Tucson) reports sample to contain monazite.

5. TO BE FOLLOWED BY:  
 ADDITIONAL SUPPLEMENTARY REPORT \_\_\_\_\_ MEMORANDUM REPORT \_\_\_\_\_ BOUND REPORT \_\_\_\_\_

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Edwin J. Poehlmann 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 6-2-54

## 1. SAMPLES

<u>NUMBER</u>	<u>TYPE AND WIDTH</u>	<u>RADIOACTIVITY</u>

DISTRICT \_\_\_\_\_

NEAREST TOWN Littlefield, ArizonaPROPERTY Unknown - located on Mt. Bangs,  
Arizona

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Go south of St. George, Utah, to Wolfhole, Arizona. Turn west at Wolfhole and go approximately 40-45 miles west. Property is located on highest peak on west side of mountain range.

5. OWNER OR OPERATOR: William Jones  
 ADDRESS: St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: No ore has ever been shipped;  
 Workings - a tunnel and shaft

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Terrain is very steep and rugged. Deposit is located in the highly tilted Precambrian gneiss at the west edge of the Shivwits plateau. Owner claims gold, silver, etc. but I only saw iron. There was no radioactivity of any sort in the area. Precambrian outcrops were checked for a distance about one mile across the strike of the upturned layers and in no instance did the background vary. Background was very low.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Walter R. Ashwill 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 5/28/57

DISTRICT Northwest of Lost Basin

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
--------	----------------	---------------

NEAREST TOWN Kingman

%  $eU_3O_8$

PROPERTY Kissee - Mitchell Lease

1 3/4 sections leased from U.S.B.L.M.  
 LOCATION:

A-12395 Select 0.22 E  $\frac{1}{2}$  (?) SEC. 13 T. 30 N. R. 17 W.

A-12396 1 ft. vertical chip 0.02 3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Turn north from U. S. Hwy. 66 at junction 20 miles east of Kingman. Follow graded road toward Gregg's Hideout for 49 miles (about 3 miles short of Gregg's Hideout) Property includes sediments to east.

5. OWNER OR OPERATOR: Mr. William Baker Mr. B. F. Mitchell Mr. A. L. Kissee  
 ADDRESS: Running Springs, California Phoenix, Arizona 3155 Golden Ave.  
 San Bernardino,  
 California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

Gold-mining district south of major fault along Hualapai Wash about 3 miles south of property, only shallow prospect pits present

7. RADIOACTIVITY: LaRoe FV-6S scintillation detector  
 B.G. on schist 0.10 mr/hr - max. in cut 1.4 mr/hr  
 B.G. on limestone 0.04 mr/hr - a ve. along outcrop 0.4 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Small buttes and mesas (relief  $\pm$  400 ft.) in the Basin and Range province adjacent to and west of the Colorado Plateau.

B. Up to 300 ft. of gray pitted Tertiary limestone and marl with lenses of red marl up to 30-ft.-thick overlying relatively flat-lying granite schist. The limestone section has an undulating dip of about  $7^\circ$  south. Top of the section is absent. No pronounced faults observed. Minor joints trend N.  $28^\circ$  -  $30^\circ$  W. and dip  $80^\circ$  -  $85^\circ$  S. Radioactivity in softer marly zones between resistant limestone beds; several zones count but best is about 100 ft. below mesa top or about 250 ft. (?) above schist.

C. Psilomelane and manganite as pods in schist. Minor carnotite and fluorescent silica (?) in sediments usually associated with red iron staining. No extensive silicification present.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 1-25-54, 2-13-54

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

DISTRICT White Hills and Red Lake -  
Gold Basin

NEAREST TOWN Kingman, Arizona

PROPERTY All mine development

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

## 3. TYPE OF EXAMINATION:

Radiometric and geologic surface and underground

4. DIRECTIONS TO DEPOSIT: Area examined is north of U. S. 66 to Lake Mead and west of U. S. 93 to Grand Wash Cliffs, excluding Wallapai mining district in Cerbat Mountains.

5. OWNER OR OPERATOR:

ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Area has been extensively developed for gold and silver ores.

7. RADIOACTIVITY: Insignificant

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Broad valleys, washes, steep granitic mountains and high mesas.

B. Pre-Cambrian granite gneiss and schists overlain by Paleozoic, Mesozoic and Tertiary sediments and lavas.

C. Quartz veins bearing gold and silver.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Donald C. Barrett 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 11-17-53

## 1. SAMPLES

<u>NUMBER</u>	<u>TYPE AND WIDTH</u>	<u>RADIOACTIVITY</u>

DISTRICT \_\_\_\_\_

NEAREST TOWN Mesquite, Nevada

PROPERTY \_\_\_\_\_

LOCATION:

SEC. \_\_\_\_\_ T. 36 N. R. 16 W.

## 3. TYPE OF EXAMINATION:

Radiometric

4. DIRECTIONS TO DEPOSIT: Take road south from Riverside, Nevada; keep to left (except at road marked Keywest mine) until you reach Jacobs Ranch. (approx. 36 mi.). Turn left at north side of first gate beyond ranch and go to end of road. Deposit lies in red hills to southwest.

5. OWNER OR OPERATOR:  
 ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Staked about 18 years ago; nothing shipped - assessment work not being kept up.

7. RADIOACTIVITY:

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Deposit lies in a block fault outlier of the Triassic red beds found to the north around St. George, Utah.

Oxidized copper minerals coating shale and sandstone with carbon trash present in some specimens. The horizon containing the copper could be the same as the Silver Reef sandstone group of the Chinle. Numerous petrified logs present.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, D. C. Barrett 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED November 16, 1953

DISTRICT \_\_\_\_\_

1. SAMPLES

<u>NUMBER</u>	<u>TYPE AND WIDTH</u>	<u>RADIOACTIVITY</u>
100216,	Under surface grab east of Monument	None
100216A.	Under surface grab south of Monument	None
100216B,	Surface - creek bottom clay	900 cps

NEAREST TOWN Mesquite, NevadaPROPERTY Midis claimLOCATION: 1/2 mi. north of Jacobs Cotton-wood RanchSEC. \_\_\_\_\_ T. 39 N. R. 15 W.3. TYPE OF EXAMINATION:  
Surface radiometric

4. DIRECTIONS TO DEPOSIT: Turn off U. S. 91 at Riverside to south, 25 miles to Layton Ranch - north 16 miles to Jacobs Ranch

5. OWNER OR OPERATOR: A. E. Carter  
ADDRESS: 1630 Yale Avenue  
Salt Lake City 5, Utah  
Phone: 3-2481

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Large area of bomb fallout 5 miles long, 1/2 mile wide:  
300 cps to 900 cps, Halross 939 Scintillometer, dug under surface - no count

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. East side of Virgin Mountains - east side Cottonwood Wash.

B. Miocene conglomerate.

C. Iron oxide stains.



## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 4/8/54  
 DISTRICT Owens  
 1. SAMPLES  
 NEAREST TOWN Wenden  
 PROPERTY Blue Smoke claim  
 (Part of group; number of claims  
 LOCATION: unknown)  
 SEC. 15 T. 11 N. R. 14 W.  

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU <sub>3</sub> O <sub>8</sub>	%ThO <sub>2</sub>
34903	Grab	0.02	.01
34904	Grab	< 0.01	
34906	Grab	< 0.01	
34910	Grab	0.07	

 3. TYPE OF EXAMINATION:  
 Radiometric and geologic - surface

4. DIRECTIONS TO DEPOSIT: Two miles east of Rawhide mine on Yucca-Alamo Road

5. OWNER OR OPERATOR: J. E. Rogers, T. J. Rogers, J. L. Lake  
 ADDRESS: Wenden, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Location work

7. RADIOACTIVITY: 300 - 700 cps Halross, B. G. 60 cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gentle topography.

B. Post-Cambrian (?) granite intrusive in Precambrian granite gneiss. Intrusive extensively altered, silicified and sheared.

C. Granite, quartz, hematite, limonite, uranium mineral or minerals.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King, A. J. Rambosek 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 12/6/52

1. SAMPLES

<u>NUMBER</u>	<u>TYPE</u>	<u>AND WIDTH</u>	<u>RADIOACTIVITY</u>
---------------	-------------	------------------	----------------------

DISTRICT WallapaiNEAREST TOWN Kingman, ArizonaPROPERTY Summit mine

## LOCATION:

SEC. 32 T. 23 N. R. 17 W.

## 3. TYPE OF EXAMINATION:

Surface and underground radiometric

4. DIRECTIONS TO DEPOSIT: Follow U. S. Highway 66 east from Kingman, Arizona, approximately 1 mile; turn north on dirt road along the east slope of Cerbat Range. Follow road past Stockton mine up canyon to rest of range. Follow road north along crest of range approximately  $\frac{1}{2}$  mile; across to west slope. Follow road approximately  $\frac{3}{4}$  mile to upper workings of mine.

5. OWNER OR OPERATOR: Mr. Ralph R. Langley  
 ADDRESS: 1156 South Highland Avenue  
 Los Angeles 19, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 History - an early base-metal producer  
 Production - unknown  
 Workings - several hundred feet of drifts and crosscuts

7. RADIOACTIVITY:  
 B. G. - 30 cps  
 High, 525 cps

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Steep, barren mountain slopes, near the crest of the Cerbat Range.

B. Fissure vein in gneissoid granite and schist.

C. Pb, Zn, Cu, Au, Ag; radioactive mineral not identified.

PRELIMINARY RECONNAISSANCE REPORT- RA-13

1. SAMPLE INFORMATION:

NUMBER            TYPE                            RADIOACTIVITY

2. STATE Arizona

COUNTY Mohave

DISTRICT Wallapai

CLAIM/MINE Columbus, Monroe Doctrine

NEAREST TOWN Kingman, Arizona

SEC. 7 (?) T. 22 N. R. 17 W.

3. OWNER: Nina Uncapher, owner (address unknown)  
 ADDRESS: J. H. Hall, lessee (address unknown) - see book of claims J and JJ,  
p. 210.

4. PREVIOUS WORK: One adit, one winze, amount of stoping unknown

Directions to deposit: Follow U. S. 93-466 northwest 12 miles from Kingman.  
Turn east 2 1/2 miles on dirt road up Cerbat canyon; turn northeast up small canyon  
at west end of Cerbat canyon.

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939

BACKGROUND ON 15 cps SCALE 120 cps C/M OR DIAL READING OF 20 cps

6. DESCRIPTION OF EXAMINATION: RESULTS: No favorable radiometric  
anomaly noted

TYPE OF MAPPING  
GEOLOGIC    RADIOMETRIC

DETAIL

RECONN.

SURFACE

UNDRGRND.

X

X

7. MINERALOGIC ASSOCIATION: Sulfides and oxides of Cu, Fe, Zn and Pb.

8. GEOLOGIC ENVIRONMENT: Gneissoid granite.

9. TYPE OF DEPOSIT: Fissure.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY A. J. Rambosek,  
E. N. King

12. DATE(S) August 18, 1952

13. HAS A PROOF OF OWNERSHIP FORM  
 BEEN DISTRIBUTED No

14. SUPPLEMENTARY REPORT TO  
 FOLLOW NOT NECESSARY X

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 18, 1953

DISTRICT Wallapai

1. SAMPLES

NUMBER    TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Kingman, Arizona

PROPERTY Florese, Columbus, Monroe  
 Doctrine mines

LOCATION:

SEC. 13 T. 22 N.R. 37 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Twelve miles northwest from Kingman, Arizona, on U. S. Highway 93; turn right or east on dirt road into Cerbat Canyon. Proceed for three miles.

5. OWNER OR OPERATOR: Columbus mine: Mrs. Nina Uncapher, Chloride, Arizona, (1947)  
 ADDRESS: Florese mine: Marie Jones, Los Angeles, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Moderate to steep open slopes on the north side of Cerbat Canyon.

B. Gold ores occur in small shoots or lenses in veins of quartz and gouge that fills fault fissures in Precambrian amphibole schist and granites.

C. Quartz, gold, silver, galena, sphalerite, pyrite, chalcopyrite.

PRELIMINARY RECONNAISSANCE REPORT- RA-18

1. SAMPLE INFORMATION:  
NUMBER            TYPE                            RADIOACTIVITY

2. STATE Arizona  
COUNTY Mohave  
DISTRICT Wallapai  
CLAIM/MINE Hopkins-Feldspar claim  
NEAREST TOWN Kingman,  
SEC. 27 T. 22 N. R. 17 W.

3. OWNER: Hopkins (first name unknown)  
ADDRESS: Unknown

4. PREVIOUS WORK: Workings include open pit; claim produced some feldspar.  
Directions to deposit: Turn north from U. S. Highway 66 in East Kingman;  
follow dirt road approximately 1½ miles; turn west toward Consolidated Feldspar  
mine. Follow dirt road around south flank of mountain up canyon approximately \*

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939

BACKGROUND ON 15 cps SCALE 120 C/M OR DIAL READING OF 125 cps

6. DESCRIPTION OF EXAMINATION: RESULTS: No anomalous radioactivity noted  
TYPE OF MAPPING  
GEOLOGIC    RADIOMETRIC \* 1 mile west of Consolidated Feldspar.

DETAIL  
RECONN.  
SURFACE  
UNDRGRND.                            x

7. MINERALOGIC ASSOCIATION: Feldspar, mica ?

8. GEOLOGIC ENVIRONMENT: Feldspar deposit in pegmatite.

9. TYPE OF DEPOSIT: Pegmatite dike.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY A. J. Rambosek  
E. N. King

12. DATE(S) 8/20/52

13. HAS A PROOF OF OWNERSHIP FORM  
BEEN DISTRIBUTED \_\_\_\_\_

14. SUPPLEMENTARY REPORT TO  
FOLLOW \_\_\_\_\_ NOT NECESSARY \_\_\_\_\_

## SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson, A. J. Rambosek  
 DATE(S) OF EXAMINATION July 13, 1952

SUPPLEMENT NO. \_\_\_\_\_  
 DATE OF THIS REPORT July 13, 1952  
 DATE OF PREVIOUS REPORT July 24, 1950

## 1. SAMPLE DATA

NUMBER	ASSAY %U <sub>3</sub> O <sub>8</sub>		OTHER ELEMENTS
	RADIOMETRIC	CHEMICAL	CHEMICAL
F-2969	x		x
F-2972			

2. STATE Arizona COUNTY MohaveDISTRICT CottonwoodNEAREST TOWN Kingman, ArizonaPROPERTY Big Ledge Nos 1, 2, 3,  
4 - Helena no. 1, 2

LOCATION:

SEC. 33 T. 28 N. R. 20 W.

3. OWNER OR OPERATOR: Helena claims - Clarence Wilson, Hardin Clark,  
 ADDRESS: John Carrara Heirs, Kingman; Big Ledge claims - same  
as for Helena claims Communicate with: Hardin Clark, Box 664, Kingman,  
Arizona (Bert Gaylord, prior owner)

4. ADDITIONAL INFORMATION ON MINERALOGY, RADIOACTIVITY, GEOLOGY, MINING, ETC.:  
Slight radioactivity found in hanging wall of Big Ledge claims in red  
brecciated, recemented jasper. Maximum cps 800 in prospect pit at point  
where Big Ledge Canyon crosses structure.

No indication of radioactivity found on Helena claims; mineralization chiefly  
Pb, Zn and Fe sulfides, carbonates (gold and silver reported).

