

(200)  
R29A  
no. 1331

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Maps showing locations of holes drilled in 1955  
by U.S. Geological Survey, Oljeto Wash area,  
Navajo County, Arizona



Open-file report

1969

This report is preliminary and has not  
been edited or reviewed for conformity  
with U.S. Geological Survey standards.

**ABBREVIATIONS FOR GEOLOGIC AND ASSAY LOGS**

<u>Rock name</u>	<u>Mineral name</u>	<u>Color description</u>
CG - conglomerate or conglomeratic	Qtz - quartz	Wh - white
SS - sandstone	Gyp - gypsum	Br - brown
MS - mudstone	Py - pyrite	R - red
ST - siltstone	Chpy - chalcopyrite	Gy - gray
CS - claystone	Lim - limonite	Bl - blue
LS - limestone	Hem - hematite	Gn - green
CH - chert or cherty	Cal - calcite	Yw - yellow
SH - shale	Carn - carnotite	Bk - black
CL - clay	Fdspr - feldspar	Pp - purple
QTZT - quartzite		L - light
		D - dark
		M - medium

Chemical abbreviations

Cbn - carbon  
 For all other elements use the standard chemical symbols, Cu for copper, Fe for iron, Mn for manganese, etc.

Relative abundance  
 (use only for accessory minerals, carbon and mudstone in sandstone)

N - none  
 S - sparse  
 A - abundant

Grain sizes

<u>Wentworth scale (modified)</u>	<u>Millimeters</u>
VF - very fine	0.060 - 0.125
F - fine	0.125 - 0.210
MF - medium fine	0.210 - 0.300
M - medium	0.300 - 0.420
MC - medium coarse	0.420 - 0.600
C - coarse	0.600 - 1.000
VC - very coarse	1.000 - 2.000

Punctuation

, - and  
 / - over  
 // - alternating with

Classification of mudstone in sandstone

P - pebbles, round or angular fragments of pebble size (more than 4 mm or 0.15 in.).  
 G - granules (less than 4 mm or 0.15 in., and more than 2 mm or 0.08 in.).  
 Fk - flakes, paper thin, with two longer dimensions.  
 Sm - seams, less than 0.1 ft. thick.  
 Fm - films, usually along lamination or cross-lamination planes.  
 Int - interstitial.

Miscellaneous abbreviations

OBN - overburden	fav - favorable; semifav - semifavorable;
Bby - Barnaby (gamma-ray logging instrument)	unfav - unfavorable
grad - gradational	alt - altered; altn - alteration
incl - inclined	frac - fracture; fractd - fractured
calc - calcareous	lam - laminations or laminae; lamtd - laminated
mot - mottled	xl - crystal; xln - crystalline
qtzc - quartzitic	min - mineral; minzn - mineralization
frag - fragment	cem - cement; cemtd - cemented; cemtn - cementation
msv - massive	conc - concentrated; concn - concentration
disc - discard or discarded	cond - condense or condensed
op - opaque or opaques	bdg - bedding; itbd - interbedded; x-bd - crossbed;
H - high	x-bdg - crossbedding; x-bdd - crossbedded
L - low	ox - oxide; oxtd - oxidized
Tr - trace	OBSS - ore-bearing sandstone

} use only for U<sub>3</sub>O<sub>8</sub> and V<sub>2</sub>O<sub>5</sub>

**Maps showing locations of holes drilled in 1955  
by U.S. Geological Survey, Oljeto Wash area,  
Navajo County, Arizona**

Between June 11, 1955, and August 22, 1955, the U.S. Geological Survey conducted exploration in Oljeto Wash area, Monument Valley district, Navajo County, Arizona, to obtain geologic information that could be used in exploring for uranium-bearing deposits in the Shinarump Member of the Upper Triassic Chinle Formation.

The accompanying maps of the area explored are an index map (fig. 1) and another showing locations of holes drilled (fig. 2). Logs of 43 holes identified on the location map may be inspected at the U.S. Geological Survey Library, Building 25, Federal Center, Denver, Colo. 80225, and at the U.S. Atomic Energy Commission Office, Grand Junction, Colo. 81501.

## Additional Information About Logs

The additional information contained in this supplement is useful in interpreting the GEOLOGIC AND ASSAY LOGS form.

Collar elevation.--Generally this is the elevation above mean-sea level of the drill-hole collar. The elevation in the space before T is temporary, that in the space before P is permanent. Permanent elevations are determined by plane-table methods; temporary elevations are determined by less accurate means.

Summary of log.--Each of the terms "favorable," "semifavorable," or "unfavorable" sums up the geologic factors that determine whether or not the hole is in ground considered favorable for the presence of ore. For instance, the term "favorable" indicates that the hole is in ground that shows most of the criteria that are present near ore deposits. A "favorable" hole is not necessarily one that is in mineralized rock.

Core recovery.--This is noted only where it is less than 80 percent. Poor recovery may mean that the log presents an incomplete geologic record of the unit of low recovery.

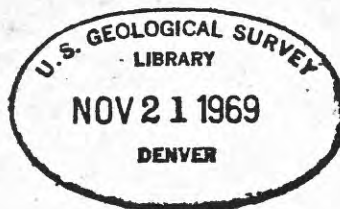
Field estimate.---The column headed "U<sub>3</sub>O<sub>8</sub>" gives the uranium oxide values based on visual estimates and portable geiger-counter readings made by the field geologist. The column headed "V<sub>2</sub>O<sub>5</sub>" gives vanadium oxide values based on visual estimates made by the field geologist.

Assays.--The values given in the columns headed "lab assay (¢)" are chemical assays, with the exception of those preceded by "e." Chemical assays for uranium are determined only for those samples that register 0.045 percent or more eU<sub>3</sub>O<sub>8</sub>. Values preceded by "e" are determined by a laboratory gamma-ray scanner; they represent equivalent U<sub>3</sub>O<sub>8</sub> values of rock samples sent in from the field. Gamma-ray values determined in the laboratory are generally more accurate than field estimates.

In the column headed "γ-ray, ¢eU<sub>3</sub>O<sub>8</sub>," the values given are determined from a gamma-ray field log, obtained by logging the drill hole with a geiger-counter probe. Gamma-ray values are given only for samples that register 0.010 percent or more U<sub>3</sub>O<sub>8</sub>.

Where notation about gamma-ray logging is lacking it is assumed that the hole was not logged radiometrically.

γ-ray log.--This column may be disregarded. See γ(gamma)-ray sub-column on lower part of log sheet.



GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

1-2

Drillhole No. 014-1 Bearing ---  
 Inclination ---  
 Total depth 184.2  
 Collar elev. 5119.4 T --- P ---  
 Area Dillon Wash

Map coord (T) ---  
 Map coord (P) ---  
 Sec 51 T 20 S R 15 E  
 Co., State Montezuma, Ariz.

Claim (2)  
 Date completed 11 June 55  
 Date logged 13 June 55  
 Logged by P. G. ...

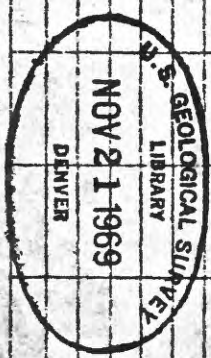
Graphic log

DRILL LOG

Depth	Roc ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Mins	Chn	MS in SS	Remarks
0	30.0	30.0	68	SS/Gr	Mgy	N-Vg, E	A Mica, S Py, Gm	A	S Ggy, Jnt	S-1 Bit No Core	
30	36.4	6.4	100	SS	Mgy	M-Vg, E	Mica, Kelspr	A	Ttbd	5-V Calc. in the base of Ttbd	
44.4	42.8	6.4	100	SS	Mgy	M-Vg, E	Mica, Kelspr	A	S Ggy, Jnt	Thin inclined lam. (loc) S-V	
46.8	45.1	2.3	100	Gg	Mgy-Dry	E-calc	S-A Mica, Py-S	S-A	Ttbd	Calc. grad. by Gg below	
52.4	47.0	1.9	95	SF	Mgy	F-M	Ca Mica, TR Mica	N	S-A Ggy, Jnt	S-V Calc. lam. 0.05-0.21 thick	
52.4	60.5	13.5	80	Mgss/	Mgy	VE-C	TR Mica	N	20% MS M...	30% MS M...	
57.8	61.7	4.2	60	MS	Mgy	---	A Mica, small	---	---	low clay-siltstone	
115.4	66.9	5.8	65	MS	Mgy	F-VF	A Mica, TR Mica, S-A	---	---	low clay-siltstone	
125.4	71.7	4.8	94	MS	Mgy	---	A Mica, TR Mica, S-A	---	---	low clay-siltstone	
134.3	79.0	7.3	100	SS	Mgy	VE-F	A Mica, TR Mica, S-A	N	S Ggy, Jnt	inclined thin lam. mica	
144.2	81.8	2.8	100	MS	Mgy	VE-F	A Mica, TR Mica, S-A	N	30% Ggy, MS	massive	
144.3	84.4	2.6	100	SS	Mgy	VE-F	A Mica, TR Mica, S-A	N	30% Ggy, MS	massive	
154.2	84.9	0.5	100	MS	Mgy	VE-F	A Mica, TR Mica, S-A	N	30% Ggy, MS	massive	



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%) or	Field est
	U3O8	V2O5	Cu		CaCO3	U3O8	V2O5				
Base				Base				Base			
Thick				Thick				Thick			



\*Assays marked "e" are from lab gamma-ray readings

010 0350 41

Hole No. 014-1

Drill-hole No. OW-1, CH 1

Inclination                      Bearing                     

Total depth 184.2

Collar elev. 5119 ± 1 P                     

Area Ojibwa Wash

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT  
2-2

Map coord (T)                     

Map coord (P)                     

Section 5-T, 44 S, R. 150 E

Co., State Montezuma Co., Ariz.

Claim (2)

Date completed 11 June 59

Date logged 13 June 55

Logged by PCF

Summary of log                     ; OBSS from 97 to 134.1; SS color Lgy; MS Gy; Chn. S

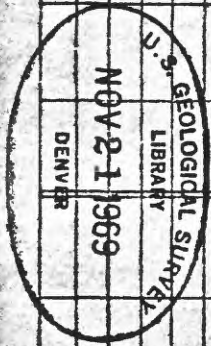
**DRILL LOG**

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		95.1	10.2	100	SS	Lgy	VE-F	A Mic	N	20% Gy Ms, Thick Int	Calc. (2)- Ripple lens; MS splits 0.3' thick; Blue Fe; locally calc. (2)- Top Fe
		96.5	1.4	100	SS	Lgy	M	S-A Mic	N	5 Int Gy MS	locally calc. (2) ± Int ill. clay (Kaolin?); calc. sh. cherty at base of p. 602 soft massive
		101.1	5.2	100	CGSS	Lgy	F-V-CG	TR P. calc. clay	S	5 Gy Int	locally calc. (2) ± Int ill. clay (Kaolin?); calc. sh. cherty at base of p. 602 soft massive
		102.8	1.7	100	CGSS	Lgy	SC-M; E-N	S P. calc. TR P. calc. clay	S	5 Gy Int	locally calc. (2) ± Int ill. clay (Kaolin?); calc. sh. cherty at base of p. 602 soft massive
		134.2			CGSS	Lgy	E-K-CG	TR P. calc. clay	S	5 Gy Int	locally calc. (2) ± Int ill. clay (Kaolin?); calc. sh. cherty at base of p. 602 soft massive
		134.7	0.5	100	MS	Gy Gm	VE	S-A Mic	N		ripple lens; Top Fe
		135.9	4.2	100	MS	Gy Gm	VE	A Mic	N		ripple lens; Top Fe
		184.0	8.1	88	SS	LBRIL	VF	A Mic	N	20% RR	locally calc. (2) ± Int ill. clay (Kaolin?); calc. sh. cherty at base of p. 602 soft massive

Sample	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Sample	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Interval	Y-ray	Y-ray (%) or	Field est		
Base	Thick			Thick				Base	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>

\* Assays marked "a" are from lab gamma-ray readings



**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT 1-2

Drill-hole No. QV-2 Bearing 1  
 Inclination 1  
 Total depth 181.3  
 Collar elev. 5727.7± T 1 P  
 Area Clinto Wash

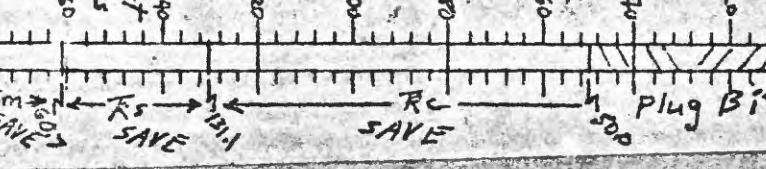
Map coord (1) 10 161  
 Map coord (P) 10 161  
 Section 10-5 T. 41 S. R. 15 E  
 Co., State Montezuma, Arizona

