

PRELIMINARY INVESTIGATION REPORT
Use a continuation sheet for additional information, if required

6-10113-212

5449

11549

X

1. LOCATION OF THE SITE

Name

City, State, and

County, State, and

2. Date

State

County

City

State

County

Section

Block

BLACK Oxide

Block

Block

Approx. Lat. 37° 30' N; Long. 122° 30' W

Approx. UTM

Approx. UTM

3. Name of site, mine or land

Black Oxide

Address

State, State

4. Previous Work (Maps, Reports, History of prospect, etc.)

No previous work.

5. Type of property

State

City

Block

Block

Design

Area

Block

Block

Block

Block

Block

6. Description of Description

Results

No counts above background were noted.

Depth	TYPE OF MINERALIZATION	
	Surface	Subsurface
Depth	X	X
Surface	X	X
Subsurface	X	X

7. Mineralogical Association

Copper oxidation products.

8. Geologic Description

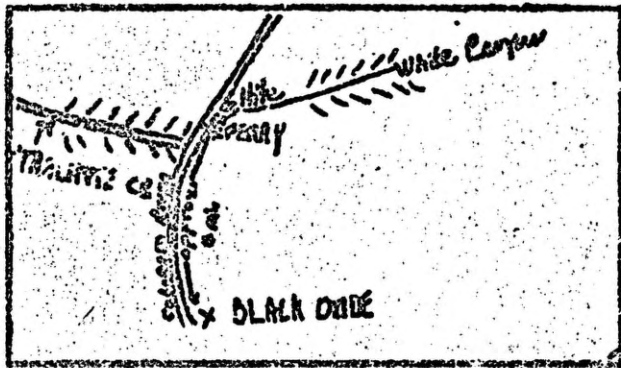
Mineralization occurs in 3 to 4 feet of alternating sandstone and shale which occurs at the base of the Chinle and lies unconformably over the Kanab.

9. Type of Deposit

Deposit consists of copper oxidation products disseminated in sandstone and replacing organic material.

12. Geologic Sketch Map showing sample locations

☐ not reported ☐ included in final geologic report



13. Examined by

W. B. J. J. J.

P. O. J. J. J.

14. Date of examination

October 2, 1951

15. Has a proof of ownership been distributed?

No

16. Supplementary Reports

☐ to file ☐ not necessary

DDH-18

900 ft from M.S. #1 mine

425 ft. SW of X-section

Elevation correction - (-30 ft)

6128 Top of bed

DDH-32

375 ft NE of X-section

Elevation correction + 37.5 ft

6229.5 Top of bed

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

MS227
GJEB-153
5414

1. SAMPLE INFORMATION IN THE FIELD

Number	TYPE (csp, chert, etc., etc.)	RADIOACTIVITY (Low, moderate, high)

2. State Utah
County San Juan
District Moab
Claim/Mine Maryknoll Claim Group
Nearest Town Moab, Utah
Sec 17 & 18 Twp 28S Range 23E SIM

3. Owner of claim, mine or land Carl Weaver, Fruita, Colorado and John T. Schmuckee, Grand Junction, Colorado
Address

4. Previous Work (Maps, Reports, History of prospect, etc.)
No previous examinations. Several prospect pits show only minor amounts of ore which is mostly vanadium. Some high grade uranium ore is found in trees.

DRM
INITIAL

5. Type Geiger counter Model
Background Scale C/M or % reading of

6. Description of Examination:

Results:

	TYPE OF MAPPING	
	Geologic	Radiometric
Detail		
Reconn.	X	
Surface		
Underground		

This property was examined as a possible development drilling site. Poor rim showings and low grade ore eliminate this claim group from core drilling.

7. Mineralogic Association:

Vanadium and uranium

8. Geologic Environment:

The ore zones are found in an upper sandstone lens of the Salt Wash member of the Morrison formation.

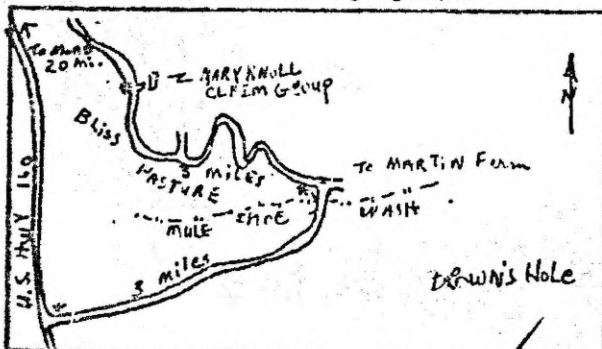
9. Type of Deposit:

Epigenetic



12. Geologic Sketch Map showing sample locations

☐ not warranted ☐ Included in final geologic report



13. Examined by: R. F. Drouillard,

E. E. Jones, R. O. Blair
Grand Junction Exploration Branch

14. Date of examination: May 18, 1952

15. Has a proof of ownership form been distributed?

yes

16. Supplementary Report:

☐ to follow ☐ not necessary

Distributions: P. L. Merritt, NYDRM (2)
C. C. Towle, LEB (2) (1 for Page, USGS)
J. O. Hooted, Washington, DRM
R. P. Blocher, USGS, G. J.

P. L. MacPherson, CRD
W. E. Bradley, Washington, USGS
E. E. Thurlew, SLB
G. J. Jones (2)

Miscellaneous

May 1952

No previous examinations. Several prospect pits show only minor amounts of ore which is mostly vanadium. Some high-grade vanadium ore is found in trees. Poor rim showings and low-grade ore eliminate this claim group from core drilling.

Includes:

Lizard	Mary Knoll #6
Bliss Pasture #2-6	Wonder #1-4
Black Rock	Cherokee
Mary Knoll	Utah Beach

Labor 8-29-73 Book #512, p. 509-510; includes #1-7

Lyle Francis, et. al.

420 Topaz Circle

Moab, UT

Work consisted of geologic evaluation.

Drilling and development work; building drill sites and roads.

PRELIMINARY RECOMMENDATION REPORT
(Use a continuation sheet for additional information, if necessary)

MS 24

GJED-154

52/16

1. LOCATION INFORMATION IN THE FIELD

NAME (No., district, group, etc.)	SECTION (County, township, range)
--------------------------------------	--------------------------------------

2. STATE

Utah

County San Juan
 Section Moab
 Township Prince Albert Claim
 Range Moab, Utah
 Section 16 & 17 Range 28S Township 23E SIM

General description, mine or land Jack Pogue, Moab, Utah Leased by John Schumacher, Grand Junction, Colorado

Historical data (Map, Report, History of prospect, etc.)

Map in 1945 by the UMD, Moab District Report, Hardwell.
A small tonnage of ore has been mined from this property.

DATA
INITIAL

Test log number 115 Model Model
 Section Section C/M or dist reading of Section
 Results Results

TYPE OF MAPPING	
Geology	Geophysics
<u>X</u>	

This mine was examined as a possible development drilling site. No drilling was recommended.

General description:

Uranium sandstone

General description:

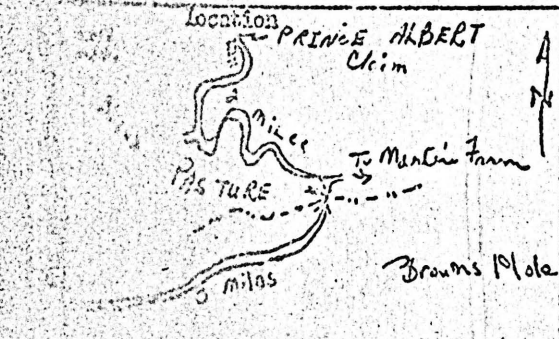
The ore zone is confined to a sandstone lens of the Salt Wash member of the Morrison

Epigenetic

See the description in the book field note

Location map showing sample locations

() included in final geologic report



13. Examined by: R. F. Drouillard,
E. R. Jones
Grand Junction Exploration Branch
 14. Date of examination: April 30, 1952
 15. Has a proof of ownership form been distributed?
?
 16. Supplementary Report:
☐ to follow ☐ not necessary

PRELIMINARY EXPLORATION REPORT
 (Use a continuation sheet for additional information, if necessary)

GJEB-154

12/16

1. SAMPLE INFORMATION ON THE FIELD

Sample	Locality (city, township, range, etc.)	Reference (sheet, or section, west)

2. State Utah

County San Juan

Section Moab

Claim/line Prince Albert Claim

Section Town Moab, Utah

Sec. 16 & 17 Twp. 28S Range 23E SIM

3. Owner of claim, mine or land Jack Pogue, Moab, Utah Leased by John Schunacker, Grand Junction,

Add. Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

Mapped in 1945 by the UMDC, Moab District Report, Hardwell.
 A small tonnage of ore has been mined from this property.

DEPT
 INITIAL

5. Type Colgar counter AMG Model Model

Background on Scale C/M or dial reading of Scale

6. Description of Examination

Results

TYPE OF MARKING		
	Gravel	Bedrock
Detail		
Recon.	X	
Surface		
Underground		

This mine was examined as a possible development drilling site. No drilling was recommended.

7. Mineralogy Association

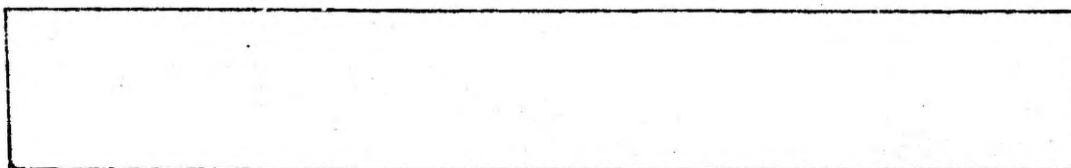
Uranium-vanadium

8. Geologic Environment:

The ore zone is confined to a sandstone lens of the Salt Wash member of the Morrison formation.

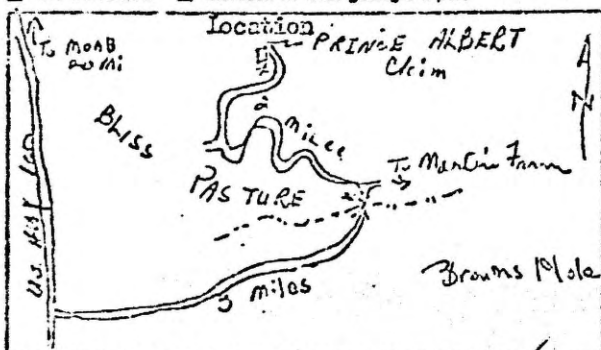
9. Type of Deposit

Epigenetic



12. Geologic Sketch Map showing sample locations

☐ not warranted ☐ included in final geologic report



13. Examined by: R. F. Drouillard,

E. H. Jones

Grand Junction Exploration Branch

14. Date of examination: April 30, 1952

15. Has a proof of ownership form been distributed?

?

16. Supplementary Reports

☐ to follow ☐ not necessary

Distribution: P. L. Harritt, HYDEM (2)

C. C. Tardo, DEB (2) (1 for Page, USGS)

J. O. Hooted, Washington, DEB

R. P. Fischer, USGS, G. J.

F. H. MacPherson, GRNO

W. H. Bradley, Washington, USGS

E. E. Thurlow, SLB

GJEB Files (3)

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

MS22 *220*
GJES-153 *5414*

1. BASIC INFORMATION IN THE FIELD

NAME	TYPE (e.g., placer, vein, etc.)	RADIOACTIVITY (e.g., none, moderate, weak)

2. State Utah
County San Juan
District Moab
Claim/Mine Maryknoll Claim Group
Nearest Town Moab, Utah
Sec. 17 & 18 **Twp.** 28S **Range** 23E **STM**

3. Name of claim, mine or land. Carl Weaver, Fruita, Colorado and John L. Schmacker, Grand Junction, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

No previous examinations. Several prospect pits show only minor amounts of ore which is mostly vanadium. Some high grade uranium ore is found in trees.

**DRM
INITIAL**

5. Type Geiger counter NA **Model**
Background R. **Scale** **C/M or % of reading of**
6. Description of examinations **Results:**

	TYPE OF MAPPING	
	Geologic	Radioactive
Sketch		
Section	X	
Surface		
Underground		

This property was examined as a possible development drilling site. Poor rim showings and low grade ore eliminate this claim group from core drilling.

7. Knowledge Available:

Vanadium and uranium

8. Geologic Environment:

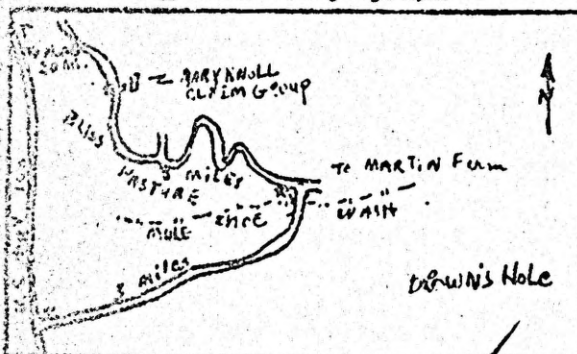
The ore zones are found in an upper sandstone lens of the Salt Wash member of the Morrison Formation.

9. Type of Deposit:

Epithermal

MARYKNOLL
under
Prince
Albert

10. Sketch Map showing sample locations:
☐ not warranted ☐ included in final geologic report



13. Examined by: R. F. Drouillard,

E. E. Jones, R. O. Blair
Grand Junction Exploration Branch

14. Date of examination: May 18, 1952

15. Has a proof of ownership form been distributed?
yes

16. Supplementary Report:
☐ to follow ☒ not necessary

DISTRIBUTION: P. L. Harritt, NYDRM (2)
 G. O. Harlo, DED (2) (1 for Page, USGS)
 E. E. Jones, Washington, D.C.

P. L. MacPherson, CRD
 W. H. Bradley, Washington, USGS
 E. E. Jones, NYDRM

TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORT DATE July 25, 1951

EXAMINED BY Don Johnson
DATE EXAMINED July 23, 1951

STATE Utah
COUNTY San Juan
DISTRICT _____

1. NAME OF PROPERTY Skyline ? SW $\frac{1}{4}$, NW $\frac{1}{4}$ sec. 26 T. 43S. R. 15 E.
2. DIRECTIONS TO PROPERTY From Mexican Hat, Utah, go south on Utah Highway 47, continue about 2 miles south of Arizona border to junction with road to Oljato Trading Post. Go northwest on Oljato road about 6 miles to junction with road to northeast. Go northeast about 3 $\frac{1}{2}$ miles on this road to mine.
3. OWNER OR LESSEE Unknown.
4. PUBLISHED REFERENCES Baker, Arthur A., Geology of the Monument Valley-Navajo Mountain region, San Juan County, Utah: U. S. Geol. Survey Bull. 865, 106 pp. 1936. (Areal geology only; no mention of uranium or of mine).
5. MINES WORKING 4 small prospect headings and 2 open cuts.
6. TYPE OF EXAMINATION Reconnaissance

7. RADIOACTIVE DEPOSIT TYPE AND AGE Displacement deposit at base of channel fill of Triassic
- WELL ROCKS Shinarump conglomerate in Moenkopi formation.
- ORE MINERALS, PRIMARY Conglomerate, sandstone, mudstone of Shinarump conglomerate and Moenkopi formation.
- ORE MINERALS, SECONDARY Chalcopyrite
- ORE MINERALS, SECONDARY "Carnotite"
- ORANGE MINERALS Asurite, Malachite, Torbernite, Limonite, Autunite? Chrysocolla?
- ORANGE MINERALS Quartz, Clay, Calcite, Selenite, Hyalite, Carbonized wood.
- ORE-ROCK RELATIONSHIP Not apparent

ATTITUDE Channel trends NW, plunges gently SE SHAPE Stream channel
LENGTH EXTENT OR OTHER 500 feet. WIDTH 50 ft. MAX. 20 THICKNESS 1 ft. to 4 ft.

8. COINTEGR TYPE Lucky Strike BACKGROUND 0.03 ar/hr

9. SAMPLE DEPOSITION				
SAMPLE NO.	TYPE	CU PERCENT OR C/M	CHEM. ASSAY PERCENT	LOCATION
DNJ-6-51	Channel	0.29%	-	Vertically across ore zone in prospect heading on NW end of channel
DNJ-7-51	Channel	0.23%	-	Vertically across richest ore zone (2 ft.) at SE end of channel.
DNJ-8-51	Channel	0.13%	-	Vertically just above DNJ-7-51; conglomerate zone with much clay.

10. UNPUBLISHED REFERENCES None known

[REDACTED]

[REDACTED]

[REDACTED]

14. PROOF OF OWNERSHIP RECEIVED

15. SUPPLEMENTAL REPORT TO FOLLOW

No

DISTRIBUTION

Merritt (8)
Mineral Deposits, Washington (9)
TUPCO (3)
Johnson (2)
Husted (1)
Sells (1)

Thurlow (1)
Oster (1)
GLP (1)
Fuels (1)
Alaskan (1)
Cochran (1)

McKelvey (1)
Fischer (1)
Weissenborn (1)
Cathcart (1)
Denson (1)
Bass (1)

PRELIMINARY RECONNOISSANCE REPORT
(This is a preliminary report for additional information, if necessary)

7345
MS 62 not plotted

1. SAMPLE INFORMATION IN THE FIELD

Sample	Loc. number, grid, etc.	Remarks
1976 1977	Chavarril Chavarril	Moderate Moderate

2. Date Feb 28
County San Juan
State New Mexico
Section Chavarril
Township Tuba City, Arizona
Range 10 Twp 10 S. Range 10 E.

3. Owner of site, name or loc. Unclaimed outcrops shown by David King
Address Went to Kewaunee Trading Post, Navajo Indian Reservation, Ariz.
4. Product (if glass, crystal, history of deposit, etc.) None

5. Two other samples Scintillator 10 10 10
Designated as 10 Date 22 5 5 5

6. Description of Sample

Sample	Remarks
1976	
1977	

Remarks: Scintillator readings up to 1000 were obtained.

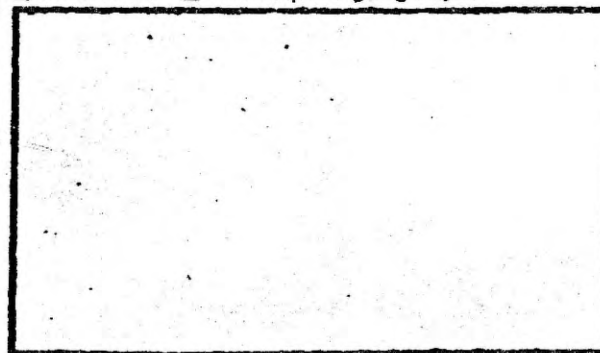
Sample	On	10	10
1976	0.95	0.97	0.98
1977	1.45	0.91	0.95

7. Mineralogical Association Copper, vanadium, uranium, carbon

8. Geological Environment Chavarril formation

9. Type of Deposit Bedded or selective replacement

10. Geologic Sketch Map showing sample location
☐ not warranted ☐ included in final geologic report



11. Conducted by J. M. Chester
and E. C. Collier
Grand Junction Exploration Bureau
12. Period of examination August 2, 1951
13. This is a part of country from base of sketch Yes

14. Supplementary Report
☐ to follow ☐ not necessary

Distribution:
P. L. Merrill, WASH (2)
C. C. Tule, WASH (2) (1 for Page 1000)
E. P. Fisher, WASH, G. J.
E. E. McPherson, GPO
W. E. Bradley, Washington, WASH
E. E. Threlkeld, WASH GPO Files (3)

PRELIMINARY DISCERNANCE REPORT
(Use a continuation sheet for additional information, if necessary)

1. SAMPLE INFORMATION IN THE FIELD

NAME	TYPE (chip, channel, rock, etc)	PANACHEITY (shape, location, etc)

2. State Utah MS61 ✓
 County San Juan
 District Navajo Reservation 8
 Circle/Line _____
 Nearest Town Keyenta, Arizona
 Sec _____ Twp _____ Range _____

3. Owner of claim, mine or land Cecil Parrish
 Address Oljato Trading Post, Utah

4. Previous Work (Maps, Reports, History of prospect, etc) None

5. Type Galge counter Detecron 44 Model
 Background no. -2 Scale 40 C/M or dial reading of .025

6. Description of Excavations

	TYPE OF PLATING	
	Quartz	Enriched
Detail		
Excavation		
Surface		
Underground		

Results

Dial readings up to 1 were obtained on the outcrop. Mass located south of the mesa south of Oljato Trading Post.

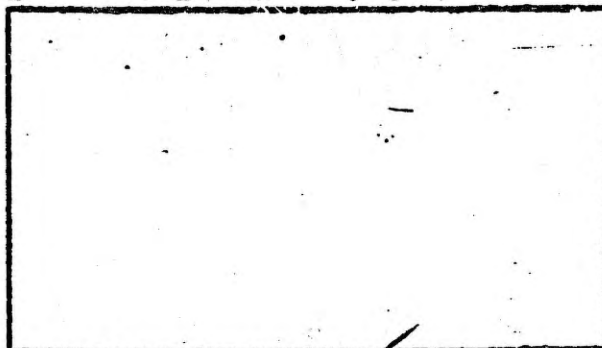
7. Mineralogic Association Copper, uranium, vanadium

8. Geologic Environment Shinarump conglomerate

9. Type of Deposit Selective replacement, bedded

12. Geologic Sketch Map showing sample locations

☐ not warranted ☐ included in final geologic report



12. Examined by J. W. Chester and
R. C. Cutter

14. Date of examination May 1952

15. Has a proof of ownership been distributed?

16. Supplementary Reports
☐ to follow ☐ not necessary

Distributions

P. L. Morrill, NIDRM (2) ✓
 C. C. Tonde, NRB (2) (1 for Page USGS)
 R. P. Fletcher, USGS, G.J.
 J. O. Rooted, Washington, NRM

P. H. MacPherson, GMD
 W. H. Bradley, Washington, USGS
 E. E. Thurlow, SSB GRS-Files (3)

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

GJEB:R-78

1960

7343

1. SAMPLE INFORMATION IN THE FIELD

Number	TYPE (shale, chert, sand, etc.)	ACTIVITY (radioactive, etc.)