## 5. TO BE FOLLOWED BY:

ADDITIONAL SUPPLEMENTARY REPORT \_\_\_\_\_ MEMORANDUM REPORT \_\_\_\_\_ BOUND REPORT \_\_\_\_\_

PRELIMINARY RECONNAISSANCE REPORT- RA-19

1. SAMPLE INFORMATION:
- | <u>NUMBER</u> | <u>TYPE</u>    | <u>RADIOACTIVITY</u>            |
|---------------|----------------|---------------------------------|
| 2.            | STATE          | Arizona                         |
|               | COUNTY         | Mohave                          |
|               | DISTRICT       | Wallapai                        |
|               | CLAIM/MINE     | Stockton mine                   |
|               | NEAREST TOWN   | Kingman, Arizona                |
|               | SEC. <u>10</u> | T. <u>22 N.</u> R. <u>17 W.</u> |
3. OWNER: Unknown  
ADDRESS: Unknown
4. PREVIOUS WORK: Workings include approximately 2700' of crosscut.  
Directions to deposit: Take road north from U. S. Highway 66 in East Kingman;  
follow dirt road along east side of Cerbat Range approximately five miles.  
Property is in foothills of range.
5. TYPE GEIGER COUNTER Scintillator MFR Halross MODEL 939  
BACKGROUND ON 15 cps SCALE 120 C/M OR DIAL READING OF 15-20  
cps
6. DESCRIPTION OF EXAMINATION: RESULTS:  
TYPE OF MAPPING No radiometric anomaly noted on dump  
GEOLOGIC RADIOMETRIC
- |           |   |
|-----------|---|
| DETAIL    |   |
| RECONN.   |   |
| SURFACE   | x |
| UNDRGRND. |   |
7. MINERALOGIC ASSOCIATION: Base-metal sulfides and some oxides also noted.
8. GEOLOGIC ENVIRONMENT: Granite and schists.
9. TYPE OF DEPOSIT: Fissures
10. GEOLOGIC SKETCH MAP:
11. EXAMINED BY A. J. Rambosek  
E. N. King
12. DATE(S) 8/20/52
13. HAS A PROOF OF OWNERSHIP FORM  
BEEN DISTRIBUTED \_\_\_\_\_
14. SUPPLEMENTARY REPORT TO  
FOLLOW \_\_\_\_\_ NOT NECESSARY \_\_\_\_\_

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED March 1954

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY
100812A	Grab		0.03% eU <sub>3</sub> O <sub>8</sub>

DISTRICT GreenwoodNEAREST TOWN SignalPROPERTY Kistler prospect

LOCATION:  
 SEC. 15 T. 13 N. R. 12 W.

3. TYPE OF EXAMINATION: **Radiometric and  
 geologic of surface**

4. DIRECTIONS TO DEPOSIT: **Go about 4 miles east of Signal. Property is 1/2 mile  
 southeast-east from State mine and 3/4 mile southwest of Greenwood Peak.**

5. OWNER OR OPERATOR: **Mr. Otis Kistler**  
 ADDRESS: **Wickieup, Arizona**

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: **Halross scintillometer 939 - 800 to 1000 cps; radioactivity is  
 confined to a biotite schist within coarse crystalline granite and is of small  
 areal length and breadth (50 by 2 feet).**

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

**A. Moderate slope of foothills of Greenwood Peak.**

**B. Quartz impregnation in biotite schist.**

**C. Abnormal radioactivity localized in biotite schist dike (?) in granite.**



PRELIMINARY RECONNAISSANCE REPORT- RA-23

1. SAMPLE INFORMATION:

<u>NUMBER</u>	<u>TYPE</u>	<u>RADIOACTIVITY</u>
		<u>% eU308</u>
F-11541	Grab - mill feed	0.002
F-11542	Grab - mill concentrate	0.001

2. STATE Arizona  
 COUNTY Mohave  
 DISTRICT Wallapai  
 CLAIM/MINE Golden Gem mine of\*  
 NEAREST TOWN Kingman, Arizona  
 SEC. 17 (?) T. 22 N. R. 17 W.

\* Golden Gem group, Idaho mine

3. OWNER: Chas. and Sam Stilen, Kingman, Arizona (owners) A. W. Clapp (lessee)  
 ADDRESS: Pasadena, California  
 See book of deeds: 14, P 115, Sur 1287; 22, P. 284, Sur 2779; 21, P. 568, Sur 2779

4. PREVIOUS WORK:  
 Shaft (inaccurate) of unknown depth - Amount of drifting, crosscutting and stoping unknown. Directions to deposit: Turn east from U. S. Highway 93-466 on dirt road 12 miles northwest of Kingman, Arizona. Follow dirt road east into Cerbat\*  
 5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939

BACKGROUND ON 20 cps SCALE 120 C/M OR DIAL READING OF 20-25  
 cps

6. DESCRIPTION OF EXAMINATION: RESULTS: \* canyon approximately 3 miles  
TYPE OF MAPPING  
GEOLOGIC RADIOMETRIC  
 No favorable radiometric anomaly noted on surface material

DETAIL  
 RECONN.  
 SURFACE x  
 UNDRGRND.

7. MINERALOGIC ASSOCIATION: Sulfides of Fe, Cu, Zn and Pb.

8. GEOLOGIC ENVIRONMENT: Gneissoid granite.

9. TYPE OF DEPOSIT: Fissure.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY A. J. Rambosek  
E. N. King

12. DATE(S) 8/18/52

13. HAS A PROOF OF OWNERSHIP FORM BEEN DISTRIBUTED No

14. SUPPLEMENTARY REPORT TO FOLLOW NOT NECESSARY

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY J. G. Henderson 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED September 9, 1955

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

NEAREST TOWN Boulder City

PROPERTY Plendina claims (area of 2 by 1 1/2 or 3 square miles)

LOCATION: 32, 33      29 N.      22 W.  
 SEC. 4, 5      T. 28 N.      R. 22 W.

3. TYPE OF EXAMINATION: **Preliminary radiometric**

4. DIRECTIONS TO DEPOSIT: **Go about 23.1 miles from Boulder City on U. S. 93 to Kingman, Arizona. Turn right and take the Willow Beach road to its end; drive southeast on the Jumbo or Grand wash. Total distance from highway 93 is about 5 miles. Climb mountains on west side of wash.**

5. OWNER OR OPERATOR: **Heath & Updyke**  
 ADDRESS: **2808 East Fremont  
 Las Vegas, Nevada**

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
**No history or production and only a few sample cuts have been made for assays.**

7. RADIOACTIVITY: **Background 0.03 to 0.05 mr/hr; spotty radioactivity up to 0.4 mr/hr along contact of crystalline quartz structure and metamorphosed granitic rock**

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

**A. Mountainous.**

**B. Some Paleozoic sediments on crest of ridge. Erosion exposes a great thickness of metamorphosed Precambrian rock. Pegmatitic dikes also are exposed.**

**C. Mica, magnetic iron oxide and monazite.**

PRELIMINARY RECONNAISSANCE REPORT- RA-22

1. SAMPLE INFORMATION:

NUMBER            TYPE                            RADIOACTIVITY

2. STATE Arizona

COUNTY Mohave

DISTRICT Wallapai

CLAIM/MINE Plomo claim - \*

NEAREST TOWN Kingman, Arizona

SEC. 8 T. 22 N. R. 17 W.

\* Chicago group

3. OWNER: John A. Bell - Somerton, Arizona  
ADDRESS: Bert Ableman, Chloride, Arizona

4. PREVIOUS WORK: Workings include two adits and one winze. Directions to deposit: Turn east on dirt road from U. S. Highway 92-466 at 12 miles northwest of Kingman; then follow dirt road into Cerbat canyon approximately 3 3/4 miles. Property is located on north side of canyon.

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939

BACKGROUND ON 20 cps SCALE 120 C/M OR DIAL READING OF 20 cps

6. DESCRIPTION OF EXAMINATION:

TYPE OF MAPPING  
GEOLOGIC    RADIOMETRIC

RESULTS:

No favorable anomalies noted

DETAIL  
RECONN.  
SURFACE  
UNDRGRND.

--  
x

7. MINERALOGIC ASSOCIATION: Sulfides and oxides of Cu, Pb, Zn and Fe.

8. GEOLOGIC ENVIRONMENT: Gneissoid granite.

9. TYPE OF DEPOSIT: Fissure.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY A. J. Rambosek  
E. N. King

12. DATE(S) 8/18/52

13. HAS A PROOF OF OWNERSHIP FORM  
BEEN DISTRIBUTED \_\_\_\_\_

14. SUPPLEMENTARY REPORT TO  
FOLLOW \_\_\_\_\_ NOT NECESSARY \_\_\_\_\_

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY D. C. Barrett 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED May 1955

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY

DISTRICT \_\_\_\_\_

NEAREST TOWN Boulder City, NevadaPROPERTY Dab no. 1

LOCATION: Unsurveyed  
 SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface radiometric

4. DIRECTIONS TO DEPOSIT: Take Kingman Highway from Hoover Dam for 20 miles and turn north on Bonelli landing road for 13.5 miles. Turn east for 2.8 miles on Temple Bar road for about 4 miles. Claim lies on mesa about 1 mile south.

5. OWNER OR OPERATOR: James A. Anderson, 634 No. 9th St., Las Vegas, Nevada  
 ADDRESS: Otto Daniels, 2628 Salt Lake Avenue., North Las Vegas, Nevada

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 New prospect; no workings

7. RADIOACTIVITY: Maximum radioactivity on La Roe: 0.175 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. The deposit is exposed in a cliff at the head of a wash.

B. The radioactivity occurs in apparent Tertiary lake beds. The highest radioactivity occurs in a gray mudstone which is interbedded with coarse to very fine tuffaceous material. Some radioactivity occurs in cherty zones in a siliceous limestone which caps the mesa.

C. Bright-yellow spots and coatings of secondary uranium minerals are common along bedding planes in the gray mudstone.

## SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY A. J. Richards  
 DATE(S) OF EXAMINATION May 2, 1956

SUPPLEMENT NO. One  
 DATE OF THIS REPORT May 3, 1956  
 DATE OF PREVIOUS REPORT May 9, 1955

## 1. SAMPLE DATA

NUMBER	ASSAY %U <sub>3</sub> O <sub>8</sub>		OTHER ELEMENTS
	RADIOMETRIC	CHEMICAL	CHEMICAL
44273	0.85	0.878	(from DAB No. 1)
46451	0.39	0.383	" " "
A-0220	0.02	0.024	(from Dagmar)

2. STATE Arizona COUNTY Mohave

DISTRICT \_\_\_\_\_

NEAREST TOWN Boulder City,  
Nevada

PROPERTY Dab no. 1 and Dagmar

LOCATION:

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. OWNER OR OPERATOR: Leonard Wilson, 1806 Poplar St., Las Vegas, Nevada  
 ADDRESS: (owner at time of preliminary report was James A. Anderson  
634 N. 9th St., Las Vegas, Nevada

## 4. ADDITIONAL INFORMATION ON MINERALOGY, RADIOACTIVITY, GEOLOGY, MINING, ETC.:

Dab no. 1 - The owner has driven an 18-foot adit into the radioactive clay horizon; the present face shows no appreciable radioactivity. An insignificant number of carnotite smears were observed near the portal of the adit. Radioactivity on 107B: BG 0.05 mr/hr, max. 0.20 mr/hr., average 0.14 mr/hr due to mass effect.

Dagmar - A 60-foot bulldozer cut has exposed a 6-foot thickness of slightly radioactive clays. (The Dagmar claim is on a smaller mass some 2000 feet east of the DAB No. 1 claim.) Smears of carnotite and autunite were observed along this cut, but no ore was indicated. Radioactivity on 107B: 0.05 mr/hr, max. 0.50 mr/hr, average 0.07 mr/hr. Most of the radioactive minerals lie within a 1 foot horizon in the clays.

## 5. TO BE FOLLOWED BY:

ADDITIONAL SUPPLEMENTARY REPORT No MEMORANDUM REPORT \_\_\_\_\_ BOUND REPORT \_\_\_\_\_

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED May 21, 1953

DISTRICT \_\_\_\_\_

## 1. SAMPLES

NEAREST TOWN Fredonia

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY
			% U <sub>3</sub> O <sub>8</sub>
F-11766	Chip	2.6'	0.012
F-11767	Chip	3.0'	0.019
F-11768	Chip	2.0'	0.012
F-11769	Chip	3.6'	0.020

PROPERTY Last Chance 1 to 8

LOCATION:  
 SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION:  
 Surface

4. DIRECTIONS TO DEPOSIT: 9 miles from West Pipe Springs on Cedar Ridge

5. OWNER OR OPERATOR: W. H. Cabeen Ownership of this property is questionable.  
 ADDRESS: 5109 N, 37th St.  
Phoenix, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Old copper prospect

7. RADIOACTIVITY: Unable to obtain normal count. Area contaminated from A-bomb tests in Nevada

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

Low ridge in Shinarump formation - probably a channel; CuOx, FeOx.

## SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. Holen, L. Twitchell  
 DATE(S) OF EXAMINATION January 3, 1955

SUPPLEMENT NO. 1  
 DATE OF THIS REPORT January 10, 1955  
 DATE OF PREVIOUS REPORT May 1953

## 1. SAMPLE DATA

NUMBER	ASSAY %U <sub>3</sub> O <sub>8</sub>		OTHER ELEMENTS	
	RADIOMETRIC	CHEMICAL	CHEMICAL %Cu	
F-11766	0.013 (2.6')	0.012	0.79	
F-11767	0.024 (3.0')	0.019	0.94	
F-11768	0.018 (2.0')	0.012	1.03	
F-11769	0.016 (3.6')	0.020	0.74	
F- 8364	0.040			
F- 1315	0.028 (2.0')	0.022		
F- 1316	0.024 (3.5')	0.021		
F- 1317	0.036 (2.0')	0.024		
F- 1318	0.029 (4.0')	0.021		

2. STATE Arizona COUNTY Mohave

DISTRICT \_\_\_\_\_

NEAREST TOWN Fredonia, ArizonaPROPERTY Rainbow claims  
(formerly Last Chance)

LOCATION:

SEC. 25 T. ? R. 6 W.

3. OWNER OR OPERATOR: George L. Lamb  
St. George, Utah

## 4. ADDITIONAL INFORMATION ON MINERALOGY, RADIOACTIVITY, GEOLOGY, MINING, ETC.:

This prospect is 28 miles west of Fredonia on Cedar Ridge, immediately south of the Pipe Springs-Fredonia road. Interesting copper-uranium mineralization is found in coarse-grained, poorly sorted sandstone with some pebble conglomerate lenses. No uranium minerals were identified. Radioactivity is associated with copper carbonates, FeOx, MnOx(?) and carbonaceous trash. Subsequent investigation indicates that the sandstone probably is a sand member (Hartley ?) of the Chinle formation rather than Shinarump as stated in R-R-106.

The property has been extensively drilled; no holes show any significant radioactivity. Mineralization apparently is confined to coarse sand lenses that were more resistant to erosion, and now remain as small knobs and ridges (up to 15 feet high). Two holes were drilled to 130 and 150 feet deep in an unsuccessful attempt to hit the Shinarump formation. The operator understandably did not feel that the remote possibility of finding ore in the Shinarump justified expensive deeper drilling. Except for a few feet at the top, all holes were in variegated red, gray and purple clays and marls typical of the Petrified Forest member of the Chinle formation.