Claim MS Gy-1P  
 Date completed 24 June 55  
 Date logged 24 June 55  
 Logged by PCL

Summary of log OBS from 134 to 161 thick 27  
 : SS color Gy-1P : MS Gy-1P2; Cbn. S

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0	5.18	50.0	570.0	—	Old Ms	Gy Sh	—	—	—	—	Plug Bit No Core
50.0	6.3	6.3	6.0	0	Ms	Gy Sh	E-M	—	—	—	No Core
56.3	2.2	—	—	0	—	—	—	—	—	—	10% E-M sand in ST, small pebbly pods in ST sample taken
58.3	3.0	64.3	2.0	0	—	—	—	—	—	—	No Core
61.3	3.0	70.3(2)	6.0(2)	50	MS	Gy	—	—	—	—	Thin lens
64.3	3.0	76.0±	15.7±	75	MS	Gy	E-M	—	—	—	Ripple lens. lam. fin. 30% MS splits 1.5-1.0" thick
67.3	3.0	—	—	—	MS	Gy	E-M	—	—	—	10% E-M sandy silt
70.3	3.0	86.0±	15.7±	75	MS	Gy	E-M	—	—	—	10% PP MS in blobs, local 0.1-0.2" spots
73.3	3.0	—	—	—	MS	Gy	E-M	—	—	—	TR lens 2.5-3.0" VE sandy lam
76.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	0.1-0.2" thick
79.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	A sol. chert gas. 5 calcs
82.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	soft rocks; 5 50% V
85.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	muddy for bottom 2-3'
88.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	5% sand-bedding indistinct
91.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	40% sand w/ chert gas
94.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	Bedding indistinct; Top 150
97.3	3.0	96.3±	0.3±	75	MS	Gy	E-M	—	—	—	TS 2



Sample	Lab assay (%)			Sample	Lab assay (%)					
	U3O8	V2O5	Cu		CaCO3	U3O8	V2O5	Cu		
Base	Thick	U3O8	V2O5 <td>Cu <td>CaCO3</td> <td>Base</td> <td>Thick</td> <td>U3O8</td> <td>V2O5 <td>Cu</td> </td></td>	Cu <td>CaCO3</td> <td>Base</td> <td>Thick</td> <td>U3O8</td> <td>V2O5 <td>Cu</td> </td>	CaCO3	Base	Thick	U3O8	V2O5 <td>Cu</td>	Cu



\* Assays marked "e" are from lab gamma-ray readings

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-2  
Inclination 121.3 Bearing ---  
Total depth 121.3  
Collar elev. 5107.7 ± T --- P ---  
Area Object Wash

Map coord (T) ---  
Map coord (P) ---  
Sec. Cor. N-5 T. 44 S. R. 15-7 E  
Co., State Nevada Co., Arizona

Claim ---  
Date completed 24 June 55  
Date logged 24 June 55  
Logged by PCF

Graphical log

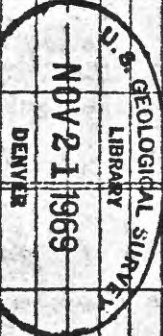
## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Cbn	MS in SS	Remarks
		136.0	3.0	100	SS	k Gy	F-M, Ss	A Micay, TR, Pl	N	30% k Gy	No obvious bedding
		136.3	0.3	100	MS	Mat Psg	F-M	TR, Micay			40% F-M sand
		150.1	13.8	97	SS	kgy-gygn	F-c, M	S-A Micay, TR	N	30% Gygn	A Pt Res: Ripple lony
		153.1	3.0	90	SS	L Pp	M, S, F, C	TR, Micay, Gn	N		thick lony, locally calcy
		160.7	7.6	95	SS	kgy	F-M	TR, Micay, Gn	TR	5% thbdy	TR chert gns, thin, in chert
		161.1	0.4	100	MS	Gy, Gn		TR, Micay			lony, thin - indistinct
		181.3	20.2	100	MS	RBR, S		S-A, Micay			Gy, MS splits up to 0.25

RA, TR

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray		Y-ray (%) or	Field est
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		Thick	% U <sub>3</sub> O <sub>8</sub>		
Base	Thick			Base	Thick			Base	Thick			

\* Assays marked "e" are from lab gamma-ray readings





# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-3 Bearing 1  
 Inclination 293.4  
 Total depth: 5725.8 ± T 1  
 Collar elev. 5725.8 ± P  
 Area Olicito Wash

Map coord (T) 107 07 00  
 Map coord (P) 35 41 15  
 Section C-5T.40S R.15E  
 Co. State Navajo Co., Arizona

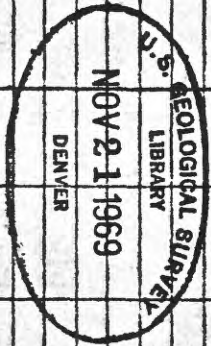
Claim 1-2  
 Date completed 24 June 53  
 Date logged 24 June 53  
 Logged by PCF  
 OBS from 239 to 274 thick 3.5 ± SS color Gy MS Gy : MS Gy : Chn. N

Rev	Ed
1020	1/1/53

## LITHOLOGIC LOG

Depth	Recft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	Plug Bt <sup>g</sup> R <sub>2</sub>	20.0	20.0	—	Qal	RBR	F		N	RBR	Plug Bt <sup>g</sup> , No Core
30.0	2.2	38.0	18.0	—	Qal	Gy	F-Cg		N	Gy	Blow sand Stream (2) gravel
30.0	—	43.0	5.0	—	MS	RBR-SM <sup>g</sup>	F-M		NR	—	590 ± sand gas
30.0	—	69.4	26.4	15	MS	Gy fine-Gy					
30.0	—	80.5	11.1	68	MS	Gy-Gy-Gy 5940t Fp	Silty	N-A Mica	N	—	Blocky. frac.
38.0	0.9	—	—	—	—	—	—	—	N	—	—
43.0	0.9	80.7	0.2	100	ST-SS	Yug <sup>g</sup>	VE	A Mica, TR OP	N	—	Calc
48.0	1.0	82.6	1.9	81	MS	Gy	VE	A Mica, fks	N	—	1090 VE sandy lim stains
52.0	0.4	82.8	0.2	100	MS	RBR, S	—	—	N	—	—
54.0	0.0	—	—	—	—	—	—	—	N	—	—
59.0	1.6	98.6	9.8	96	MS	Gy-Gy-Gy 2 RBR	VE	S-A Mica	N	—	590 VE sand
72.0	3.0	—	—	—	—	—	—	—	N	—	—
77.0	1.5	113.6	15.0	69	MS-SS/Gy	Gy-Gy-Gy	F-CG	A Mica, TR OP PK Fdgr	N	—	Locally Calc. Mica in larvae fcs 40% SO <sub>4</sub> , 30-80% MS
87.0	4.2	—	—	—	—	—	—	—	N	—	0-30% F-M sandy thin lms
97.0	3.0	147.9	34.3	—	MS	Magn <sup>g</sup>	F-M	S-A Mica	N	—	—
102.0	5.7	—	—	—	—	—	—	—	N	—	—
102.0	6.0	148.0	0.1	98	MS	SM <sup>g</sup> RBR	—	—	N	—	5 Gy-Gy RBR
112.6	5.4	—	—	—	—	—	—	—	N	—	5 Pp-B Gy-Blocky frac.
118.6	1.1	153.1	7.1	90	MS	Gy-Gy	—	—	N	—	N 590 VE-1 sand Int silted
124.0	6.7	189.02	33.9	13	MS	Dy-Gy	VE-F	TR Mica TR S Mica	N	—	1080 ftd sand, Ripple lms gradational below
129.4	—	192.9	3.9	50	MS	Lgy	VE-F	S-A Mica	N	—	—
139.4	10.0	—	—	—	—	—	—	—	N	—	—

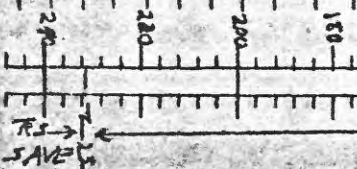
Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray	Y-ray (%) or Field est				
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu		CaCO <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>		Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick
Base	Thick			Base	Thick				Base	Thick		Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>
									27.14	1.4	0.07				
									25.19	1.3	<0.005				
									27.6.0	1.6	<0.010				
									Logged	Lab Assay					
									0.21	—	290.0				



\* Assays marked "e" are from lab gamma-ray readings

GPO 3750 41

Hole No. OW-3



GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

2-2

Drillhole No. OW-3 Bearing 1  
 Inclination 295.4  
 Total depth 512.58± T 1 P  
 Collar elev. 512.58±  
 Area Clay Wash

Map coord (T)             
 Map coord (P)             
 Sec. 6 T. 5 R. 15E  
 Co., State Mont. Co. Ariz.

Claim             
 Date completed 24 June 57  
 Date logged 24 June 57  
 Logged by PCF

Graphic log

Summary of log            OBS from 239 to 274 thick            SS color Gry ; MS Gry ; Cbn. N

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
1374	5.0	224.0H	31.1	100±	SS/MS	kg/Mggy	VE-F	A Mica TRB	S-A	Int, thbd	Thin, incl. Ripple layers 30° ± 60% ss
1444	2.4	—	—	—	—	± Gullm	—	—	—	—	260
1474	5.7	—	—	—	—	—	—	—	—	—	265
1539	10	233.3	9.3	97	MS/SS	Mgy-Gy	WE-F	A Mica	S-A	Int, thbd	Thin incl Ripple layers 30° ± 70-90° ss; Base Tc 2
1551	5.8	—	—	—	—	Gullm	—	—	—	—	280
1644	6.0	238.9±	5.6	45	Cg	Lgy	E-Cg	S Mica	N	Int, gy	MS Cement. Pup to M' claim include chert at ST of the 100
1706	0.1	—	—	—	—	—	—	—	—	—	285
1744	0.2	—	—	—	—	—	—	—	—	—	290
1794	0.0	241.4	8.5	60	MS	Lgy-gm	VE	S-A Mica	N	—	MS Cement. Pup to M' claim include chert at ST of the 100
1804	0.0	—	—	—	—	—	—	—	—	—	295
1814	0.0	257.6	10.2	75	MS	Lgy-gy	E-M	S-A Mica	N	—	15% / 30% Sand; Silty;
1824	0.4	—	—	—	—	—	—	—	—	—	298
1874	4.7	—	—	—	—	—	—	—	—	—	300
1974	3.8	269.4±	12.3	100	SS	Lgy	M-Kg	S Mica; TRP	100% Gyg	locally grades to sandy MS & MS of y, A Int w/ clay	
2014	5.5	—	—	—	—	—	—	—	—	—	305
2084	5.5	—	—	—	—	—	—	—	—	—	310
2177	8.7	—	—	—	—	—	—	—	—	—	315
2244	7.0	273.9±	4.0	8	MS	Gy-gym	—	S Mica	N	—	Renworked Fern (2). Base Tc 3 thin lam.
2344	0.9	—	—	—	—	—	—	—	—	—	320
2383	5.3	273.4	16.9	90	MS	RBR	—	S-A Mica	N	—	5 thbd of Mts Gyg; Massive - thin lam; Carbonaceous layer in Gy micaceous ST w/ 274. P. Could be mis-placed Tc.
2444	6.0	—	—	—	—	—	—	—	—	—	325
2539	9.3	—	—	—	—	—	—	—	—	—	330
2624	7.0	—	—	—	—	—	—	—	—	—	335
2694	0.3	—	—	—	—	—	—	—	—	—	340
2724	2.4	—	—	—	—	—	—	—	—	—	345
2744	5.0	—	—	—	—	—	—	—	—	—	350
2804	5.5	—	—	—	—	—	—	—	—	—	355
2904	16.6	—	—	—	—	—	—	—	—	—	360

Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)												
		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu			CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>							
Base																			

U.S. GEOLOGICAL SURVEY  
LIBRARY

NOV 21 1969

DENVER

CPG 6356-11

Hole No. OW-3

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. CW-4  
 Inclination          Bearing           
 Total depth 312.0  
 Collar elev. 5119.5 T          P           
 Area Alto Wash

Map coord (T)           
 Map coord (P)           
 Sec. C-4 T 44 S R 12 E  
 Co., State NEWARK CO., N.M.

Claim           
 Date completed 8 July 53  
 Date logged 7 July 55  
 Logged by PCF

Rev	1-2
Ed	

Graphic log           
 ; SS color           
 ; MS           
 ; Cbn.         