2. State Utah

County San Juan

District Navajo Reservation 8

Claim/Mine

Nearest Town Kayenta, Arizona

Sec. Twp. Range

3. Owner of claim, mine or land Cecil Parrish

Address Ujato Trading Post, Utah

4. Previous Work (Maps, Reports, History of prospect, etc.) None

5. Type Geiger counter Detatron 100 Model

Background on .2 Scale 40 C/M or dial reading of 025

6. Description of Examinations

Detail	TYPE OF MAPPING	
	Geologic	Radioactive
Reconn.		
Surface		
Underground		

Results

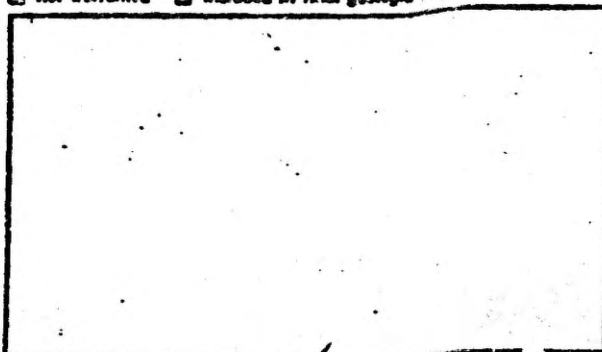
Dial readings to 1 were obtained on the outcrop. Mesa located south of Ujato Trading Post.

7. Mineralogic Associations Copper, uranium, vanadium

8. Geologic Environment Shinarump

9. Type of Deposits Selective replacement. Bedded

12. Geologic Sketch Map showing sample locations
☒ not warranted ☐ included in final geologic report



13. Examined by J. W. Chester and

R. C. Cutler
Grand Junction Exploration Branch

14. Date of examination May 1957

15. Has a proof of ownership form been distributed?

16. Supplementary Reports
☐ to follow ☒ not necessary

Distributions:

P. L. Morrill, NYDEH (2) ✓
C. C. Towle, DES (2) (1 for Page USGS)

R. P. Fischer, USGS, G.J.
J. O. Husted, Washington, D.C.

F. H. MacPherson, CRM
W. H. Bradley, Washington, USGS
E. E. Thurlow, SEB GJEB Files (3)

MS 57



N. 43 FORM 43
(10-4-50)

CEB-K-1

PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary)

Sample information in the Field		
Number	Type (chip, channel, grab, etc.)	Radioactivity (strong, moderate weak)
None		See 2, not possible

2. State Utah
 County San Juan
 District Havago Indian Reservation
 Claim/Mine _____
 Nearest Town Kayenta, Ariz
 Sec. 2 Twp. 43S Range 14E

3. Owner of claim, mine or land Reportedly being developed by Shumway of
Minersburg, Utah
 Address _____

4. Previous Work (Maps, Reports, History of prospect, etc.)
 Little information available. Operators not a property at time of examination
 L. S. MILLER 1933

5. Type Geiger counter Barium Mfg. _____ Model IX-S
 Background on _____ scale: _____ C/M or dial reading of _____

6. Description of Examination: Examined 11/5/50. Results:
 Variable, generally sub-commercial mineralization up to 1 ft. in thickness exposed over some 50 ft. of outcrop. At one point, concentration of mineralization shows 2 to 3 ft. minable ore on which work is being started

	Type of mapping	
	Geologic	Radiometric
Detail		
Reconn.	II	
Surface	II	
Underground		

7. Mineralogic Association:
Chromite with copper carbonates

8. Geol

9.

12.

MS 56


 101 FORM 43
 1-5-50

PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary)

 ML
 3-11-7

Sample information in the field			2. State <u>Utah</u>
Number	Type (chip, channel, grab, etc.)	Radioactivity (strong, moderate weak)	County <u>San Juan</u>
11426	chip	moderate	District <u>Navajo Indian Reservation</u>
11427	specimen only		Claim/Mine <u>Boneli</u>
			Nearest Town <u>Kayenta, Utah</u>
			Sec. <u>25</u> Twp. <u>7S</u> Range <u>15E</u>

3. Owner of claim, mine or land To be filed by Harry Boneli (Navajo)

Address _____

4. Previous Work (Maps, Reports, History of prospect, etc.)

U.S.G.S. Bulletin 865

5. Type Geiger counter Beckman Mfg. Model LX-5

Background on _____ Scale: _____ C/M or dial reading of _____

6. Description of Examination: Examined 11/7/50. Results:

	Type of mapping	
	Geologic	Radiometric
Detail		
Reconn.	X	X
Surface	X	X
Underground		

Roughly 1500 ft. Shinarump outcrop caps mesa. Occasional high count areas with no apparent U common. Copper carbonates common. Approximately 200 ft. of northeast rim shows high-grade but unminable pods of U and V within thin discontinuous conglomerate lenses.

7. Mineralogic Association:

Carnotite with copper carbonates

8. Geologic Environment:

At or near base of Shinarump capping 3-acre mesa

9. Type of Deposit:

MS 55

X

N. Y. FORM 43
1-1-50

C.F.B. R-5.

5141

PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary)

Sample information in the field			2. State <u>Ill.</u>
Number	Type (chip, channel, grab, etc.)	Radioactivity (strong, moderate weak)	County <u>San Juan</u>
11400	chip	moderate	District <u>Lawrence Illinois Reservation</u>
11401	chip	weak	Claim/Mine <u>See McMillan Mine</u>
11402	grab	strong	Nearest Town <u>Lawrence, Ark.</u>
			Sec. <u>27</u> Twp. <u>43S</u> Range <u>15E</u>

3. Owner of claim, mine or land See McMillan Mine
Address Building Building Post - Lawrence, Ark.

4. Previous Work (Maps, Reports, History of prospect, etc.)

Exploration started around Sept. 13, 1950
U.S.G.S Bulletin 800

5. Type Geiger counter Doberman Mfg. Model 101-G
Background on Scale: C/M or dial reading of

6. Description of Examination: Examined 11/8/50. Results:

	Type of mapping	
	Geologic	Radiometric
Det.		
Reconn.	±	±
Surface	±	±
Underground		

Outcrop exposed over 300-ft. length shows discontinuous high-count sections and occasional U mineralization in conglomerate and conglomerate-mudstone beds near base of 30 to 40 ft. Shinarump scour channel. Short adit (25 ft.) has about 1 ft. ore at floor on both sides portal but not traceable on outcrop beyond portal.

7. Mineralogic Association.

Carnotite with minor copper carbonates

8. Geologic Environment:

Base 30 to 40 ft. Shinarump capping mesa

9. Type of Deposit:

Sandstone, conglomerate, shale, impregnation

PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary)

54.14
MS53 ✓

Sample information in the field

Number	Type (chip, channel, grab, etc.)	Radioactivity (strong, moderate weak)
11403	chip	

2. State Illinois

County Scott

District Northwestern

Claim/Mine _____

Nearest Town Marion, Ill.

Sec. 20 Twp. H39 Range 15E

3. Owner of claim, mine or land Lorion Nelson

Address Marion, Ill.

4. Previous Work (Maps, Reports, History of prospect, etc.)

Production record of 700 - 800 tons of plus .001% U₃O₈

U.S.M.S. Bulletin 705

5. Type Geiger counter Donnan Mfg. _____ Model 11145

Background on _____ Scale: _____ C/M or dial reading of _____

6. Description of Examination: Examined 11/8/50. Results:

	Type of mapping	
	Geologic	Radiometric
Det.		
Reconn.	±	
Surface	±	
Underground		

Scour channel at base Shinarump contains evidence of coarse sand, grey sand, and conglomerate, underlain by coarse grey sandstone with abundant large curved sandstone pebbles and coal lenses. Channel roughly follows max. 15 to 20 ft. thickness than normal bed of 3 to 5 ft. thickness plus minor copper show greatest concentration in lower 3 - 5 ft. Developed by open-cut and two short adits.

7. Mineralogic Association:

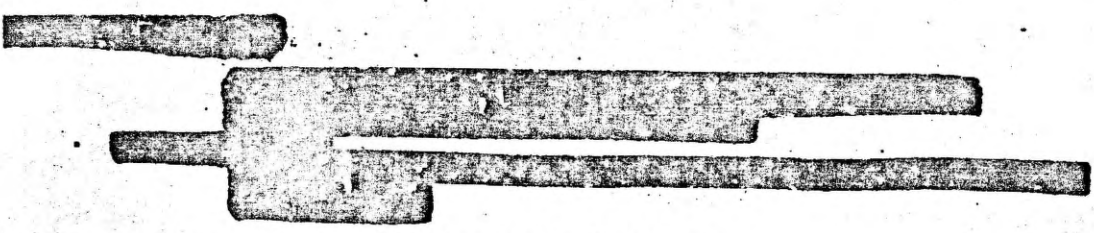
Quartzite, copper carbonates
abundant carbon.

8. Geologic Environments:

Scour channel at base Shinarump

9. Type of Deposit:

Impregnation of sandstone, conglomerate, mudstone.



12. Geologic Sketch Map showing sample location:

☐ not warranted ☐ included in final geologic report

Sample taken over 3-ft. thickness.
Represents probable shipping grade.

13. Examined by: _____

H. J. Shindler

14. Date(s) of examination: _____

Nov. 8, 1950

15. Has a proof of ownership form been distributed? _____

16. Supplementary Reports _____

to follow as and when available

How the part of MS 69 X

Frank H. MacPherson, Manager, CRMO

June 5, 1951

Robert E. Tally, Mining Engineer, CRMO R.E.T.

BROWN'S HOLE AREA - SW JUAN COUNTY, UTAH

SYMBOL: MI:MET

FILE
6/5/51.

At the request of Walter Gramlich, we visited the Brown's Hole Area, with the idea of determining its potentialities for a Government drilling program - should such ever be the policy.

copy
K

The area is 22 miles SE of Moab on Highway 160 to a turnout, dirt road, and then 2.4 miles east to the Blue Jay Claim. The area is approximately 2 miles by 3 miles on major axes, consists of the Dakota, Brushy Basin and Salt Wash members of the Morrison. There are several old workings within the area, namely the Blue Jay, Pine Tree, Sunnyside, Blue Bird and Roadside Claims on the rim, along with a dozen or more surface pits, approximately 110' above the ore horizon on the Blue Jay. Ownership is confined, as near as we could tell on a "spot examination" to Balsley, Gramlich Brothers, Vere Westwood and Abe Day, with open ground.

The Salt Wash member of the Morrison formation is quite extensive in the area as outlined on accompanying sketch. Structurally the ground is badly broken up, with the Big Indian Fault running through the SW portion of the area.

On the Blue Jay Claim there are three entries into the rim for short distances showing extractions of high grade mineralized trees, carnotite stains along with red-black vanadium banding. We measured the overburden - still the Salt Wash, from the lower ore horizon to be 110 ft. and found on the bench above about a dozen small open pits from which vanadium ores has been mined.

The Pine Tree Claim, owned by Balsley, also has three headings in short distances, tree mineralization, high grade vanoxite type seams with carnotite stains - ground well fractured. The overburden above this claim has a gentle slope up to about 100 ft. height. There are three distinct ore horizons at the Pine Tree Mine, one 5 ft. above the road, one 15 ft. above the road and the third 10 ft. below the road. Across a small gulch and about 60 ft. below the road is an old open cut working where high grade uranium ore was mined. The Big Indian fault passes along this gulch with a down drop on the north side.

The Sunnyside Claim, owned by Balsley, has been worked intermittently by Pete Shumway. Several short headings, partly caved worked 2 or 3' wavy, faulted 6 inch seams of vanoxite type vanadium and carnotite tree mineralization and a number of rolls of thicker ore seen. Exposures extend for 150 ft. along the road.

rest of MS68

X

Frank H. MacPherson

-2-

June 5, 1951

About 3000 ft. SE of the Sunnyside Mine, old underground workings were visited which were driven on mineralization very similar to that of the Pine Tree and Sunnyside Claims. These workings are covered by the Junction Claim of Vere Westwood, who has mined a small tonnage in the past year. The deposit appears to be the same as that formerly covered by Balseley's Bluebird Claim.

Henry R. Wardwell's report on the "Moab District, Green River Desert Area, Utah", March 1946, for the Union Mines Development Corp., shows the following estimate of positive ore in the Brown's Hole Area:

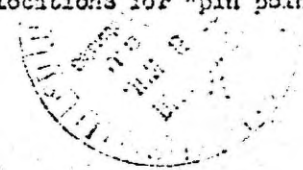
copy
↓

Name of Claim	Tons Ore	2U3O8
Blue Jay	20	0.08 - 0.15
Pine Tree	410	"
Sunnyside	250	"
Blue Bird	910	"
Other Showings	80	"
	<u>1670</u>	

The amount of ore recovered from these claims since Wardwell's estimate is unknown. Very little easily mineable ore shows in the workings.

Conclusion:

The Brown's Hole Area has a large surface exposure of the Morrison formation; the ground is broken up extensively by fractures; there is considerable mineralization along rim and surface exposures, and although the workings to date are small, they have been "gouged" with no attempt to explore further for ore in sight. The overburden in favorable locations appears to be a maximum of 100 ft; water is available from two sides of the property; the topography is such that drill sites, roads, etc. are readily accessible; favorable drill sites would be first adjacent to known mineralization; and then extended, as warranted. On the basis of the above as determined by a few hours examination, we believe Brown's Hole Area is favorable for consideration of a drill program should policy be such that Government drilling can be done on private ground. The property should be mapped, geologized and studied with an idea toward picking up favorable locations for "pin point" drilling.



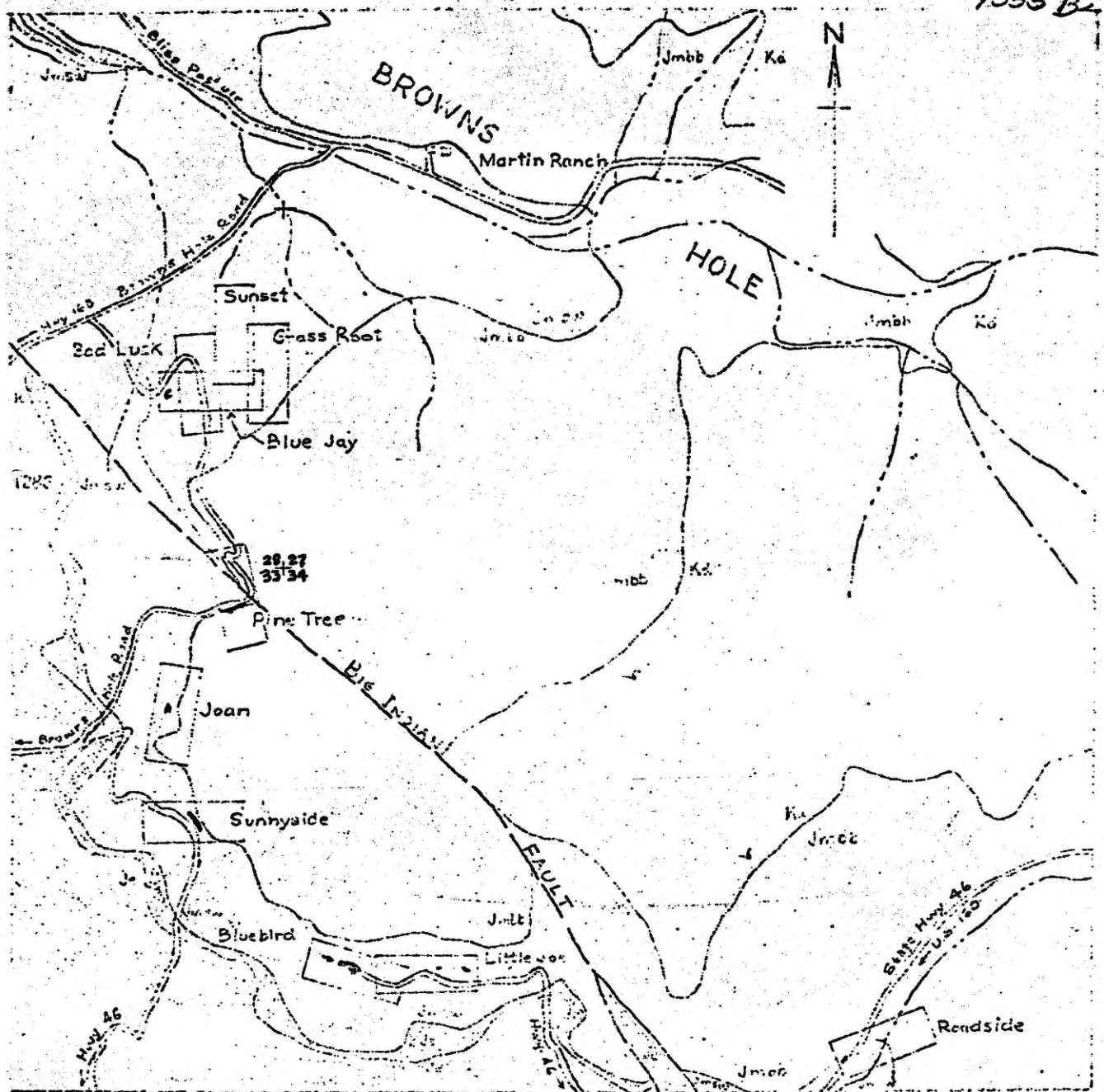
Enclosure:

1. Map - Brown's Hole Moab District

cc: G.G.Gallagher W/Encl. ✓
 T.W.Oster W/Encl.
 P.L.Merritt W/Encl.
 R.P.Fischer W/Encl.

part of M568 X

7355 b



- Kd DAKOTA
- Jmbb BRUSHY BASIN
- Jm SALT WASH
- Jm SUMMERVILLE
- Jm ENTRADA

BROWNS HOLE
MOAB DISTRICT
SCALE - 1 in. = 2000 ft.
Taken from Union Mines
Development Corp. Map by
H.R. Wardwell & Party.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

14570 73534

USGS-PRR 0277

TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORT

Date: Sept. 7, 1951

State: Utah

County: San Juan

District: _____

~~Revised by: Richard B. Galt and John L. Erickson~~

Date examined: Sept. 7, 1951

1. Name of property: Big Indian mine Sec. — T. 29 S. R. 24 E.
2. Directions to property: 5.1 miles South of LaSal, Utah.
3. Owner or lessee: Unknown
Address:
4. Published references:
5. Mine workings: Open pit. Open cut workings approx. 100' x 200' x 20-30'.
6. Type of examination: Radiometric traversing.

7. Radioactive deposit: Type and Age: Fracture filling and disseminations in Dakota sandstone.
 Wall rocks: Dakota sandstone. Cu mineralization in folded and faulted Dakota sandstone exposed in open-pit mining operation. Dakota sandstone is downthrown to NE by major NW fault. Cu minerals concentrated in fractures, along carbonaceous layers, disseminate along bedding planes, and impregnating porous sandstone. Carbonaceous material does not appear to have been an important concentrating factor.
 Ore minerals, primary: }
 Ore minerals, secondary: }
 Chalcooite, malachite, }
 azurite. }
 Gangue minerals:
 Ore-gangue relationship: Localization of ore along fractures related to faulting suggests hydrothermal origin with later distribution of secondary carbonates by meteoric waters.

Attitude: Shape:
Length (strike or other): Fault strikes NW Width: Thickness

8. Sample information Counter type: Nuclear 2610A. 2-3 on .2 scale Background:
 Sample No. Type eU (percent) Chem. assay Location
 or c/m (percent)

No abnormal radioactivity.

No samples collected for U analysis.

9. Unpublished references: U. S. Geol. Survey report by C. B. Reed and R. D. Sample.

.....
 [REDACTED]
 [REDACTED]
 [REDACTED]

13. Proof of ownership received: No
14. Supplemental report to follow: No.

Distribution:			
Merritt	(1)	Thurlow	(1)
Mineral Deposits,	(9)	Oster	(1)
Washington		GEP	(1)
TEPCO	(2)	Fuels	(1)
Hosted	(1)	Alaskan	(1)
Towle	(1)	Geophysics	(1)
		McKelvey	(1)
		Fischer	(1)
		Weissenborn	(1)
		Cathcart	(1)
		Denson	(1)
		Page	(1)

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

MS68 7357
GJESTR-45
see letter #7357 beyond
MS 71.

1. SAMPLE INFORMATION IN THE FIELD

NUMBER	TYPE (e.g., of mine, rock, etc.)	RADIOACTIVITY (strong, moderate, weak)

2. State Utah

County San Juan
District Brown's Hole Area
Blue Jay, Pine Tree, and
Claim/Mine others
Nearest Town Moab and LaSal, Utah
Sec. 23 S Twp. 22 & 23 E

3. Owner of claim, mine or land Walter J. Granlich, Vero Westwood, Abe Day, and others

Address Paradox, Colorado; Moab, Utah, respectively.

4. Previous Work (Maps, Reports, History of prospect, etc.) Henry R. Wardwell, March 1946 - Union Mines Report, Moab District, Green River Area, Group VIII, pg. 40.

Robert E. Tally, Mining Engineer, CRMD, June 5, 1951 - Report and Map.

5. Type Geiger counter Detestron Make Model

Background on Scale C/M or dial reading of

6. Description of Examinations

Results

	TYPE OF MAPPING	
	Geologic	Radioactive
Detail Recon.	☒	
Surface		
Underground		

7. Mineralogic Association: Carnotite-vanadite associated with fossil trees and organic material.

8. Geologic Environment: Mineralized zone in Salt Wash member of Morrison formation.

9. Type of Deposit: Lenticular bodies of uranium and vanadium minerals in sandstone.

12. Geologic Sketch

☐ not warranted



PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary.)

5449(?) 7 X
MS 54

1. Sample Information in the Field			2. State <u>Utah</u>	
Number	Type (chip, channel, grab, etc.)	Radioactivity (strong, moderate weak)	County <u>San Juan</u>	
			District <u>Red Canyon</u>	
			Claim/ XXXX <u>Poscy Group (S. side of White Canyon)</u>	
			Nearest Town <u>Hite</u>	
			Sec. _____ Twnp. _____ Range _____	

3. Owner of claim, mine or land Not known
Address _____

4. Previous Work (Maps, Reports, History of prospect, etc.)
U.S.G.S. Prof. Paper ~~III~~ ^{III}, B. S. Butler, pp. 619-622; THE COPPER-URANIUM DEPOSITS
IN WHITE CANYON, UTAH, by Sam K. Smyth. January 27, 1949.
Truck load of ore shipped recently to Hite, Utah.

5. Type Geiger counter Not known Mfg. _____ Model _____
Background on _____ Scale: _____ C/M or dial reading of _____

6. Description of Examination: Examined 6/ 26/50. Results: U-bearing minerals occur for
distance of 300' along west edge of Red Canyon,
but not on NE side. Vertical distribution may
reach 15 feet. Ore is less than half this much.
Best showings in joints and fissures.