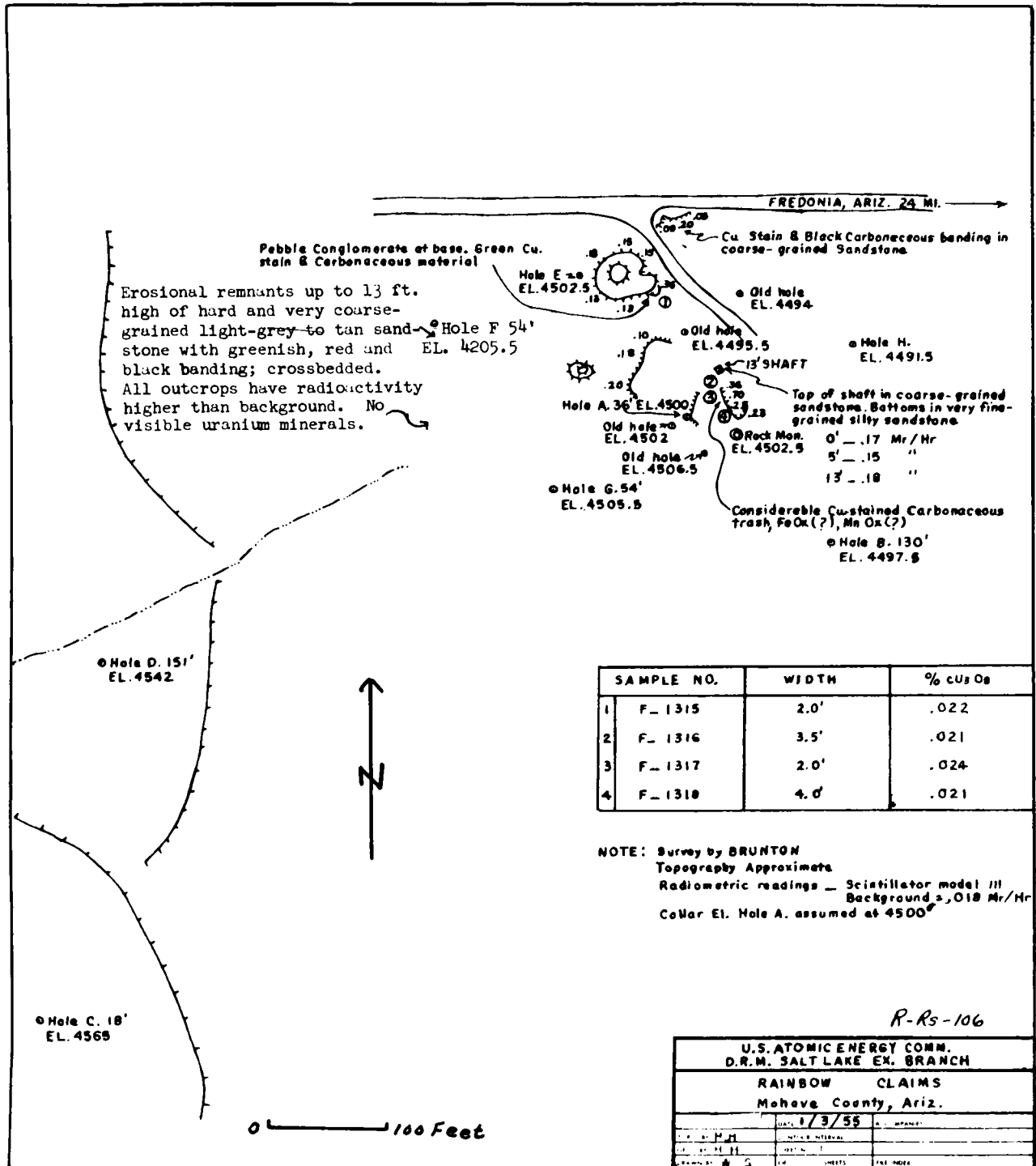
Radioactivity in the coarse sandstone knobs increased from top to bottom, suggesting that uranium mineralization might possibly increase at depth, but this was not the case. A 13-foot shaft sunk near the area of greatest radioactivity bottomed in a soft, very fine-grained, silty sandstone with no mineralization. Drill holes C and D collared on a ridge about 65 and 42 feet above the mineralized zone; they did not intersect the coarse sand lens.

A few loads of ore of unknown grade have been shipped from the Radon group of claims a couple of hundred yards to the north, apparently from the same stratigraphic horizon. It is understood that a drilling program will be started

## 5. TO BE FOLLOWED BY:

ADDITIONAL SUPPLEMENTARY REPORT \_\_\_\_\_ MEMORANDUM REPORT \_\_\_\_\_ BOUND REPORT \_\_\_\_\_

in the near future in an attempt to intersect ore from the same horizon on the Kim claims about 1 mile to the west.





PRELIMINARY RECONNAISSANCE REPORT-192 USGS  
RA-10

1. SAMPLE INFORMATION:

<u>NUMBER</u>	<u>TYPE</u>	<u>RADIOACTIVITY</u>
		% U
EWT-1	grab, dump	0.12
EWT-2	grab, dump	0.14

2. STATE Arizona  
 COUNTY Mohave  
 DISTRICT Rawhide  
 CLAIM/MINE Red Hills  
 NEAREST TOWN Congress Junction  
 SEC. 7 T. 11 N. R. 13 W.

3. OWNER: E. W. Tate  
 ADDRESS: Wenden, Arizona

4. PREVIOUS WORK: Geologic map 1:31,250 in Artillery Mountains Manganese Report, U.S.G.S. Bull. 961, 1949.

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939  
 BACKGROUND ON \_\_\_\_\_ SCALE \_\_\_\_\_ C/M OR DIAL READING OF 50-100

6. DESCRIPTION OF EXAMINATION:

	<u>TYPE OF MAPPING</u>	
	<u>GEOLOGIC</u>	<u>RADIOMETRIC</u>
DETAIL	x	x
RECONN.	x	x
SURFACE		
UNDRGRND.		

RESULTS: Narrow zone about 300 feet long includes abnormal radioactivity. This zone strikes about east-west, across the shear-zone trend of N. 55° W.

7. MINERALOGIC ASSOCIATION: Barite, fluorite, copper stain; no fluorite below surface.

8. GEOLOGIC ENVIRONMENT: Artillery formation, breccia of schist, felsite, conglomerate, limestone. Shaft sunk in a broken zone of rhyolite breccia to a depth of 21 feet.

9. TYPE OF DEPOSIT: Locally radioactive fracture.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY E. P. Kaiser  
H. C. Granger

12. DATE(S) November 28, 29, 1950

13. HAS A PROOF OF OWNERSHIP FORM BEEN DISTRIBUTED no

14. SUPPLEMENTARY REPORT TO FOLLOW x NOT NECESSARY \_\_\_\_\_

**RECONNAISSANCE REPORT**

Assay results					Reference No. _____
No.	Description	Percent	Oz./ton		Date <u>October 11, 1950</u>
		U308	Pb	Ag	Au
F-8081	Chip channel, 4.5', north end of radioactive zone	Tr.	1.63	2.1	Tr.
					State <u>Arizona</u>
					County <u>Mohave</u>
					District <u>Wallapai</u>
F-8099	Chip channel, 3.6', 26' south of F-8081	.042	6.55	3.7	.02
					Location <u>Sec. 8 (?)</u> ,
					T. 22 N., R. 17 W. (15 miles north of Kingman)
F-8082	Chip channel, 3.3', 26 feet south of F-8099 and 9' down raise	.011	0.92	0.8	Tr.
F-8098	Radioactive material for mineralogic study	.150	(NOTE: Radiometric work on channel samples indicates that the material is out of equilibrium and is strongly leached.) (sent to U. S. Bur. Mines laboratory)		
F-8098	" "	1.310	(sent to AEC laboratory)		

1. Name of prospect: Jim Kane mine Owner: J. H. Kane, Kingman, Arizona  
Examined by: R. J. Wright Date: July 25, 1950
  
2. Description of examination: This is a small lead mine on a block of eight claims held by location. Workings consist of two adits with about 1000 feet of underground work and a single stope.
  
3. Type of deposit: The ore body consists of an altered and grecciated gouge zone up to 20 feet wide in Precambrian amphibolite, gneiss and younger granite. The hanging wall of the ore body is a well-defined fault trending N. 60° E. and dipping 60° NE. Galena forms pods and streaks in the gouge. These carry about 40% Pb with a few ounces silver and negligible copper and zinc. Galena also forms small grains in the gouge. The single stope is said to have averaged, over mining width, 8% Pb and 5 oz. Ag/ton.
  
4. Mineralogic associations: The radioactive material is found along the stope floor for a strike length of about 50 feet, and is localized especially along the hanging wall. On the drift 23 feet below, fluorescent radioactive coatings appear on the drift walls, and the drift is radioactive for 25 feet south of the end of the radioactive zone in the stope above. A raise is radioactive for about 40 feet above the stope floor.
  

U. S. Bur. Mines laboratory report on F-8098: This sample is composed of the following minerals in approximate order of their abundance - quartz, galena, limonite, manganese oxides, sphalerite, cerussite, smithsonite and sporadic grains of pyrite, chalcopyrite and covellite. Radiometric tests on flotation and gravity concentrates showed about the same activity as the hand sample. The heads indicate 0.17% eU. Qualitative sodium fluoride tests for uranium showed that the limonite-stained minerals contain the strongest fluorescent beads although a positive bead test for uranium was obtained from isolated grains of galena. No pitchblende was noted in any of the products or polished surfaces examined.

  
5. History of prospect: Last lead production was in 1939.

PRELIMINARY RECONNAISSANCE REPORT- RA-21

1. SAMPLE INFORMATION:

NUMBER	TYPE	RADIOACTIVITY	
		cps	% U <sub>3</sub> O <sub>8</sub>
F-11539	Chip 1.2'	250 cps	0.006
F-11540	Chip 2.0'	200 cps	0.003

2. STATE Arizona  
 COUNTY Mohave  
 DISTRICT Wallapai  
 CLAIM/MINE Jim Kane  
 NEAREST TOWN Kingman, Arizona  
 SEC. 8 T. 22 N. R. 17 W.

3. OWNER: James Kane  
 ADDRESS: General Delivery, Kingman, Arizona

4. PREVIOUS WORK: Directions to deposit: Follow U. S. Highway 93-466 for 12 miles northwest of Kingman; turn left on dirt road. Follow dirt road east to head of Cerbat canyon approximately 5 miles from highway.

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939  
 BACKGROUND ON 15 cps SCALE 120 C/M OR DIAL READING OF \_\_\_\_\_

6. DESCRIPTION OF EXAMINATION:

TYPE OF MAPPING  
GEOLOGIC RADIOMETRIC

DETAIL  
 RECONN.  
 SURFACE  
 UNDRGRND.

RESULTS:

Dump = 15 20 cps -- Adit #1 (N. 60° E. from ore bin) Radiometric anomaly - 40 cps  
 Adit No. 2 (S. 53° E., dip northeast = 200 cps No.3 adit (100' plus or minus above ore bin) = 25 cps Ore on dump 75-100 cps;  
 dump = 40 cps Intermediate drift (S. 63° E.) 200-250 cps -- (see samples)

Note: No. 1 adit caved at point where cross-cut cut structure

7. MINERALOGIC ASSOCIATION:

Sulfides and oxides of Cu, Fe, Zn and Pb.

8. GEOLOGIC ENVIRONMENT:

Gneissoid granite.

9. TYPE OF DEPOSIT:

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY A. J. Rambosek  
E. N. King

12. DATE(S) 8/18/52

13. HAS A PROOF OF OWNERSHIP FORM BEEN DISTRIBUTED \_\_\_\_\_

14. SUPPLEMENTARY REPORT TO FOLLOW \_\_\_\_\_ NOT NECESSARY \_\_\_\_\_

## SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Harry E. Nelson  
 DATE(S) OF EXAMINATION June 1, 1955

SUPPLEMENT NO. 1  
 DATE OF THIS REPORT June 1, 1955  
 DATE OF PREVIOUS REPORT Aug. 18, 1952

## 1. SAMPLE DATA

NUMBER	ASSAY %U <sub>3</sub> O <sub>8</sub>		OTHER ELEMENTS
	RADIOMETRIC	CHEMICAL	CHEMICAL

2. STATE Arizona COUNTY MohaveDISTRICT WallapaiNEAREST TOWN KingmanPROPERTY Jim Kane

LOCATION:

SEC. 8 T. 22 N. R. 17 W.

3. OWNER OR OPERATOR: Lessees: **Arvin Ageen**                      **John Crinklaw**  
 ADDRESS:                      **Route 2, Box 260**                      **P. O. Box 337**  
    **Comarillo, Calif.**                      **Crowsland, Calif.**

## 4. ADDITIONAL INFORMATION ON MINERALOGY, RADIOACTIVITY, GEOLOGY, MINING, ETC.:

These men told me that they were going to apply for a DMEA loan for uranium; thus it was thought necessary to look at this property. They have reopened the old adit level some 135 feet below the upper tunnel level where uraniumiferous lead ore is exposed, about 10 feet in strike length of anomalous radioactivity. The best anomalous radioactivity seen is in an old stope about 25 feet above the upper tunnel level; here the anomalous strike length is about 30 feet long. Using a strike of N. 55° W. and a dip of 50° NE., it was calculated that, even if they reopened the old tunnel 135 feet below, this zone probably would not be exposed, but likely would be still farther to the northeast. No anomalous radioactivity was noted in the lower tunnel.

5. TO BE FOLLOWED BY:  
 ADDITIONAL SUPPLEMENTARY REPORT No MEMORANDUM REPORT        BOUND REPORT

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Harlen Holen, L. Twitchell 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 24, 1955, April 12, 1955

1. SAMPLES \* submitted by owners

DISTRICT \_\_\_\_\_

NEAREST TOWN Fredonia, Arizona

PROPERTY Katy J claims

LOCATION:

SEC. \_\_\_\_\_ T. 38 N. R. 5 W.

3. TYPE OF EXAMINATION:

NUMBER	TYPE AND WIDTH	RADIOACTIVITY	
		% eU308	% cU308
F-1340	Grab, 1.0'	0.019	0.016
F-1341	Grab, 1.0'	0.040	0.129
F-1342	Select, carbonaceous trash	0.039	0.047
F-1343	Grab, 0.8'	0.066	0.014
*A-1601		0.224	0.149
*A-1602		0.067	0.078
*A-1603	Select, mineralized wood	6.71	6.62

4. DIRECTIONS TO DEPOSIT: Take Pipe Springs road from Fredonia for 9 miles; turn left on Grand Canyon National Monument road. Go 8 miles to Bullrush bridge; deposit is 0.6 mile S. 25° W. of bridge.

5. OWNER OR OPERATOR: Andy Kasky, Bill Taylor Leased to Mining Investments  
 ADDRESS: c/o Pat Jensen Exploration Co., 129 West  
 Fredonia, Arizona Water Street, Santa Fe, New Mexico

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: No history or production; a few 1'-1½' deep holes

7. RADIOACTIVITY: Precision model 111 scintillator - background 0.015 mr/hr, maximum 0.80 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Gully in gently rolling plain.

B. Moenkopi formation, probably lower part.

C. Copper carbonates and carbonaceous trash in + 8" friable, white to tan, easily weathered, medium-grained sandstone. Red sandy shale above and below highest radioactivity found right on surface in rock of same lithology but not the same bed. Numerous "hot spots" found over a wide area on the surface and along outcrop exposed by gully. No uranium minerals identified.

After drilling several holes in the vicinity of some spotty uranium-copper mineralization associated with carbonaceous trash and fossil wood in the Moenkopi formation, the operators abandoned the property when they found out that they were not in the Shinarump formation as they originally presumed. A total of 275 feet was drilled with negative results. At least one of the holes bottomed in the Kaibab limestone formation.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson and 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED A. J. Rambosek  
July 10, 1952 DISTRICT Parrishont wash (Mule canyon)

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY
--------	------	-----------	---------------

F-11931 - Grab - (radiometric and chemical)  
 F-11932 - Grab - petrographic

NEAREST TOWN Mt. TrumbullPROPERTY Chapel claim

LOCATION:  
 SEC. 25 T. 33 N. R. 10 W.