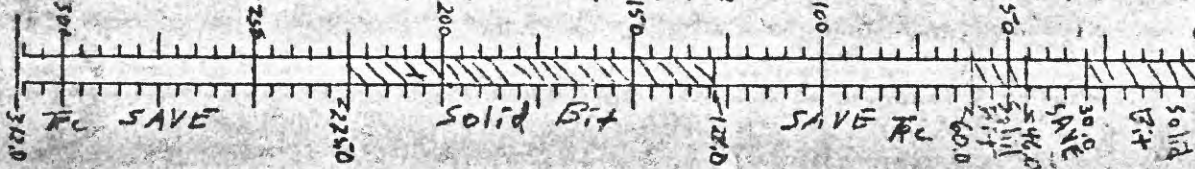
**LITHOLOGIC LOG**

DRILL LOG	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0- 30.0 <i>3.1.5 Bit</i>	30.0	30.0	—	LS	Yellowish	VF, S.C.	—	N	—	Solid Bit, No Core
30.0- 36.0 0.4	36.0	5.9±	4	M/S	RIB	—	—	N	—	Massive
36.0- 41.0 4.5	36.7	0.7	4	M/S	RIB	—	—	N	—	5 gaus. lam. spots. Thin lam.
41.0- 46.0 0.0 <i>solid</i>	39.5	2.8	4	M/S	Gray	ST	—	N	—	S.R.B. - slick faces incl 40°
46.0- 60.0 3.9 <i>Bit</i>	41.0	1.5	4	M/S	RIB	—	—	N	—	5 gaus. spots; Massive
60.0- 76.0 10.0	46.0	5.0	0	—	—	—	—	N	—	No Core
76.0- 83.0 <i>10.0</i>	60.0	2.0	—	MS-SS	K Gy	VE-C	Alto	N	Gy Int	Solid Bit, No Core
83.0- 94.0 10.0	86.0	26.0	92	MS-SS	K Gy	VE-C	Alto	N	Int	Locally Calc; 60% SS-5
94.0- 106.0 9.2	—	—	—	SS	Gray-Gl	VE-1	A	N	—	Solid
106.0- 112.0 6.4	106.2	20.2	97	MS	Gray-Gl	VE-1	A	N	—	5% ± VE-F sand-thin lam
112.0- 122.0 6.4	115.1	8.9	5	MS	Mot P	—	—	N	—	lim stains; thin lam
122.0- 146.0 5.0 <i>solid</i>	—	—	—	MS	Gy	ST	—	N	—	thin lam
146.0- 225.0 1.6 <i>Bit</i>	115.5	0.4	68	ST	Gray	ST	—	N	—	incl. silt fracs & small
225.0- 236.0 2.2	128.0	12.5	5	MS	Gray	—	—	N	—	ST calc concretions w/
236.0- 244.0 6.4	—	—	—	—	—	—	—	N	—	Pay lim spots
244.0- 312.0 6.4	225.0	9.0	—	MS	RR P	ST	—	N	—	Solid Bit, No Core
	240.0	1.0	40	MS	RR P	ST	—	N	—	Mot Gaus
	243.6	3.6	40	MS	RR P	ST	—	N	—	5 Mot P; Massive
	249.0	0.4	80	MS	RR P	—	—	N	—	—

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est		
Base	Thick	U3O8	Y2O3	Cu	CaCO3	Base	Thick	U3O8	Y2O3

\* Assays marked "e" are from lab gamma-ray readings

*PARRIN*



**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

2-2

Drill-hole No. OW-4 Bearing ( )  
 Inclination ---  
 Total depth 312.0  
 Collar elev. 5119.5 T --- P ---  
 Area Ojibwa Wash

Map coord (T) ---  
 Map coord (P) ---  
 Sec. C-4 T 44 R 15 E  
 Co., State Montana

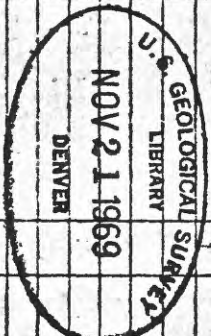
Claim ---  
 Date completed 8 Feb 53  
 Date logged 7 July 53  
 Logged by PCI

Graphic log

OBS from --- to --- thick --- SS color --- MS --- Cbn. ---

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Mins.	Cbn	MS in SS	Remarks
244.0	4.0	352.4	8.9	4.0	MS-ST	Gygn-Gy	F-FG	TR Mica	TR	30% Gygn	5% F Sand's Massive-thin lams Gale A chert gns, P, 10% Sand; Massive thin lam to unbeddedly 5% to F sand; Int. 1/16"
254.0	1.1	300.0	24.0	7.5	MS-ST	Gy	VE-VSM, ST	AMica	A	-	Chn 5ks fms; Thin lams Ripple lam; 20% MS, ST
264.0	1.0	304.0	4.0	0.0	MS-ST	Gy	VE-VSM, ST	AMica	A	-	No con
276.0	1.2	312.0	8.0	8.8	MS-ST	Gy	VE-VSM, ST	AMica	A	-	Chn 5ks fms; Thin lams Ripple lam; 20% MS, ST
288.0	1.2										
300.0	1.2										
312.0	1.2										



Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval			Y-ray			Y-ray (%) or Field est			
		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu			CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>

\* Assays marked "e" are from lab gamma-ray readings

GPO 3350-41

Hole No. OW-4

Drillhole No. **OW-4A** (NY)

Inclination **Vertical** Bearing

Total depth **329.0**

Collar elev. **5119.4** T P

Area **Ojeto Wash**

### GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Map coord (T)

Map coord (P)

Sec. **B-4** T. **41 S** R. **13 E**

Co., State **Navajo Co., N.M.**

Claim

Date completed **27 July 55**

Date logged **27 July 55**

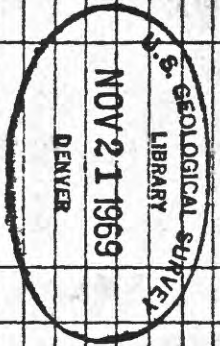
Logged by **PCF**

Rev	1-1
Ed	

Summary of log: OBS from \_\_\_\_\_; SS color \_\_\_\_\_; MS \_\_\_\_\_; Cbn, \_\_\_\_\_

### LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0		300.0	300.0	-	-						
		314.0	14.0	5.7	MS/ST	Ay Gu	ST-VE-	A Micq. Py	A	-	Solid Bk, No Core
					MS		M		CKC	-	Thin, Ripple lam
		316.0	2.0	1.0	MS	Ay-Gu	ST	Mica	N	-	Thin lam
		316.5	0.5	1.0	MS	Ay-Gu	VE	S. Calc. Ystls	N	-	Argillaceous (R)
		318.5	1.6	1.0	MS	Ay-Gu	ST	Mica	N	-	Thin lam
		325.0	6.5	8.6	MS	Ay-Gu	ST	Mica	N	-	Py at top; Thin-Ripple lam
		326.5	1.5	9.0	MS	Ay-Gu	ST	Mica Py	N	-	Thin Ripple lam
		339.0	12.5	42	MS	RBR	ST	Mica	N	-	Top 1/2
		339.0	0								SAVE ALL CORE



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval			Y-ray	Y-ray (%) or Field est			
	U3O8*	%O/Cu	CaCO3		Base	Thick	U3O8*	%O/Cu	CaCO3	Base		Thick	% U3O8	Base	Thick
Base	Thick			Base	Thick										

**B4 RIFEN**

\*Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. GW-5 Bearing ( )  
 Inclination ( )  
 Total depth 191.0 Map coord (P) ( )  
 Collar elev. 5036.4 T ( ) pSE ( ) Sec ( ) T 44 S R 15 E  
 Area Olgeta Wash Co., State Navajo Co., Arizona  
 Summary of log 5036.4: OBSS from 11 to 171 thick 160: SS color Gy: MS Gy: Chn. S-A

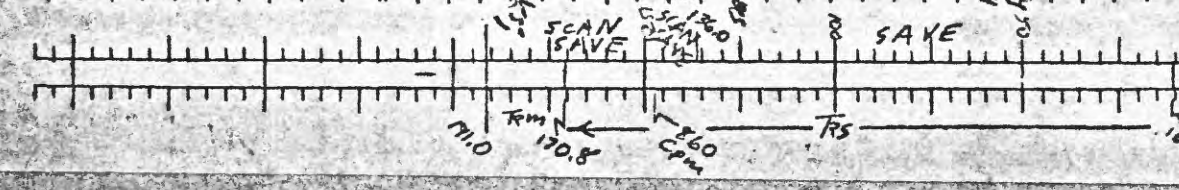
Claim ( )  
 Date completed 28 June 55  
 Date logged 28 June 55  
 Logged by PCI

Rev ( ) Ed ( )

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access	Min's.	Chn	MS in SS	Remarks					
0.0	Plug	10.5	10.5	—	Qz1							Plug Bit, No Core					
10.5	Bif	28.1	17.6	90.5	Cl	L Gy	F-CG	S R, Mica; A	5-A	S-A	Gy, Int	Plug 1' Br; F-M/M-C-G com- mainly: S Wk, PK F&G, A smoky Pt of S-A 50G; thin incl bedding fin in specks; A 50G; thin- unbedded; S Calc.					
20.5																	
30.5																	
40.5																	
50.5																	
60.5																	
70.5																	
80.5																	
90.5																	
100.5																	
110.5																	
120.5																	
136.0																	
Sample		Lab assay (%)				Sample		Lab assay (%)				Interval		Y-ray		Y-ray (%)	
Base	Thick	U3O8 *	V2O5/Cu	CaCO3	Base	Thick	U3O8 *	V2O5/Cu	CaCO3	Base	Thick	% U3O8	Base	Thick	ed U3O8	V2O5	

S. GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER



\* Assays marked "e" are from lab gamma-ray readings

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. OW-5 Bearing 1  
 Inclination 191.0  
 Total depth 191.0  
 Collar elev. 5036.4 T 1 PSE Rec. D-3 R 1715  
 Area Clay to Wash Co., State Nevada

Map coord (1) 11 to 111 thick 100 SS color Gy MS Gy Chn. 2-4  
 Map coord (P) 11 to 111 thick 100 SS color Gy MS Gy Chn. 2-4

Claim 1  
 Date completed 28 June 55  
 Date logged 28 June 55  
 Logged by PCF

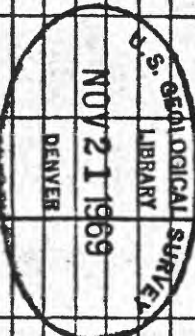
Rev	2-3
Ed	

DRILL LOG

LITHOLOGIC LOG

Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
136.0	99.1	CTd								MS fins w/ Mica between 97.1 & 97.4
146.0	101.7	2.6	100	MS	Gy/LLGy	VE				30% to 50% of bed VE sand. Rippled. Clay in fins
152.0	116.8	15.1	95	SS	LXo Gy	E-VE				Chn largely in SS. A fine bedded clay below
166.0										Gradational below
171.5										
176.0										
186.0	117.5	0.7	75	Cg	Gy	F-Cg				SA 15% MS, Gy, Int P, Clay, Galls, Chn in fins, frags
191.0										
190.5	117.9									Clay in fins, thin lams
	122.4	9.9	85	MS	Gy					
	129.8	2.4	100	SS	L Gy	F-SSM				Clay, Int: 70% ± 50% Gy local SiO <sub>2</sub> cement
	136.2	0.4	100	MS	Gy	ST				
	130.7	0.5	100	SS	L Gy	F-SSM				Clay, Int: 70% ± 50% Gy local SiO <sub>2</sub> cement
	131.3	0.6	100	MS	Gy	ST				
	141.0	0.7	100	SS	L Gy	F-SSM				Clay, Int: 70% ± 50% Gy local SiO <sub>2</sub> cement

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%)	Field
Thick	U <sub>3</sub> O <sub>8</sub> * V <sub>2</sub> O <sub>5</sub> Cu CaCO <sub>3</sub>	Thick	U <sub>3</sub> O <sub>8</sub> * V <sub>2</sub> O <sub>5</sub> Cu CaCO <sub>3</sub>	Base Thick	Base Thick	% U <sub>3</sub> O <sub>8</sub>	Base Thick U <sub>3</sub> O <sub>8</sub> V <sub>2</sub> O <sub>5</sub>
				140.0	140.0	<0.005	170.4
				141.1	141.1	<0.005	171.5
				146.8	146.8	1.1	1.5
				147.8	147.8	1.0	<0.028
				161.6	161.6	1.38	<0.005
				162.5	162.5	0.9	0.011
				165.8	165.8	2.2	0.015
				168.0	168.0	2.2	0.015
				170.4	170.4	2.4	<0.010