	Type of mapping	
	Geologic	Radiometric
Detail:		
Reconn.	x	x
Surface	x	x
Underground		

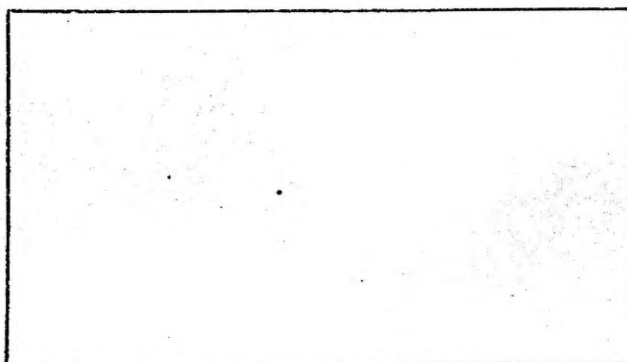
7. Mineralogic Association:
Copper minerals (malachite and azurite); uranophane (Ca-U-silicate) is the prominent
yellow mineral. Some johannite.

8. Geologic Environment:
Shinarump Conglomerate (white to buff)

9. Type of Deposit:
Irregular lenses in the Shinarump, which otherwise is largely sandstone.



12. Geologic Sketch Map showing sample location:
☐ not warranted ☒ included in final geologic report



13. Examined by: J. W. Gruner

14. Date(s) of examination: _____
June 26, 1950

15. Was a proof of ownership form
been distributed? No

16. Supplementary Report:
☒ to follow ☐ not necessary

3. Owner of claim, mine or land Unit 120120, Box 1
Address Washington, D.C.

4. Previous Work (Maps, Reports, History of prospect, etc.)

Development started around Sept. 13, 1950
USGS Bulletin 305

5. Type Geiger counter Rockwell Mfg. Model 101-J

Background on _____ Scale: _____ C/M or dial reading of _____

6. Description of Examination: Examined 11/8/50. Results:

	Type of mapping	
	Geologic	Radiometric
Det.		
Reconn.	Σ	Σ
Surface	Σ	Σ
Underground		

Outcrop exposed over 300-ft. length shows discontinuous high-count sections and occasional U mineralization in calc. shale and conglomerate - mudstone beds near base of 30 to 40 ft. Shinarump scour channel. Short adit (25 ft.) has about 1 ft. ore at floor on both sides portal but not traceable on outcrop beyond portal

7. Mineralogic Association.

Carrollite with minor copper carbonates

8. Geologic Environment:

Base 30 to 40 ft. Shinarump capping mesa

9. Type of Deposit:

Sandstone, conglomerate, shale, impregnation

2. Geologic Sketch Map showing sample location:

☒ not warranted ☐ included in final geologic report

Sample 11483 represents 2 to 3 ft high
cave. No microscopic U.

Sample 11481 from 1-ft. mineralized con-
glomerate at floor of adit.

13. Examined by: _____

W. J. Sherrill

14. Date(s) of examination: _____

Nov. 8, 1950

15. Has a proof of ownership form
been distributed? Yes

16. Supplementary Report:
☐ to follow ☐ not necessary

Distribution:

P.L. Morris, WDC (1)

P.H. MacFarlane, WDC (1)

P.V. Lee, WDC (1)

Geo File (1)

J.C. Husted, Wash., D.C. (1)

P.L. Morris, J.C.S. Wash., D.C. (1)

21407

Note: When additional forms are available
further distribution will be made.

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

GJEB:R-111

M.S 66

7349

1. SAMPLE INFORMATION IN THE FIELD

Sample	Type (path, channel, rock, etc.)	RADIOACTIVITY (alpha, beta, gamma, etc.)	
		V ₂ O ₅	U ₃ O ₈
14190	Grab	3.60%	3.76%
14191	"	3.23%	0.98%

2. State Utah

County San Juan

District Dry Valley

Coin/Alone Big Buck #6

Nearest Town Monticello, Utah

No information

Sec. Two Range None

3. Owner of claim, mine or land Donald T. Adams

Address Monticello, Utah

4. Previous Work (Logs, Reports, History of prospect, etc.) Previous reports have been made by the CRNO. Approximately 1,000 tons of ore have been shipped within the last three years, according to the owner. Work is being held up now for lack of an ore buyer.

5. Type Geiger counter Scintillometer Mfg. Halross Model

Background on 120 Scale 15-20 C/M or dci reading of 800 c/m

6. Description of Examination:

Results:

	TYPE OF MAPPING	
	Geologic	Radioactive
Detail	no mapping	
Reconn.		
Surface		
Underground		

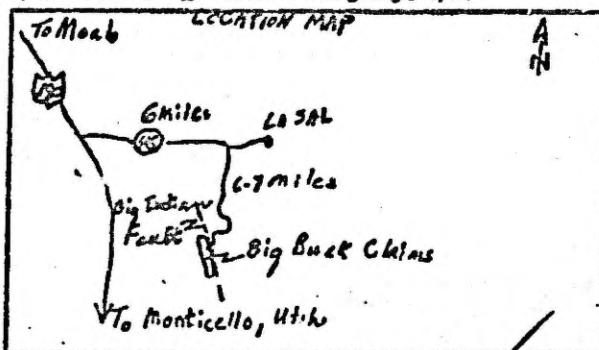
7. Mineralogic Association: Autunite has been identified as one of the uranium minerals. Other uranium minerals may be present, but were not identified from the field examination. The sample information indicates that the ore is in equilibrium. Copper and vanadium are also present.

8. Geologic Environment: The mineralization is found in a coarse quartz sand unit of what appears to be Moenkopi. The known rim outcrop extends for at least 10,000 feet, but the best ore seems to be associated with the thicker portions of the sandstone. The dips are 10 to 15 degrees to the west.

9. Type of Deposits Copper-uranium-vanadium

12. Geologic Sketch Map showing sample locations

☐ not warranted ☐ included in final geologic report



12. Examined by R. F. Drouillard and

E. E. Jones

14. Date(s) of examination October 2, 1951

15. Has a proof of ownership form been distributed?

Yes

16. Supplementary Reports

☐ to follow ☐ not necessary

Distributions: P. L. Matritt, NYDRM (2)

C. C. Towle, DEB (2) (1 for Page, USGS)

J. O. Husted, Washington, DEB

R. B. Fisher, DEB, G. J.

F. H. MacPherson, CRNO

W. H. Bradley, Washington, USGS

E. E. Thurlow, SEB

Files(GJEB) (3)

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY G. E. Klosterman

2. STATE Utah COUNTY San Juan

DATE(S) EXAMINED

Feb. 3, 4, 5, & Feb. 17 and 18, 1953

DISTRICT Moab District

1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY			
		%Cu	%V ₂ O ₅	%U ₃ O ₈	%U ₃ O ₆
21121*	Grab	0.67	0.08	0.11	0.10
21122	13" Channel	0.18	0.05	0.20	0.20
21123	12" Channel	0.08	0.04	0.02	0.02
21124	Grab	0.09	0.04	0.01	0.02
21125	Chip	0.03	0.02	0.01	0.03
21126	Grab	---	0.01	trace	0.01
21127	Selected Grab	0.18	0.03	0.04	0.09
21128	"	0.15	0.02	0.04	0.06
21129	Grab	1.65	0.21	0.04	0.04

NEAREST TOWN Monticello, Utah

PROPERTY Anomalous Area No. 6
Unclaimed

LOCATION Refer to appended map.
SEC. T. R.

3. TYPE OF EXAMINATION:

Surface geologic

*Refer to map for sample locations. - Cont. on back -

4. DIRECTIONS TO DEPOSIT:

Go north from Monticello, Utah, 14 miles on U. S. Highway 160 to the Dugout Ranch sign. Turn left and go 22 miles to the Kigalia Gooseberry sign. Turn right and

5. OWNER OR OPERATOR: follow road to Lockhart Canyon. The anomalous area lies to the east of this canyon. Refer to map.

ADDRESS:
Unclaimed

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

Initially discovered by airborne methods on January 30, 1953. Area extended February 2, 1953. Surface investigation made on February 3, 4, and 5, 1953.

7. RADIOACTIVITY: Twelve anomalies were discovered within the area referred to as Anomalous Area No. 6. Highest radioactivity - 6000 cps. Average radioactivity - 3000 cps. The scintillometer used had a background count of 150 cps.

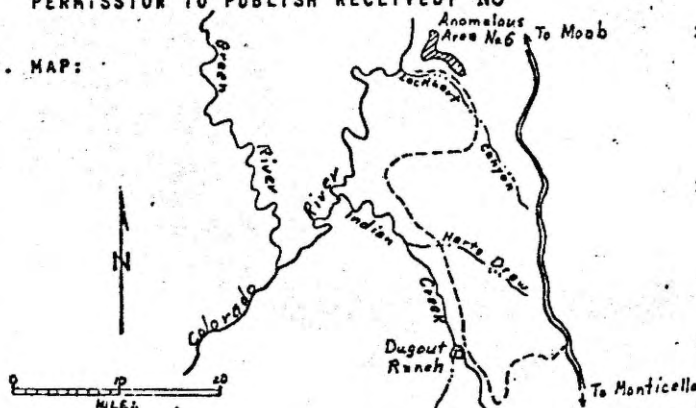
8. DESCRIPTION OF DEPOSIT (Discuss under: A. Topography, B. Geology, C. Mineralogy)

- A. Deep, vertically walled canyons with flat floors drained by intermittent streams.
B. The twelve anomalies are in the upper Cutler formation (undifferentiated), but are not restricted to any one sandstone bed. They are easily recognized by the bleached characteristic of each zone of high radioactivity. No control of mineralization was determined.
C. Generally, mineralization is found in nodules and small seams, within thick sandstones which are underlain by thin mudstone beds. It is also present along the sand-mud contacts.

11. PROOF OF OWNERSHIP RECEIVED? No

PERMISSION TO PUBLISH RECEIVED? No

12. MAP:



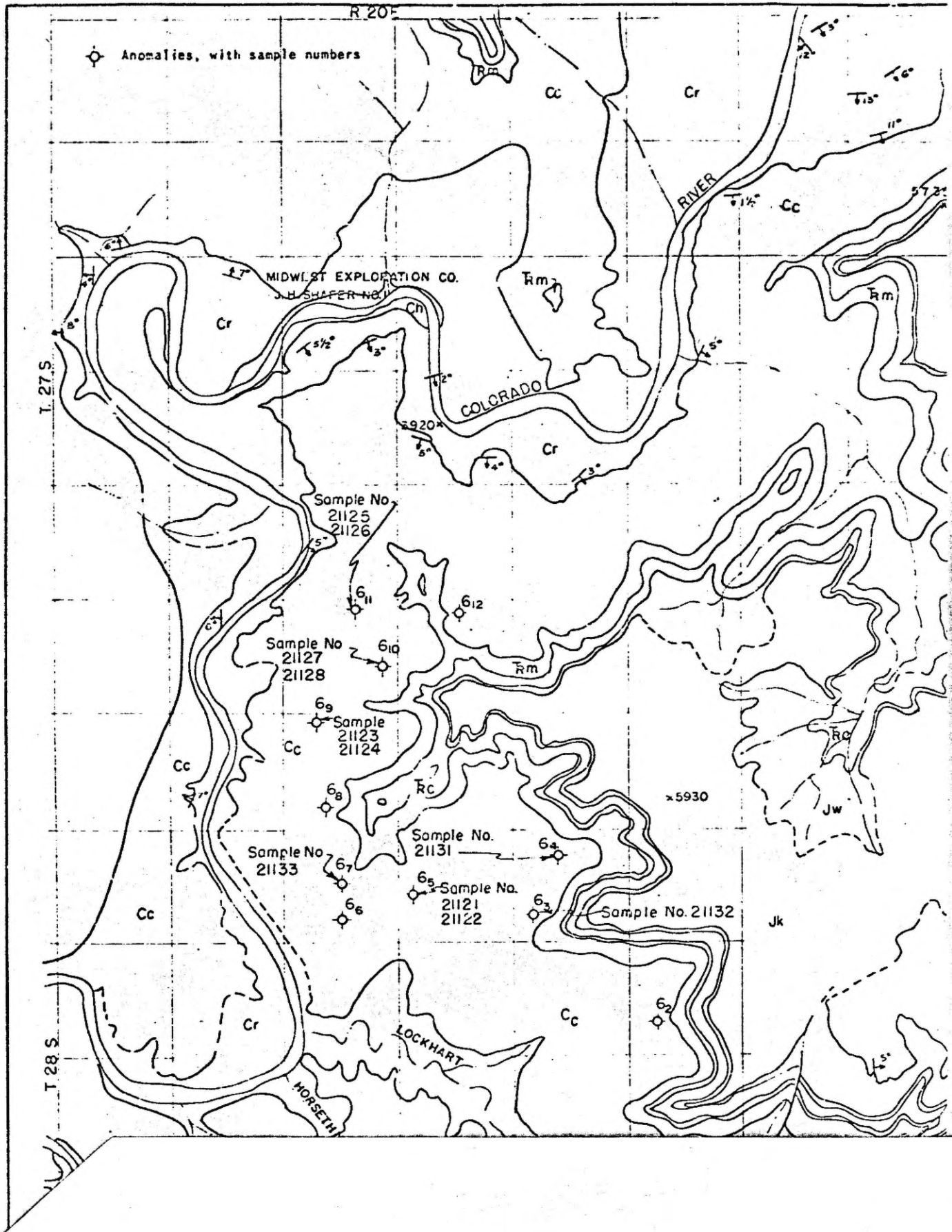
13. OTHER INVESTIGATIONS: None

14. ADDITIONAL INFORMATION:

Refer to U. S. Geol. Bull. 841.

15. SUPPLEMENTARY RECONNAISSANCE
REPORT TO FOLLOW? No

adms 14514. ✓
7360a



7350
MS 67 not plotted X

Locality	Notes	Grade	Quantity	Remarks
14182	Channel and Chip	Moderate		
14183	"	"		
14184	"	"		
14185	Grab	Strong		

County San Juan
 District Moab
 Claim/Mine "I Don't Know"
 Nearest Town Moab, Utah
 Sec. _____ Twp. _____ Range _____

2. Owner of claim, mine or land Emmett Pittman and John Stocks

Address Moab, Utah

4. Previous Work (Maps, Reports, History of prospect, etc.) No information.

5. Type Geiger counter Detectors Mo Model

Background on 0.2 Scale 0.05 C/M or dial reading of up to 2.0

6. Description of Examinations

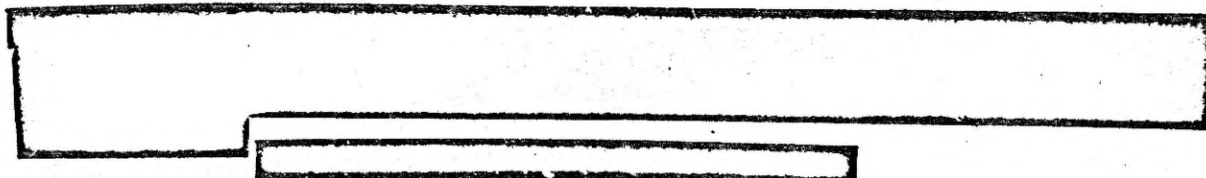
Results Radiometric survey of prospect pits.

	TYPE OF MAPPING	
	Geologic	Radiometric
Detail		
Reconn.		
Surface		
Underground		<u>None</u>

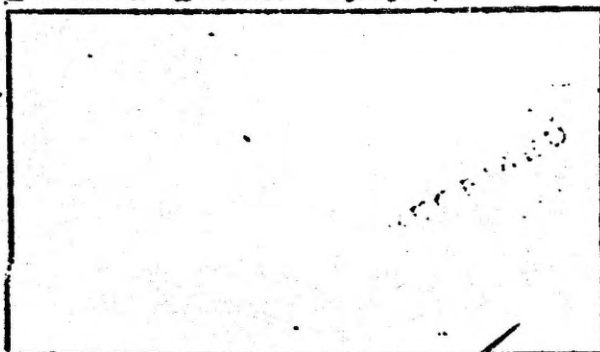
7. Mineralogic Association Carnotite and a vanadium mineral, probably vanadite, are found disseminated in zones ranging up to 16 inches thick. Some Schroederite and a copper mineral are present. Highest uranium concentration is found around and in carbonaceous material.

8. Geologic Environment: The host rock is the Salt Wash, which dips about 30 to 35 degrees to the west. Mineralization is found in at least three zones, which are located approximately 200 feet above the Summerville formation.

9. Type of Deposits The deposits are of the uranium-vanadium type with vanadium predominating.



12. Geologic Sketch Map showing sample locations
☒ not warranted ☐ included in final geologic report



13. Examined by R. F. Drouillard and

R. E. Jones

Grand Junction Exploration Branch

14. Date(s) of examination September 16, 1951

15. Has a proof of ownership form been distributed?

Yes

16. Supplementary Reports

☐ to follow ☒ not necessary

Distributions: P. L. Merritt, NIDEM (2)

C. C. Towle, DEB (2) (1 for Page USGS)

J. O. Hosted, Washington, DCM

R. P. Fischer, USGS, C.J.

F. H. MacPherson, CFMO

W. H. Bradley, Washington, USGS

E. E. Turlow, DEB

QJEB Files (3)

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

MS 44

GJEB-7143

*207

5435

1. SAMPLE INFORMATION IN THE FIELD

Matrix	DRM (color, channel, grade, etc.)	RADIOACTIVITY (strong, moderate, weak)

2. State Utah

County San Juan

District Yellow Circle Group

Claim/Mine Yellow Circle Group

Nearest Town Hoab, Utah

Sec. 3 Twp. 28S Range 23E

3. Owner of claim, mine or land Unknown

Address Leased by Bowles, Haslin, and Thornburg Hoab, Utah

4. Previous Work (Maps, Reports, History of prospect, etc.)

Mapped in 1945 by UMDC Hoab District Report

DRM INITIAL

.....

.....

.....

.....

5. Type Galper counter None Model

Background on Scale C/M or dist reading of

6. Description of Examination:

	TYPE OF MAPPING	
	Ecologic	Reconnaissance
Detail	X	
Recon.		
Surface		
Underground		

Results:

This property was mapped in detail as a possible site for development drilling.

7. Mineralogic Associations:

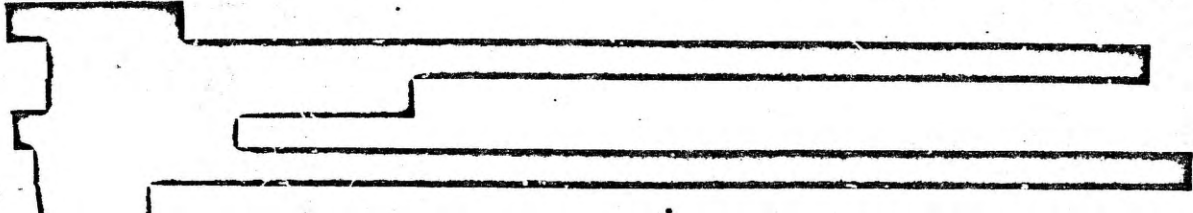
Carnotite, vanadite, and other vanadium minerals associated with iron minerals.

8. Geologic Environment:

Three mineralized zones in the Salt Wash member of the Morrison formation.

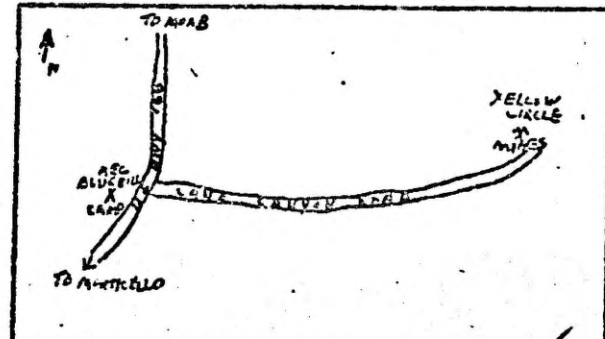
9. Type of Deposit:

Uranium-vanadium Recent production: 3,638 tons 0.29% U_3O_8 1.40% V_2O_5



12. Geologic Sketch Map showing sample locations:

☒ not warranted ☐ included in final geologic report



13. Examined by R. F. Drouillard

E. E. Jones
Grand Junction Exploration Branch
14. Dates of examination: April 18, 1952 to
April 23, 1952

15. Has a proof of ownership form been distributed?

Yes

16. Supplementary Reports
☐ to follow ☒ not necessary

F. H. MacPherson, CRD
W. H. Bradley, Washington, USGS
E. Thurlow, SLNB GJEB Files (3)

Distributions: P. L. Marritt, NYIRM (2)
C. C. Towle, DEB (2) (1 for Page, USGS)
J. O. Lusted, Washington, DRM
P. P. Fischer, USGS, G. J.

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

MS 43

5434
X

1. SAMPLE INFORMATION IN THE FIELD

Number	TYPE (date, amount, prob, etc.)	RADIOACTIVITY (strong, moderate, weak)
No samples taken.		

2. State Utah
County San Juan
District Moab
Claim/Mine Snowflake and Sunflower
Nearest Town Moab, Utah
Sec. 27 Twp. 27S Range 23E

3. Owner of claim Howard W. Belsley
Address Moab, Utah

4. Previous Work (Maps, Reports, History of prospect, etc.) UMDC mapped it in 1945. Produced approximately 775 tons. Grade 0.18 to 0.25% U₃O₈ and 1.10 to 1.67% V₂O₅. Re-examined by GJEB in February 1952 as possible development drilling site.

5. Type Geiger counter _____ Mfg. _____ Model _____
Background on _____ Scale _____ C/N or 301 reading of _____

6. Description of Examination

	TYPE OF MAPPING	
	Geologic	Paleontologic
Detail	X	
Reconn.		
Surface		
Underground		

Results

RE: Report for Development
Drilling Report No. 1 - 2/19/52.

7. Mineralogic Association

Carnotite with vanadium minerals in sandstone.

8. Geologic Environment

Lens-like deposits in the upper portion of the Salt Wash member of the Morrison formation.

9. Type of Deposit

Uranium-Vanadium

12. Geologic Sketch Map showing sample locations

☐ not warranted ☒ included in final geologic report



13. Examined by: R.F. Drouillard, E.E. Jones, R.K. Pitman and J.B. Hopkins

Grand Junction Exploration Branch

14. Date(s) of examination: _____

February 1952

15. Has a proof of ownership form been distributed?

Yes

16. Supplementary Report: DD Report No. 1
☐ to follow ☐ not necessary

Distributions: P. L. Morrill, NYDRM (2)
C. C. Towle, DEB (2) (1 for Page, USGS)
J. O. Hosted, Washington, DEB
R. P. Fitch, USGS, G. J.