3. TYPE OF EXAMINATION:  
 Radiometric surface

4. DIRECTIONS TO DEPOSIT: Guided to within three miles of deposit by Mr. C. M. Bundy over very rough roads.

5. OWNER OR OPERATOR: C. M. Bundy Omer Bundy  
 ADDRESS: Mt. Trumbull St. George  
 Arizona Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
 No history available on old tunnel

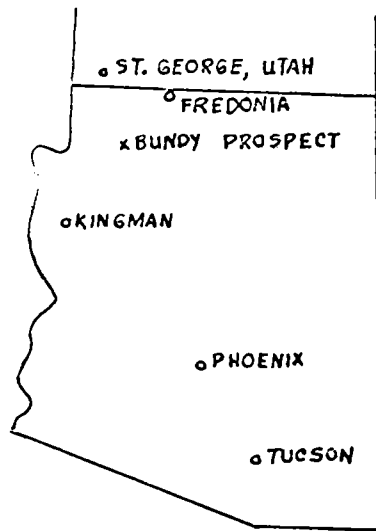
7. RADIOACTIVITY: Anomalous radioactivity was found.

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Inaccessible by road in Mule Canyon 2,500 feet deep.

B. Leached zone in Hermit shale at 600 feet, plus or minus, below Coconino sandstone.

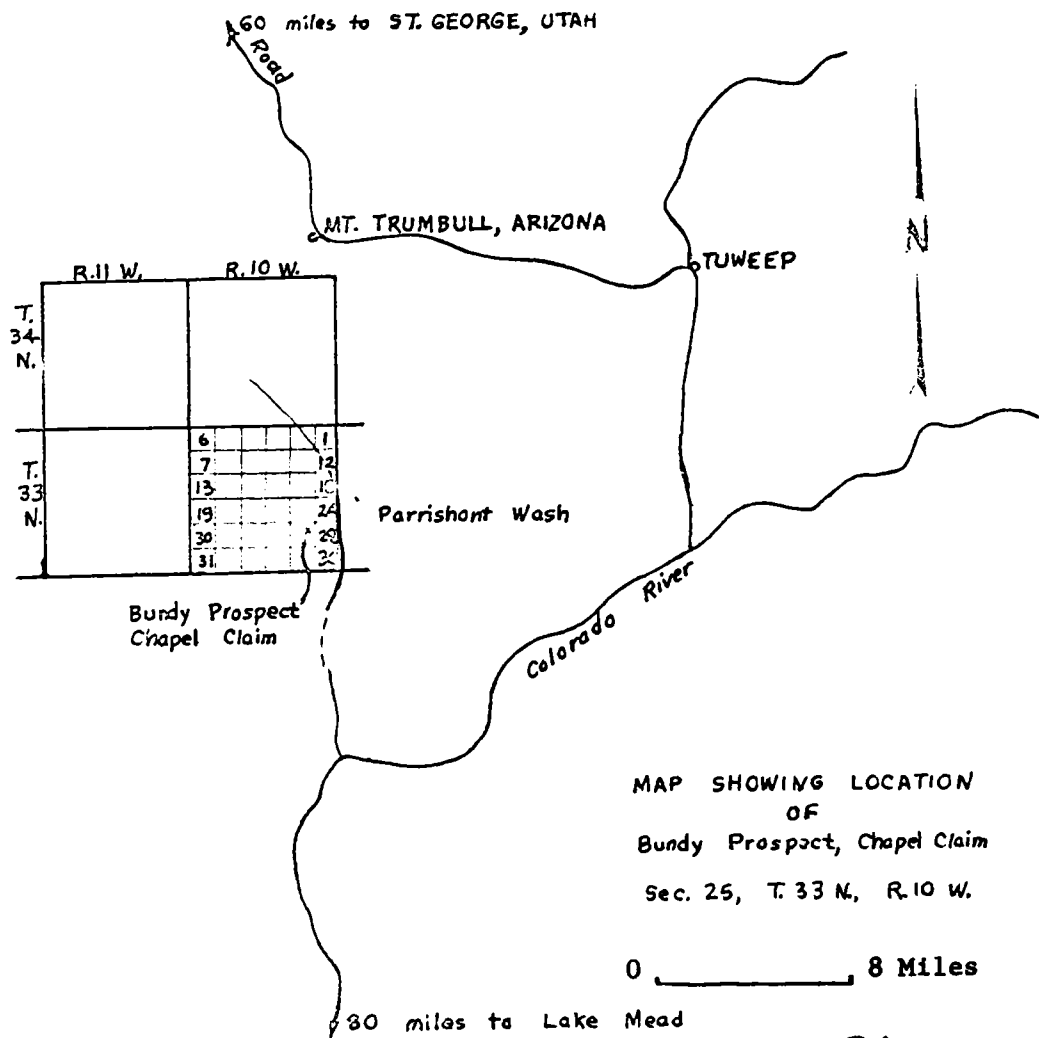
C. Fe Ox, CuOx.



INDEX MAP OF ARIZONA  
SHOWING LOCATION OF

BUNDY PROSPECT, CHAPEL CLAIM, MULE CANYON, PARRISHONT WASH, MOHAVE COUNTY

0 \_\_\_\_\_ 175 Miles

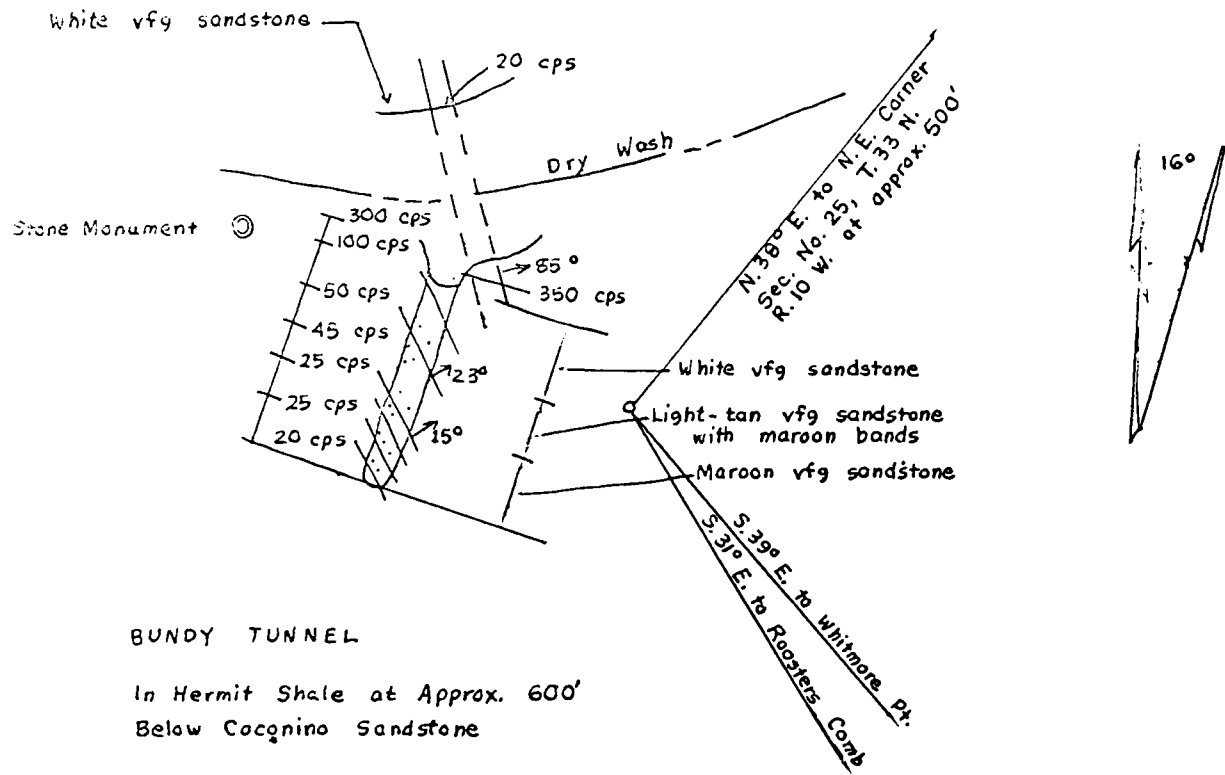


MAP SHOWING LOCATION  
OF  
Bundy Prospect, Chapel Claim  
Sec. 25, T. 33 N., R. 10 W.

0 \_\_\_\_\_ 8 Miles

30 miles to Lake Mead

RA-11

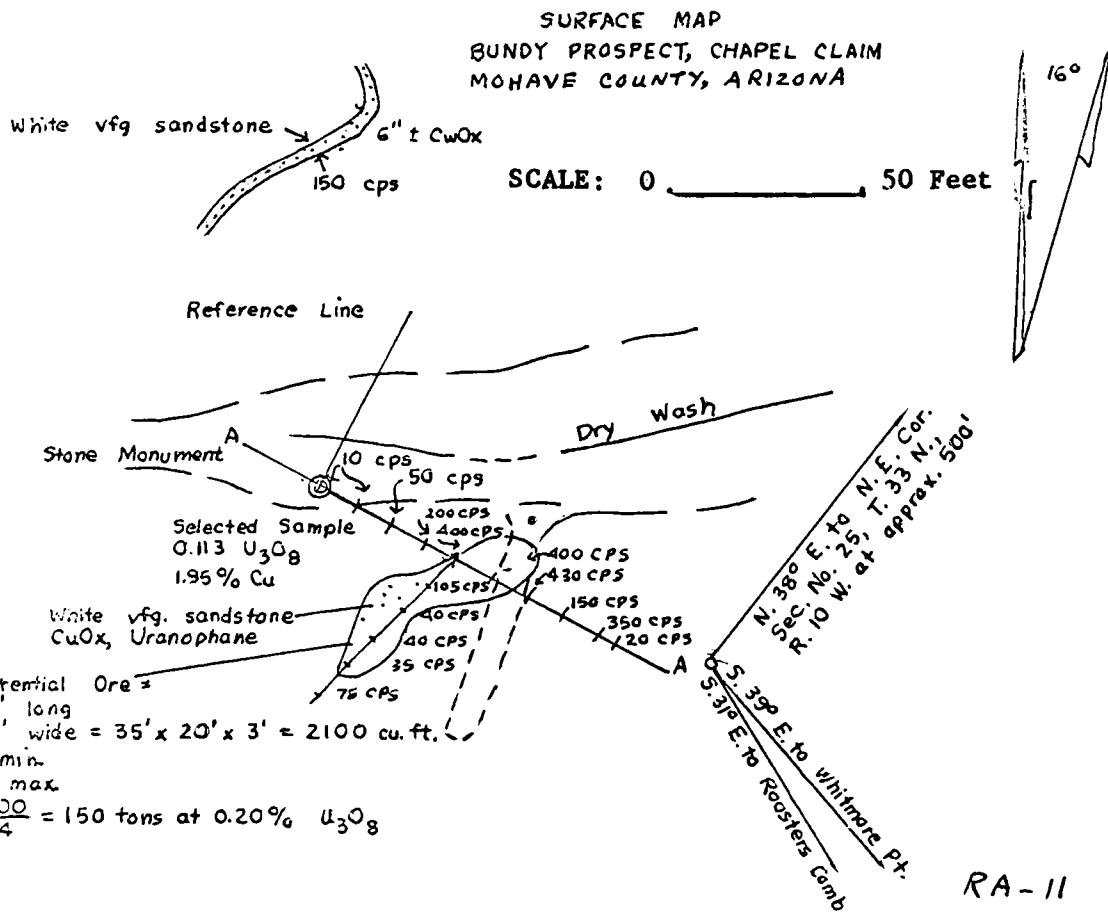


**BUNDY TUNNEL**

In Hermit Shale at Approx. 600'  
Below Cocognino Sandstone

SCALE: 0 \_\_\_\_\_ 50 Feet

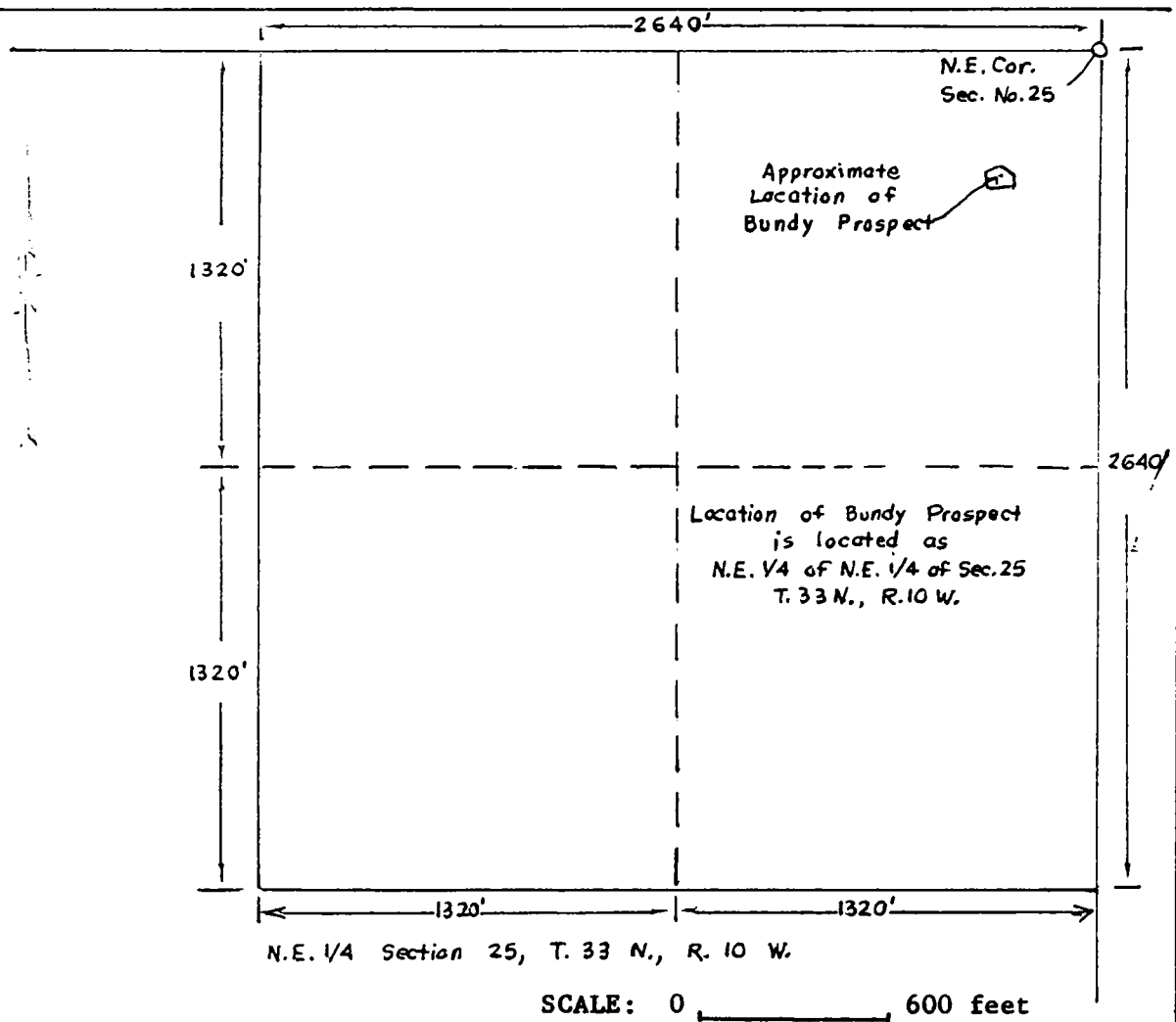
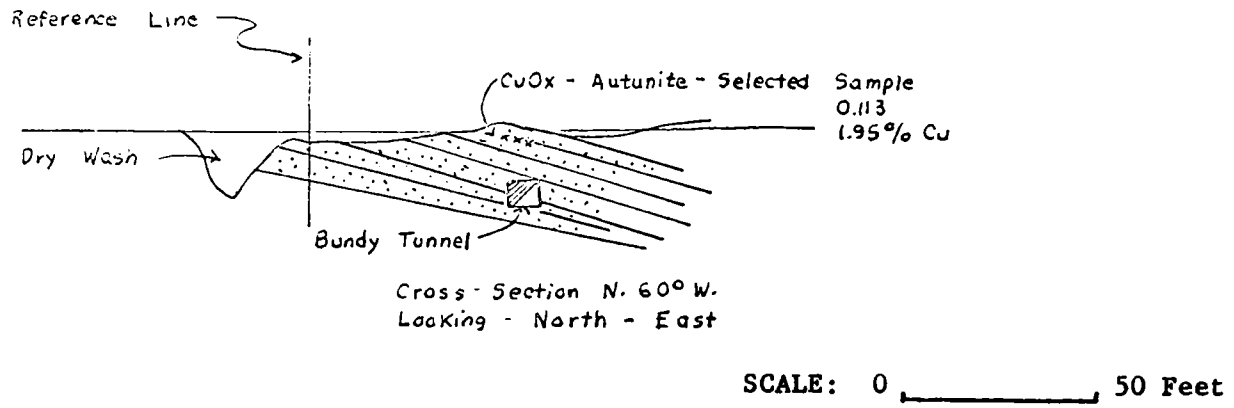
Vfg - Very fine grained