\* Assays marked "a" are from lab gamma-ray readings

Graphic log

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-5 Bearing 1  
 Inclination 191.0  
 Total depth 5036.4 T 1 PSE 1/4 Sec. 17.3 T. 415 R. 15  
 Collar elev. 5036.4  
 Area Ojo del Wash  
 Co., State \_\_\_\_\_

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 OBS from 11 to 171 thick 160 : SS color Gy : MS Gy : Cbn. S-A

Claim \_\_\_\_\_  
 Date completed 28 June 53  
 Date logged 28 June 53  
 Logged by PCF

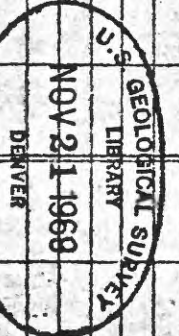
Rev	Ed

Graphic log

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		144.5	3.5	100	SS	L Gy	E-M	TR Mica, fine Min	S	S-Gy, Int frags, fms	Thin bed. (200ft) friable; locally Calc; Cbn in frags; fms; Int; S <sup>12</sup>
		154.6	10.1	100	SS	L Gy	E, M	TR Mica, Gy	S-A	Gy, Int 2 plths, S	Chy Int; 70% ± S; 50% ± S MS P
		161.4	5.8	100	SS	L Gy	E, M, C	TR Mica, Gy	S	S-Gy, Int frags	Bedding thin incl (200ft) - unbedded; friable; locally Calc; Cbn frags, Int Calc
		162.4	1.0	100	SS	L Gy	E	TR Mica	N	N	Calc
		168.3	5.9	100	SS	L Gy	C/F	S Gy, TR Mica	S	S-Gy, Int frags, P	Clay galls more Act bases; S; 50% ± S; 50% ± Mica on MS fms; Chy Int, fms
		168.5	0.2	100	MS	Gy	ST	TR Mica	N	N	Calc; Chy, s; S clay galls; Wavy base; Base 75
		170.8	2.3	100	SS	L Gy	MVE	TR Int wh. clay	TR	S-Gy, Int	20% SS; 50% ± S; 50% ± Mica
		171.1	0.3	100	MS	Gy	MVE	S Mica	N	N	SS; thin bedded; in ss; thin bedded
		171.9	0.8	100	MS	Gy	MVE	S Mica	N	N	SS in dikes; Gy in SS thin lam
		172.4	0.5	100	MS	Gy	MVE	S Mica	N	N	Ripple lams; Calc
		172.6	0.2	100	MS	Gy	MVE	S Mica	N	N	S; 50% ± S; 50% ± Mica; 50% ± S; 50% ± Mica
		171.0	18.4	91	MS	RBR	MVE	Mica	N	N	1st Rippled lam

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%) or	Field est		
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> %	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> %	CaCO <sub>3</sub>						
Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> % <td>CaCO<sub>3</sub></td> <td>Base</td> <td>Thick</td> <td>U<sub>3</sub>O<sub>8</sub> *</td> <td>V<sub>2</sub>O<sub>5</sub> % <td>CaCO<sub>3</sub></td> <td>Base</td> <td>Thick</td> <td>U<sub>3</sub>O<sub>8</sub></td> <td>V<sub>2</sub>O<sub>5</sub></td> </td>	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> % <td>CaCO<sub>3</sub></td> <td>Base</td> <td>Thick</td> <td>U<sub>3</sub>O<sub>8</sub></td> <td>V<sub>2</sub>O<sub>5</sub></td>	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>
		147.4	0.1	0.18	<0.1	8.61							
		168.3											
		168.5	0.2	0.080	<0.1	8.28							



\* Assay marked "a" are from lab gamma-ray readings

Q10 9380 41

Hole No.



**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

D. J. Hole No. DW-6 Bearing 1  
 Inclination 94.0  
 Total depth 4992.1 T 1 Map coord (P) 1.4145 R.15 E  
 Collar elev. 4992.1 PC# 4 Sec. 6-2 Co., State Havapo Co., Arizona  
 Area Ojeto Wash

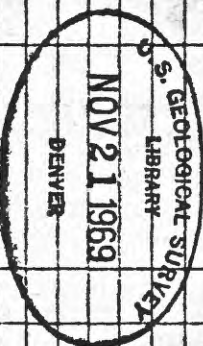
Map coord (T) \_\_\_\_\_  
 Map coord (P) 1.4145 R.15 E  
 OBS from 12 to 74 thick SS : SS color Gy

Claim \_\_\_\_\_  
 Date completed 26 June 55  
 Date logged 26 June 55  
 Logged by PCF  
 : MS Gy : Cbn. VS-A

Rev HK  
 Ed 1/25

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		61.6	2.5	100	SS	VLGy	F	S-A Mica, A-Int Wh clay TRP	S	S gy, fms P frags.	Shedding of MS & dm fms
		63.9	2.3	100	SS	Lgy	E-K, S CG	S-Int wh clay TRMica, S py	S	Gy, S, AP Frags	S Calc. 95-20 S clay, S Bedded TR Blk Edspr
		73.1	9.2	99	SS	VLGy	F	S-A Mica, A-Int Wh clay TRP	N	S Gy, fms, P frags, Int	2 Bedded log by MS fms, F-M in bottom 0.1'
		73.5	0.4	99	MS	Gygn	VEG at top	TR Py	N	Gy, Gm, P, S	20% subd, Base TRS
		74.8	1.7	94	MS	Gygn	—	S Py Xystals; S-A Mica	—	—	Thin lam, Top Trm
		91.0	19.2	99	MS	RBR	—	S-A Mica	—	—	Thin - Ripple lam, S. thbd & Mot Gygn MS



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval			Y-ray						
	U3O8	V2O5	Cu		CaCO3	U3O8	V2O5	Cu	CaCO3	Base	Thick	% U3O8	Base	Thick	Field est		
Base	Thick	U3O8	V2O5	Cu	CaCO3	Base	Thick	U3O8	V2O5	Cu	CaCO3	Base	Thick	U3O8	V2O5	Cu	CaCO3

\* Assays marked "e" are from lab gamma-ray readings

Graphic log

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Geological Survey  
Colorado Plateau District

D. Well No. OW-6 ( )  
 Inclination \_\_\_\_\_ Bearing \_\_\_\_\_  
 Total depth 94.0  
 Collar elev. 4922.1 T \_\_\_\_\_ Map coord (P) \_\_\_\_\_  
 Area Oliver Wash PSE YSec. C-2 T. 44S R. 12E  
 Co., State Nevada Sec. 17E T. 31N

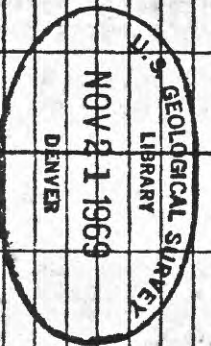
Claim \_\_\_\_\_  
 Date completed 26 June 55  
 Date logged 26 June 55  
 Logged by PCF  
 OBS from 12 to 74 thick 6 SS color Gy : MS Gy : Chn. Ve-A

DRILL LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0		12.0	12.0	—	SS	LxGgy	F	Alim. specks, S. A. Mugs, A Int	N	N	Solid Bit No Core
12.0	12.0	22.5	10.5	96	SS	LxGgy	F	Alim. specks, S. A. Mugs, A Int	N	N	A 50 Gy. Calc.
24.0	10.0	—	—	—	SS	D Gy	M-Vc	S. A. Py. A Int with Clay	A	20% Gy, Int TR Int Gr. Mls	
34.0	10.0	44.0	22.0	100	SS	VLGy	F-M, SC, CG	Alim. specks, Py, TR Mugs, Jarosite	A	S: P, H, L, Gy	S. X Br. staining, TR Gr. Mugs, A Int with Clay, S Calc. Bedding thin - thick focally with Fe Py. Self-eds left Fraes between
44.0	10.0	—	—	—	SS	VLGy	Vc	TR Py, S Int with clay, S calc.	A	S MS, Gy, P	40% S. Calc. TR authigenous
54.0	10.0	47.7	0.8	100	SS	VLGy	VE	S. A. Mica, A Int with clay	N	A Int, Gy	97% Porosity, bedded thin lamellae; Mica largely on 1/4" MS
64.0	10.0	49.5	1.8	100	SS	L Gy	Vc/M, K	TR Py, S Int with clay, S calc	A	S MS, Gy, P	90% S. Calc. TR authigenous
74.0	10.0	53.5	4.0	100	SS	M Gy	F	S. Mica, A Int with clay	V	S Gy, itbd, S Gy, P	92% Xystals, inclined bedding
84.0	10.0	—	—	—	SS	L Gy	F-V, G, S	S. Mica, A Int with clay, S calc	V	S Gy, itbd, S Gy, P	S. Mica, itbd, MS, thin, plane to unbedded
94.0	91.4	59.1	5.6	100	SS	L Gy	F-V, G, S, TR Mica, PR Felgpr, S Py	S. Int. with clay, S calc, TR Mica, PR Felgpr, S Py	A	Gy, S, A, P frags.	S. Calc. 95% S. Calc. 5
94.0	91.4	—	—	—	SS	L Gy	F-V, G, S	S. Int. with clay, S calc, TR Mica, PR Felgpr, S Py	A	Gy, S, A, P frags.	Bedded

LITHOLOGIC LOG

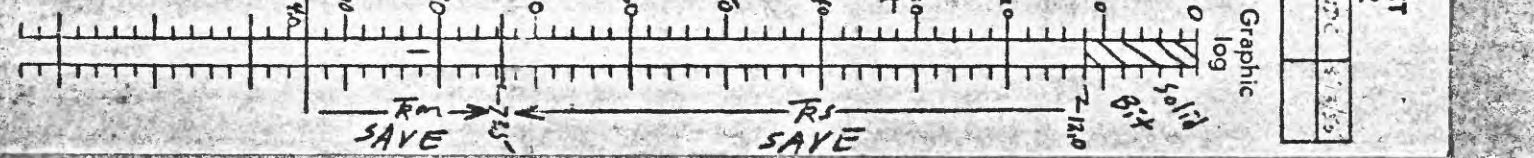
Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or Field est					
Base	Thick	U3O8*	V2O5/Cu	CaCO3	Base	Thick	% U3O8	Base	Thick	U3O8	V2O5
					73.5	1.3	<0.010				
					57.2	0.9	<0.005				
					43.2	0.8	<0.010				
					23.6	0.8	<0.005				
					22.7	1.0	<0.005				



\*Assays marked "e" are from lab gamma-ray readings

CPRO 8356 (1)

Hole No. OW-6



**GEOLOGIC AND ASSAY LOGS**

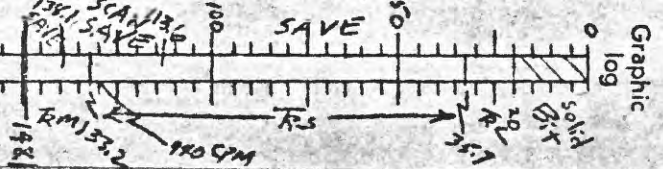
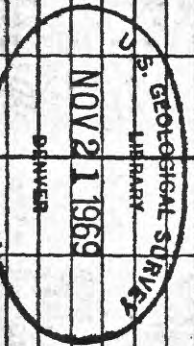
U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill. hole No. OW-7 Bearing 1  
 Inclination 1  
 Total depth 1481  
 Collar elev. 505-879 T 1 Map coord (P) 1. 441 S R. 14-6 E  
 Area Monument Valley, Dotate Wash PSM 145C Sec. 5-2 Co., State Nevada  
 Summary of log 35 OBS from 35 to 133 thick 98 : SS color Gy : MS Gy : Chn. S