P. G. MacPherson, CRM
W. H. Bradley, Washington, USGS
E. Thurlow, SEB GJEB Files (3)

~~5436~~ 7359

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY P. H. Dodd, W. L. Cummings
 DATES EXAMINED January 6, 1951

2. STATE Utah COUNTY San Juan

DISTRICT White Canyon

NEAREST TOWN. Hite 16 - Blanding 75

PROPERTY Sun Rise

LOCATION: unsurveyed
SEC. _____ T. _____ R. _____

3. TYPE OF EXAMINATION: Surface geologic and radiometric

1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

4. DIRECTIONS TO DEPOSIT:

5. OWNER OR OPERATOR: Joe. E. Copper, Fletcher Bronson, Grant L. Bronson
ADDRESS: Monticello, Utah

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: BG of 0.2 on 0.02-.04 scale, dial reading of .1, Detectron geiger counter

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

Probably oxidized telethermal intergranular filling of sandstone lens in Moenkopi; in same horizon as Happy Jack. Minerals are oxidized azurite, malachite, brochantite, chalcantite-uranophane?.

11. PROOF OF OWNERSHIP RECEIVED?
PERMISSION TO PUBLISH RECEIVED?

12. MAP:

13. OTHER INVESTIGATIONS: In vicinity of Happy Jack (Blue Dike) - see USGS Prof. Paper 188 and Dodd's report on Happy Jack, December 1950.

14. ADDITIONAL INFORMATION:

15. SUPPLEMENTARY RECONNAISSANCE
REPORT TO FOLLOW No

C.B.A.-5-1-25

7358

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

1. SAMPLE INFORMATION IN THE FIELD

Number	TYPE (soil, stream, rock, etc.)	RADIOACTIVITY (strong, medium, weak)

2. State Utah
 County San Juan
 District White Canyon
 Claim/Title URACOP #1 #2
 Nearest Town Hite 16 - Planding 78
 Sec. Twp. Range

3. Owner of claim, mine or land Paradigm Corp. America
 Address Montevita, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

Vicinity of Happy Jack. See USGS professional paper 183 and Happy Jack reports, Dodd, December, 1950.

5. Type Geiger counter Detestron Mfg. Model
 Background ca. 2 Scale 200 C/M or Sol reading of 2

6. Description of Examinations

Results

	TYPE OF MAPS	
	Geologic	Sectional
Detail		
Reconn.	X	X
Surface	X	X
Underground	X	X

Only trace radioactivity

7. Mineralogic Associations

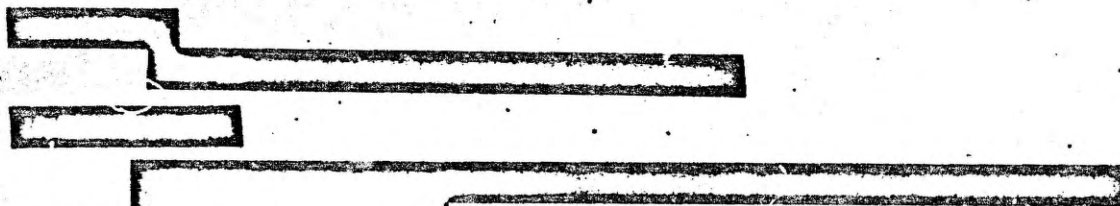
Traces copper stain and uranophane?

8. Geologic Environment

Intergranular and fracture fillings of SS and SH of Mounkopi.

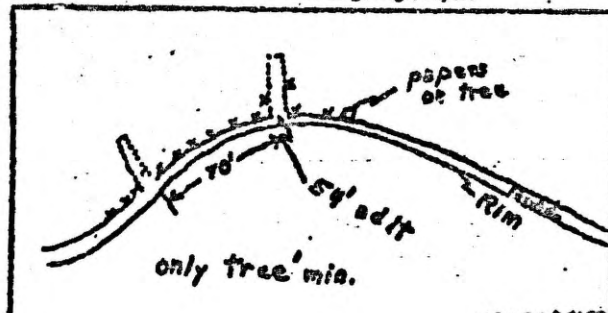
9. Type of Deposit

Possibly telethermal - ground water migration.



12. Geologic sketch map showing sample locations

☐ not warranted ☐ included in final geologic report



13. Examined by: P. H. Dodd and
W. L. Craggins
Colorado Exploration Branch

14. Date of examination

January 6, 1951

15. Has a proof of ownership form been distributed?

16. Supplementary Reports

2. Name of claim, mine or land

Address Naturita, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

Vicinity of Happy Jack. See USGS professional paper 188 and Happy Jack reports, Dodd, December, 1950.

5. Type Geiger counter Detectron

Mfg

Model

Background on .2

Scale .02

L/M or dist reading of .2

6. Description of Examinations

Results

	TYPE OF MAP/USE	
	Geologic	Radioactive
Detail		
Recon.	X	X
Surface	X	X
Underground	X	X

Only trace radioactivity

7. Mineralogic Associations

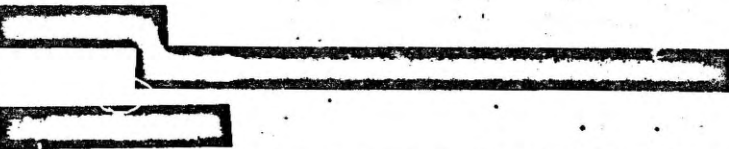
Traces copper stain and uranophane?

8. Geologic Environment

Intergranular and fracture fillings of SS and SH of Moonkopi.

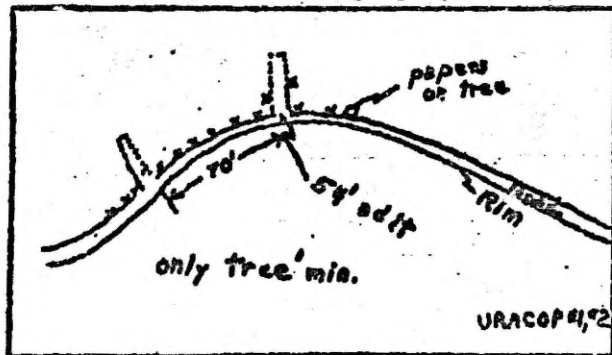
9. Type of Deposit

Possibly telethermal - ground water migration.



12. Geologic sketch map showing sample locations

☐ not warranted ☐ included in final geologic report



13. Examined by: P. H. Dodd and

W. L. Oughings

Colorado Exploration Branch

14. Date of examination

January 6, 1951

15. Has a proof of ownership form been distributed?

1

16. Supplementary Reports

☐ to follow ☒ not necessary

Distribution:

L. Merritt, NYMO GEB files (2) H. V. Lee, NYMO J. O. Hosted, Washington BMO
G. Gallagher, Washington KMO W. E. Bradley, Washington, USGS E.E. Thurlow, SENE
C. Towle, DENY (2) (1 for Page USGS) F. H. Mac Farson, GEMO R. P. Fischer, USGS, G. Jot.

M572

X

CCB-R-28

7357

U. S. FORM 43
(10-6-60)

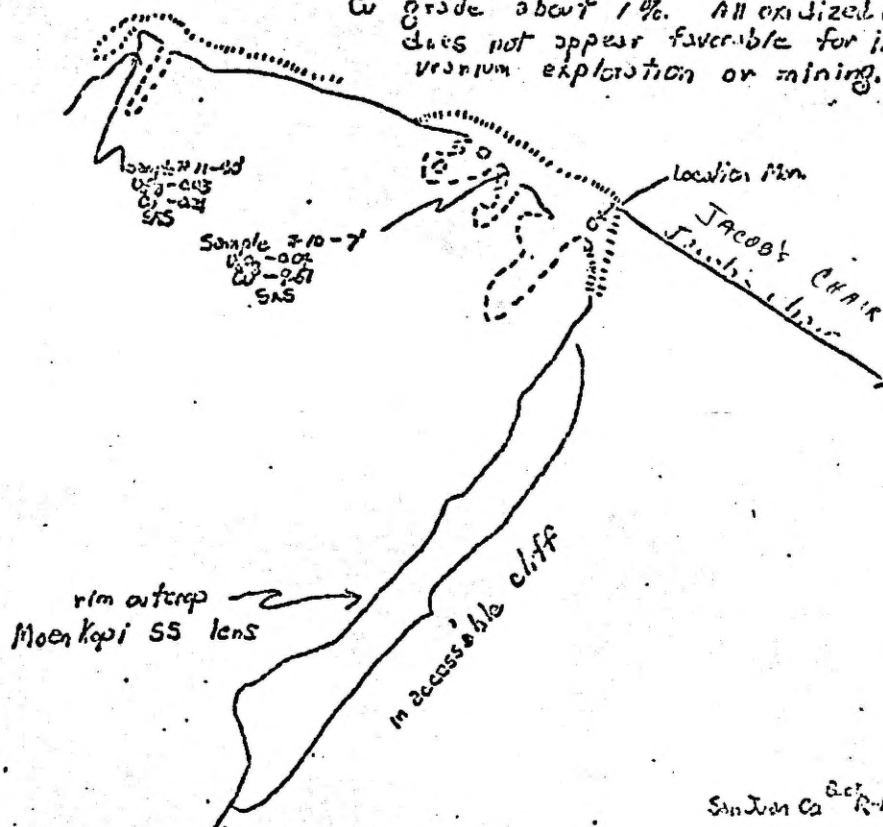
PRELIMINARY RADIOASSAY REPORT
(Use a continuation sheet for additional information, if necessary)

1. SAMPLE INFORMATION IN THE FIELD			2. State <u>Utah</u>							
Sample	TYPE (e.g., stream, soil, etc.)	RADIOACTIVITY (e.g., alpha, beta, gamma)	County	Locality						
#10	7" chip	$U_3O_8 \cdot 0.0\%$; $Cu_2O \cdot 5.8\%$	San Juan	White Canyon						
#11	4"	$U_3O_8 \cdot 0.0\%$; $Cu_2O \cdot 2.3\%$		Four Aces (Dolly Varden)						
				Nearest Town <u>11 miles - Blanding 69</u>						
				Unsurveyed						
			Sec. <u>7</u>	Range <u>69</u>						
3. Owner of claim, mine or land: <u>Joe E. Connor, Fletcher Brenson, Grant Brenson</u>										
Address: <u>Monticello, Utah</u>										
4. Previous Work (Maps, Reports, History of prospect, etc.)										
First worked as Dolly Varden in 1890's. See USGS professional paper 188 and Gregory sketch in S. K. Smyth report 1949.										
5. Type Geiger counter: <u>Deccastron</u> <u>100</u> Model <u> </u>										
Background count: <u>.2</u> Sec: <u>.02</u> C/M or dial reading of: <u>.02 - .1</u>										
6. Description of Examination:			Results:							
<table border="1"> <thead> <tr> <th colspan="2">TYPE OF MATERIAL</th> </tr> <tr> <th>Concentrate</th> <th>Radioactive</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>			TYPE OF MATERIAL		Concentrate	Radioactive			Only few spots show radioactivity above	
TYPE OF MATERIAL										
Concentrate	Radioactive									

7357a

X

Very low or absent radioactivity on counter.
Copper min. along fractures + bedding planes
zone min. up to 15' thick. Est. average
Cu grade about 1%. All oxidized ore
does not appear favorable for immediate
uranium exploration or mining.



San Juan Co. Bldg. R-1 P-289

Issued July 5 1941

by Elmer Hayes
Don Hayes
Chas. Johnson
Jesse Johnson

Produced for the U.S. by
J. W. C. Co.
Frank L. Benson
Richard D. Benson

Four Acres

FILE

White Canyon
N.H.S. R-1 P-289
SXS

1" = 100'

SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary)

71569a
7356
251
42
#1569
200 1569

1. SAMPLE INFORMATION FROM THE LABORATORY

Number	Acid (% U.S.)		Other Elements Control
	Ref. Acid	Control	
			Copper
11658	0.11	0.04	0.06
11699	0.15	0.04	0.20
11660	10.00	3.45	11.50
11661	0.09	0.05	0.10

2. State Utah
County San Juan
District White Canyon
Claim/Mine Fry #1
Nearest Town Blanding, Utah, 69 mi.
Sec. Unsurveyed - head of Fry Canyon
Twp. North

3. Owner of claim, mine, or land White Canyon Mining Co.

Address Dave Creek, Colorado

4. Remarks (Mineral separation and identification; cause of radioactivity, etc.)

Copper-uranium type in Mesquite sand lens. Cu sulphates on outcrop - chalcantite and brochantite. Sulphides in drift - chalcocite, pyrite, covellite, bornite. Highly radioactive nodules, microscopic examination of which suggests chalcocite and pitchblende banded together. Uranium minerals secondary, probably uranophane - primary pitchblende (?)

7. Date of this report

2/9/52

8. To follow:

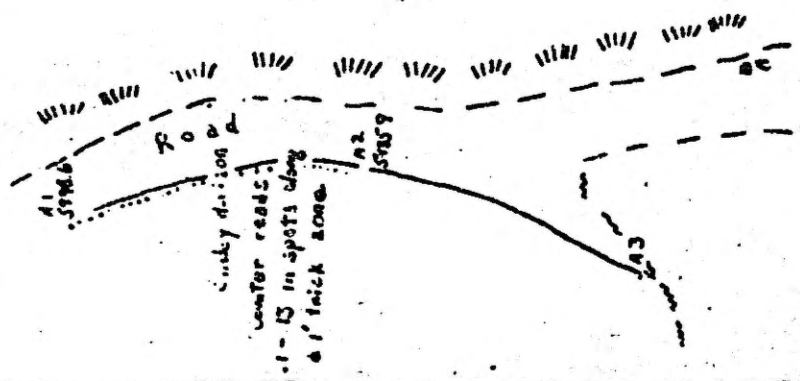
- ☒ Additional supplementary report
☐ Memorandum report
☐ Sound report

9. This is final report ☐

Distribution:

P. L. Herritt, WMS (2) F. H. MacPherson, CMO E. P. Fischer, WMS, O. Jot.
C. C. Teale, WMS (2) (1 for Page 0818) J. O. Johnson, Washington, RAO
E. E. Bradley, Washington, WMS E. F. Threlk, WMS

X



Sketch map of Fry #4, 9 Feb. '31
Scale 1"=20' Genl. by PHOOLW
Traced by WRC

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

73524
11569
see supplement to
this Reconnaissance
Report 7356

1. SAMPLE INFORMATION IN THE FIELD

Sample	Depth (meters, feet, etc.)	Remarks (Color, texture, etc.)
11658	5.8' vert. chip	moderate
11660	.4 chip	high
11659	4.6' vert. chip	high
11661	3.2' vert. chip	moderate

2. State Utah
County San Juan
District White Canyon
Cada/Mine Fry #1
Nearest Town Alamogordo, Utah 89 miles
Sec. Unsurveyed - head of Fry Canyon
Twp. Range

3. Owner of claim, mine or land White Canyon Mining Co.
Address Dove Creek, Colorado

4. Previous Work (Logs, Reports, History of prospect, etc.)

Located by A. E. and Seth Shumway 1948. Sold to White Canyon Mining Co. December, 1950. S. E. Smyth report, January, 1949, has sketch. No other maps.

5. Type Geiger counter Detectron Model 443
Background _____ Scale _____ C/M or dial reading of _____

6. Description of Examination: Examined January 5-6, 1951. Results

	TYPE OF MAPPING	
	Geologic	Geometric
Detail		
Structure		
Surface	X	X
Underground		

See sketch attached.

7. Mineralogic Association:

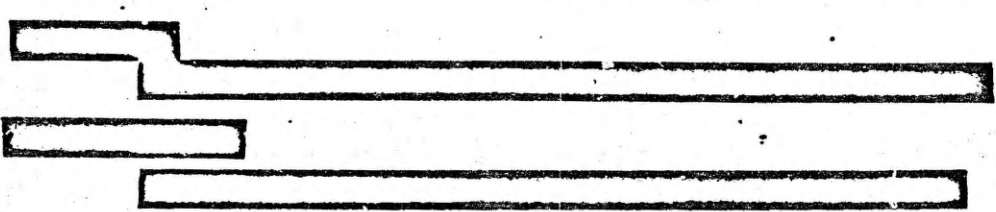
Copper-uranium type. Cu sulphates and traces of sulphides. Secondary U minerals. (probably uranophane, beaverite, etc.)

8. Geologic Environment:

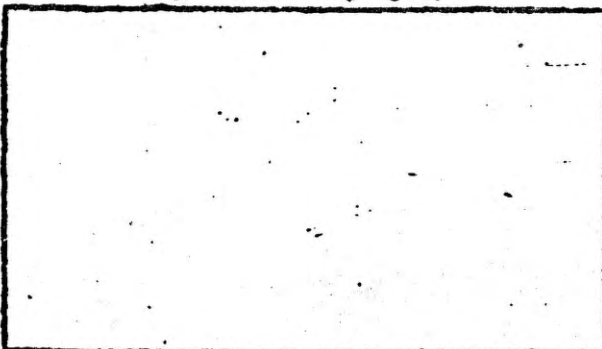
Intergranular fillings in 82 lens of Moenkopi.

9. Type of Deposit:

Not known for sure. Mineralogy suggest some primary hydrothermal deposition.



12. Geologic Sketch Map showing sample locations Attached.
☐ not warranted ☐ included in final geologic report



13. Examined by: P. H. Dodd and
W. L. Cummings
Colorado Exploration Branch

14. Date(s) of examination: January 5-6, 1951

15. Has a proof of ownership form been distributed? Yes

16. Supplementary Report:
☒ to follow ☐ not necessary AFTER More Development.

Distributions:
V. L. Herrick, NYRMO OES File (2) H. V. Lee, NYRMO J. O. Rosted, Washington BMO
G. G. Callagher, Washington BMO W. E. Bradley, Washington, USGS E. E. Thurston, BMY
C. D. Towle, BMY (2) (1 for Page USGS) P. E. MacPherson, BMO R. P. Fischer, USGS, C. Jot.

PRELIMINARY ECONOMIC RESEARCH REPORT
(Use a continuation sheet for additional information, if necessary)

1348
MS 65-15 ✓

1. SAMPLE INFORMATION IN THE FIELD

Name XXX
(city, state, path, etc.)
Location Shipment of unknown grade made in July 1951. Company engineer has stated shipment was ore-grade.

2. State Utah

County San Juan
District White Canyon (Deer Flat)
Section/Block XX
Nearest Town Blanding, Utah
Sec. _____ **Twp.** _____ **Range** _____

3. Owner of claim, mine or land White Canyon Mining Co.

Address Cortez, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

5. Type of survey Detraction

Body and on _____ **Scale** _____ **C/M or old reading of** _____

6. Description of Formation

	TYPE OF MAPS	
	Geologic	Topographic
Geologic		X
Topographic		X

7. Mineralogical Association Pyrrhotite, uranophane, sylvite, jarosite, erythrite, and unidentified uranium mineral.

8. Geologic Environment

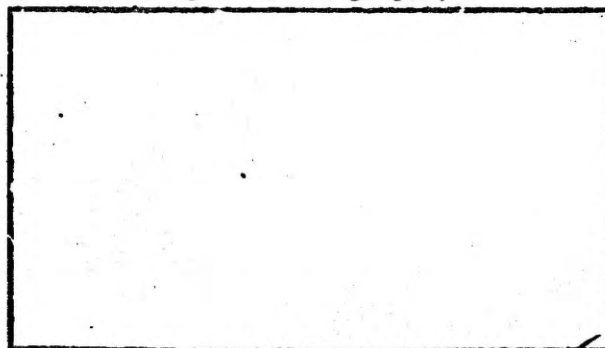
Mineralization occurs in a thin sandstone bed and in an overlying 10-foot bed of claystone. In a deep scour of a paleo-drainage channel at the base of the Shinarump. The MI seems to be one of the most promising areas on Deer Flat.

9. Type of Deposit



12. Geologic Sketch Map showing sample locations

☐ not warranted ☐ included in final geologic report



13. Conducted by William H. Fournier, Jr.
Grand Junction Exploration Branch

14. Date of examination _____

July 5, 1951

15. Has a proof of ownership been obtained?

16. Supplementary Report
☒ to follow ☐ not necessary

Distribution: P. L. Harritt, MINE (2) ✓
O. C. Toulis, MIB (2) (1 for Page 1003)
J. C. Johnson, Washington, MIB

F. H. MacPherson, MIB
W. H. Bradley, Washington, MIB
J. C. Johnson, MIB

1347
50112
MS 64

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

1. SAMPLE INFORMATION IN THE FIELD

Mineral	TYPE (sh, cl, sand, gss, etc.)	REACTIVITY (strong, moderate, weak)

2. State Utah
County San Juan
District White Canyon (Deer Flat)
Claim/Mine Carol Claim
Nearest Town Blanding, Utah
Sec. _____ **Twp.** _____ **Range** _____

3. Owner of claim, mine or land Leased by Standard Mining Corporation of New York
Address Grand Junction, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

5. Type Geiger counter Detectron **Model** _____
Background on _____ **Scale** 03 **C/M or dial reading of** 17

6. Description of Examination

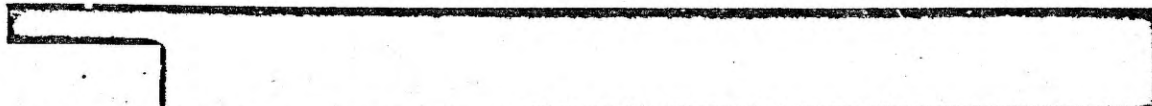
	TYPE OF MAPPING	
	Geologic	Radioactive
Detail		
Recon.		X
Surface		X
Underground		

Results

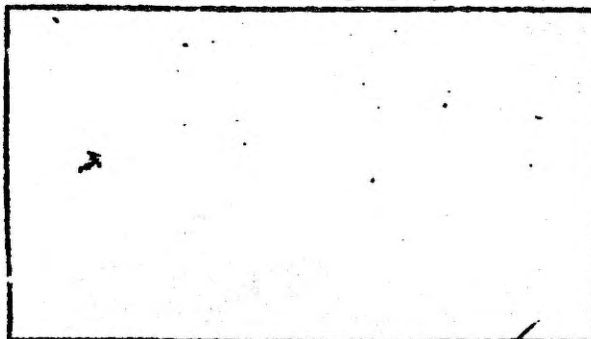
7. Mineralogic Association Gypsum, jarosite, and yellow uranium sulfates (not identified).