Potential Ore =  
35' long  
20' wide = 35' x 20' x 3' = 2100 cu. ft.  
1' min.  
5' max.  
 $\frac{2100}{14} = 150$  tons at 0.20%  $U_3O_8$

RA-11





BUNDY PROSPECT, MOHAVE COUNTY, ARIZONA

RA-11

U. S. GEOLOGICAL SURVEY

TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Harry C. Granger USGS PRR \_\_\_\_\_

DATE EXAMINED April 24-25, 1951 STATE Arizona

1. Name of property: Hack's claim, Hack's nos. COUNTY Mohave  
2 to 5 claims

Sec. 26 (?) T. 37 N. R. 5 E. DISTRICT \_\_\_\_\_

2. Directions to property: Go 31 miles southwest of Fredonia on Grand Canyon road; go 6.5 miles down Hack canyon.

3. Owner: A. F. Jensen, Raymond Pointer, Clair Pearson, Elliott Pearson, G. C.  
Address: Harwood estate  
Fredonia, Arizona

4. Published references:

5. Mine workings: One tunnel, one incline, one shaft, about 200 to 300 feet of workings

6. Type of examination: Sketch mapping, sampling and radiometric reconnaissance

7. Radioactive deposit: Type and age: Coconino sandstone and Hermit shale  
Wall rocks: Sandstone of Permian age  
and shale

Ore minerals, primary: Pitchblende (?)

Ore minerals, secondary: Torbernite and unknown yellow mineral

Gangue minerals: Associated with chalcocite, malachite, erythrite (?)

Ore-gangue relationship: Fracture fillings and interstitial impregnations

Attitude: Generally northeast with steep Shape:  
southeast dip

Length (strike or other): At least 80 feet Width: Thickness:

8. Counter type: Nuclear

9. Sample information:

<u>No.</u>	<u>Type</u>	<u>% eU</u>	<u>% cU</u>	<u>Location</u>
HG-56-51	Chip	0.081	0.092	Second level
HG-57-51	Chip	0.086	0.100	Second level
HG-58-51	Chip	0.240	0.250	Second level
HG-59-51	Chip	0.052	0.052	Second level
HG-60-51	Chip	0.110	0.110	Second level
HG-61-51	Chip	0.006	0.004	First level
HG-62-51	Chip	0.012	0.009	First level
HG-63-51	Chip	0.018	0.010	First level
HG-64-51	Chip	0.310	0.280	Shaft

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Olin M. Hart 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED March 5, 15, 1954

DISTRICT Central Mohave County

## 1. SAMPLES

NUMBER      TYPE      AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman

PROPERTY \_\_\_\_\_

LOCATION: Hualapai Mountains

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

3. TYPE OF EXAMINATION: Radiometric road traverse, geologic and radiometric examinations of all mines, prospects and current development

## 4. DIRECTIONS TO DEPOSIT:

Area includes that southwest of Highway 93 as far south as Signal and west to Yucca along the Signal-Yucca road

5. OWNER OR OPERATOR:  
ADDRESS:

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Operating mines Borianna and Worthree tungsten mines; past production has been mainly silver and gold with associated minerals; periodic mining of bentonite and mica (Merlo mica)

## 7. RADIOACTIVITY:

## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Mountainous, flanked by low, dissected alluvial fans.

B. Precambrian core with gneiss, schist zones and local pegmatite areas; minor occurrence of siliceous to basic dikes.

C. Wolframite, scheelite, gold, silver, copper and base-metal sulfides, commercial mica in pegmatites.

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. S. Papulak, L. L. Olsen 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED 11/30/56

DISTRICT Bently (?)

1. SAMPLES

NUMBER      TYPE    AND WIDTH    RADIOACTIVITY

NEAREST TOWN Riverside, Nevada

PROPERTY Pasday group (8 claims)

LOCATION: (Inferred)

SEC. 7 T 37 N. R. 14 W.

3. TYPE OF EXAMINATION:  
 Surface radiometric reconnaissance

4. DIRECTIONS TO DEPOSIT: Take the Jacobs Ranch road going south from Riverside Nevada, for .4 mi.; then left 4.3 mi. Go left 17.1 miles; then left 5.3 mi. Go left 5.6 mi.; then left again 2 miles.

5. OWNER OR OPERATOR: Wm. and L. M. Rogers  
 ADDRESS: St. George, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Three prospect pits (in Moenkopi) 71 drill holes - 4700' eight holes were reported to be weakly radioactive.

7. RADIOACTIVITY: B.G. - .02 mr/hr  
 High - .02 - .03 mr/hr

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Broad valley with low crustlike ridges.

B. The eight claims are situated on the east flank of a north-south-trending syncline in a broad structural graben or fault trough (see geologic sketch). The property is bounded on the east by the Grand Wash cliffs, and by hills of Redwall limestone (?) and intrusive and metamorphic rocks to the west. The sediments range from Mississippian Redwall limestone(?) to Jurassic Navajo sandstone. The drilling was done with the purpose of exploring the Shinarump sandstone, which on this property consists of buff colored, medium-to coarse-grained sandstone with little or no conglomerate present.

C. No uranium minerals visible.

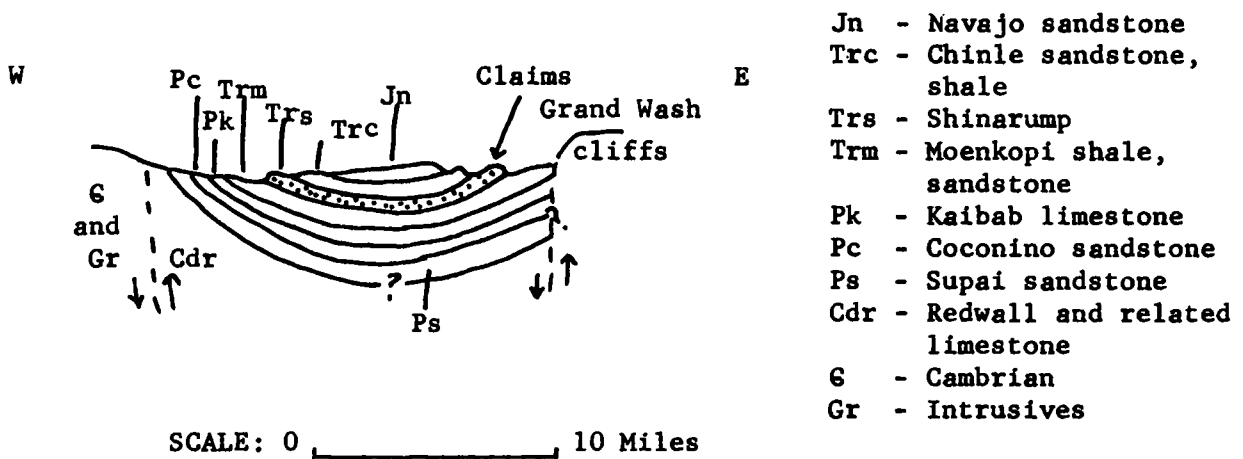
9. PROOF OF OWNERSHIP RECEIVED:  
 PERMISSION TO PUBLISH RECEIVED:

10. OTHER INVESTIGATIONS:

11. ADDITIONAL INFORMATION:

12. MAP:

GENERALIZED GEOLOGIC SKETCH



13. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW No

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. Hart, D. L. Hetland 2. STATE Arizona COUNTY Mohave  
 DATE(S) EXAMINED January 21, 1953

DISTRICT Greenwood

1. SAMPLES NUMBER	TYPE AND WIDTH	% eU RADIOACTIVITY	% U
F-8100	Chip, 1'	0.078	0.11
F-8101	Select chip, 10"	0.21	0.36
F-8178	Channel, 3.3'	0.046	
F-8179	Channel, 2.4'	0.021	
F-8180	Channel, 3.8'	0.020	0.013
F-8181	Channel, 3.2'	0.047	0.066
F-8182	Channel, 3.3'	0.054	
F-8183	Channel, 2.7'	0.034	
F-8184	Channel, 4.4'	0.017	0.007
F-8185	Channel, 2.5'	0.041	
F-8186	Channel, 3.5'	0.048	<0.003

NEAREST TOWN Signal, Arizona

PROPERTY State mine

LOCATION:  
 SEC. 4 T. 13 N. R. 12 W.  
 SE $\frac{1}{4}$

3. TYPE OF EXAMINATION: Scintillometer  
 surface and underground

4. DIRECTIONS TO DEPOSIT: Nine miles east of Signal, Arizona, through the first wash after making the crossing through the Sandy River 5 miles northeast from Signal.
5. OWNER OR OPERATOR: E. M. Berger  
 ADDRESS: Kingman, Arizona
6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Production unknown; 150' cross-cut tunnel, 35' inclined shaft, 65' drift, 8 surface trenches
7. RADIOACTIVITY: Maximum scintillometer readings: 500 cps in 150' crosscut tunnel tunnel 100' from portal on west wall, background 100 cps. Max. Geiger counter reading .15 mr/hr at 120' from portal in 150' cross-cut tunnel.
8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):
- A. Rolling hills with deep washes, jeep road to mine up wash.
- B. 6' gold quartz vein striking N. 60° W, dipping 35° S., in a host rock of coarse pink granite porphyry. Vein is composed of quartz with hematite bands.
- C. Quartz, gold, silver, hematite, limonite.

PRELIMINARY RECONNAISSANCE REPORT- RA-20

1. SAMPLE INFORMATION:

<u>NUMBER</u>	<u>TYPE</u>	<u>RADIOACTIVITY</u>

2. STATE Arizona  
 COUNTY Mohave  
 DISTRICT Hackberry  
 CLAIM/MINE Mohave Fluorspar  
 NEAREST TOWN Hackberry, Arizona  
 SEC. 1 T. 23 N. R. 14 W.

3. OWNER: C. W. Burcham  
ADDRESS: Kingman (?) Arizona

4. PREVIOUS WORK: Workings include four small prospect pits. Directions to Deposit: one mile west of Kingman, Hackberry Highway 66 turn north approximately 100 yards west of bridge.

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939  
BACKGROUND ON 10 cps SCALE 120 C/M OR DIAL READING OF 25 cps

6. DESCRIPTION OF EXAMINATION: RESULTS:  
TYPE OF MAPPING  
GEOLOGIC RADIOMETRIC

DETAIL	
RECONN.	
SURFACE	
UNDRGRND.	x

7. MINERALOGIC ASSOCIATION: Siliceous purple fluorspar-stained structure.

8. GEOLOGIC ENVIRONMENT: Fissure-type structure in highly altered rhyolite (?)

9. TYPE OF DEPOSIT: Fissure

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY A. J. Rambosek  
E. N. King

12. DATE(S) 8/21/52

13. HAS A PROOF OF OWNERSHIP FORM BEEN DISTRIBUTED \_\_\_\_\_

14. SUPPLEMENTARY REPORT TO FOLLOW \_\_\_\_\_ NOT NECESSARY \_\_\_\_\_

## PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. E. Nelson and 2. STATE Arizona COUNTY Mohave  
DATE(S) EXAMINED A. J. Ramhosek  
July 12, 1952

## 1. SAMPLES

NUMBER	TYPE	AND WIDTH	RADIOACTIVITY
--------	------	-----------	---------------

F-11933 through and including F-11948

F-2959 through and including F-2990

DISTRICT WallapaiNEAREST TOWN Chloride, ArizonaPROPERTY Detroit group, includingPalisades claim, Brooklyn claim,LOCATION: Hudson claim, N. Y. claimSEC. 36 T. 23 N. R. 18 W.

## 3. TYPE OF EXAMINATION:

Underground, geologic, radiometric

4. DIRECTIONS TO DEPOSIT: 13 miles northwest of Kingman, Arizona, turn northeast off Highway 93; follow dirt road past Kay Ranch into Canyon 6 miles after leaving Highway 93.

5. OWNER OR OPERATOR: I. M. George (Owner)                      Adrion Skinner (Lessee)  
ADDRESS: Kingman, Arizona    General Delivery  
Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:  
Sam Norris and I. M. George in 1943 got a Government loan to sink winze 100 feet.  
Prospecting for copper - no report on this work available.

7. RADIOACTIVITY: Anomalous radioactivity noted on dump and underground - up to 1,500 cps - B. G. = 5 cps

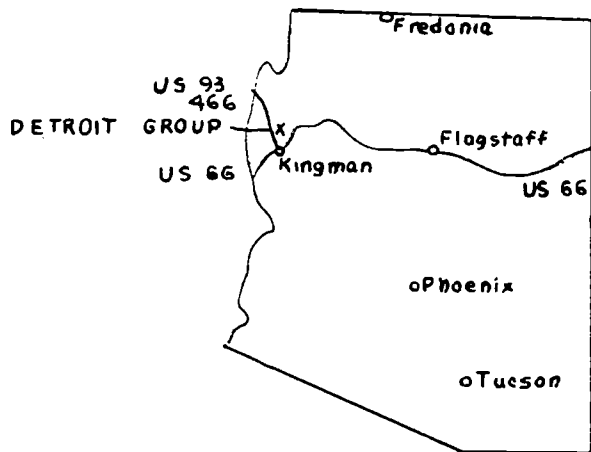
## 8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

A. Easily accessible - slight improvement would provide an all-weather dirt road.

B. Pre-Cambrian schist - mineralized shear zone.

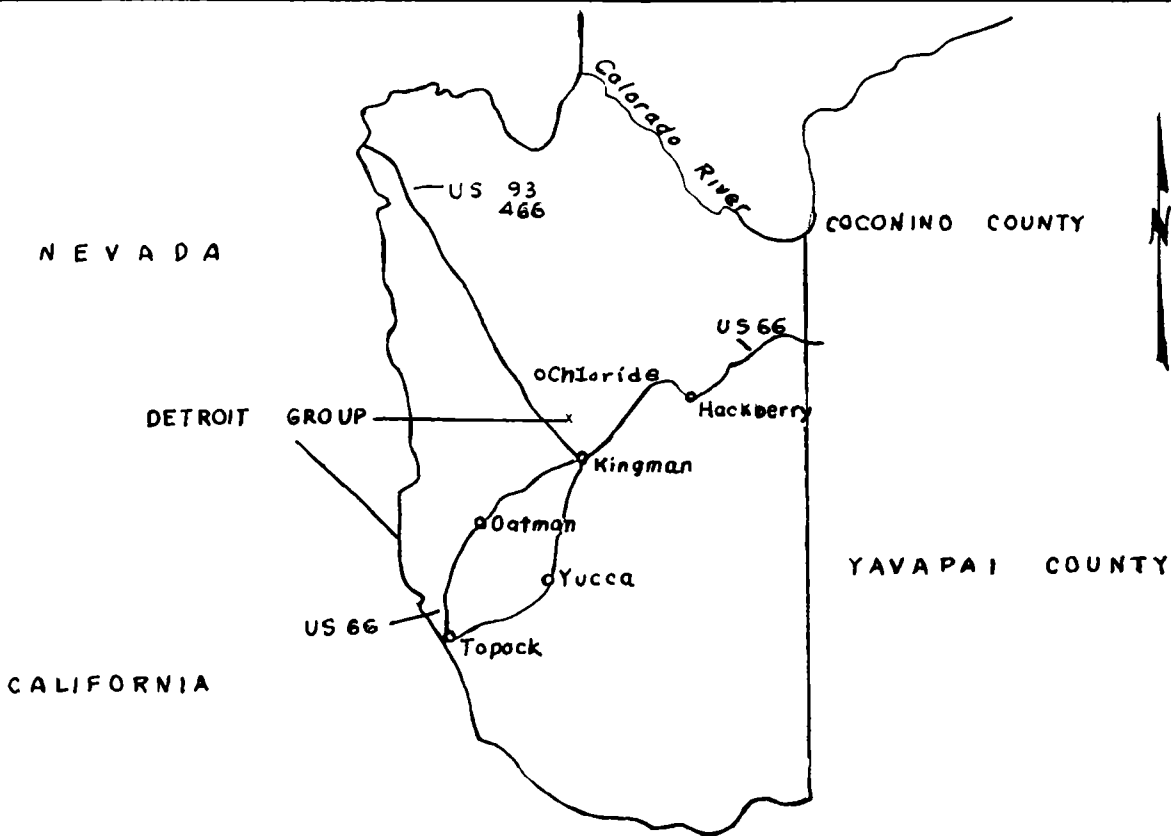
C. Sphalerite, chalcopyrite, FeS<sub>2</sub>, quartz, autunite?