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0	3.0	20.0	20.0	60	MS/SS	Gy-Gyfm	VE-F	S-A Mica; A lim	TR	A Gy-Gyfm	Plug Bit No. Core
20	3.0	29.7	9.7	60	MS/SS	Gy-Gyfm	VE-F	S-A Mica; A lim	TR	A Gy-Gyfm	60% MS, 15% sand in MS; Mn stains, slick faces incl
240	3.9	—	—	—	—	—	—	—	—	—	Mn stains, slick faces incl
315	9.0	—	—	—	—	—	—	—	—	—	40% ± thin-thick bedded; S ripple lenses
415	10.0	34.8	5.1	80	SS/MS	Gy-Yky	VE-F	S-A Mica; A lim	TR	Gy; Tot ill	Thin-thick bedded; MS thin, irregularly distributed; base of bedded
510	10.0	—	—	—	—	—	—	—	—	—	Thin-thick bedded; MS thin, irregularly distributed; base of bedded
610	10.0	35.7	0.9	90	SS	Lgy	M-Kc	A Tot wk clay	N	N	No bedding; VS 50% PKOTe ans; top of SS
710	9.8	36.8	1.1	90	SS	Lgy-YwBr	VE-F; SM	S-A Mica; A	S	A Gy; Tot	Calc; TR Gn Mng; A lim
806	9.6	—	—	—	—	—	—	—	—	—	Calc; TR Gn Mng; A lim
826	3.0	41.2	4.4	90	SS	Lgy-Gy; S	VE/M; S	S-A talc; S	N	S Gy; P in	locally Calc; A SOc; lim, horn
936	9.8	—	—	—	—	—	—	—	—	—	at top; S Rust-red of the gns
1036	9.8	—	—	—	—	—	—	—	—	—	at top; S Rust-red of the gns
1136	9.5	57.9	1.6	100	SS	LywBr	E-M	TR Mica; S-A lim	N	N	A Tot wk clay; A SOc
1231	9.5	59.5	1.6	100	SS	LywBr	E-M	TR Mica; A lim	N	N	A Tot wk clay; A SOc
1331	4.7	—	—	—	—	—	—	—	—	—	thin incl. bedding (20%)
1381	5.1	59.6	0.1	100	SS	Br	C	A lim (chalc) S	N	N	S; O <sub>2</sub> ; CaCO <sub>3</sub> cement
1481	9.8	60.0	0.4	100	SS	LywBr	VE-E	TR Mica; A-TN	N	N	Calc; S-A lim specks

Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval			Y-ray	Y-ray (%) or		
		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu			CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick		Field-test		
1281	116.3	60.0	0.4	100	SS	LywBr	VE-E	TR Mica; A-TN	N	N	12.2	1.3	<0.005	131.6	1.3	<0.005
1381	5.1	59.6	0.1	100	SS	Br	C	A lim (chalc) S	N	N	12.3	1.0	0.011	132.9	1.3	<0.005
1481	9.8	60.0	0.4	100	SS	LywBr	VE-E	TR Mica; A-TN	N	N	12.4	1.0	0.011	132.9	1.3	<0.005



\* Assays marked "e" are from lab gamma-ray readings

070 8350 11

Hole No. OW-7

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill hole No. QW-7 Bearing ( )  
 Inclination 148° 1'  
 Total depth 148.1  
 Collar elev. 5352.9 T 1 P 1 R 15.5  
 Area Manitou Lake Valley, Delta Wash  
 Co., State Montezuma, Colorado

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 OBS from 35' to 133' thick 98' SS color Gy MS ty Cbn. S

Claim \_\_\_\_\_  
 Date completed 28 June 53  
 Date logged 28 June 53  
 Logged by ECF

Rev	HK
Ed	ASW

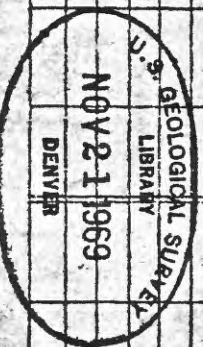
Graphic log

## LITHOLOGIC LOG

Depth Recft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
61.2	12	98	SS	Gy	MS EC	A Int. M. Clay	S-A Int. Silt		Top 0.2' M.B.R. S. SOG; friable; thin-bedded; bedding wavy; clay on bedding	
67.0	58	98	SS	LY BR	VE-FIS	TR Mica S-A Int	S	N	Bedding thin, incline 8, S-A line, specks, staining clay on bedding; F-VC, Cr layer between 62.8 & 63.0; yellow A clay frags; MS, chert, QTE, Qtzite frags	
71.0	4.0	98	SS	LGy	VE-Fg	S Mica S-A Int	N	S Gy Mica	locally Calc; 90% SOG; bedding thin-thick, incl 20° locally Calc; 90% SOG	
80.4	94	96	SS	LGy	VE-Fg	S Mica S-A Int	N	N	S Calc; S bedding incl 20°; gradational below	
82.6	2.2	99	SS	LGy	VE-Fg	S Mica S-A Int	TR	N	Clay in first; locally Calc; A SOG; N beddings gradational below	
92.6	10.0	98	SS	L Gy	F SN	S Mica S-A Int	TR	N	M-C zones; clay galls; at P. Cg at base; mica largely in MS frags; locally calc; 90% SOG	
101.3	8.7	98	SS	L Gy	F SN	S Mica S-A Int	S	S; Gy; P.H.D		

Sample	Lab assay (%)			Sample	Lab assay (%)		
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>
Thick				Thick			
Base				Base			

Interval	Y-ray		Interval	Y-ray	
	Thick	% U <sub>3</sub> O <sub>8</sub>		Thick	Field est
Base			Base		
Thick			Thick		
U <sub>3</sub> O <sub>8</sub> *			U <sub>3</sub> O <sub>8</sub>		
V <sub>2</sub> O <sub>5</sub> /Cu			V <sub>2</sub> O <sub>5</sub>		
CaCO <sub>3</sub>			CaCO <sub>3</sub>		



\* Assays marked "e" are from lab gamma-ray readings

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-7      Inclinon      Bearing       
 Total depth 14.81      Map coord (T)       
 Collar elev. 5058.9      Map coord (P)       
 Area Mount Valley Dist Wash      P/W 1/4 Sec. 5-22 T 41 S R 15 E  
 Co., State     

Summary of log           OBS from 35 to 13.5 thick      ; SS color gy ; MS gy ; Chn. S

Claim       
 Date completed 28 June 65  
 Date logged 28 June 65  
 Logged by PLI

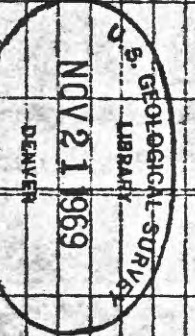
Rev	3-3
Ed	PLI

### LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
123.3	21.0	95	55	1.6	gy	VE-F / E-M	TR Mica, A Int TR wh clay	Py, Gn Min	N-TR	Pat Res in E-M sand locally Calc. s. and bedding in VE-F sand - Chn in 5ms, frags. Py and Chn	
125.5	3.2	80±	55	1.6	gy	E-M, Ss	S-AB, TR Mica, S-A	Frags, Py	80± S O Gy, Chn in frags, frags, friable at top	TR PK Exp. PC-5-A SO Gy; locally Calc. generally friable	
132.7	7.2	60±	CG	gy	C-CG, S	S-AB, E-M	A Gy-Gyn; Pffrags, S	Thick - thin lam; Base Res.			
133.2	0.5	60±	SS	1.6	gy	VE-F, S-M	A Int wh clay, A Mica	Thin lam; Top Res			
134.2	1.0	100	MS	gy	TR Py Xystals	S-A Mica	S-A Mica	Thin lam - unbedded; S			
148.1	13.9	99	MS	RBr	S-A Mica	N					

RM / RS

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray		Y-ray (%) or Field est					
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu		CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>
Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>



\* Assays marked "e" are from lab gamma-ray readings

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 0 W - 8 Bearing 1  
 Inclination 0  
 Total depth 136.0  
 Collar elev. 2049.5 T 1 P  
 Area Alto Wash

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. 2-1 T. 41S R. 15E  
 Co., State Martinez Co., Utah

Claim \_\_\_\_\_  
 Date completed 5 July 53  
 Date logged 5 July 53  
 Logged by PCF

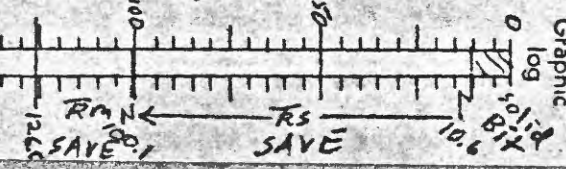
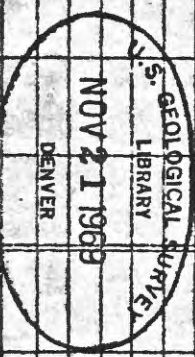
Rev	5/7/53
ED	5/12/53

Summary of log \_\_\_\_\_ ; OBSS from 0.0 to 100 thick 100 ; SS color Gy ; MS Gy ; Chn. S-A

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0		10.6	10.6	—							
10.6		21.3	10.7	94	SS	Gy-LGy	VE-F	A Micr. TR lim. Py. S-A Int wh. clay	S	20% Gy Int shd	SOLID BIT S-A Int wh. Clays. Inclined bedding; s. Pyrite. low, gone - so contour. faults; VS SSG A between 12.0, 12.6 locally S Calc; Jarosite (?) in Gy. Thin inclined beddy 60%± SSG in CG; 95%± SSG in SS. Lim. most A in SS N-S Calc; lim. in specks; bedding indistinct; 90%± SSG thin incl. bedding; 80-90% SSG, most A in middle of unit. lim. in specks
20.6		—	—	—							
30.6		30.6	9.3	100	CHSS/LGy, LBR	E-CG/ SS specks	E-M	S Jarosite (?) S-A lim. specks A Int wh. clay	VS	S Gy P	
40.6		—	—	—							
50.6		—	—	—							
60.0		35.7	5.1	100	SS	LBR Gy	VE-F SM	S-A lim. TR O.P. S-A Int wh. clay	N	VS Gy E Gyr N-S Calc; lim. in specks; bedding indistinct; 90%± SSG thin incl. bedding; 80-90% SSG, most A in middle of unit. lim. in specks	
70.6		40.6	4.9	100	SS	LBR Gy	M, S-E	A Int wh. clay S-A lim. TR O.P.	N		
80.0		—	—	—							
90.0		50.6	10.0	5%	SS	LBR Gy	VE-F	S-A Micr. lim. A Int wh. clay	N	S Gy MS P	
100.0		—	—	—							
105.0		55.8	5.2	100	CG						
115.0		59.8	4.0	95	SS	L Gy	VE-M	TR lim. Musc. B. Jarosite (?) S Musc. TR Py	S	VS Gy-GNG Int shd 80-90%± SSG, most A w/out MS 20% MS / 5% Py. S. A incl. away thin bed / VS incl. away bedding.	
126.0		65.0	5.2	95	SS	L Gy	E-W/E	A Int wh. clay TR lim	S		
136.0		—	—	—							

Sample	Thick	U3O8 *	V2O5/Cu	CaCO3	Base	Sample	Thick	U3O8 *	V2O5/Cu	CaCO3	Base	Interval	Thick	% U3O8	Base	Thick	U3O8	V2O5	

**BARREIN**



Assay marked "a" from lab gamma-ray readings

OPG 5348 11

Hole No. 0 W - 8

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

D-11-hole No. OW-8 Bearing ( )  
 Inclination 126.0  
 Total depth 126.0  
 Collar elev. 5200.5 T 1 P 1  
 Area Alto Wash.

Map coord (T) 445  
 Map coord (P) R 14-5  
 Sec. 2-1  
 Co., State Denver Co. Colo.

Claim ---  
 Date completed 5<sup>th</sup> July 55  
 Date logged 5<sup>th</sup> July 55  
 Logged by PCE

Rev	118	122-51
Ed		

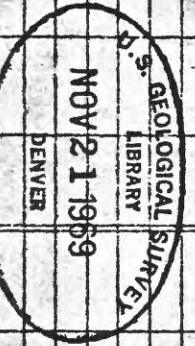
Summary of log ---; OBSS from 2.0 to 10.0 thick 10.0; SS color Gy; MS Gy; Cbn. S-A

DRILL LOG

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Cbn	MS in SS	Remarks
		66.9	1.9	95	SS	Lgy	EV/E	SMusc+TRM By A Int Wh Clay	S	Gy-GyGm, Int-fms, lrbd	Unbedded 3/4 wavy int bed- ding? 3% MS / 15% MS
		68.9	1.9	96	SS	Lgy/Lgy	VE-F	TRM, SMica, S-A Int wh clay	TR		Calc/s calc, s ind bedding 90-90% SOG mist 4 in bottom 1/3-By in lower 1/3
		76.2	7.4	96	SS	Lgy	M-CG/S	S AP, TRM, Int wh clay	A	S Gyon, Int P	Speathly Calc, S in clay Clay By A int base; E ss in part 1/4 in. 70% ± SOG largely in C ss; S bedding
		79.9	3.7	100	SS	Lgy	VE-F, S	S Mica, S-A	N	S, GyGm, frag	N-S Calc, N bedding, 90% ± SOG. Ore, Calc ST P
		86.5	6.6	78	SS-CG	Lgy	E-CG	A Int wh clay S Py, TR Mica	S-A	S, Gy-Gyon, Int P	Calc: N, Bedding- 60% ± SOG. Ore about 5% MS (Stib) P Thick bed - thin lamy s ripple lamy Calc
		94.5	8.0	85	SS/MS/SS-Lgy	Lgy	VE-F	A Mica, Int wh clay, TR OP	A	Gy, Int wh S	90% ± SOG, Thin-thick bed- ded; Base ss
		100.12	5.6	100	SS	Lgy	VE-F	A Mica, Int wh clay	N	Gy, Int S	ded; Base ss
		100.6	0.6	92	SS/MS/Lgy	Lgy	VE	A Mica, Calc	N	Gy & rhd	Gyp on part frass; Ripple base; top frass
		126.0	25.4	85	MS	RBR	VE	A Mica	N		S thin; VE Gy Calc ss, GyGm MS, Unbedded - thin Ripple lamy