8. Geologic Environment Mineralization occurs in a mud-rock flow which covers the Shinarump conglomerate. Origin of the uranium sulfates seems to be the Shinarump conglomerate beneath the flow.

9. Type of Deposit Bedded.



12. Geologic Sketch Map showing sample locations
☐ not warranted ☒ included in final geologic report



13. Examined by Walter G. Verner, Jr.
Grand Junction Exploration Branch

14. Date of examination _____

July 5, 1961

15. Has a proof of ownership form been distributed?

16. Supplementary Reports

☒ to follow ☐ not necessary

Distribution: P. L. Merritt, BYDRM (2)
 C. C. Towle, DEB (2) (1 for Page USGS)
 J. C. Johnson, Washington, RMD
 R. P. Fischer, USGS, G.J..

F. H. MacPherson, CRMO
 W. H. Bradley, Washington, USGS
 E. E. Thurlow, DEB GJEB Files (3)

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

GJEB:R-67

MS63

1. SAMPLE INFORMATION IN THE FIELD

Sample	TYPE (qty, channel, rock, etc.)	ANALYSIS (wt. %, elements, units)
Shipped:	104.49 tons ore	assayed 0.12% U ₃ O ₈ 3.56% Cu
	24.07 tons ore	assayed 0.25% U ₃ O ₈ 2.90 Cu

2. State Utah

County San Juan

District White Canyon (Deer Flat)

Claim/Mine Hideout #1

Nearest Town Blanding, Utah

Sec. Twp. Range

3. Owner of claim, mine or land White Canyon Mining Co.

Address Cortez, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.) Report on Copper-uranium deposits of White Canyon, Utah, by S. K. Smyth, Grand Junction Extension, New York Raw Materials Office, Grand Junction, Colorado.

5. Type Galv./ counter Detection

Mag

Model

Background on Scale .03 C/M or dist reading of

6. Description of Examination

Results

	TYPE OF MAPPER	
	Geologic	Geomorphic
Detail		
Regional		
Surface		X
Underground		X

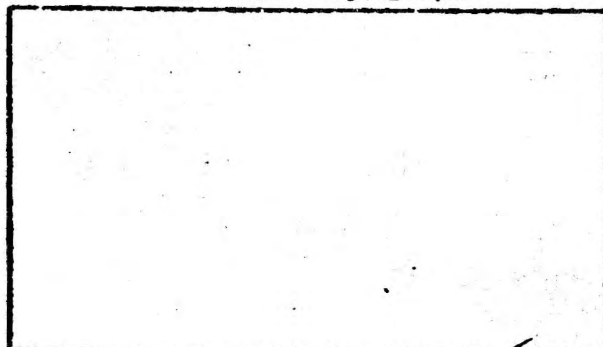
7. Mineralogic Association Zippelite, bornite, pyrite, chalcocite, and unidentified earthy uranium mineral.

8. Geologic Environment Mineralization occurs in paleo-drainage channel in the lower 8 feet of the Shinarump conglomerate.

9. Type of Deposit Bedded.

12. Geologic Sketch Map showing sample locations

☐ not warranted ☐ included in final geologic report



13. Examined by Walter G. Verner, Jr.
Grand Junction Exploration Branch

14. Date of examination

July 5, 1951

15. Has a proof of ownership form been distributed?

16. Supplementary Report:

☒ No follow ☐ not necessary

Distribution: P. L. Merritt, NYDERN (2) ✓

C. C. Towle, DEB (2) (1 for Page USGS)

J. C. Johnson, Washington, RMD

R. D. [unclear]

F. H. MacPherson, CRM

W. H. Bradley, Washington, USGS

U. S. [unclear] SER GJEB R-67 (2)

PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary)

1. Sample information in the field

Number	Type (chip, channel, grab, etc.)	Radioactivity (strong, moderate weak)
none		

2. State Utah

County San Juan

District White Canyon

Claim/Mine North Point #6 Direction

Nearest Town Blanding

Sec. Twp. Range

3. Owner of claim, mine or land Sutton-Delaney

Address Dove Creek, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

Report H. E. Gregory the San Juan Country U.S.G.S. professional paper #108
Report Racer, Smyth, Schmidt, ADC Files 1048
Report U.S.G.S. (see L. Page) 1943

5. Type Geiger counter Detectron Mfg. Model

Background on C-0.2 Scale: C/M or dial reading of C-15

6. Description of Examination: Examined 11/21/50. Results:

	Type of mapping	
	Geologic	Radiometric
Detail	==	x
Reconn.	==	
Surface	==	
Undergrnd.		

Radioactivity is spotty along outcrop.
Full scale readings on C-0.2 obtainable
in two places.

7. Mineralogic Association:

Copper-uranium deposit. Surface exposure typical oxidized zone, fracture filling and coating of carbonates and oxides of Cu, Fe and U.

8. Geologic Environment:

Outcrop is in Shinarump formation, which at this location is only 30 feet thick. Mineral is found in tabular zone 1 1/2 feet to 2 feet thick.

9. Type of Deposit

Thin tabular zone of mineralization in fine conglomerate. Mineral restricted to fracture fillings and surface coatings. Zone discontinuous over 200 feet of rim.

Claim No. _____
Nearest Town _____
Sec. _____ Twp. _____ Range _____

3. Owner of claim, mine or land Sittone-Dulaney

Address Dove Creek, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)

Report H. E. Gregory the San Juan Country U.S.G.S. professional paper #108

Report Rasor, Smyth, Schmidt, ADC Files 1048

Report U.S.G.S. (see L. Page) 1943

5. Type Geiger counter Detectron Mfg. _____ Model _____

Background on C-0.2 Scale: _____ C/M or dial reading of 0.15

6. Description of Examination: Examined 11/21/50. Results:

	Type of mapping	
	Geologic	Radiometric
Detail		
Reconn.	==	==
Surface	==	
Undergrnd.		

Radioreactivity is spotty along outcrop.
Full scale readings on C-0.2 obtainable
in two places.

7. Mineralogic Association:

Copper-uranium deposit. Surface exposure typical oxidized zone, fracture filling and coating of carbonates and oxides of Cu, Fe and U.

8. Geologic Environment:

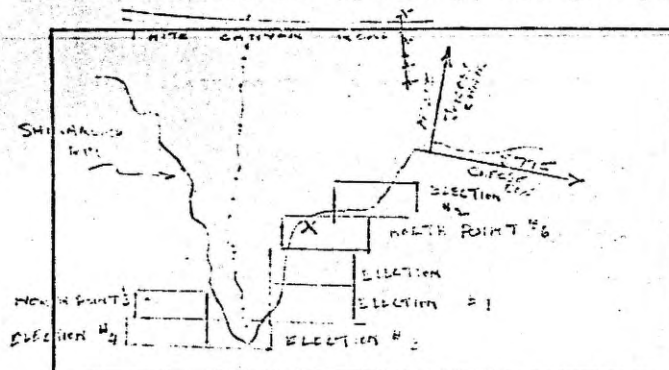
Outcrop is in Shinarump formation, which at this location is only 30 feet thick. Mineral is found in tabular zone 1 1/2 feet to 2 feet thick.

9. Type of Deposit

Thin tabular zone of mineralization in fine conglomerate. Mineral restricted to fracture fillings and surface coatings. Zone discontinuous over 250 feet of rim.

12. Geologic Sketch Map showing sample location:

☐ not warranted ☐ included in final geologic report



13. Examined by: J. A. Tavelli

Colorado Exploration Branch

14. Date(s) of examination: _____

11/21/50

15. Has a proof of ownership form been distributed? NO

16. Supplementary Report:

☒ to follow ☐ not necessary

Distribution:

L. Horritt, NYRMO

CRB Files (3)

H. V. Lee, NYRMO

O. Hosted, Washington, RMO

G. G. Gallagher, Washington, RMO

W. H. Bradley, Washington, USG

D. Thurlow, DENY

G. C. Towle, DENY (2) (1 for Page USG3)

F. H. MacPherson, CRMO

P. Fischer, USGS, G. Jet.

21773

1958 3429 ✓

Sample information in the field			2. State	
Location	Type (ch. p., channel, grab, etc.)	Radioactivity (strong, moderate weak)	County	District
60	Channel		San Juan	
			Claim/Mine	White Canyon
			Nearest Town	
			Sec.	Twp. Range

3. Owner of claim, name of owner, location of claim, address
 Gregory, E. B.; Gregory & Robinson; J. Wiley Bell

4. Previous Work (Maps, Reports, History of prospect, etc.)

Gregory, E. B., The San Juan Country, Utah, Professional Paper 153.

Prospecting started in 1880 for copper. 1946: First U shipped.

5. Type Geiger counter _____ Mfg. _____ Model _____
 Background on _____ Scale: _____ C/M or dial reading of _____

6. Description of Examination: Examined Sept. -
 Type of mapping Oct. 1946.

	Type of mapping	
	Geologic	Radioactive
Vegetation		
Relief		
Surface		
Underground		

Results:
 This idle mine. 15 claims were
 sampled and checked with counter, 5 non-
 radioactive localities were checked, 2 column
 sections were made (Color Mass to Wingate)

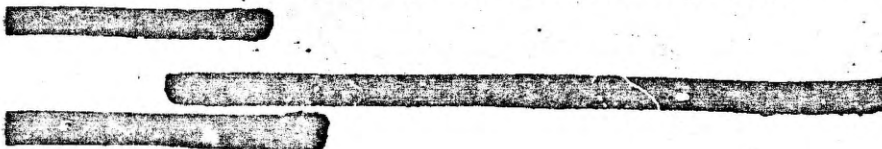
7. Mineralogic Association.

Chalcopyrite, bornite, covellite, chalcocite, erythrite, alunite, chalcantite,
 brochantite with yellow and green fluorescent uranium minerals. Later, pitch-
 blende and perhaps mesopellicite have been identified.

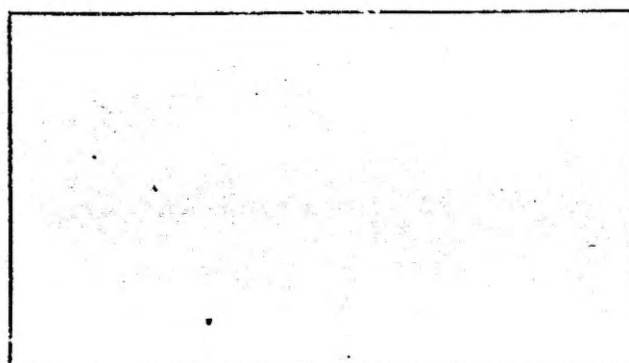
8. Geologic interpretation
 Lenticular deposits in basal silicified conglomerate.

9. Type of Deposit:

Copper-Uranium deposits in sedimentary rocks.



12. Geologic Sketch Map showing sample location:
☐ not warranted ☐ included in final geologic report



13. Examined by:
 Harry C. Gearing
 E. P. Doroni

14. Date(s) of examination:

September and October, 1948

15. Has a proof of ownership form
 been distributed?

16. Supplementary Report
☐ to follow ☐ not necessary

MS52
CEB-N-20

PRELIMINARY RECONNAISSANCE REPORT

(Use a continuation sheet for additional information, if necessary)

1. Sample information in the field			2. State <u>Utah</u>	
Number	Type (chip, channel, grab, etc.)	Radioactivity (strong, moderate weak)	County	District
none			<u>San Juan</u>	<u>White Canyon</u>
			Claim/Mine <u>North Point #6; Election #2</u>	
			Nearest Town <u>Blending</u>	
			Sec. _____	Twp. _____ Range _____

3. Owner of claim, mine or land Stinson-Lumley
Address Dove Creek, Colorado

4. Previous Work (Maps, Reports, History of prospect, etc.)
Report H. M. Gregory the San Juan Country U.S.G.S. Professional paper 103
Robert Mason, Wright, Schmidt, 1940 filed 1940
Report U.S.G.S. (see L. Page) 1940

5. Type Geiger counter Detectron Mfg. _____ Model _____
Background on 0-0.2 Scale: _____ C/M or dial reading of 0.10

6. Description of Examination: Examined 11/21/50. Results:

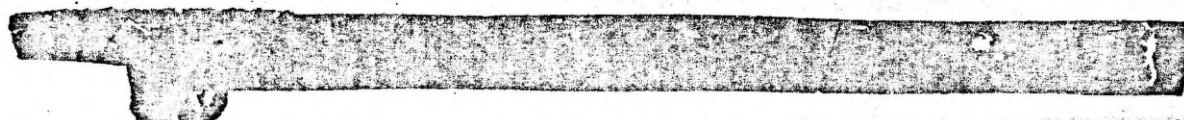
	Type of mapping	
	Geologic	Radiometric
Detail	×	×
Reconn.	×	×
Surface	×	×
Undergrnd.		

Radioactivity is spotty along outcrop.
Full scale readings on 0-0.2 obtainable
in one place.

7. Mineralogic Association:
Copper uranium deposit. Surface exposure typical oxidized zone, fracture filling and coating of carbonates and oxides of Cu, Fe and U.

8. Geologic Environment:
Outcrop is in Chinleup formation, which at this location is only 30 feet thick. Mineral is found in tabular zone 1/2 foot to 2 feet thick.

9. Type of Deposit:
Thin tabular zone of mineralization in fine conglomerate. Mineral restricted to fracture fillings and surface coatings. Zone discontinuous over 200 feet of rim.



PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

11551
54426
X

1. SAMPLE INFORMATION IN THE FIELD

NUMBER	TYPE (pit, channel, creek, etc.)	RADIOACTIVITY (gross, standard, work)
11665	Channel	Moderate Chem. .21%

2. State Utah

County San Juan

District White Canyon

Claim/Mine Jones

Nearest Town Hitc 7 miles, Blanding 60 miles

Loc. Unsurveyed Range

3. Owner of claim, mine or land Joe Flosser, MacLeod, William Barrett

Address Hitc, Utah via Hanksville, Utah

4. Previous Work (Maps, Reports, History of prospect, etc.)

None on specific claim.

Regional - Gregory USGS Prof. Paper 188

B. S. Butler USGS Prof. Paper 111

5. Type Geiger counter Detectron Model

Background on .2 Scale C/M or dial reading of .2 mr/hr

6. Description of Examination:

	TYPE OF MAPPING	
	Geologic	Radioactive
Detail		
Recon.	X	X
Surface	X	
Underground		

Results

Trace activity for 375 feet along outcrop. 50 feet shows activity similar to pit which sample assayed .21%.

7. Mineralogic Association:

Secondary copper carbonates and sulphates in coarse quartz sandstone. Traces of what may be uranophane, torbernite. Probably oxidized from copper sulphides and uraninite.

8. Geologic Environment:

Impregnation of 0-25 foot sandstone lens stratigraphically located near the middle of the Moenkopi formation.

9. Type of Deposit:

Probably oxidized hydrothermal similar to Happy Jack.

12. Geologic Sketch Map showing sample locations:

☐ not warranted ☐ included in final geologic report

See attached Geologic Sketch Map from uncontrolled photos.

13. Examined by: P. H. Dodd and W. L. Cummings

Colorado Exploration Branch

14. Date(s) of examination: January 22, 1951

15. Has a proof of ownership form been distributed? NO

16. Supplementary Report:

☐ to follow ☒ not necessary

Distribution:

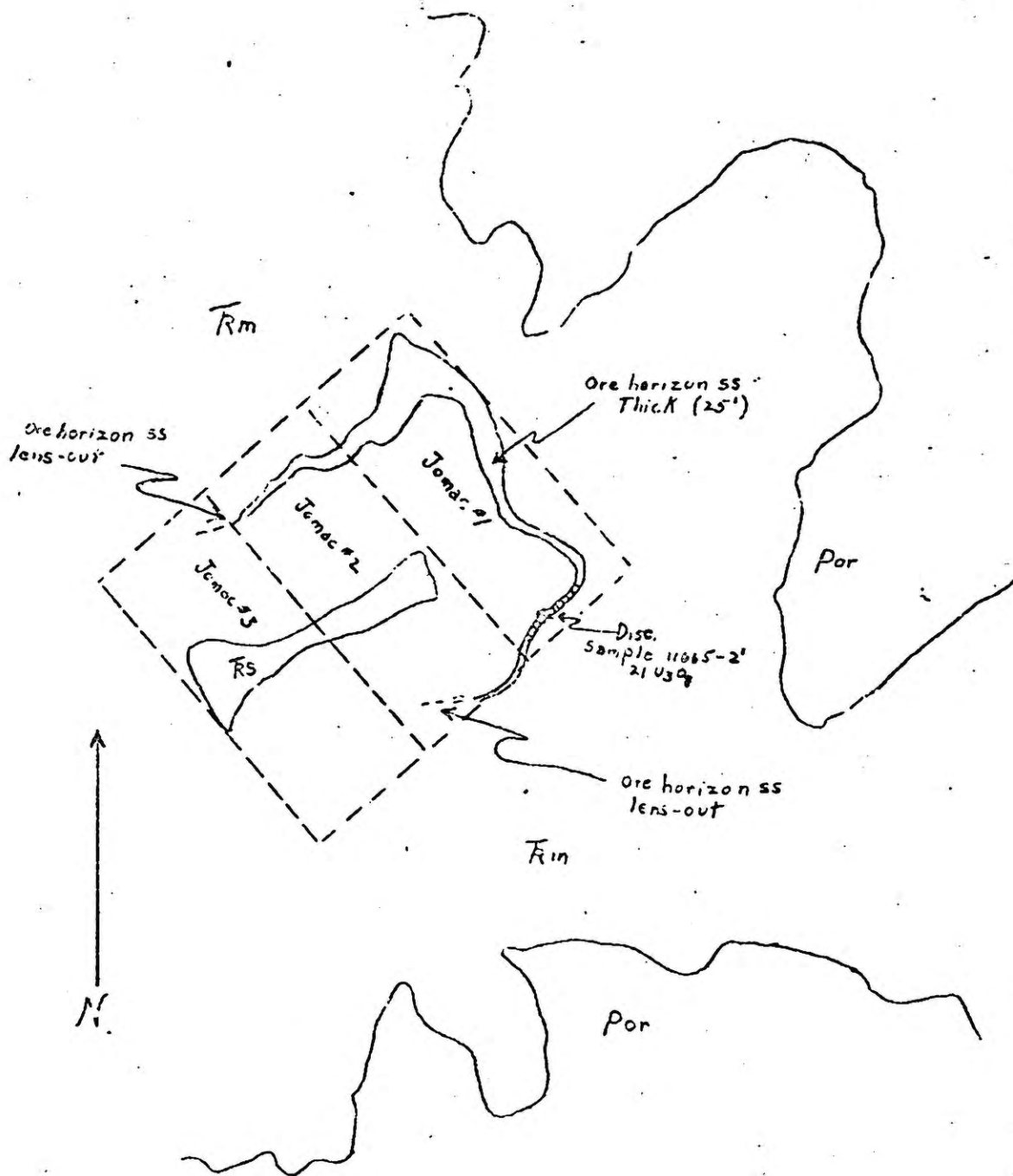
P. L. Merritt, NRMNO (2) ✓ P. H. MacPherson, CRMO R. P. Fischer, USGS, G.J.

C. C. Towle, DENY (2) (1 for Page USGS) J. C. Johnson, Washington, RMO CEB Files (2)

W. E. Bradley, Washington, USGS E. E. Threlkeld, SENV

MS51-X

5/1/50



Geologic Sketch Map
Jomac Group of Piosas, MacLeod, & Barrett
Scale approximately 1" = 600'

PRELIMINARY RECONNAISSANCE REPORT
(Use a continuation sheet for additional information, if necessary)

GJEB:R-87

5439

MS48

1. SAMPLE INFORMATION IN THE FIELD

Number	TYPE (deep, channel, rock, etc.)	RADIOACTIVITY (Cpm, dpm, etc.)
12006	Grab	Fairly strong
12002	Channel	.16% (Radiometric)
12003	" lengths	.18% "
12009	"	.10% "
12004	" 1.0 ft.	.12% "
12001	" to 3.0 ft.	.08% "

2. State UtahCounty San JuanDistrict White CanyonClaims leased by DuncanClaim/Mine Mining Co.Nearest Town Hite, UtahApprox. Lat. 37Sec. Twp. Range 3. Owner of claim, mine or land Charles Butler, Geologist acting for Duncan Mining Co.Address c/o Box 115, Blanding, Utah4. Previous Work (Maps, Reports, History of prospect, etc.) Area prospected and claimed by Seth Shumway during 1949. Claims leased by Duncan Mining Co., in July (?) 1951. No previous work on this prospect has come to our attention.5. Type Geiger counter Detectron Mfg. Model DG2-K SeriesBackground on .03 .04 Scale .2 C/M or dpm reading of mc/hr

6. Description of Examinations

	TYPE OF MAPPING	
	Geologic	Radiometric
Detail	X	X
Reconn.	X	X
Surface	X	X
Underground		

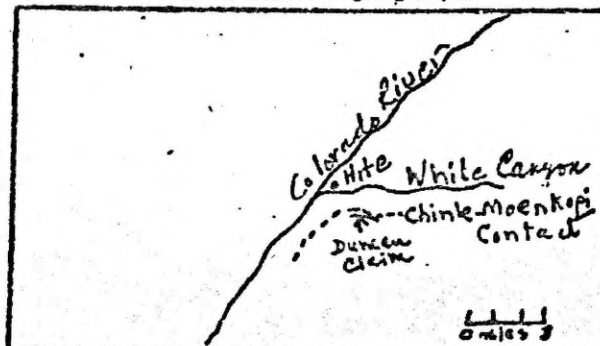
Results: Channel samples were taken at outcrops showing greatest radioactivity. A 10-gram lead taken to Monticello assayed .11% U₃O₈. Radioactivity is increasing as mining develops into the ore rim.

7. Mineralogic Association: Oxidized copper minerals replacing "logs" and disseminated in sandstones and conglomerate. Uranium minerals noted: Meta-autunite, radioactive hydrocarbons.

8. Geologic Environment: The copper-uranium minerals occur in a layer of coarse sandstone and conglomerate at the base of the Chinle formation. Probably equivalent to Shinarump in age. Mineralized zone up to 3 feet thick.

9. Type of Deposit: Mineralization seems to have been controlled largely by channeling and locally by carbonaceous material.