INDEX MAP OF ARIZONA  
 Showing Location of  
 DETROIT GROUP, WALLAPAI MINING DISTRICT, MOHAVE COUNTY

SCALE: 0  175  
 Miles



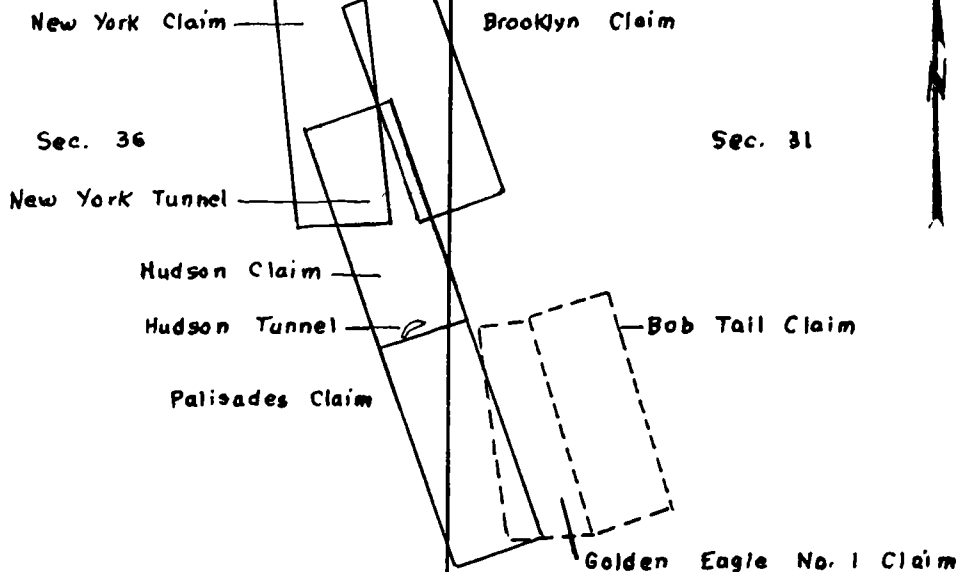
INDEX MAP OF MOHAVE COUNTY, ARIZONA  
 Showing Location of  
 DETROIT GROUP, WALLAPAI MINING DISTRICT

SCALE: 0  45 Miles

RA-12

R. 18 W.

R. 17 W.



T. 23 N.  
T. 22 N.

Primrose Claim

Properity Claim

CLAIM MAP OF DETROIT GROUP - NEW YORK,  
BROOKLYN, HUDSON AND PALISADES CLAIMS,  
MOHAVE COUNTY, ARIZONA

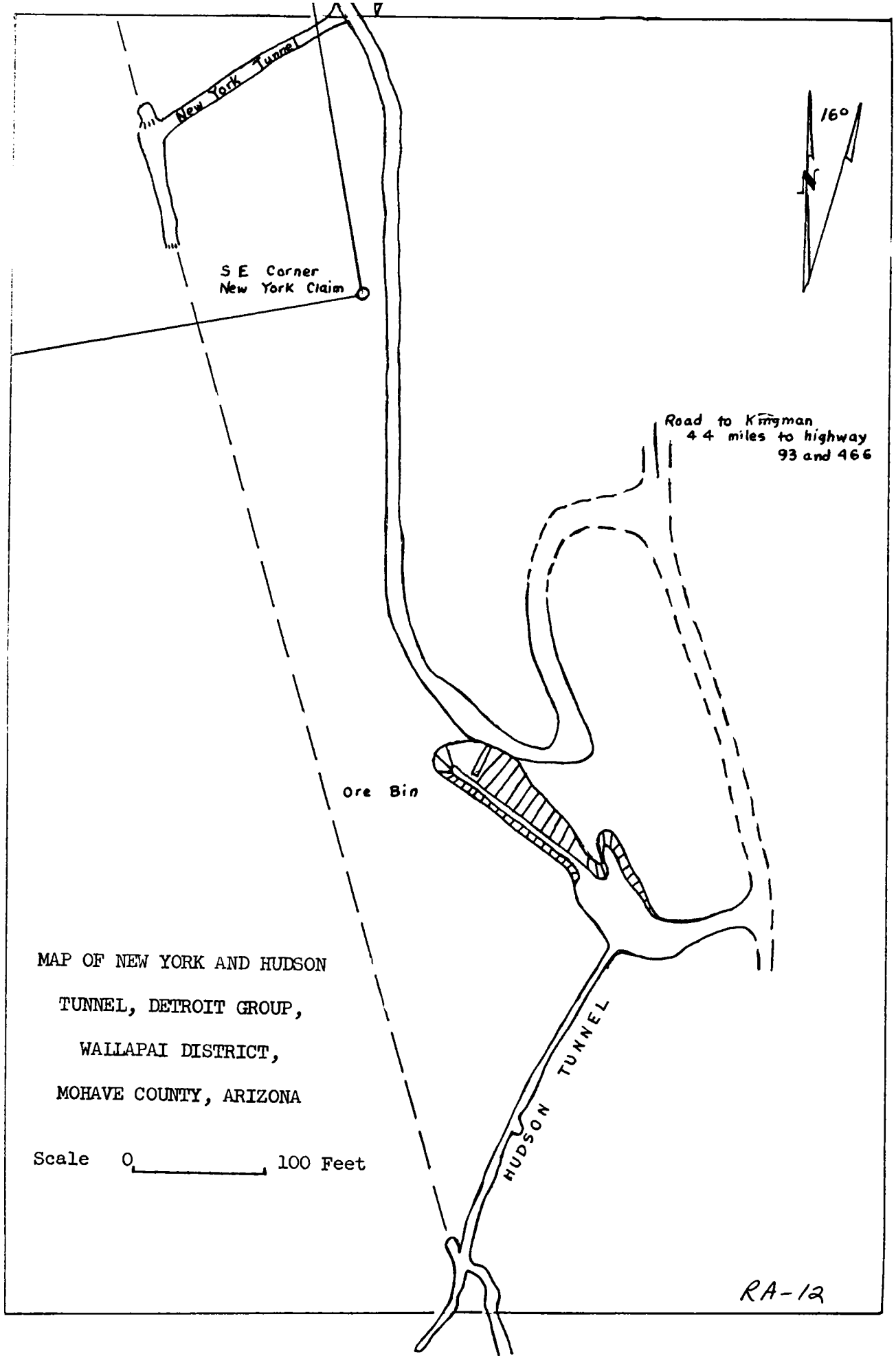
Secs. 36, 31, T. 23 N., R. 18-17 W.

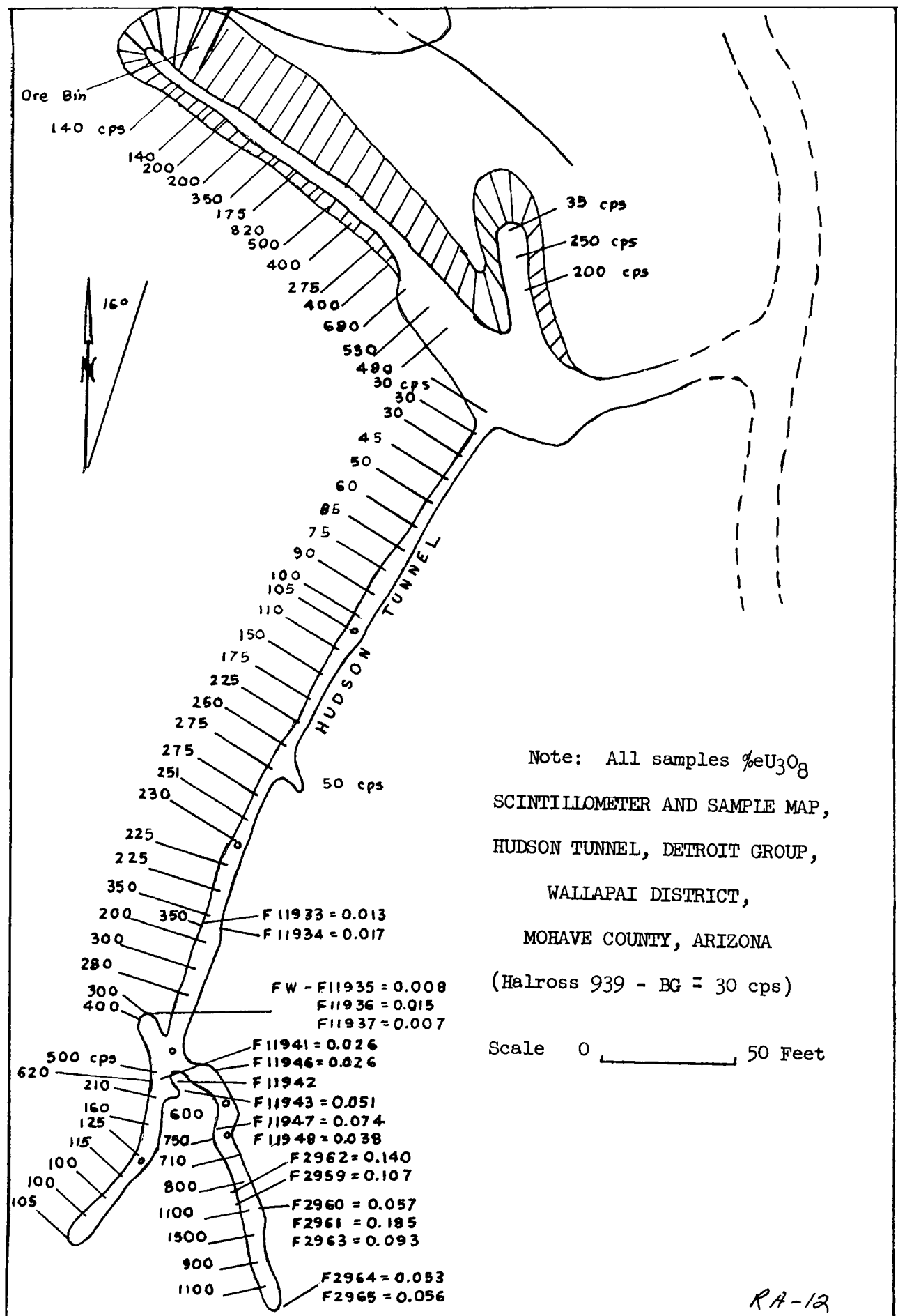
SCALE: 0 \_\_\_\_\_, 1250 Feet

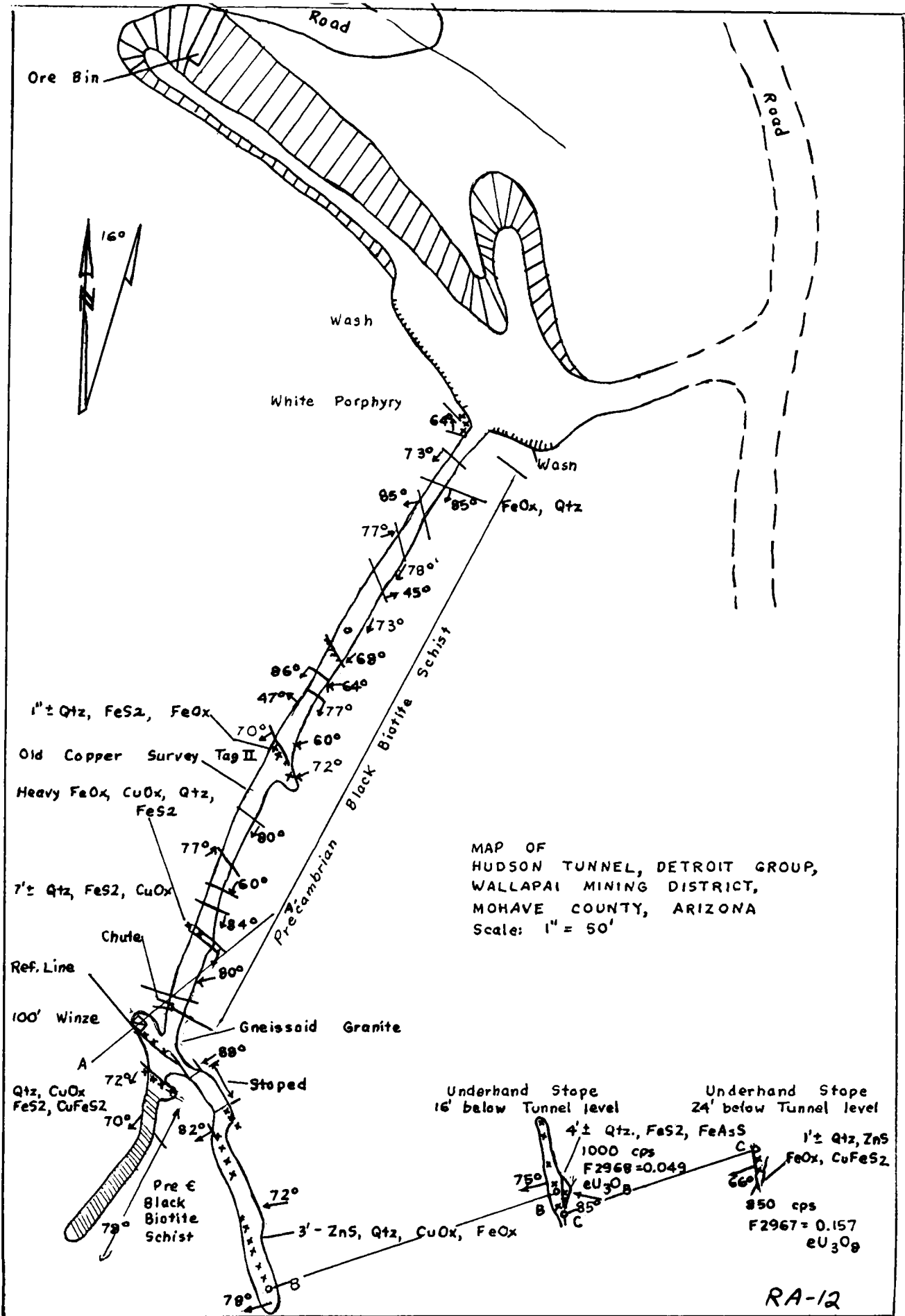
RA-12

NOTE: GEOLOGIC MAP OF THE WALLAPAI  
MINING DISTRICT, BY MCCLELLAND G.  
DKINGS AND PAUL K. SIMS

NOTE: MAP OF MINING CLAIMS IN  
CERBAT RANGE, MOHAVE COUNTY,  
ARIZONA, by E. Ross Housholder