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray			Field est			
	U3O8	V2O5	Cu		CaCO3	U3O8	V2O5		CaCO3	Base	Thick		% U3O8	Base	Thick
Thick															



BARREREN

\* Assays marked "a" are from lab gamma-ray readings

CPO 3150-41

Hole No. OW-8

Graphic log





**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 0111-9 (1 My 1)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 2040  
Collar elev. 5025.8 T \_\_\_\_\_ P \_\_\_\_\_  
Area Ute Wash

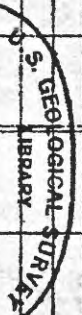
Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-1 T. 24 S. R. 15 E.  
Co., State Northern Colo. A-117

Claim \_\_\_\_\_  
Date completed 10 July 53  
Date logged 10 July 53  
Logged by PCE  
Summary of log \_\_\_\_\_ OBS from 129 to 182 thick 5' : SS color 1 Gy : MS Gy : Chn. N-A

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
1440	55'	146.5	2.3	100	SS	Lgy	VE	Musc. TR Py.	TR	N	A 50G; S Calc; N Bedding
1445	42	149.9	3.6	100	SS	Lgy	VE-F; S	A Int wh clay	S	N	A 50G; Thin bedded; Gradation at below
1540	89	151.2	1.8	93	SS	Lgy	VE-C	TR Py, Musc	Int		Calc; A 50G; VE Fibd layers; Chn; Int; Fibd.
1740	69	166.0	14.3	90	SS	Lgy	VE-M; S-M	A Int wh clay	TR	N	TR Py; A Chn at base; 160.1- 160.4 w/ A Py, Calc & above below Chn zones; S Calc; VS. Bedding; A 50G.
1840	71	162.0	0.4	98	MS	Gy	ST-VE	Musc.	N	-	S. 20' thick ss; Thin lens Contacted Bedding; Ripple lent.
1870	49	175.4	8.4	90	SS	Lgy	VE-F	A Int wh clay	TR		Locally Calc; A 50G; VS Bedding
1940	10.0	172.3	1.9	70	SS	Lgy	VE-F	Musc. TR Py	Int		Locally Calc; A 50G; waxy Bedding w/ Chn fins
2040	127.6	179.1	1.8	70	SS	Lgy	VE-E	Musc, S-A Py	Fms		Calc; A 50G; VS Bedding
		181.9	2.8	70	SS	Lgy	VE-N, S, C, P	A Int wh clay Musc Musc	N		Chn; Fms; Int; Calc; A 50G; Sed Breccia in part; A Contorted Bedding; Base Ks

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est				
Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>



\* Assays marked "e" are from lab gamma-ray readings

Rev	H-1
Ed	4-27-53

Graphic log

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. DW-9 ( Nx 1 )  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 204.0  
Collar elev. 5703.8 T \_\_\_\_\_ P \_\_\_\_\_  
Area Delta Wash

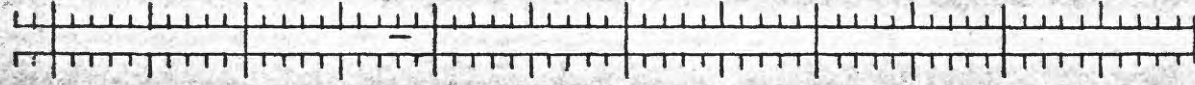
Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. S-1 T. 24S R. 13E  
Co., State Nevada Co.

Claim \_\_\_\_\_  
Date completed 10 July 53  
Date logged 10 July 53  
Logged by PCF  
Graphic log \_\_\_\_\_

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	Y-ray		
												U3O8 *	V2O5KCu	CaCO3
		183.4	1.5	70	MS gy-gyln	ST	A Mica	N	N	N	S VE sandy. Thin lam - unbedded - Top 3m			
		204.0	206	100	MS	RBR	ST-VE	A Mica	N	-	5' b'd VE ss. gyln. MS. Thin bedded. Part fine w/ Calc coating 2 187-189'			

U.S. GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER



\*Assays marked "e" are from lab gamma-ray readings

Rev UIC 12-7-58  
Ed \_\_\_\_\_

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-10 Bearing ( )  
 Inclination —  
 Total depth 86.0  
 Collar elev. 5137.1 T — P —  
 Area Ojeda Wash

Map coord (T) —  
 Map coord (P) —  
 Sec. C-0 T 905 R. 100E  
 Co., State Navajo Co.

Claim —  
 Date completed 8 July 1955  
 Date logged 8 July 55  
 Logged by RCF  
 OBS from 10 to 66 thick 5.6 ; SS color Gy - Br Gy ; MS Gy ; Cbn. VS

Rev	1-2
Ed	

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	5.1	10.0	10.0	—	—	—	—	—	—	—	—
10.0	5.1	26.0	16.0	71	SS	L Br Gy	VF	S. lim. S. mass A Int. wh. clay	TR	N	Solid Br. t. No. Co. se locally Calc. 90% & 70% ± 50% Clay Int
20.0	6.3	24.0	3.0	33	MS	Gy	ST, VF	TR Jarosite (2) lim. S. mica	N	N	S. V. sand; thin lens
30.0	7.6	32.5	3.5	80	SS	L Br Gy	F	S-A Musc. lim A Int wh. clay	N	N	N Bedding; S Calc; A 50% N Bedding; S Calc; A 50%
40.0	8.5	33.7	1.2	80	SS	L Br	F	S-A Musc. A. lim Int wh. clay	N	N	N Bedding; S Calc; A 50%
50.0	7.5	34.5	0.8	80	SS	L Y Br	VF	S-A lim	N	N	N Bedding; A 50% TR Jarosite (2); thin sil bedding; S-A 50%
60.0	4.0	35.8	1.3	80	SS	L Gy	VF	A mica, Int wh. clay	N	N	S-Gy - Br Int. form holding; S-A 50%
70.0	6.2	47.2	11.4	92	SS	L Br - Gy	M-C, SE V/GM - G	Alim, specks, spots; S-A Int wh. clay; S. Mn	N	N	V Calc; particularly near base; locally friable; N Bedding; A 50%
80.0	9.9	58.5	11.3	75	SS	L Gy	F, S, M, G, K V - G	Slim spots	VS Int	VS, Gy, P	Denser; V Calc; S. Int; sem in part (?); ST, MS, P + z Qtzite P
86.0	63.4	60.1	0.6	75	Gg	Y Br	V - F S N	S-A lim; A Int wh. clay; mica	N	N	5; RB, P Rounded; Fe, Mn, S, P; N Bedding

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray		Field est
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu		CaCO <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>		CaCO <sub>3</sub>	Base	
Base	Thick			Base	Thick			Base	Thick		

U.S. GEOLOGICAL SURVEY  
LIBRARY

NOV 21 1969  
DENVER

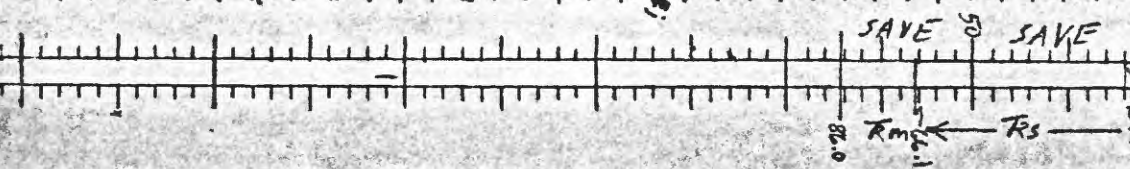
BARREN

\* Assays marked "e" are from lab gamma-ray readings

GPO 819641

Hole No. OW-10

Graphic log



GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-10 Bearing 1  
 Inclination —  
 Total depth 26.0  
 Collar elev. — T — P —  
 Area Aljeto Wash  
 Summary of log — ; OBSS from 10 to 6.5 thick 5.5 ; SS color Gy - Br Gy ; MS Gy ; Chn. VS

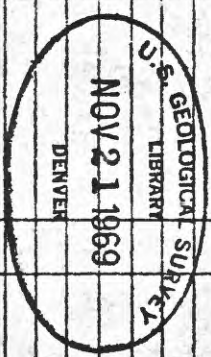
Map coord (T) —  
 Map coord (P) —  
 Sec. 6-0 T. 44 S R. 15 E  
 Co., State Navajo Co., Ariz.

Claim —  
 Date completed 8 JULY 55  
 Date logged 8 JULY 55  
 Logged by REITZ

Rev	HLK	1-23-56
Ed		

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		66.1	6.0	75	SS/gy	LGy	VE/CG	lim. A Int wh clay & mica	VS	MS: gy, gm Gms in CG	Calc in middle; S Bedding Base RS
		68.2	2.1	98	MS	Gy/Gm	VE	S Py; Mica	N		S VE sand in dikes at top; Py in dikes; N Bed- ding; silty; Top 3 in thin; lower N Bedding; S silted Gy/Gm MS, VE sand
		86.0	17.8	99	MS	RBR.	ST, VE	AMica	N		Samples for thin section; A 519-52.0 B - 533-53.5



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray		Y-ray (%) or Field est	
	U3Og *	V2O5	Cu		CaCO3	Base	Thick	U3Og *	V2O5	CaCO3	Base	Thick	U3Og
Base	Thick												

\* Assays marked "e" are from lab gamma-ray readings

CGO 1356 41

Hole No. OW-10

Graphic log

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-11 ( )  
 Inclination 103.0 Bearing ---  
 Total depth 103.0  
 Collar elev. 7733.2 T --- P ---  
 Area Olato Wash

Map coord (T) ---  
 Map coord (P) ---  
 Sec. C-0 T 445 R. 157  
 Co., State New Mexico

Claim ---  
 Date completed 10 July 55  
 Date logged 10 July 55  
 Logged by RCF

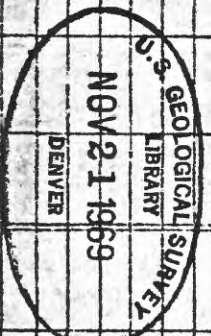
Graphic log  
 1-2  
 103.0  
 103.0

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	10.0	10.0	10.0	---	---	LYa Br	VE-M	A Int wk clay	N	Gy S, P	Solid Bit, No Cores!
10.0	18.3	18.3	8.3	48	SS	LYa Br	VE-M	lim. fine silt	N	Gy S, P	locally S Calc. A SOG;
20.0	35.3	17.0	17.0	92	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	Bedding indistinct
35.0	40.2	49	49	98	SS	LYa Br	VE-M	lim. Mn spots	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.
42.0	41.4	12	12	98	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	lim. Mn spots
52.0	42.1	0.7	0.7	98	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.
62.0	42.9	0.8	0.8	100	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.
72.0	43.1	0.2	0.2	100	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.
85.0	45.0	1.9	1.9	100	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.
95.0	61.0	16.0	16.0	100	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.
103.0	64.6	3.6	3.6	100	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.
93.0	65.2	0.6	0.6	100	SS	LYa Br	VE-M	A Int wk clay	N	Gy S, P	5 Musc. Clay, Swais, Int. Calc.

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray		Y-ray (%) or		Field est
	U3O8	V2O5/Cu	CaCO3		U3O8	V2O5/Cu	CaCO3	Base	Thick	% U3O8	Base	Thick	U3O8	
Base	Thick			Base	Thick									

\* Assays marked "e" are from lab gamma-ray readings



PREPARED

GPO 5350 41

Hole No. OW-11

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. QW-11 ( )  
 Inclination — Bearing —  
 Total depth 103.0  
 Collar elev. — T — P —  
 Area Ogden Wash.