12. Geologic Sketch Map showing sample locations

☐ not warranted ☒ included in final geologic report13. Examined by: W. G. Verner andP. C. deVergie

Grand Junction Exploration Branch

14. Date(s) of examination:

September 13-19, 1951

15. Has a proof of ownership form been distributed?

No

16. Supplementary Reports:

☒ to follow ☐ not necessary

Distributions: P. L. Morrill, HYDRM (2)
C. C. Towle, DEB (2) (1 for Page, USGS)
J. O. Hosted, Washington, DEB
R. P. Pritchard, USGS, G. J.

F. H. MacPherson, CRMO
W. H. Bradley, Washington, USGS
E. E. Thurlow, SEB GJEB Files (3)

PRELIMINARY RECONNAISSANCE REPORT (Use a continuation sheet for additional information, if necessary)

MS 47
5438

1. SAMPLE INFORMATION IN THE FIELD

Number	TYPE (chip, dust, grab, etc.)	RADIOACTIVITY (Chemical) (micro, millieci, curie)
		U_3O_8
11669	Channel	0.06
11670	Grab	0.02
11672	Grab	0.04

2. State Utah

County San Juan
 District White Canyon
 Claim/Mine WJO #1
 Nearest Town Blaming 85 mi.
 Sec. Unsurveyed
 Twp. Two Range

3. Owner of claim, mine or land H. Goforth, J. Parkson, StevensAddress Bluff, Utah

4. Previous Work (Maps, Reports, History of prospect, etc.)

5. Type Geiger counter Detectron

Wtg.

Model

Background on .2 Scale .06 C/M or dial reading of

6. Description of Examinations

Results

	TYPE OF MAPPING	
	Geologic	Radiometric
Detail		
Reconn.		
Surface		
Underground		

Counter read up to .18 in small pits dug by prospectors.

7. Mineralogic Associations

Cu sulphates and carbonates, limonite staining, yellow-green crystalline mineral radioactive (?)

8. Geologic Environment

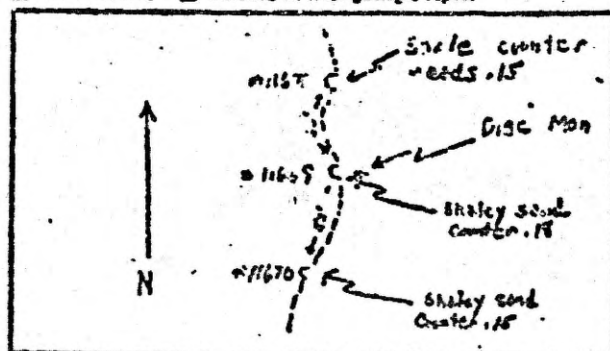
Thin bedded horizon, three to four feet thick, grading laterally from shale to shaly sand. Horizon in middle Moenkopi above a red shale. Mineralized horizon exposed only where prospectors have dug small pits.

9. Type of Deposit

Unknown

RECEIVED

12. Geologic Sketch Map showing sample locations

☒ not warranted ☐ included in final geologic report13. Examined by Gummings, W. L.14. Date of examination 2/16/51

15. Has a proof of ownership form been distributed?

No

16. Supplementary Reports

☐ to follow ☒ not necessary

Distributions:

P. L. Herritt, MEMO (2)

C. O. Towle, MEMO (2) (1 for Page USGS)

E. H. Bradlow, Washington, USGS

T. H. MacPherson, (MO)

J. C. Johnson, Washington, RMO

P. F. Fischer, USGS, G.J.

CEB Files (2)

MS20 ✓

F 11 QJEB-R-162

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. K. Pitman
 DATE, S, EXAMINED June 2, 1952

2. STATE Utah COUNTY Santa Fe

DISTRICT Nakai Mesa

1. SAMPLES

NUMBER	TYPE AND W.D.H.	RADIOACTIVITY
15169	Chip 1½"	cu 1.12%, U ₃ O ₈ .06% V ₂ O ₅ .03%
15170	Chip 1"	cu 1.27, U ₃ O ₈ .05%

NEAREST TOWN Keyenta

PROPERTY Channel 13W

LOCATION
 SEC 28 43 S 13 E

3. TYPE OF EXAMINATION.

Radiometric

4. DIRECTIONS TO DEPOSIT:

5. OWNER OR OPERATOR: Navajo Tribal Council
 ADDRESS Window Rock, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

None

7. RADIOACTIVITY:

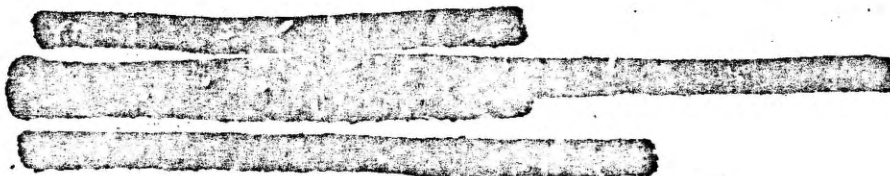
Up to .02 CPM on Detectron

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

Topography: On the cliff side of a flat lying Shinarump bench

Geology: A broad channel cut into the Moenkopi and filled with Shinarump copper traced for approximately 250 feet. Weak uranium mineralization for approximately 30 feet. Moenkopi altered in upper 3 feet. Mineralization not over 2 feet thick.

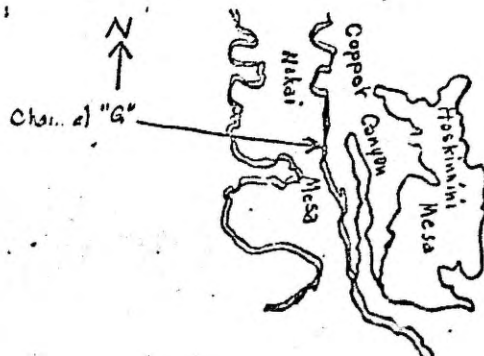
Mineralogy: Green copper (probably malachite), tiny blebs of carbon or asphalt, pale-green uranium mineral.



11. PROOF OF OWNERSHIP RECEIVED?
 PERMISSION TO PUBLISH RECEIVED?

13. OTHER INVESTIGATIONS:

12. MAP:



14. ADDITIONAL INFORMATION:

15. SUPPLEMENTARY RECONNAISSANCE
 REPORT TO FOLLOW: No

Oligo to Quad

MS16 5404

FILE GJEB-157

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. K. Pitman, R. Cutter
DATES EXAMINED April 22, 1952

2. STATE Utah-Arizona COUNTY San Juan
Navajo

DISTRICT #8, Nokai Mesa

NEAREST TOWN Kayenta, Arizona

PROPERTY Channel E

LOCATION:
SEC. 133 T. 435 R. 135

1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY		
		Percent		
15165	2' channel	3.47	0.14	0.27
		Cu	V ₂ O ₅	U ₃ O ₈
15166	4' channel	0.67	0.07	0.05

3. TYPE OF EXAMINATION:

4. DIRECTIONS TO DEPOSIT

5. OWNER OR OPERATOR: Navajo Tribal Council
ADDRESS: Winder Rock, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: Detectron beta-gamma counter, BG on 0.03, .2 scale

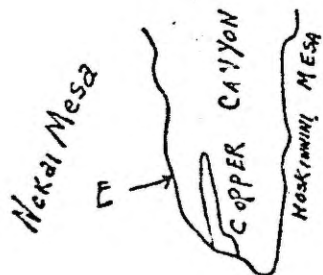
8. DESCRIPTION OF DEPOSIT (Discuss under: A. Topography, B. Geology, C. Mineralogy)

Large paleochannel cut into Moenkopi formation and filled with medium- to coarse-grained gray sandstone containing green copper mineralization and unidentified uranium minerals.



11. PROOF OF OWNERSHIP RECEIVED?
PERMISSION TO PUBLISH RECEIVED?

12. MAP:



13. OTHER INVESTIGATIONS:
RMO-709, U-Cu deposits near Copper Canyon,
by Reinhardt.

14. ADDITIONAL INFORMATION:

15. SUPPLEMENTARY RECONNAISSANCE
REPORT TO FOLLOW



URANIUM-OCCURRENCE

Quad Name A90<ESCALANTE_____>

REPORT

Quad Scale A100< 250000>

Deposit No. B40< 3>

Deposit Name A10<SKYLINE_____>

Synonym Name(s) A11<_____>

District or Area A30<MONUMENT VALLEY_____>

Country A40<US> US State UTAH_____

State Code A50<49> 49 County A60<SAN JUAN_____>

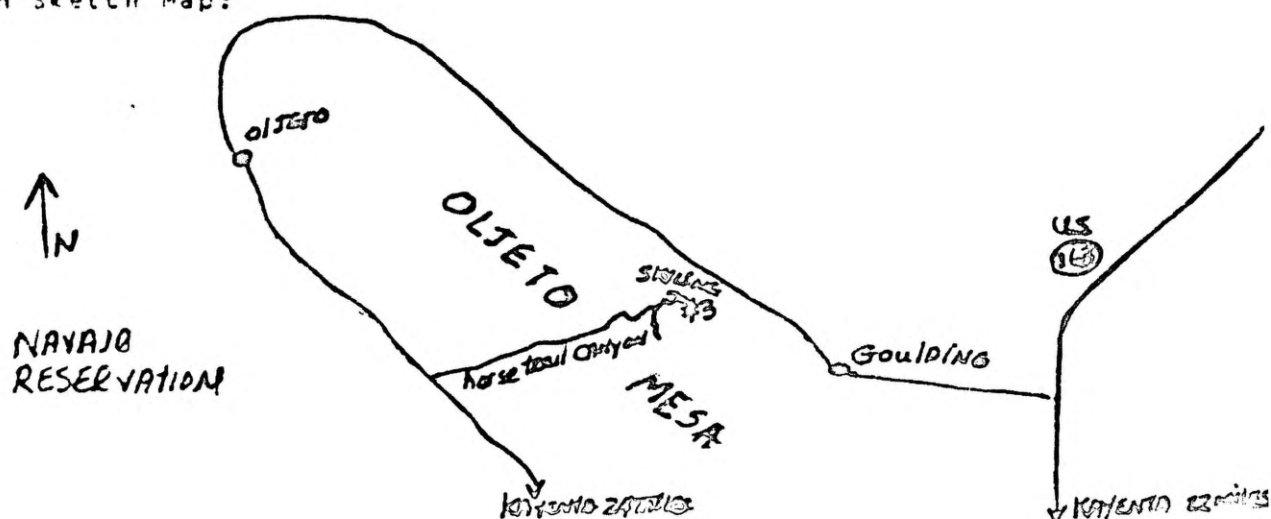
Position from Prominent Locality A82<N 59 W AND 1.7 MILES FROM_____>
GOULDING, UTAH, LOCATED AN EAST SIDE OF OLJETO MESA._____>Field Checked G1<7906> By G2<PAGE, W. R._____>
YrMo Last Name First InitialLatitude A70<37-01-15N> Longitude A80<110-13-58W>
Dg Mn Sc Dg Mn ScTownship A77<043S> Range A78<015E> Section A79<26>
N/S E/W

Meridian A81<SALT LAKE_____> Altitude A107< 5760 FT>

Quad Scale A91< 62500> Quad Name A92<GOULDING_____>

Physiographic Province A63<11 COLORADO PLATEAU_____>
(List K)Location Comments A83<MINE IS LOCATED APPROXIMATELY 7 MILES SOUTHEAST,
OF OLJETO, UP HORSE TRAIL CANYON ON TOP OF OLJETO MESA, IN SW 1/4,___>

Location Sketch Map:



URANIUM-OCCURRENCE
REPORT

Quad Name A90<ESCALANTE>
Quad Scale A100< 250000>
Deposit No. B40< 1>

Deposit Name A10<ROCK DOOR 1>
Synonym Name(s) A11<POSSIBLY = TOM HOLIDAY MINE ?>
District or Area A30<MONUMENT VALLEY>
Country A40<US> US State UTAH

State Code A50<49> 49 County A60<SAN JUAN>
Position from Prominent Locality A82<N 69 W AND 2.3 MILES FROM
GOULDING, UTAH, LOCATED ON TOP OF OLJETO MESA.

Field Checked G1<7906> By G2<PAGE, W. R.>
YrMo Last Name First Initial

Latitude A70<37-01-09N> Longitude A80<110-14-32W>
Dg Mn Sc Dg Mn Sc

Township A77<043S> Range A78<015E> Section A79<27>
N/S E/W

Meridian A81<SALT LAKE> Altitude A107< 5640 FT>
FT/M

Quad Scale A91< 62500> Quad Name A92<GOULDING>

Physiographic Province A63<11 COLORADO PLATEAU>
(List K)

Location Comments A83<DRIVE FROM GOULDING TO OLJETO (8 MILES), DRIVE
APPROXIMATELY 3 3/4 MILES SOUTHEAST OF OLJETO UP HORSE TRAIL CANYON>*

Location Sketch Map:



URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE

Deposit No. 3

Commodities Present:

C10<U>

Commodities Produced:

MAJOR<>

COPROD<>

MINOR<>

BYPROD<>

Potential Commodities:

POTEN<>

OCCUR<>

Commodity Comments C50<

Status of Exploration and Development A20<2>

1 = occurrence, 2 = raw prospect, 3 = developed prospect, 4 = producer

Comments on Exploration and Development L110<INACTIVE AND ABANDONED, _

POOR ACCESS ROADS. _

Property is A21 (Active) A22 (Inactive) (Circle appropriate labels)

Workings are M120 (Surface) M130 (Underground) M140 (Both)

Description of Workings M220<1 PROSPECT PIT, 1 ADIT OF UNKNOWN LENGTH_

Cumulative Uranium Production PROD YES NO SML MED LGE (Circle)

G42

accuracy thousands of lb. years grade
G7<U> G7A<> G7B<LB> G7C<> G7D<>% U308>

Source of Information D9<

Production Comments D10<

Reserves and Potential Resources

E4

accuracy thousands of lb. year of est. grade
E1<U> E1A<> E1B<LB> E1C<> E1D<>% U308>

Source of Information E7<

Comments E8<

REPORT

Quad Name ESCALANTE

Deposit No. 3

Deposit Form/Shape M10< STRATIFORM

Length M40< _____> M41< _____> FT/M Size M15 (circle letter)

Width M50< _____> M51< _____> (b U328

Thickness M60< _____> M61< _____> A 0-20,000
 B 20,000-200,000
 Strike M70<N 36 W _____> C 200,000-2,000,000
 D 2million - 20million
 Dip M80<1 SW _____> E More than 20million

Tectonic Setting N15<PLATFORM

Major Regional Structures N5<OLJETO SYNCLINE, SW EDGE OF MONUMENT

UPWARP

Local Structures N70<CHANNELS UP TO 1 1/2 METRES THICK, CLAY CLASTS UP
 TO 40 CM. THICK AND 1 METRE LONG; FINING UP SEQUENCES, LOGS AND

Host-FM. Name U1<CHINLE> Member U2<SHINARUMP

Host Rock K1<TRI WHITE TO TAN, MEDIUM TO COARSE-GRAINED,
 (Age) (Rock type, texture, composition,
 SUBROUNDED, WELL-SORTED, QUARTZOSE SANDSTONE WITH LIMONITE STAINING,
 color, alteration, attitude, geometry, structure, etc.)
 INTERBEDDED WITH QUARTZ PEBBLE CONGLOMERATE AND LARGE CLAY CLASTS,

Host-Rock Environment U3<FLUVIAL, BRAIDED
 (Sed. dep. environ., metamorphic facies,

ign. environ.)

Comments on

Associated Rocks U4< _____

Ore Minerals C30<NONE OBSERVED

Gangue Minerals K4< _____

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE_____

Deposit No. _____3

Alteration N75<CLAYSTONES ALTERED FROM GREEN TO LIGHT BROWN._____

Reductants US<CARBONACEOUS TRASH_____

Analytical Data (General) C43<_____

Radiometric Data (General) U6<BG APPROX.= 15 CPS. VICINITY OF MINE_____
(No. times background and dimensions)
APPROX.= 200-300 CPS., INSIDE MINE = 600-700 CPS._____

Ore Controls K5<CHEMICAL AND LITHOLOGIC_____

Deposit Class C40<SANDSTONE_____> Class No. U7<240>

Comments on Geology N85<MINE LOCATED NEAR CHINLE-MOENKOPI CONTACT._____
CLAY CLASTS WERE LARGE AND ELONGATE IN SHAPE._____

REPORT

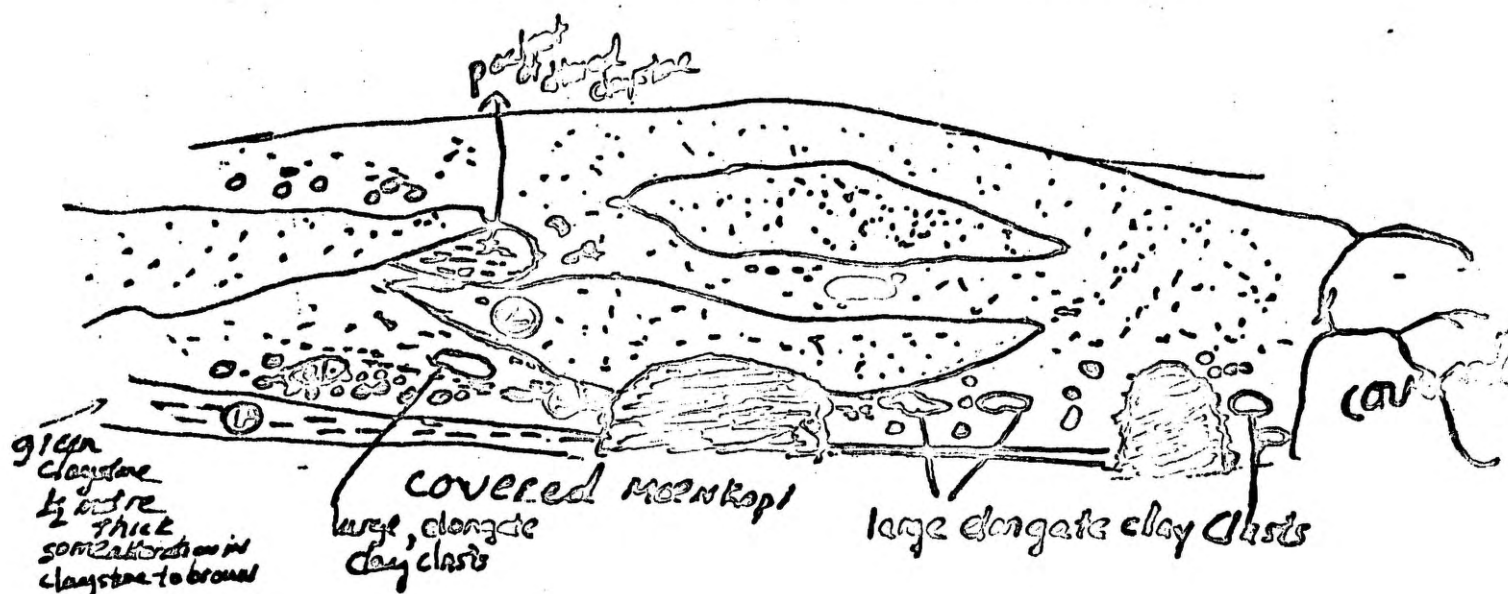
Tract Name ESCALANTE

Deposit No. 3

Uranium Analysis:

Sample No.	Sample Description	Uranium Analysis
MBW 641	sandy claystone	25.00 ppm
MBW 642	sandstone	27.00 ppm
MBW 643	middle mudstone	164.00 ppm

Geologic Sketch Map and/or Section, with Sample Locations:



References:

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY, 1974, UTAH URANIUM AND

VANADIUM, MAS CONTRACT NO 232069; UTAH GEOL. AND MINERALOG. SURVEY

FED. S. GEOLOGICAL SURVEY PRELIMINARY RECONNAISSANCE REPORT D-100.

FED. S. GEOLOGICAL SURVEY TRACE ELEMENTS MEMORANDUM 535.

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE

Deposit No. 3

Continuation from p. 1-5

Label

A83<NW 1/4 OF SECTION 26.

170<DISSEMINATED CARBONACEOUS TRASH; OCCASIONAL TROUGH CROSS-BEDS, 25
CM. THICK.

K1<CLAYSTONES, AND MUDSTONES.

F1<REPORT 8.

URANIUM OCCURRENCE

REPORT

Road Name ESCALANTE

Deposit No. 4

Commodities Present:

C10<0>

Commodities Produced:

MAJOR<0>

COPROD<>

MINOR<>

BYPROD<>

Potential Commodities:

POTEN<>

OCCUR<>

Commodity Comments C50<

Status of Exploration and Development A20<4>

1 = occurrence, 2 = raw prospect, 3 = developed prospect, 4 = producer

Comments on Exploration and Development L11<MINE ABANDONED>

Property is A21 (Active) A22 (Inactive) (Circle appropriate labels)

Workings are M120 (Surface) M130 (Underground) M140 (Both)

Description of workings M220<ONE ADIT OF UNKNOWN EXTENT>

Cumulative Uranium Production P300 YES NO S.L. MED LGE (Circle)

DH2

accuracy thousands of lb. years grade
G7<EST> G7A<> G7B<LB> G7C<> G7D<> U308>

Source of Information D9<

Production Comments D10<

Reserves and Potential Resources

EH

accuracy thousands of lb. year of est. grade
E1<U> E1A<> E1B<LB> E1C<> E1D<> U308>

Source of Information E7<

Comments E8<

GRAIN - OCCURRENCE

Grid Name ESCALANTE

Report

Deposit No. 4

Deposit Form/Shape 10<STRATIFORM>

Length M4<> M11<> Size D15 (circle letter)

Width M5<> M51<> 18 03.8

Thickness M6J<> M61<> A 0-20,000

Strike M7<> C 20,000-200,000

Dip M8<> D 200,000-2,000,000

Tectonic Setting M15<PLATFORM> E More than 20million

Major Regional Structures M5<EAST FLANK OF OLJETO SYNCLINE, SHINARUMP CHANNEL IS IN IMMEDIATE AREA.

Local Structures M70<CHANNELS AND TABULAR-PLANAR CROSS-SETS OF ABOUT 25 CM THICK.