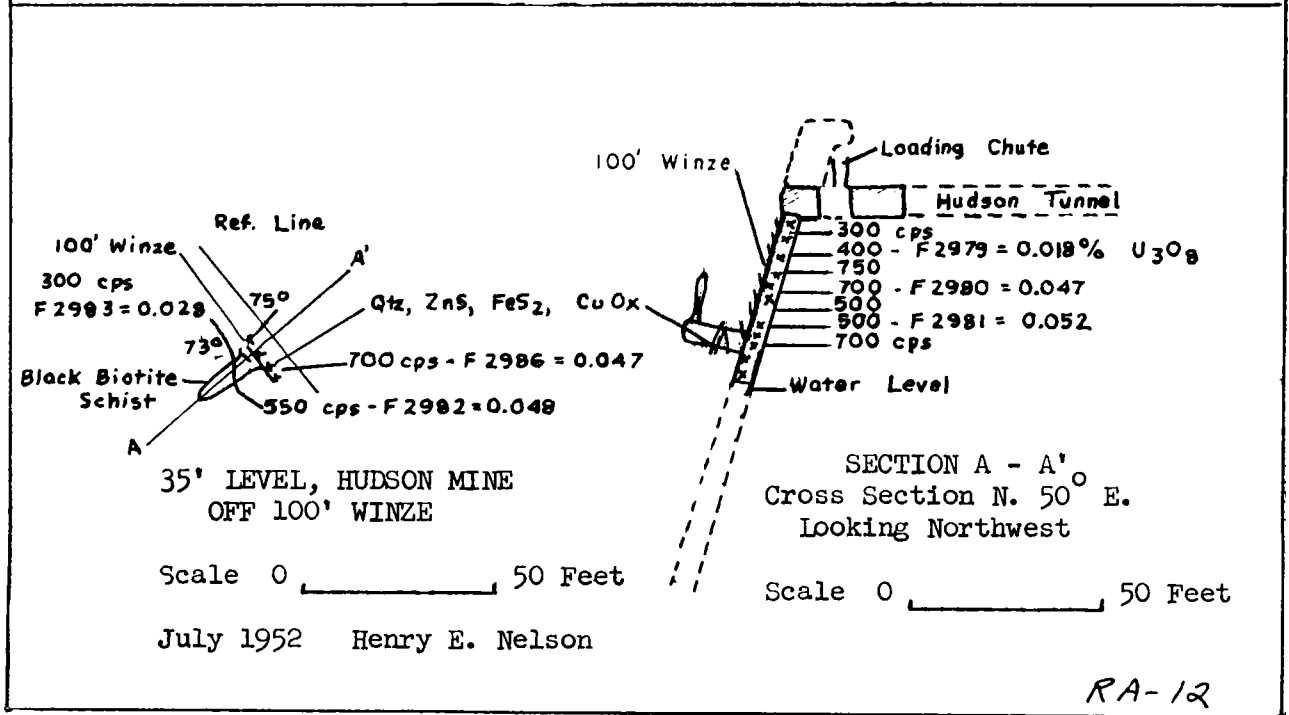
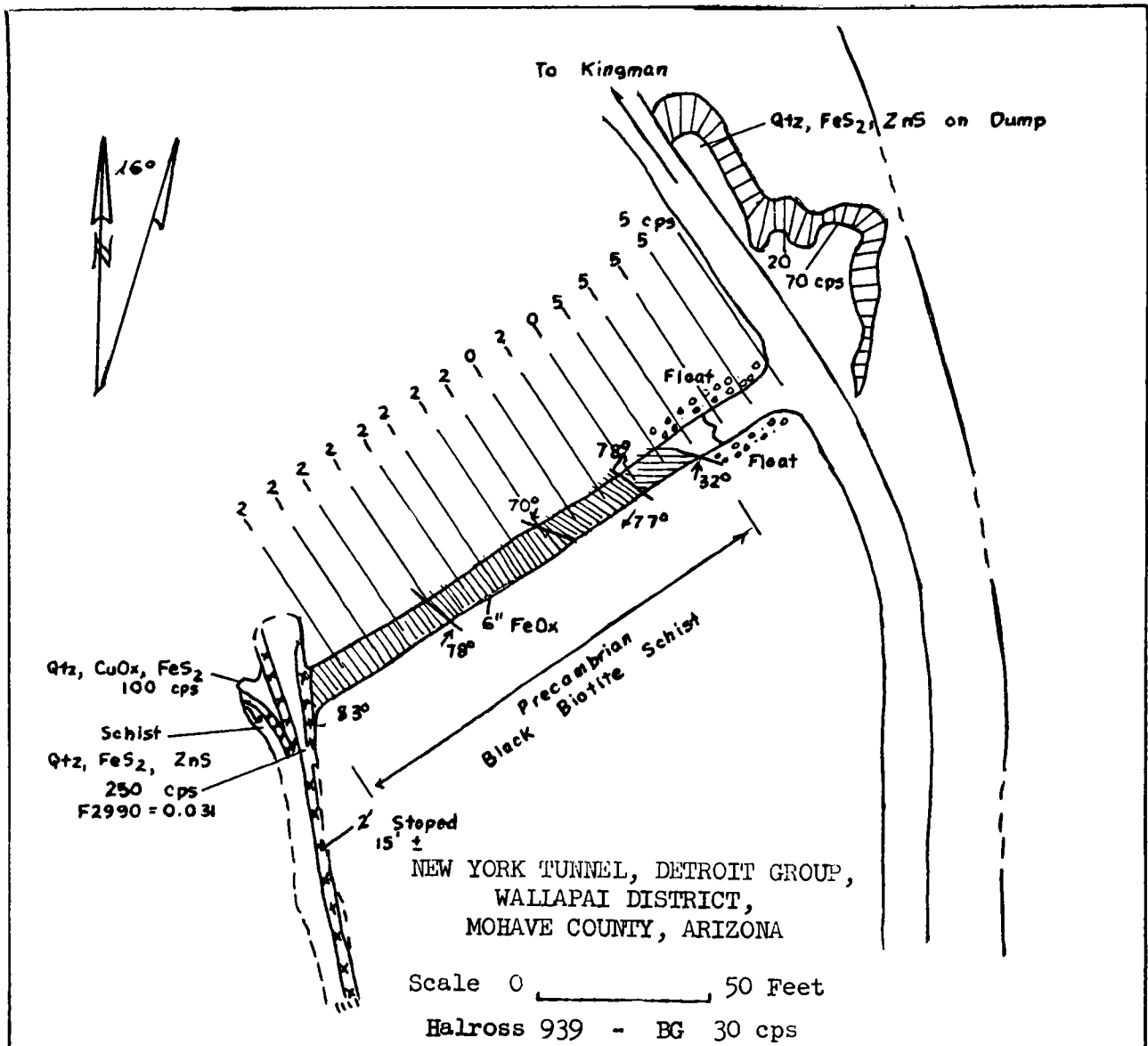






MAP OF  
 HUDSON TUNNEL, DETROIT GROUP,  
 WALLAPAI MINING DISTRICT,  
 MOHAVE COUNTY, ARIZONA  
 Scale: 1" = 50'

RA-12



RA-12

PRELIMINARY RECONNAISSANCE REPORT-CEB:R-51

1. SAMPLE INFORMATION:

<u>NUMBER</u>	<u>TYPE</u>	<u>RADIOACTIVITY</u>
---------------	-------------	----------------------

2. STATE Arizona

COUNTY Mojave

DISTRICT Signal

CLAIM/MINE State

NEAREST TOWN Signal, Arizona

SEC. 4 T. 13 N. R. 12 W.

3. OWNER: Charles W. Johnson  
 ADDRESS: 322 North Foothill Blvd.  
 Pasadena 8, California

Robert F. McBride  
 3191 Blanche Street  
 Pasadena 10, California

4. PREVIOUS WORK:

5. TYPE GEIGER COUNTER Scintillometer MFR Halross MODEL 939

BACKGROUND ON \_\_\_\_\_ SCALE \_\_\_\_\_ C/M OR DIAL READING OF Up to  
45 times background

6. DESCRIPTION OF EXAMINATION: RESULTS:

TYPE OF MAPPING  
GEOLOGIC RADIOMETRIC

DETAIL		
RECONN.	x	x
SURFACE		
UNDRGRND.		

7. MINERALOGIC ASSOCIATION: An unknown uranium mineral sparsely disseminated through unaltered granite stocks.

8. GEOLOGIC ENVIRONMENT: A coarse-grained granite batholith has intruded a diorite gneiss. The batholith is manifested in numerous stocks from a few hundred feet to  $\frac{1}{2}$  mile in diameter. These stocks measure  $1\frac{1}{2}$  to 11 times background. One stock has been penetrated to a 55' depth by a 100' tunnel. Some samples from a scale formed on the walls had up to 0.22 percent U308. Later sampling after careful cleaning of the walls indicated a trace to 0.04 percent U308. Pegmatites in the area contain widely separated crystals of euxenite.

9. TYPE OF DEPOSIT: Disseminated.

10. GEOLOGIC SKETCH MAP:

11. EXAMINED BY J. W. King and  
E. V. Reinhardt

12. DATE(S) March 14, April 20,  
May 17, 1951

13. HAS A PROOF OF OWNERSHIP FORM  
 BEEN DISTRIBUTED No

14. SUPPLEMENTARY REPORT TO  
 FOLLOW \_\_\_\_\_ NOT NECESSARY X

U. S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY Harry C. Granger  
DATE EXAMINED March 20, 1951

USGS - PRR NO. \_\_\_\_\_  
DATE March 22, 1951  
STATE Arizona  
COUNTY Mohave  
DISTRICT Eureka (?)  
SEC. T. 16 N. R. 12 W.

1. NAME OF PROPERTY: Catherine and Michael claims
2. DIRECTIONS TO PROPERTY: Turn left about 50 miles southeast of Kingman on Wickieup road (11.8 miles south of Cane Springs). Go 8.5 miles west on dirt road; deposit is on right across canyon.
3. OWNER OR LESSEE: R. H. Carr      D. H. Carr      O. A. Creason      E. T. Hoffman  
ADDRESS: 8624 Oakwood Avenue  
Los Angeles, California
4. PUBLISHED REFERENCES:  
Wilson, E. D., Tungsten deposits of Arizona: Arizona Bur. Mines Bull. 148.

5. MINE WORKINGS: Two shallow prospect cuts

6. TYPE OF EXAMINATION: Radiometric; reconnaissance mapping

7. RADIOACTIVE DEPOSIT:                      TYPE AND AGE: Opaline replacement of limestone of  
WALL ROCKS:                                      pre-Tertiary age  
Thin-bedded, silicified limestone

ORE MINERALS, PRIMARY: The uranium may not be in the form of a definite mineral but rather in the form of ions in the opal molecular lattice.  
ORE MINERALS, SECONDARY:

GANGUE MINERALS: Opal and marly limestone

ORE-GANGUE RELATIONSHIP:

ATTITUDES: N. 20° - 30° W., 25° - 30° NE.  
LENGTH (STRIKE 800 feet +  
OR OTHER):

SHAPE: Bedded lenses  
WIDTH:                      THICKNESS:  
8 to 10 ft. maximum

8. COUNTER TYPE: Nuclear                      AVERAGE READING FOR DEPOSIT:  
BACKGROUND READING: 4 divs. on 0.2 scale      10 to 15 divs. on 0.2 scale  
Maximum - 7 divs. on 2.0 scale

9. SAMPLE INFORMATION:

SAMPLE NO.	TYPE AND MATERIAL SAMPLED	%EU <del>OR UO<sub>2</sub></del>	CHEM. ASSAY (PERCENT)	LOCATION
HG-27-51	High grade	0.2		
HG-28-51	High grade	0.04		
HG-65-51	Channel	0.006	0.005	South of prospect pit
HG-66-51	Channel	0.015	0.013	Prospect pit
HG-67-51	Channel	0.010	0.007	North of prospect pit

10. SUPPLEMENTAL REPORT TO FOLLOW:



PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY E. N. King, A. J. Rambosek 2. STATE Arizona COUNTY Mohave  
DATE(S) EXAMINED 12/4-6/52

DISTRICT Wallapai

1. SAMPLES

NUMBER      TYPE      AND WIDTH      RADIOACTIVITY

NEAREST TOWN Kingman

F-3501      Type - Chip  
to      Width as indicated  
F-3572

PROPERTY De La Fontaine Mine

LOCATION:  
SEC. 5,8 T. 22 N. R. 17 W.

3. TYPE OF EXAMINATION:  
Underground and surface scintillometer  
traverse, geologic map

4. DIRECTIONS TO DEPOSIT: From east Kingman follow road north along east slope of Cerbat Range approximately five miles to Stockton Mine; pass through mine yard. Follow dirt road on south slope up wash approximately three miles to crest of range. Cross crest and follow backswitch 0.2 miles to adit. (Collar of shaft is at crest.)

5. OWNER OR OPERATOR: C. A. and R. Mines, Inc.  
ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: History - An early base metal producer. Production - unknown; workings - shaft drift, crosscuts and several winzes.