Map coord (T) —  
 Map coord (P) —  
 Sec. — T 24 R 15  
 Co., State Utah

Claim —  
 Date completed 10 July 53  
 Date logged 10 July 53  
 Logged by RCF

Rev	Ed
114	1-2258

Summary of log —; OBSS from 10 to 85 thick 75; SS color gy - blue; MScy gy; Cbn. vs - N

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	Y-ray	
												Base	Thick
74.6			9.4	100	SS	LBrGy	E-M M-CG	limy, A Int wh clay	N	S Gy P	A SDGy. Grable. N Bedding lim in specks		
75.0			0.4	98	SS	LBrGy	VE	Alum. Mica Int wh clay	N	N	S. Calc. A SDGy. N Bedding		
76.0			1.0	98	MS	GyGn	E	A Mica	N	—	Thin lam. Sandy et base		
84.6			8.6	89	SS	LBrGy	VE-E/ E-M	lim specks, mica A Int wh clay	VS	N	Chy. thin, M-sc near base; S bedding; A SDGy. Base. TSS		
86.1			1.5	99	MS	Gy-gyGn	VE-ST	Mica. A Py Xystals	N	—	VE ss. M dikes. Thin lam. Top rim		
103.0			16.9	87	MS	RBR	ST VE	A Mica	N	—	S thbd Gy Gn MS, VE SS; Thin lam. to wh bedded; S Ripple lam.		
											Sample for section taken between 84.6 - 84.9.		

S. GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER

Graphic log

\*Assays marked "a" are from lab gamma-ray readings

DPG 8350 41

Scale No. QW-11

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. OW-12 Bearing 1  
 Inclination ---  
 Total depth 113.4  
 Collar elev. 5132.1 T 1 P  
 Area Alto Wash

Map coord (T) ---  
 Map coord (P) ---  
 Sec. C-0 T. 44S R. 12E  
 Co. State Nevada CO NV

Claim ---  
 Date completed 10 July 55  
 Date logged 10 July 55  
 Logged by PCF

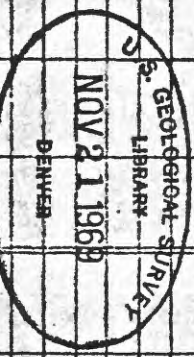
Rev	Ed
1-2	

Graphic log

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	10.0	10.0	10.0	---	---	---	---	---	---	---	---
10.0	14.2	14.2	4.2	92	SS	Lgy-Lyx	E-MSS	Alim Int wh	N	N	Solid bit No. CoCo
20.0	---	---	---	---	---	---	---	---	---	---	5 SOG; N Bedding; locally
30.0	23.8	23.8	6.6	90	SS	LBrGy	F	Wh. clay	N	N	Calcs; limy; S.F. heavy
35.0	48.5	48.5	24.7	93	SS	LBrGy-Lgy	VE	Int wh clay	N	N	base
45.0	48.6	48.6	0.1	100	SS	Lgy	VE:SS	A Musc. lim	N	N	Thin-thick bedded
50.0	49.8	49.8	1.2	75	CG	Lgy-L	M-CG	A Int wh clays	S	S	A SOG
60.0	50.9	50.9	1.1	75	SS	LBrGy	SE	lim. jarosite (?)	N	N	TR Co. Min. A. M. in MS; Chn
65.0	60.8	60.8	9.9	95	SS	LBrGy-Lgy	VE	Musc. A. lim	N	N	Erags; VS to 20% thin wavy bedding
70.0	---	---	---	---	---	---	---	---	---	---	Int wh clay; friable; locally
80.0	---	---	---	---	---	---	---	---	---	---	Calcs; VS; fine bedding
90.0	---	---	---	---	---	---	---	---	---	---	Int wh clay; lim; in specks
100.0	---	---	---	---	---	---	---	---	---	---	spots; Mn stain below 5.6.6
103.5	---	---	---	---	---	---	---	---	---	---	VS lam; A SOG
111.4	---	---	---	---	---	---	---	---	---	---	VE-E commonly M-E; lim
103.4	81.2	81.2	22.8	95	SS	LBrGy	VE-MSS	A. lim; Int wh	N	N	in specks; spots; Calc near
											base - locally friable; A SOG
											F. Cr. Xystals; 5-15 SOG; 5 SOG;
											A Int wh clay; N bedding
											Thin lens; thick fracs

Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval	Thick	Y-ray	Y-ray (%) or	Field est
		U3O8	V2O5	CaCO3			Base	U3O8	V2O5					



PARRIV

\* Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 01W-12 Bearing ( )  
 Inclination 113.4  
 Total depth 113.4  
 Collar elev. 1  
 Area Ofots Wash

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. C-0 T 4 R 13  
 Co., State Montana

Claim \_\_\_\_\_  
 Date completed 10 July 55  
 Date logged 10 July 55  
 Logged by PCF

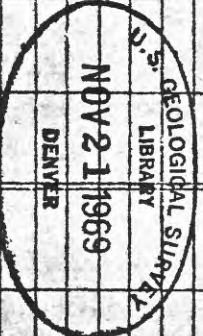
Rev Hik Ed \_\_\_\_\_  
 Date 1-27-58

Summary of log \_\_\_\_\_ OBS from 10 to 93 thickness SS SS color LBRgy - Fgy MSgy - Ggy; Chn. VS

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		67.7	2.2	97	SS	LBRgy	F	Int wh clay;	N	N	S Calc-A SOG; N Bedding
		71.2	3.5	98	SS	LBRgy	F, Sca	Int wh clay;	N	N	Mn Spots; Calc; A SOG;
		73.4	2.2	98	SS	LBRgy	M-VS	lim. specks	N	S gy; Int P	A Bedding
		77.9	4.5	92	SS	LBRgy - LBR	F-E-M, Sca	Spots; MS; Int wh clay	N	N	A Int wh clay; Spottily Calc; triable; SAG; N Bedding Calc; A SOG in F SS
		78.8	1.9	4	AG	Gy	M-CG	VA Int wh clay	S	S gy; fms	Mica on MS; Ry at base; variable
		86.1	6.3	90	SS	Lgy	VE	vs mica; Py	VS	S-A; Gy; Int;	Chn; Int. Fks; thin lam.
		91.1	5.0	90	SS	LBRgy	VE-F	wh clay	VS	itbd VS	to unbedded
		93.3	2.2	90	SS	Lgy	VE-M	lim. specks	VS	S gy; Int; itbd	A SOG; S Calc; N Bedding
		94.7	1.4	90	MS	Gy-GyGm	ST VE	Int wh clay	S	S gy; Int; itbd	Chn on bedding; SOG; Spotty Calc; thin incl Bedding; Base RS
		113.4	18.7	95	MS	RBR	VE ST	AMica	N	N	VS VE sandy thin lam; top fine S itbd LBR VE sand - S GyGm itbd & not MS; thin & ripple lam. - unbedded; S laterally Calc

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray	Y-ray (%) or Field est						
	U3O8	V2O5	Cu		CaCO3	U3O8	V2O5	CaCO3	Base		Thick	Base	Thick	U3O8	V2O5		
Thick																	



\*Assays marked "e" are from lab gamma-ray readings

230 3350 41

Hole No 01W-12

Graphic log



**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 0112-13 (N<sub>1</sub>)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 26.0  
Collar elev. 5726.5 T \_\_\_\_\_ P \_\_\_\_\_  
Area Oleto Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 44 S R. 15 E  
Co. State Nevada Co., Ariz

Claim \_\_\_\_\_  
Date completed 24 July 53  
Date logged 11 July 53  
Logged by PCF

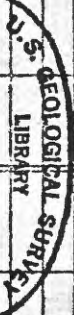
Rev 116  
Ed \_\_\_\_\_

Graphic log

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	10.0	10.0	10.0	-	-	Gray	ST-M	A Mica	TR	-	Solid BT, No Core
10.0	26.1	16.1	4.7	100	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	S slick fracs; sandy in base!
26.0	26.3	0.2	100	55	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	0.1' Thin Ripple lam.
36.0	29.0	2.7	17	55	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	Thin Bedded; Base TR
46.0	46.4	17.4	94	55	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	5.0% clay; soft; top TR
56.0	62.4	18.0	78	55	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	Fracs w/ lim, Mn coating at
66.0	76.0	13.6	45	55	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	43.3'; Top 10' E-V Bedding
76.0	76.0	13.6	45	55	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	A 50% Calc, mostly near base; Top 4' E-V lim spots/spots; N Bedding
86.0	76.0	13.6	45	55	SS	Light	VE	A Mica, S YU	TR	5.0% clay fne	Calc; locally friable; N Bedding

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray		Y-ray (%e) or		Field est
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu		CaCO <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>		CaCO <sub>3</sub>	Base	Thick	Base	
Base	Thick			Thick									



**BARREN**



Multiple marked "e" are from lab gamma-ray readings

GPO 837281

Hole No. 0112-13

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. CU1-13A (X)  
 Inclination Vertical Bearing \_\_\_\_\_  
 Total depth 109.0  
 Collar elev. 5185.0 T \_\_\_\_\_ P \_\_\_\_\_  
 Area Diablo Wash

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. C-D T. 44 S R. 15 E  
 Co., State Montezuma Co., Ariz.

Claim \_\_\_\_\_  
 Date completed 27 July 55  
 Date logged 3 Aug 55  
 Logged by PCF

Rev	File	Ed

Graphic log

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	506.10	35.10	38.0	-	-						
35.0	817	46.9	11.9	87	SS	lgy	VE	A Tot-Wh. Clay: S TR	TR	VS: gy: gy: fm	Solid 137, No Core.
45.0	84	53.7	6.8	100	SS	lgy	VE-E, VS	A Tot-Wh. Clay: S TR	N	N	lim. spots, specks. Calc: A SOG.
51.0	91	-	-	-	-						Bedding: gradational
63.5	95	62.0	8.3	89	SS	lgy	VE-E	A Tot-Wh. Clay: S TR	N	N	above below
73.5	80	-	-	-	-						N-CG zone at 51.1. lim. specks. Calc: A SOG. N Bedding
77.5	80	-	-	-	-						
85.5	95	72.4	10.4	100	SS	lgy	E/E-CG	A Tot-Wh. Clay: S TR	TR	S: gy: P: Calc	S. lim. spots. Calc: SOG. N Bedding
95.0	41	73.5	1.1	55	SS	lgy	VE-E	A Tot-Wh. Clay: S TR	N	N	Bedding
99.5	40	-	-	-	-						A Tot-Wh. Clay: Calc: SOG. S Bedding
109.0	95-98	76.2	2.7	63	SS	lgy	E-C/H	A Tot-Wh. Clay: S TR	N	N	Calc: SOG. N Bedding
		78.1	1.9	63	MS	gy	ST-E	A Mic. S Py	A	A	Bedding
		88.5	10.4	100	SS	lgy	E-N	A Tot-Wh. Clay: S TR	S	S	Calc: SOG. S Bedding
		92.7	4.2	100	SS	lgy	VE	A Tot-Wh. Clay: S TR	S	S	Calc: SOG. S Bedding

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray	Y-ray (%) or			
	U3O8	V2O5	CaCO3		Base	Thick	U3O8	Base	Thick		U3O8	V2O5	Field est	
Base	Thick	U3O8	V2O5	CaCO3	Base	Thick	U3O8	V2O5	CaCO3	Base	Thick	U3O8	V2O5	Field est

U.S. GEOLOGICAL SURVEY  
LIBRARY

NOV 21 1969

BARRDEN

\* Assays marked "e" are from lab gamma-ray readings

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 060-13A (NK)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 107.0  
Collar elev. 5125.0 T \_\_\_\_\_ P \_\_\_\_\_  
Area Ofajo Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-1 T 41S R 15E  
Co., State New Mexico

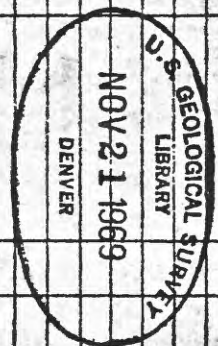
Claim \_\_\_\_\_  
Date completed 27 July 55  
Date logged 3 Aug 55  
Logged by PCF

Rev HLK A-27-82  
Ed \_\_\_\_\_

Summary of log \_\_\_\_\_; OBSS from 35' to 93' thick 53'; SS color gray-blue; MS gy; Cbn. N-S

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		<u>94.1</u>	<u>14</u>	<u>100</u>	<u>MS</u>	<u>gy</u>	<u>ST</u>	<u>A mica</u>	<u>N</u>	<u>-</u>	<u>Thin lumpy top Rem</u>
		<u>109.0</u>	<u>149</u>	<u>94</u>	<u>MS</u>	<u>RBR</u>	<u>ST</u>	<u>A mica</u>	<u>N</u>	<u>-</u>	<u>S. 1/2 gy. br. N-S. L gy calc</u>
											<u>ST thin, ripple lens</u>



Sample	Lab assay (%)			Sample		Lab assay (%)			Interval		Y-ray		Y-ray (%) or Field est		
	U3O8 *	V2O5/Cu	CaCO3	Base	Thick	U3O8 *	V2O5/Cu	CaCO3	Base	Thick	%e U3O8	Base	Thick	U3O8	V2O5