Host-Fm. Name U1<CHINLE> Member U2<SHINARUMP>

Host Rock K1<TAI, MEDIUM-GRAINED, WELL-SORTED, SUBANGULAR, LIMONITE-STAINED, QUARTZ SANDSTONE UNDERLAIN BY AN ALTERED CLAYSTONE AND GREEN CLAYSTONE, UNDERLAIN BY A DARK RED INTERBEDDED MUDSTONE/SANDSTONE/

Host-Rock Environment U3<FLUVIAL - TRANSITIONAL, BRAIDED, MEANDERING (Sed. dep. environ., metamorphic facies,

ign. environ.)

Comments on

Associated Rocks U4<THE MINE IS IN A SHINARUMP CHANNEL CUTTING INTO

THE DOENKOPF.

Ore Mineral C3<NONE OBSERVED

Accessory Minerals M4<

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE

Deposit No. 4

Alteration N75<A LIGHT GREEN CLAYSTONE HAS BEEN ALTERED TO A LIGHT
BROWN CLAYSTONE. THERE ARE ALSO BANDS OF BROWN AND GREEN CLAYSTONE.

Reductants US<CARBONACEOUS TRASH AND LOGS

Analytical Data (General) C43<

Radiometric Data (General) U6<BG= 15 CPS. INSIDE ADIT= 460-500 CPS;
(No. times background and dimensions)
VICINITY OF MINE= 70-100 CPS.

Ore Controls K5<IT APPEARS TO HAVE BEEN CONTROLLED BY THE 45 CM. LAYER
OF GREEN CLAYSTONE. LITHOLOGIC CONTROL OF DEPOSITION.

Deposit Class C40<CHANNEL-CONTROLLED SANDSTONE> Class No. U7<243>

Comments on Geology N85<THE CHANNEL PACKAGE APPEARS TO BE ABOUT 40
FEET THICK. THERE ARE TROUGH CROSS-SETS UNDER TABULAR-PLANAR
CROSS-SETS UNDER TROUGH SETS. THE CONTACTS BETWEEN THE DIFFERENT
BEDDINGS ARE GRADATIONAL.

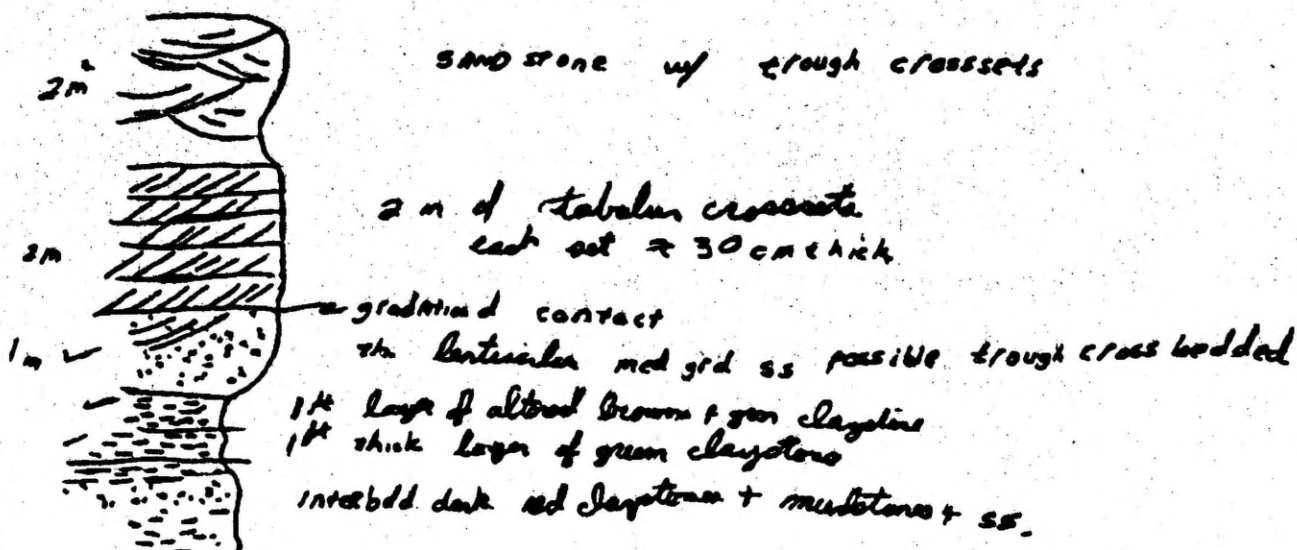
Quadrant Name ESCALANTE

SECRET

Deposit No. -----A

Uranium analysis:

Geologic Sketch Map and/or Section, with Sample Locations:



References:

FILED UTAH GEOLOGICAL AND MINERALOGICAL SURVEY, 1974, UTAH URANIUM AND VANADIUM, WAS CONTRACT NO 232069: UTAH GEOL. AND MINERALOG. SURVEY, >

72 <

5

145

URATION-OCCURRENCE

Quad Name ESCALANTE

REPORT

Deposit NO. 4

Continuation from p. 1-3

Label

X1<SILT>E.

F1<REPORT>

Quad Name A90<ESCALANTE_____>
Quad Scale A100< 250000>
Deposit No. B40< 9>

Deposit Name A10<MONUMENT #3_____>

Synonym Name(s) A11<----->

District or Area A30<MONUMENT VALLEY_____>

Country A40<US> US State UTAH-----

State Code A50<49> 49 County A60<SAN JUAN>

Position from Prominent Locality A82<2.8 MILES S 42 W OF OLJETO, UTAH

Field Checked G1<7906> By G2<CORNELLISSON, J. L.----->
YrMo Last Name First Initial

Latitude A70<37-00-32N> Longitude A80<110-21-39W>
Dg Mn Sc Dg Mn Sc

Township A77<043S> Range A78<014E> Section A79<34>
N/S E/W

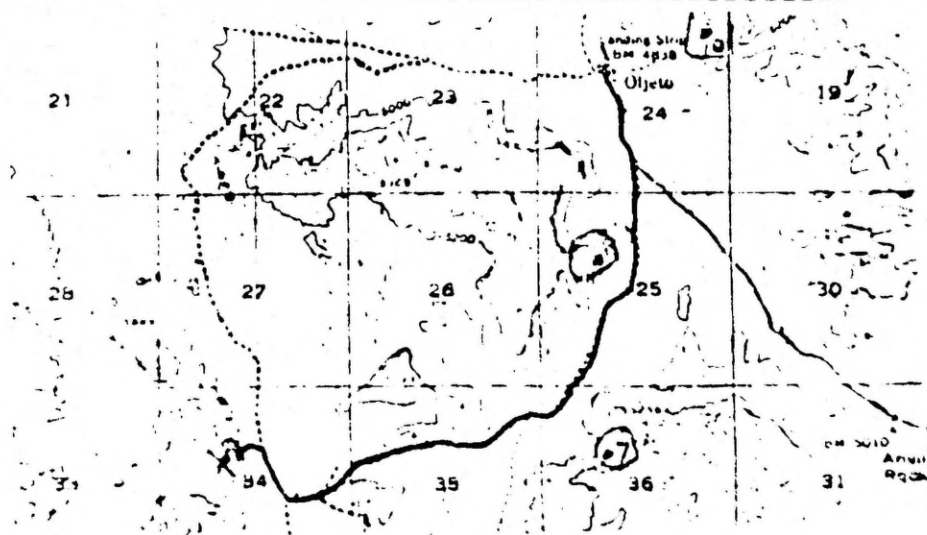
Meridian A81<SALT LAKE-----> Altitude A107< 5400 FT>

Quad Scale A91< 62500> Quad Name A92<OLJETO_____>

Physiographic Province A63<11 COLORADO PLATEAU----->
(List K)

Location Comments A83<ROAD LEADS TO BASE OF CLIFF. YOU MUST HIKE FROM
BASE OF SLOPE TO PROSPECT PIT MOUTH.

Location Sketch Map:



URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE

Deposit No. 9

Commodities Present:

C10<U__CU_____>

Commodities Produced:

MAJOR<_____>

COPROD<_____>

MINOR<_____>

BYPROD<_____>

Potential Commodities:

POTEN<_____>

OCCUR<_____>

Commodity Comments C50<_____>

Status of Exploration and Development A20<1>

1 = occurrence, 2 = raw prospect, 3 = developed prospect, 4 = producer

Comments on Exploration and Development L110<ABANDONED_____>

Property is A21 (Active) A22 (Inactive) (Circle appropriate labels)

Workings are M120 (Surface) M130 (Underground) M140 (Both)

Description of Workings M220<TWO TEST ADITS_____>

Cumulative Uranium Production PROD YES NO SML MED LGE (Circle)

DH2

accuracy thousands of lb. years grade
G7<U__> G7A<_____> G7B<LB> G7C<_____> G7D<_____> % U308>

Source of Information D9<_____>

Production Comments D10<_____>

Reserves and Potential Resources

EH

accuracy thousands of lb. year of est. grade
E1<U__> E1A<_____> E1B<LB> E1C<_____> E1D<_____> % U308>

Source of Information E7<_____>

Comments E8<_____>

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE

Deposit No. 9

Deposit Form/Shape M10< STRATIFORM

Length M40< FT/M M41< Size M15 (circle letter)

Width M50< M51< lb U308

Thickness M60< M61< -A- 0-20,000

Strike M70< B 20,000-200,000

Dip M80< C 200,000-2,000,000

D 2million - 20million
E More than 20million

Tectonic Setting N15<PLATFORM

Major Regional Structures N5<WEST FLANK OF OLJETO SYNCLINE SHINARUMP

CHANNELS.

Local Structures N70<FINING UPWARD, TROUGH CROSS-BEDS, VERTICAL

EAST-WEST JOINT SET.

Host-FM. Name U1<CHINLE Member U2<SHINARUMP

Host Rock K1<TAN, COARSE-GRAINED, QUARTZ PEBBLE CONGLOMERATE, GRADING
(Age) (Rock type, texture, composition,INTO A WHITE, WELL-SORTED, SUBROUNDED, MEDIUM-GRAINED QUARTZ SANDSTONE
color, alteration, attitude, geometry, structure, etc.)

WITH LIMONITE STAINS.

Host-Rock Environment U3<FLUVIAL, BRAIDED

(Sed. dep. environ., metamorphic facies,

ign. environ.)

Comments on

Associated Rocks U4<NEAR CONTACT OF MOENKOPI

Ore Minerals C30<GREEN COPPER MINERALIZATION, YELLOW - GREEN

MINERALIZATION.

Gangue Minerals K4<

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE_____

Deposit No. _____9

Alteration N7S<_____

_____>

Reductants US<CARBONACEOUS TRASH AND LOGS_____

_____>

Analytical Data (General) C43<_____

_____>Radiometric Data (General) U6<BG= 15 CPS. ONE TEST PIT= 50 CPS; ONE_____
(No. times background and dimensions)
TEST PIT= 100 CPS._____>_____

_____>Ore Controls K5<CONTROLLED BY LARGE TROUGH CROSS-BEDS (MINERALIZATION_
NEAR BOTTOM OF TROUGH) AND CLAY CLASTS AND WOOD NEAR BOTTOM OF TROUGH.
LITHOLOGIC CONTROL._____>_____

_____>

Deposit Class C40<CHANNEL CONTROLLED_____> Class No. U7<243>

Comments on Geology N85<CONGLOMERATE IS MOSTLY QUARTZ PEBBLES;_____
ABUNDANT LOG AND WOOD FRAGMENTS IN AREA. SANDSTONE IS 75 FEET THICK._>_____

_____>

URANIUM-OCCURRENCE

REPORT

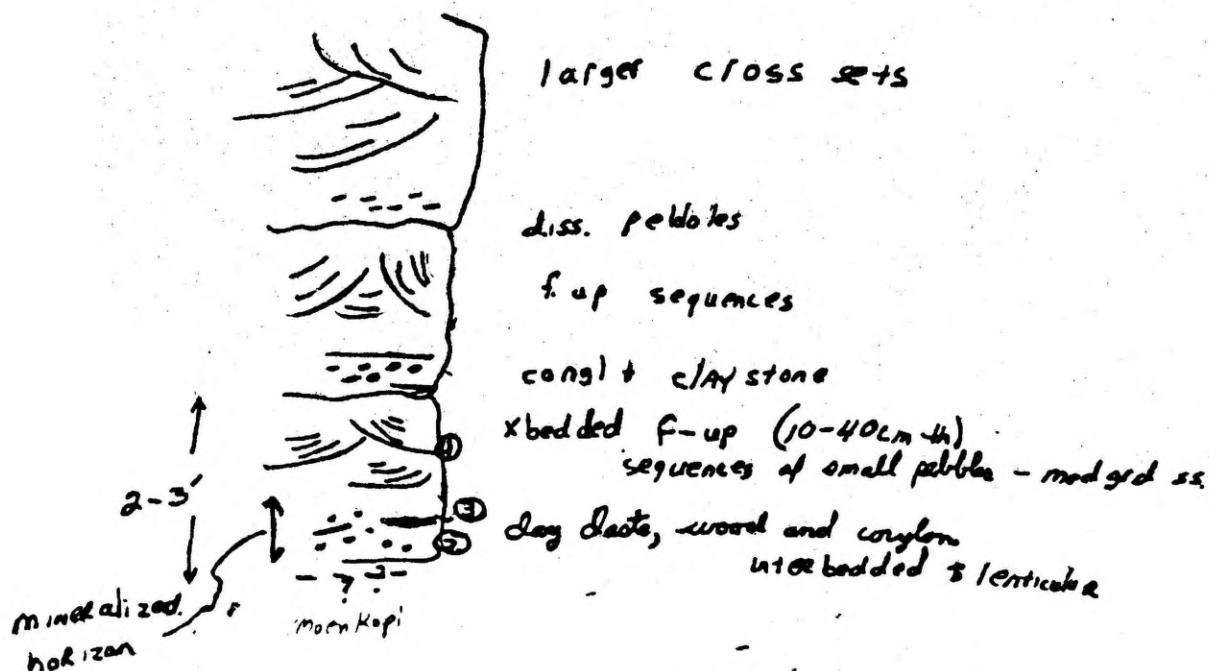
Quad Name ESCALANTE

Deposit No. 9

Uranium Analysis:

Sample No.	Sample Description	Uranium Analysis
MBW 649	medium grained sandstone	3.40 ppm
MBW 650	conglomerate	6.07 ppm
MBW 651	sandy claystone	24.00 ppm

Geologic Sketch Map and/or Section, with Sample Locations:



References:

F1 <UTAH GEOLOGICAL AND MINERALOGICAL SURVEY, 1974, UTAH URANIUM AND
VANADIUM, MAS CONTRACT HO 232069; UTAH GEOL. AND MINERALOG. SURVEY_>

F2 <_____>

F3 <_____>

F4 <_____>

REPORT

Quad Name ESCALANTE-----

Deposit No. -----9

Continuation from p. 1-5

Label

F1<REPORT 8.----->

URANIUM-OCCURRENCE
REPORT

Quad Name A90<ESCALANTE>

Quad Scale A100< 250000>

Deposit No. B40< 13>

Deposit Name A10<TAYLOR & REID>

Synonym Name(s) A11<TAYLOR REID #2>

District or Area A30<MONUMENT VALLEY>

Country A40<US> US State UTAH

State Code A50<49> 49 County A60<SAN JUAN>

Position from Prominent Locality A82<1.6 MILES EAST OF OLJETO. IN THE
SIDE OF HOLIDAY MESA>

Field Checked G1<7906> By G2<CORNELLISSON, J. L.>
YrMo Last Name First Initial

Latitude A70<37-02-20N> Longitude A80<110-20-30W>
Dg Mn Sc Dg Mn Sc

Township A77<043S> Range A78<014E> Section A79<15>
N/S E/W

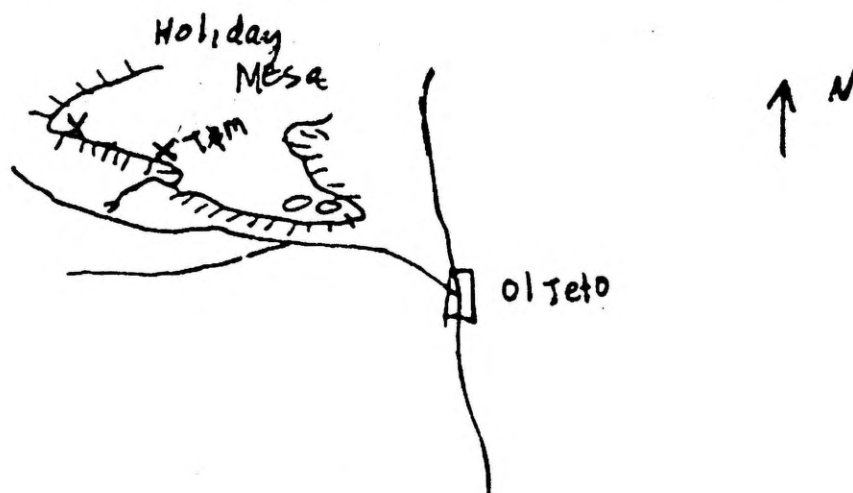
Meridian A81<SALT LAKE> Altitude A107< 5250 FT>
FT/M

Quad Scale A91< 62500> Quad Name A92<OLJETO, UTAH-ARIZ.>

Physiographic Province A63<11 COLORADO PLATEAU>
(List K)

Location Comments A83<SOUTH SIDE OF HOLIDAY MESA, ROAD LEADS TO BASE
OF MESA, THEN HIKE UP WASHED OUT ROAD.>

Location Sketch Map:



URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE_____

Deposit No. _____13

Commodities Present:

C10<U____CU____V_____>

Commodities Produced:

MAJOR<_____>

COPROD<_____>

MINOR<_____>

BYPROD<_____>

Potential Commodities:

POTEN<_____>

OCCUR<_____>

Commodity Comments C50<_____>

Status of Exploration and Development A20<4>

1 = occurrence, 2 = raw prospect, 3 = developed prospect, 4 = producer

Comments on Exploration and Development L110<ABANDONED_____>

Property is A21 (Active) A22 (Inactive) (Circle appropriate labels)

Workings are M120 (Surface) M130 (Underground) M140 (Both)

Description of Workings M220<ONE ADIT OF FAIRLY LARGE EXTENT_____>

Cumulative Uranium Production PROD YES NO SHL MED LGE (Circle)

DH2

accuracy thousands of lb. years grade
G7<U____> G7A<_____> G7B<LB> G7C<_____> G7D<_____> % U308>

Source of Information D9<_____>

Production Comments D10<_____>

Reserves and Potential Resources

EH

accuracy thousands of lb. year of est. grade
E1<U____> E1A<_____> E1B<LB> E1C<_____> E1D<_____> % U308>

Source of Information E7<_____>

Comments E8<_____>

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE _____

Deposit No. _____13

Deposit Form/Shape M10< _____>

Length M40< _____> M41< _____> Size M15 (circle letter)

Width M50< _____> M51< _____> (b U308

Thickness M60< _____> M61< _____> A 0-20,000

Strike M70< _____> -B- 20,000-200,000

Dip M80< _____> C 200,000-2,000,000

D 2million - 20million

E More than 20million

Tectonic Setting N15<PLATFORM _____>

Major Regional Structures N5<WEST FLANK OF OLJETO SYNCLINE, EAST FLANK
OF ORGAN ROCK ANTICLINE _____>

Local Structures N70<CHANNELS, TROUGH CROSS-SETS, LOGS _____>

Host-FM. Name U1<CHINLE _____> Member U2<SHINARUMP _____>

Host Rock K1<TRI WHITE, FINE-GRAINED, SUBROUNDED, WELL-SORTED _____
(Age) (Rock type, texture, composition,SANDSTONE INTERBEDDED WITH LENSES OF LIGHT GREEN, SANDY CLAYSTONE AND
color, alteration, attitude, geometry, structure, etc.)

LENSES OF CONGLOMERATE. _____>

Host-Rock Environment U3<FLUVIAL - BRAIDED (LOW ENERGY) _____
(Sed. dep. environ., metamorphic facies,

ign. environ.) _____>

Comments on _____

Associated Rocks U4< _____>

Ore Minerals C30<YELLOW AND GREEN MINERALIZATION _____>

Gangue Minerals K4< _____>

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE

Deposit No. 13

Alteration N75<

Reductants U5<CARBONACEOUS TRASH AND LOGS, PYRITE

Analytical Data (General) C43<

Radiometric Data (General) U6<BG#15 CPS. VICINITY OF MINE AND INSIDE
(No. times background and dimensions)
ADIT 500-1500 CPS.

Ore Controls K5<LITHOLOGIC AND CHEMICAL, CONTROLLED BY THE CHANNELS OF
SHINARUMP CUTTING INTO THE UNDERLYING FORMATION.

Deposit Class C40<CHANNEL CONTROLLED> Class No. U7<243>

Comments on Geology N85<MINE LOCATED IN THE MIDDLE OF THE SHINARUMP
SANDSTONE MEMBER.

URANIUM-OCCURRENCE

REPORT

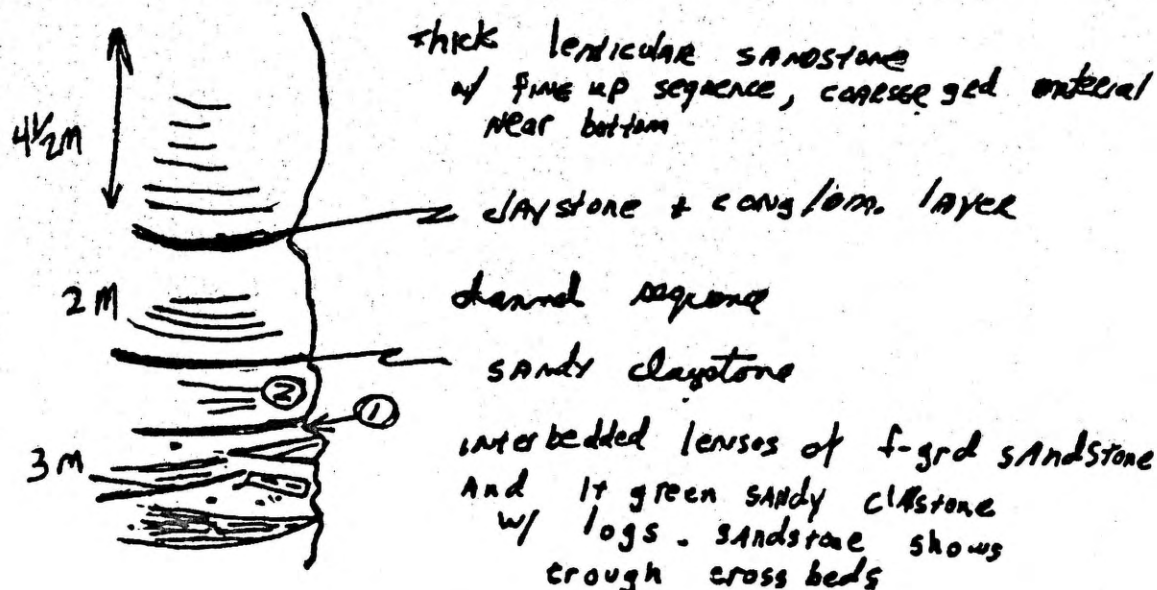
Quad Name ESCALANTE

Deposit No. 13

Uranium Analysis:

Sample No.	Sample Description	Uranium Analysis
MBW 647	gray claystone	12.50 ppm
MBW 648	sandstone	7.09 ppm

Geologic Sketch Map and/or Section, with Sample Locations:



References:

F1<UTAH GEOLOGICAL AND MINERALOGICAL SURVEY, 1974, UTAH URANIUM AND
VANADIUM, MAS CONTRACT HO 232069: UTAH GEOL. AND MINERALOG. SURVEY_>*

F2<U.S. GEOLOGICAL SURVEY TRACE ELEMENTS MEMORANDUM 353.----->

F3<U.S. GEOLOGICAL SURVEY TRACE ELEMENTS MEMORANDUM 712.----->

F4<----->

URANIUM-OCCURRENCE

page 6

REPORT

Quad Name ESCALANTE

Deposit No. 13

Continuation from p. 1-5

Label

F1<REPORT 8.