7. RADIOACTIVITY: B.G. - 40 cps  
High - 2100 cps

8. DESCRIPTION OF DEPOSIT (A. Topography, B. Geology, C. Mineralogy):

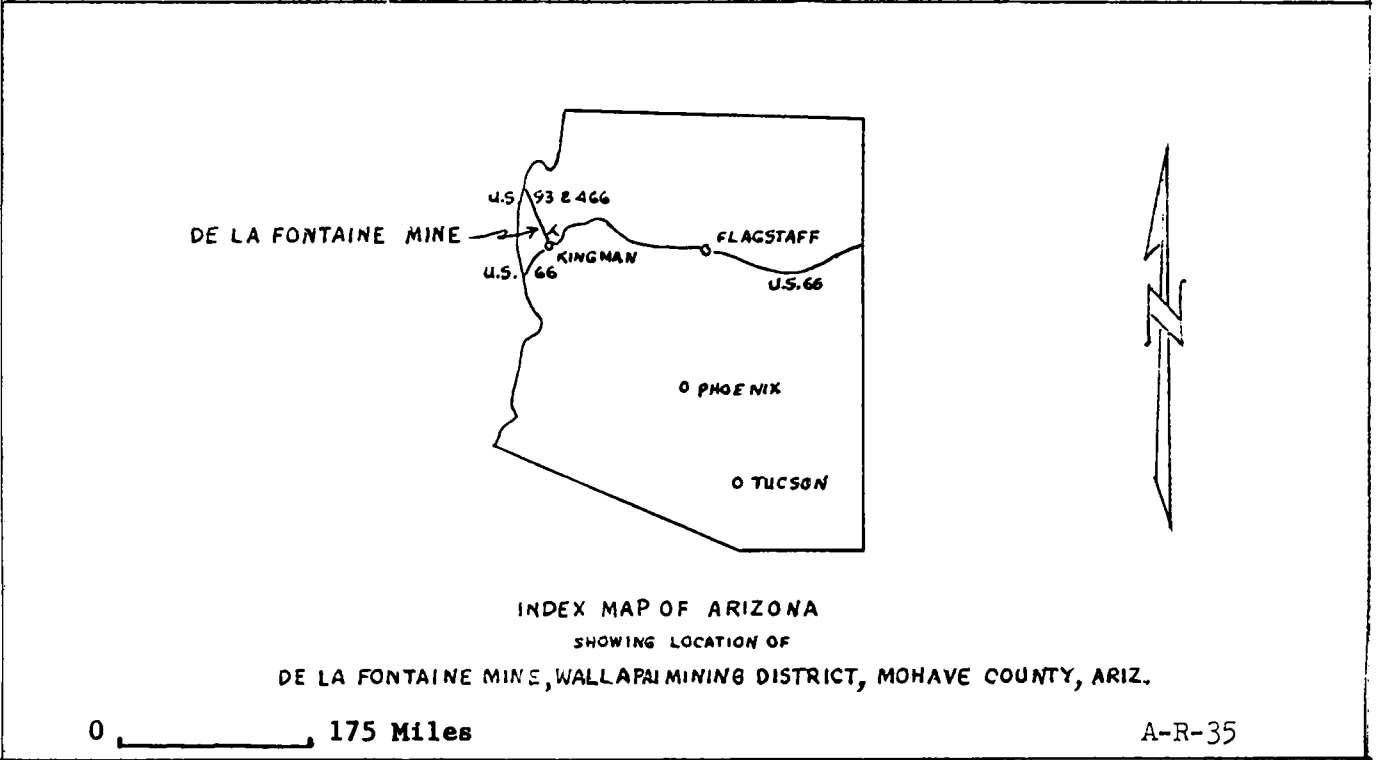
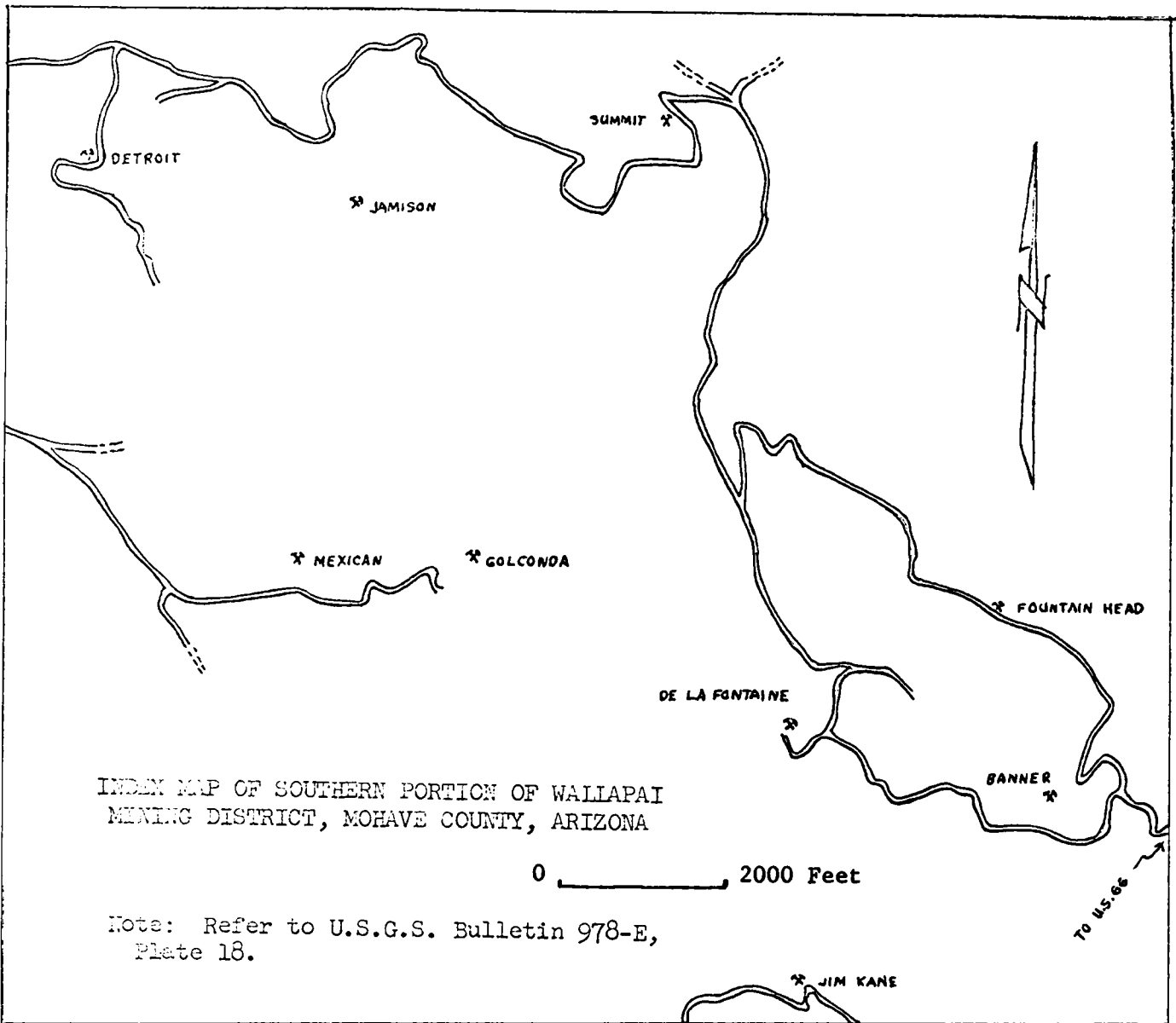
A. Steep mountain slope and numerous outcrops.

B. Pre-Cambrian granite and schist, mineralization along structures.

C. PbS, ZnS, CuFeS<sub>2</sub>, MnOx, quartz.

## SAMPLE ANALYSIS, DE LA FONTAINE MINE

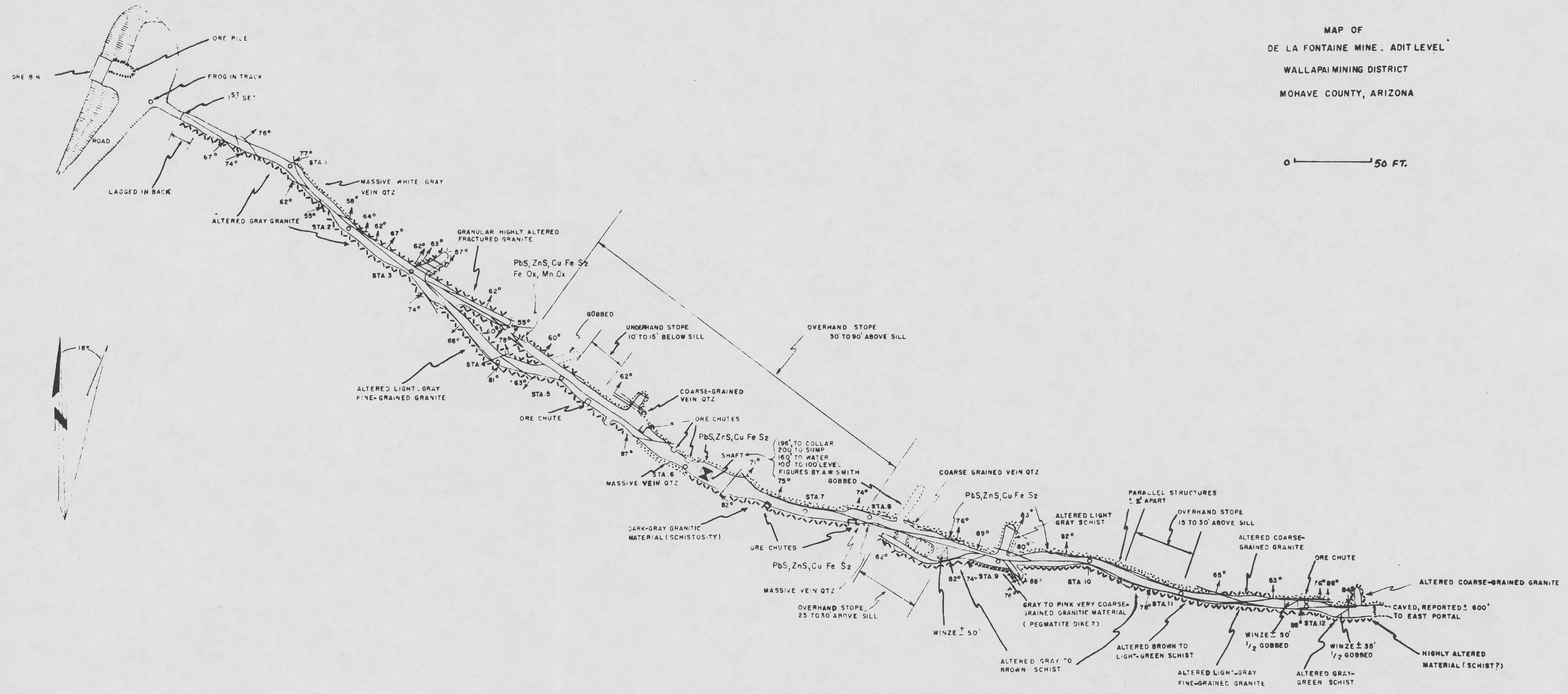
<u>Sample no.</u>	<u>Percent eU308</u>	<u>Width (ft.)</u>	<u>Sample no.</u>	<u>Percent eU308</u>	<u>Width (ft.)</u>	<u>Sample no.</u>	<u>Percent eU308</u>	<u>Width (ft.)</u>
F-3501	0.022	1.8	F-3525	0.026	5.0	F-3549	0.008	2.9
F-3502	0.019	1.5	F-3526	0.038	3.8	F-3551	0.014	3.4
F-3503	0.015	2.5	F-3527	0.016	4.0	F-3552	0.014	3.3
F-3504	0.014	2.3	F-3528	0.063	2.7	F-3553	0.013	5.0
F-3505	0.016	2.0	F-3529	0.009	3.8	F-3554	0.008	3.6
F-3506	0.025	1.2	F-3530	0.028	2.1	F-3555	0.013	2.2
F-3507	0.014	2.0	F-3531	0.006	3.6	F-3556	0.011	3.5
F-3508	0.02	4.8	F-3532	0.025	3.2	F-3557	0.013	3.0
F-3509	0.018	2.2	F-3533	0.004	5.5	F-3558	0.048	1.4
F-3510	0.013	3.0	F-3534	0.008	2.0	F-3559	0.034	1.0
F-3511	0.016	3.0	F-3535	0.004	1.0	F-3560	0.011	2.0
F-3512	0.007	3.0	F-3536	0.056	3.5	F-3561	0.014	2.3
F-3513	0.014	3.0	F-3537	0.004	1.5	F-3562	0.036	2.8
F-3514	0.007	0.7	F-3538	0.059	3.5	F-3563	0.030	2.5
F-3515	0.016	1.5	F-3539	0.008	5.0	F-3564	0.005	1.5
F-3516	0.007	4.0	F-3540	0.005	1.6	F-3565	0.030	1.7
F-3517	0.023	1.5	F-3541	0.005	3.4	F-3566	0.052	1.5
F-3518	0.006	1.5	F-3542	0.065	2.2	F-3567	0.049	1.4
F-3519	0.030	5.0	F-3543	0.006	4.5	F-3568	0.041	1.4
F-3520	0.018	5.0	F-3544	0.079	1.0	F-3569	0.021	2.5
F-3521	0.018	1.5	F-3545	0.006	3.3	F-3570	0.019	1.2
F-3522	0.008	1.6	F-3546	0.075	1.7	F-3571	0.020	2.5
F-3523	0.010	3.0	F-3547	0.007	2.8	F-3572	0.007	1.2
F-3524	0.041	4.5	F-3548	0.021	1.5			





MAP OF  
DE LA FONTAINE MINE - ADIT LEVEL  
WALLAPAI MINING DISTRICT  
MOHAVE COUNTY, ARIZONA

0 ——— 50 FT.

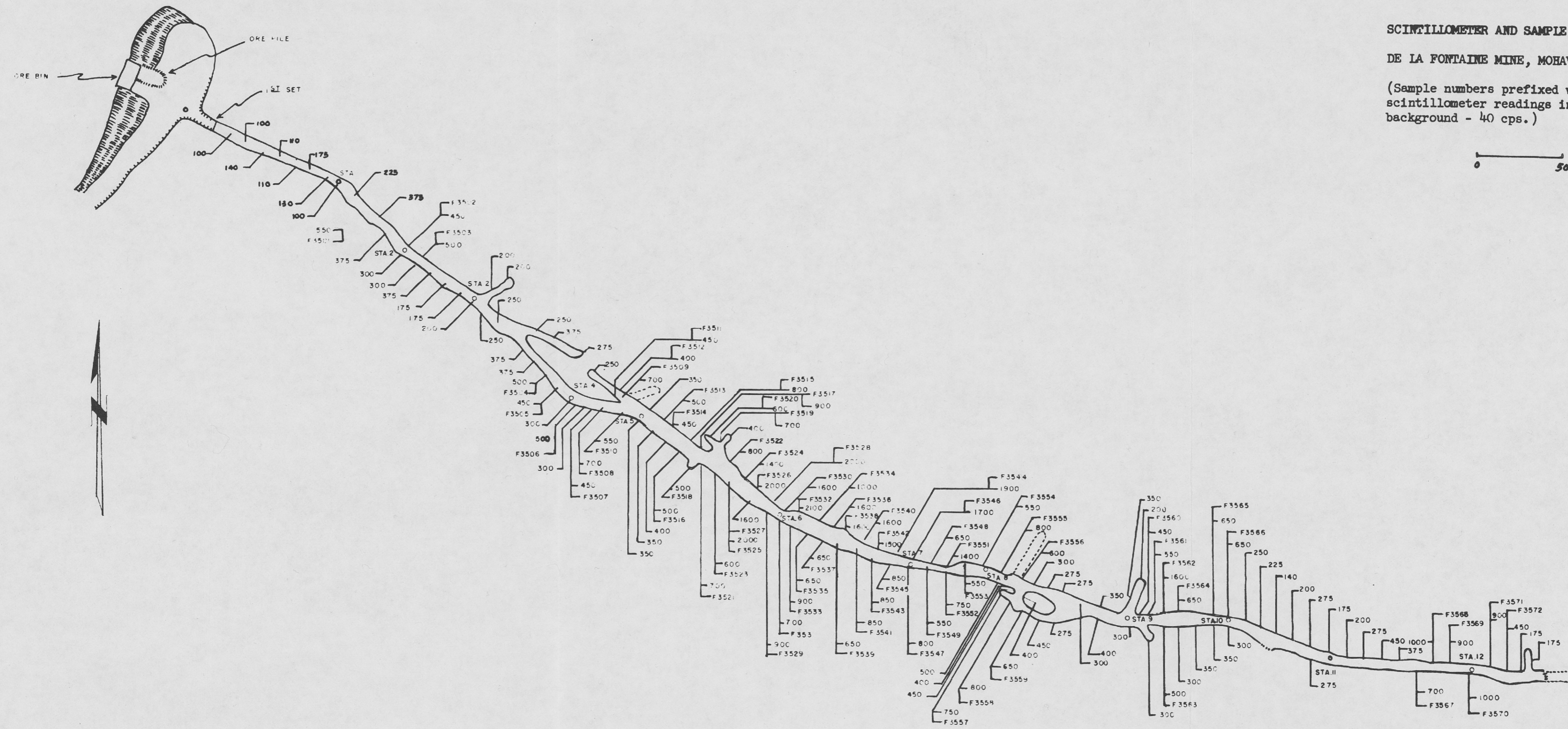
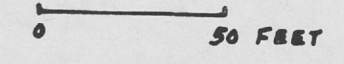




SCINTILLOMETER AND SAMPLE MAP (HAIROSS MODEL 939)

DE LA FONTAINE MINE, MOHAVE COUNTY, ARIZONA

(Sample numbers prefixed with letter F. All scintillometer readings in counts per second; background - 40 cps.)



A-R-35