URANIUM-OCCURRENCE

REPORT

Quad Name A90<ESCALANTE_____>

Quad Scale A100< 250000>

Deposit No. B40< 14>

Deposit Name: 10<UNKNOWN>

Synonym Name(s) A11<----->

District or Area A30<MONUMENT VALLEY_____>

Country A40<US> US State UTAH_____

State Code A50<49> 49 County A60<SAN JUAN>

Position from Prominent Locality A82<WEST EDGE OF HOLIDAY MESA_____

Field Checked G1<7906> By G2<PAGE, W. R.----->
YrMo Last Name First Initial

Latitude A70<37-02-45N> Longitude A80<110-21-21W>
Dg Mn Sc Dg Mn Sc

Township A77<043S> Range A78<014E> Section A79<15>
N/S E/W

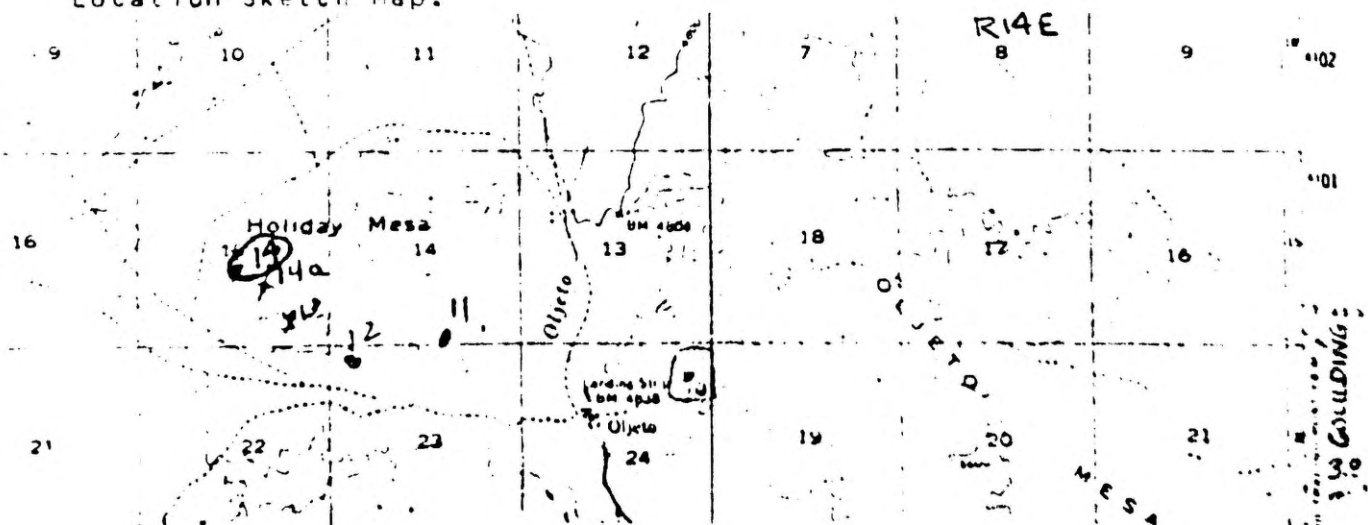
Meridian A81<SALT LAKE_____> Altitude A107< 5270 FT>

Quad Scale A91< 62500> Quad Name A92<OLJETO_____>

Physiographic Province A63<11 COLORADO PLATEAU----->
(List K)

Location Comments A83<MINE IS LOCATED APPROXIMATELY 2 1/2 MILES WEST__
OF OLJETO.----->

Location Sketch Map:



URANIUM-OCCURRENCE

REPORT

quad Name ESCALANTE

Deposit No. 14

Commodities Present:

C10<U__CU__>

Commodities Produced:

MAJOR<U__>

COPROD<__>

MINOR<__>

BYPROD<__>

Potential Commodities:

POTEN<__>

OCCUR<__>

Commodity Comments C50<__>

Status of Exploration and Development A20<4>

1 = occurrence, 2 = raw prospect, 3 = developed prospect, 4 = producer

Comments on Exploration and Development L110<MINE ABANDONED AND

INACTIVE__>

Property is A21 (Active) A22 (Inactive) (Circle appropriate labels)

Workings are M120 (Surface) M130 (Underground) M140 (Both)

Description of Workings M220<THREE ADITS APPROXIMATELY 7 FT. HIGH,

UNKNOWN LENGTHS.____>

Cumulative Uranium Production PROD YES NO SML MED LGE (Circle)

DH2

accuracy thousands of lb. years grade
G7<U__> G7A<__> G7B<LB> G7C<__> G7D<__> U308>

Source of Information D9<__>

Production Comments D10<__>

Reserves and Potential Resources

EH

accuracy thousands of lb. year of est. grade
E1<U__> E1A<__> E1B<LB> E1C<__> E1D<__> U308>

Source of Information E7<__>

Comments E3<__>

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE_____

Deposit No. _____14

Deposit Form/Shape M10< STRATIFORM_____>
FT/M

Length M40<_____> M41<__> Size M15 (circle letter)

Width M50<_____> M51<__> lb U308

Thickness M60<_____> M61<__> -A- 0-20,000
B 20,000-200,000
Strike M70<N 29 E_____> C 200,000-2,000,000
D 2million - 20million
Dip M80<3 SE_____> E More than 20millionTectonic Setting N15<PLATFORM_____>
_____>Major Regional Structures N5<OLJETO SYNCLINE_____>
_____>Local Structures N70<FINING UPWARD SEQUENCE (CONGLOMERATE TO
MEDIUM-GRAINED SANDSTONE), TROUGH CROSS-BEDS 10 CM.-0.5 METRE THICK_>*

Host-FM. Name U1<CHINLE_____> Member U2<SHINARUMP_____>

Host Rock K1<TRI (Age) CHERT PEBBLE CONGLOMERATE (PEBBLES OBSERVED UP
(Rock type, texture, composition,
TO 2 CM. IN DIAMETER) GRADING INTO MEDIUM TO COARSE-GRAINED, WHITE,_____
color, alteration, attitude, geometry, structure, etc.)
QUARTZOSE SANDSTONE; SUBANGULAR GRAINS. AT BASE OF SHINARUMP, THERE_>*Host-Rock Environment U3<FLUVIAL, BRAIDED_____>
(Sed. dep. environ., metamorphic facies,
_____>

ign. environ.)

Comments on

Associated Rocks U4<_____>

_____>Ore Minerals C30<YELLOW URANIUM MINERALIZATION_____>

_____>Gangue Minerals K4<_____>

_____>

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE

Deposit No. 14

Alteration N75<NONE OBSERVED

Reductants U5<CARBONACEOUS TRASH

Analytical Data (General) C43<

Radiometric Data (General) U6<BG APPROX. = 15 CPS. VICINITY OF MINE
(No. times background and dimensions)
APPROX.= 400 CPS; INSIDE MINE APPROX.= 1500-3000 CPS.

Ore Controls K5<CHEMICAL AND LITHOLOGIC

Deposit Class C40<SANDSTONE> Class No. U7<240>

Comments on Geology N85<CLAY CLASTS UP TO 30 CM. IN DIAMETER LOCATED
AT MOENKOPI - CHINLE CONTACT; MINES LOCATED AT BASE OF SHINARUMP
MEMBER OF CHINLE; ABUNDANT LOGS AND ORGANIC MATERIAL OBSERVED INSIDE
MINE; CLAY CLASTS OBSERVED IN UPPER CHANNELS (15 METRES ABOVE
CONTACT).

URANIUM-OCCURRENCE

REPORT

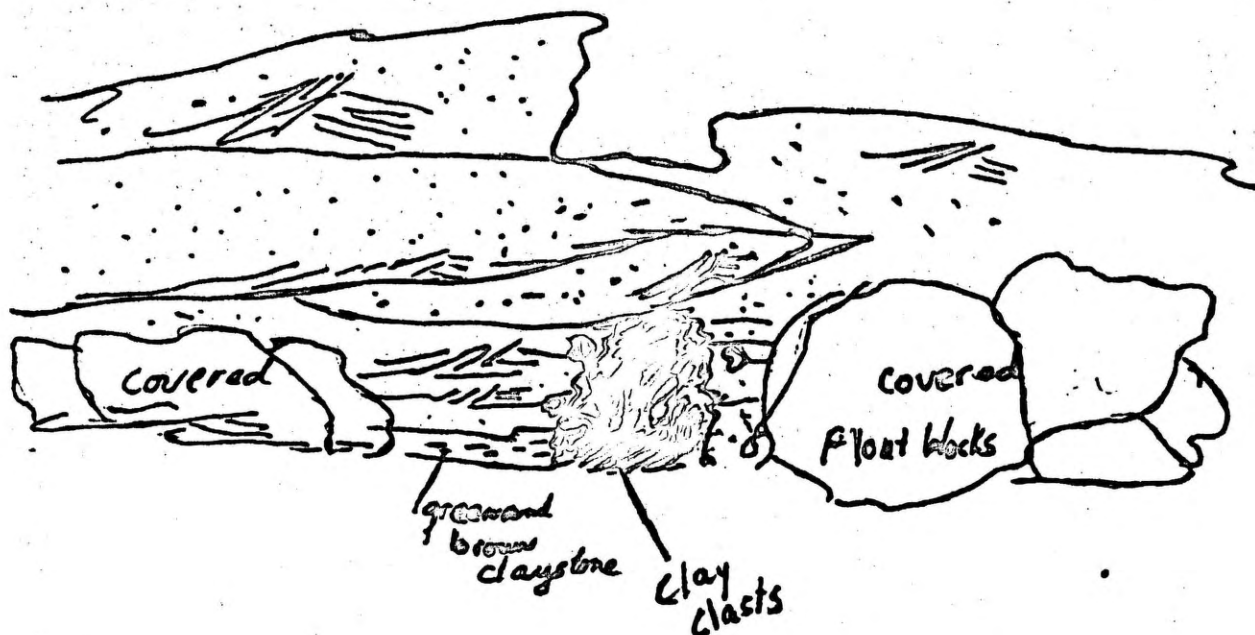
Quad Name ESCALANTE

Deposit No. 1

Uranium Analysis:

Sample No.	Sample Description	Uranium Analysis

Geologic Sketch Map and/or Section, with Sample Locations:



References:

- F1<UTAH GEOLOGICAL AND MINERALOGICAL SURVEY, 1974, UTAH URANIUM AND VANADIUM, MAS CONTRACT NO 232069: UTAH GEOL. AND MINERALOG. SURVEY.>*
- F2<TOM HOLIDAY MINE: U.S. ATOMIC ENERGY COMMISSION PRELIMINARY RECONNAISSANCE REPORT CEB: R-5.>
- F3<>
- F4<>

Quad Name ESCALANTE_____

Continuation from p. 1-5

A83<ON TOP OF OLJETO MESA.----->

N70< SANDSTONE, CHANNELS UP TO 1 1/2 METRES THICK, LENTICULAR BEDDING.

F1<REPORT 8.----->

URANIUM-OCCURRENCE

REPORT

Quad Name ESCALANTE_____

Deposit No. _____1

Alteration N75<CLAYSTONES ALTERED TO BROWN FROM GREEN._____

_____>

Reductants U5<CARBONACEOUS TRASH_____

_____>

Analytical Data (General) C43<_____

_____>

Radiometric Data (General) U6<DG= 15-20 CPS FOR BACKGROUND, TO 100 CPS
(No. times background and dimensions)
IN VICINITY OF MINE, 100-300 CPS INSIDE MINE._____>

_____>

Ore Controls K5<CHEMICAL AND LITHOLOGIC_____

_____>

Deposit Class C4C<SANDSTONE_____> Class No. U7<240>

Comments on Geology N85<MINE LOCATED AT MOENKOPI-CHINLE CONTACT, LARGE
AMOUNT OF CARBONACEOUS TRASH OBSERVED IN MINE, CONGLOMERATE OBSERVED__
IN ORE PILES BUT NOT IN OUTCROP OR INSIDE MINE._____>

_____>

Property Lost Treasure no. 1 File No. ED:R-462
Examined by Otie M. McRae Date April 5, 1955
1. Location: State Utah District 1: Cane Springs Canyon
County San Juan Section 8 7.28 S. 22 E

Number of aerial photographs, if known _____

Road log to deposit Travel south from Moab, Utah, on U. S. Hwy. 160 to the Hole in the Rock Diner. On the west side of the highway is an unimproved road which follows Cane Creek for about 4.5 miles to the property.

2. Owners, operators, addresses Vic Nelson, American Energy Co., Moab, Utah

3. In what formation or member (zone within member) is mineralization located? _____

Upper part of the conglomeratic sandstone unit of the Moss Back member of the Chinle formation.

4. What is sedimentary structure and lithology of host rock (e.g., cross bedding, channels, scour, lamination, mud galls, color, interrelation of lithologies)? Thin-bedded to massive, in part cross-bedded, gray interbedded sandstones and conglomerates. Sandstones are fine to coarse grained; conglomerate contains very fine-grained sub-rounded and poorly sorted pebbles and $\frac{1}{8}$ -inch to $\frac{1}{4}$ -inch diameter siltstone pebbles. Green mudstone galls and seams are common.

5. What is specific occurrence of mineralization (e.g., disseminated, on bedding planes, above-below mudstone, filling interstices; replacement of rock grains, cement, carbon mudstone, etc.)? _____

Mineralization apparently associated with carbonaceous material, which is abundant throughout the conglomerates.

6. What is relation of ore to tectonic features (e.g., folds, fractures, faults, intrusives, lava flows, etc.)? _____

Limonite and hematite are associated with carbon trash and also coat joint surfaces. Joints occur at about 20-foot intervals striking N. 40° E., dipping 70° to 75° SW.

7. What are apparent mineralization controls (e.g., permeability, carbon, channels, tectonic features, etc.)? _____

Carbonaceous material and joints.

8. Any other features related to mineralization (e.g., alteration, color change, vegetation, topographic expression, etc.)? Limonite and hematite occur along joint planes and are associated

with carbonaceous material dispersed in the conglomerate.

9. What is the mineralogy (e.g., "carnotite", pitchblende, asphaltite, associated minerals, etc.)? Give sample numbers for specimens collected for laboratory study.

No visible uranium minerals; associated minerals are limonite, hematite and gypsum.

see the
description in
the field
note book

10. Estimate dimensions of ore body and/or mineralized zone. Mineralization confined to carbon trash zone about 30 feet long and 2 or 3 feet thick.

11. Samples (if no samples are taken, estimate grade with field counter)

No.	Type*	Thick- ness	Assays				Area or volume represented
			U308e	U308a	Y205	CaCO3	

No samples

*Channel, composite, channel, chip, grab; thickness refers to length of out channel.

12. Past production (tonnage and grade) None

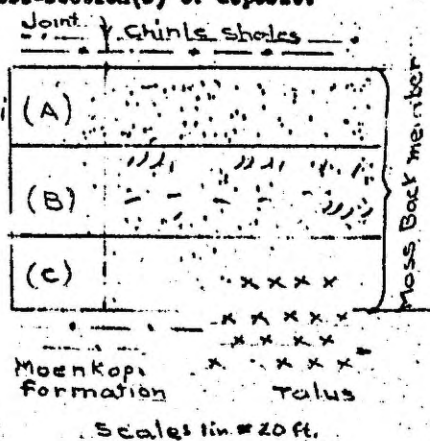
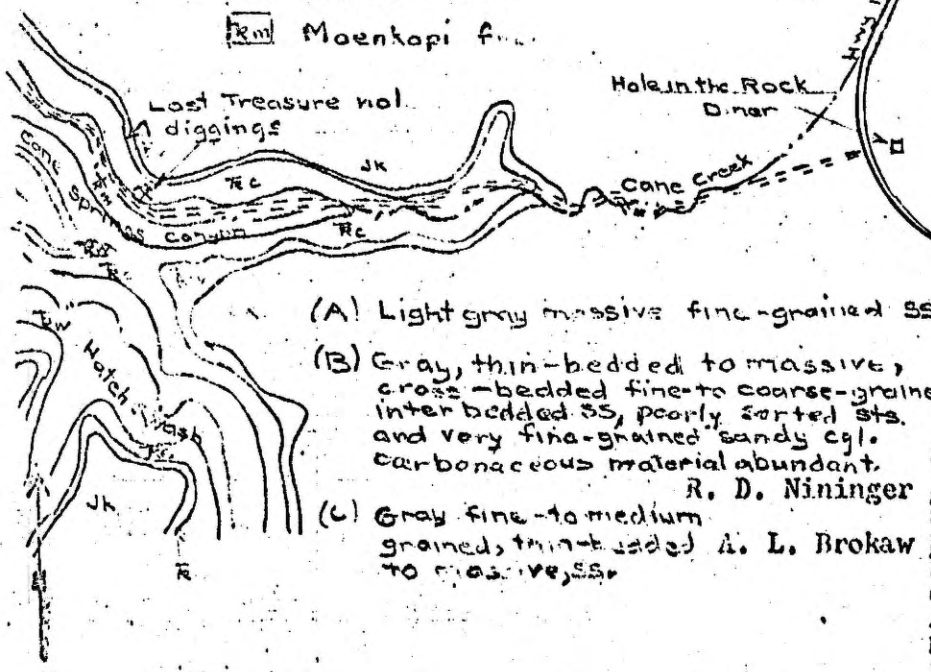
14. Are there any localities nearby which show favorable characteristics? Describe with view towards further study. No

16. Additional remarks Continued rim blasting could possibly turn up more and better mineralization, but it is doubtful, for most of the carbon trash has already been blasted from the rim.

17. Draw sketch map(s) showing access roads and geologic setting. Draw cross-section(s) of deposit.

— Explanation —

- ☒ Jk Kayenta fm.
- ☒ Wm Wingate ss.
- ☒ Rc Chinle fm.
- ☒ Rm Moenkopi f.



(A) Light gray massive fine-grained ss

(B) Gray, thin-bedded to massive, cross-bedded fine-to coarse-grained interbedded ss, poorly sorted sts. and very fine-grained sandy cgl. carbonaceous material abundant.

(C) Gray fine-to medium grained, thin-bedded to massive, ss.

DISTRIBUTION:

- ☒ J. P. Hays, Washington, DPM (1) ✓
- ☒ S. F. Vinsome, GJ (1)
- ☒ J. P. Hays, GJ, USGS (1)
- ☒ E. E. Thurlow, SLES (1)
- ☒ O. C. Towle, DEB (2) (1)
- ☒ A. P. Butler, Denver, USGS (1)
- ☒ Mining Division (3) (3)
- ☒ ED Files (4)
- ☒ H. S. Johnson, GJ, USGS

Scale: 1 inch = 1 mile

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. Swanson, L. Miller
 DATES EXAMINED May 6, 1951

2. STATE Utah COUNTY San Juan

DISTRICT White Canyon

1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY
11746	Chip	Moderate
11747	"	"
11748	"	"
11749	"	"
11750	"	Weak

NEAREST TOWN Hite, Utah

Yellow John which possibly is jumped by
 PROPERTY Leica #1, 2, 3 and 4

LOCATION:

SEC. _____ T. _____ R. _____

3. TYPE OF EXAMINATION: Geologic and
radiometric reconnaissance

4. DIRECTION NO DEPOSIT:

5. OWNER OR OPERATOR: Dale Dillon - possibly jumped by Tom Frentzel
 ADDRESS: Blanding, Utah Grand Junction, Colorado

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

7. RADIOACTIVITY: BG on 0.20 scale of Detectron Geiger counter - 0.03, dial reading of 0.10 - 5. Moderate radioactivity in upper 3 feet of lower Moenkopi and in lower 3 feet of the "ore" sandstone. Weak to moderate counts continued up to the "ore" sandstone for an additional 9 feet.

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

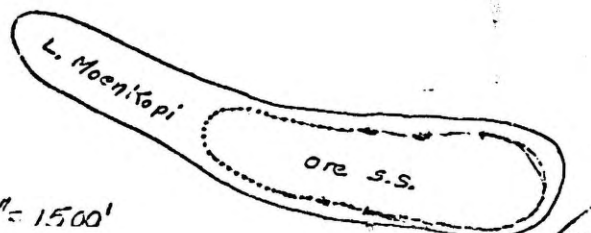
Mineralization is confined to a coarse angular to subangular, fair sorted, highly leached, quartzose, fluvial sandstone in the middle Moenkopi formation. Green and blue copper staining, probably malachite and azurite, abundant in matrix of quartz grains. A yellow uranium mineral is present.

11. PROOF OF OWNERSHIP RECEIVED?
 PERMISSION TO PUBLISH RECEIVED?

12. MAP:

PLAN MAP OF ORE S.S.

☐ Mineralization of ORE S.S.
☐ ORE S.S.



13. OTHER INVESTIGATIONS:

14. ADDITIONAL INFORMATION:

15. SUPPLEMENTARY RECONNAISSANCE
 REPORT TO FOLLOW Yes

*Brown's Run
 "Ore" ?*