Graphic log

\* Assays marked "e" are from lab gamma-ray readings

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. DR-14 (N<sub>1</sub>)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 116.0  
Collar elev. 5126.1 T \_\_\_\_\_ P \_\_\_\_\_  
Area Alto Vista

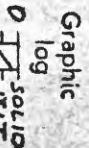
Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 44 S R. 11 E  
Co., State Nevada Co. Clark

Claim \_\_\_\_\_  
Date completed 13 July 55  
Date logged 21 July 55  
Logged by DCE

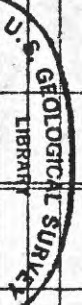
Summary of log \_\_\_\_\_ ; OBSS from 24 to 95 thick 21 ; SS color Gy-KuBr MS Gy ; Chn. N-A

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	50.10	10.0	10.0	-	-	-	-	-	-	-	Solid bit
10.0	8.17	11.0	1.0	8.6	MS	Gy	ST	Mica	N	-	Thin laminae
20.0	8.6	17.7	6.7	8.6	ST	Gy-L	ST	A. Micaceous	S	-	10% thin Gy MS. Thin ripple laminae. S. Mn staining
30.0	10.0	23.5	5.8	9.3	MS/ST	KuBr	ST	A. Mn. lin	S	-	Ripple laminae. Thin bedded. Base R
40.0	10.2	-	-	-	-	-	-	staining, Mn	Chn	-	-
50.0	9.8	24.6	1.1	10.0	SS	Gy-LBr	VE-F	A. Int. thin clay	N	S. Gy. thin bedded	VC. Calc. A. 50% S. Mica. Thin bedded. Bedding - top 75%
60.0	10.0	28.2	3.6	10.0	SS	LBr Gy	VE	A. Int. thin clay	N	N	Calc. A. 50%. N. Bedding
70.0	10.0	29.7	1.5	10.0	SS	LBr Gy	E-N. S.	A. Int. thin clay	S	S. Gy. calc.	S. Mica. TR. Tarnosite (?) Calc.
80.0	9.5	-	-	-	-	-	-	lin. specks	MS	Calc. ST. P	A. 50%. N. Bedding
90.0	9.3	38.4	8.7	10.0	SS	LBr Gy	F	A. Int. thin clay	N	N	lin. specks, spots; Calc. A
100.0	10.0	66.0	27.6	10.0	SS	LBr Gy	VE, S. P.	A. Int. thin clay	N	S. Gy. thin bedded	50%. N. Bedding
110.0	8.5	-	-	-	-	-	-	lin. Mn. specks	Chn	3401-40.55	lin. Mn in specks; Calc. A. 50%
116.0	100.9	73.8	7.8	10.0	SS	LBr Gy	E-N. S. C.	A. Int. thin clay	TR	N	TR. Tarnosite (?) lin. specks; Mn staining. Calc. A. 50%. N. Bedding; frac. by lin. 68.3-68.8
106.0	100.9	-	-	-	-	-	-	lin. specks	Int	-	A. Int. thin clay; spottily Calc. 50%. Bedding indistinct. Gradational above.



Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)				
		U3O8	V2O5	Ku			CaCO3	Base	Thick	U3O8	V2O5
Base	Thick	U3O8	V2O5	Ku	CaCO3	Base	Thick	U3O8	V2O5	Ku	CaCO3



**BARRRETT**

\* Assays marked "e" are from lab gamma-ray readings

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill hole No. D-11-14 (No.)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 116.0  
Collar elev. 5126.1 T \_\_\_\_\_ P \_\_\_\_\_  
Area Dip to West

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 44 S. R. 15 E.  
Co., State Nevada Carson

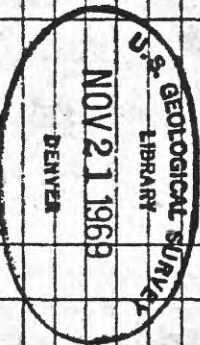
Claim \_\_\_\_\_  
Date completed 13 July 53  
Date logged 21 July 53  
Logged by PCE  
Summary of log \_\_\_\_\_ ; OBSS from 24 to 95 thick 71 ; SS color Grey-White; MS Grey ; Cbn A-A

Rev	4/16
Ed	1-1-58

DRILL LOG

LITHOLOGIC LOG

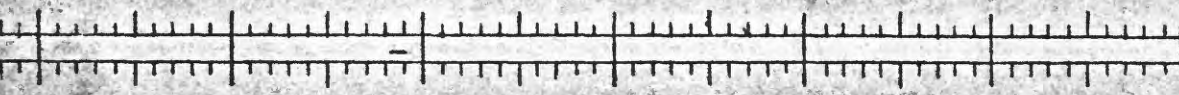
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	
											Base	Thick
		F25	09	93	SS	Light grey	MS		A	N	Calc. 80% - med bedding	
		89.7	2.2	93	Co/SS	Light grey	F-C/	5 line striae	A	N	A Int dk clay - spotted Calc SA 50%; Bedding indistinct	
						Light grey	F-M	striae 70% by	A	N	D 1' Cbk sm 0.2' below top W Cole above, below sm Calc 50%; Thin med bed- ding. Base F2	
						Light grey	F-1	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-2	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-3	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-4	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-5	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-6	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-7	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-8	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-9	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-10	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-11	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-12	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-13	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-14	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-15	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-16	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-17	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-18	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-19	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-20	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-21	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-22	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-23	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-24	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-25	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-26	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-27	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-28	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-29	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-30	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-31	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-32	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-33	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-34	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	
						Light grey	F-35	Top of calc. clay.	A	N	5 Top. Gy. MS Gy. 50%; Gy. 10%; MS MS	



Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval			Y-ray		Y-ray (%) or		Field est	
		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O			CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	

\*Assays marked "e" are from lab gamma-ray readings

GPO 431301 Hole No. D-11-14



U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill hole No. 001-15 (N<sub>x</sub>)  
 Inclination Vertical Bearing \_\_\_\_\_  
 Total depth 132.5'  
 Collar elev. 5739.6 T \_\_\_\_\_ P \_\_\_\_\_  
 Area Alamo Wash

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. C-D T. 44S R. 15E  
 Co., State Montezuma Co., Ariz

Claim \_\_\_\_\_  
 Date completed 13 July 53  
 Date logged 19 July 53  
 Logged by PCF

Rev	1/1
Ed	

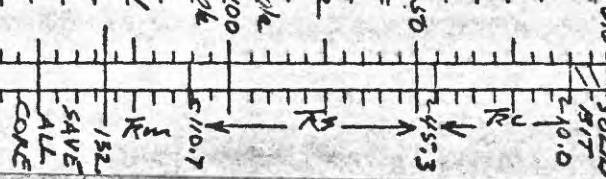
Summary of log \_\_\_\_\_; OBSS from 45' to 111' thick 66'; SS color lgy-l. yellow MS gy; Cbn. S

DRILL LOG

LITHOLOGIC LOG

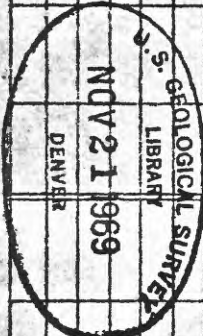
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	50LD	10.0	100	—	—						
10.0	BIT	14.6	4.6	43	SS	lgy-lbr. F/M-C	A lim. thin, fine gr. clay		VS	5-fgy. sandy galls	Solid BT, No Core
20.0	3.7	15.4	0.8	100	SS	lgy-lbr	F		N		MS. S SOG. S bedding; Calc. 50
25.5	6.7	—	—	—	—						W Calc. VS SOG; TR Fy. Massive
35.5	4.3	31.0	5.6	67	ST/MS	lbr-ly	ST	VA Mic. A lim	S-A	—	lim on fracs on ST; Thin Ripple lam - unbedded.
45.5	9.7	—	—	—	—						fracs; lim on fracs; Thin Ripple lam - unbedded
55.5	9.0	33.5	2.0	64	ST	lbr-ly	ST	VA Mic. A lim	S-A	—	fracs; lim on fracs; Thin Ripple lam - unbedded
65.5	7.1	—	—	—	—						lim - unbedded
72.5	9.3	36.2	1.2	63	MS	ly	ST	lim stain	N	—	slick fracs; Thin Ripple lam w/ slick ST
82.5	10.0	38.5	1.8	63	ST	lbr-ly	ST	VA Mic. A lim	S-A	—	fracs w/ lim; Thin Ripple lam - N bedding
92.5	9.0	39.0	0.5	63	MS	ly	ST	lim stain	N	—	slick fracs; Thin Ripple lam w/ slick ST
102.5	9.8	—	—	—	—						lim on fracs - Thin Ripple lam - N bedding; base R <sub>c</sub>
112.5	9.3	45.3	6.3	63	ST/MS	lbr-ly	ST	VA Mic. A lim	S-A	—	lim on fracs - Thin Ripple lam - N bedding; base R <sub>c</sub>
122.5	10.0	—	—	—	—						S Calc. A SOG; Thin Bedded
132.5	105.6	48.4	3.5	94	SS	lgy-lbr	VE/E	S/A lim; ST	S	N	TR Tarcosito (R)

Graphic log



Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or Field est
Base	U <sub>3</sub> O <sub>8</sub>	Thick	U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>

BARRETT



\* Assays marked "e" are from lab gamma-ray readings

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

2-3  
Rev HK A-27-5E  
Ed

Drill-hole No. 001-15 (NX)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 157.5  
Collar elev. 5729.6 T \_\_\_\_\_ P \_\_\_\_\_  
Area Clay to Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 94 S. R. 15-E  
Co., State Nebraska Co., Lincoln

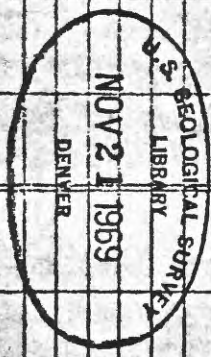
Clim \_\_\_\_\_  
Date completed 13 July 53  
Date logged 19 July 53  
Logged by PCE

Summary of log \_\_\_\_\_ OBS from 45 to 111 thick 66 : SS color dry - khaki MS Gry : Chn. S

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min s.	Chn	MS in SS	Remarks
		509	21	94	SS	LBrGy	VE-NE- M	kgls-A. lim. s. vs. mica	N	N	A Int. Wk. Clay - Calc. A SOG; N Thin incl Bedding
		555	46	94	SS	LBrGy	VE	Mica vs. lim	N	N	A Int. Wk. Clay - Calc. A SOG; N Bedding
		56.5	10	50	SS	LBrGy	E-C	sp. mica A Int. Wk. Clay	N	S. Gy - Y. Br. Calc. SOG; Thin Incl Bedding Int. Bed	
		576	11	95	MS	Gy	ST	A H. mica s. lim	N	N	S. Y. Br. - thin lam Calc. A SOG; A lim. specks in top 0.3' N Bedding
		70.7	13.1	71	SS	LBrGy	VE	A Int. Wk. Clay S. Mica vs. lim	N	N	S. Mica; Calc. A SOG; N Bed- ding - Gradational above
		82.3	11.6	93	SS	LBrGy	VE-Es	A lim. specks CLINE Thin Wk. Clay	N	N	VE - N in basal 0.4' w/ S. Mica staining - Calc. / S. Calc. - A SOG
		84.3	7.0	100	SS	LBrGy	VE-E	S. lim. specks	TR	N	A SOG; VE - O <sub>2</sub> Xstals; Frictals; N Bedding
		90.7	14	100	SS	LBrGy / BrGy - Y. Br	E-Cg	A lim. specks staining; A. Int. Wk. Clay	N	S. Gy; P	
		92.0	1.3	100	SS	Br Y. Br	E-C	A lim. specks Clay	N	N	S. Calc. A SOG; N Bedding
		92.5	0.5	100	Cg	LBrGy	E-Cg	A lim. specks Clay	N	Gy; P	A SOG; VE - O <sub>2</sub> Xstals; Frictals; N Bedding
		93.8	1.3	90	SS	Br Y. Br	E-C	A lim. specks Clay	N	N	S. Calc. A SOG; N Bedding
		94.4	0.6	90	MS	Gy	-	A. mica	TR	-	Chn. fks. Thin lam.

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%) or	Field est
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub> Cu	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub> Cu	CaCO <sub>3</sub>				
Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub> Cu	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>



\* Assays marked "e" are from lab gamma-ray readings

CPO 817281

Hole No. 001-15

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill hole No. 001-15 (N/A)

Inclination Vertical Bearing \_\_\_\_\_

Total depth 132.5

Map coord (T) \_\_\_\_\_

Collar elev. 5729.6 T \_\_\_\_\_ P \_\_\_\_\_

Sec. C-0 T. 44S R. 15E

Area Ojito Wash

Co., State Nevada Nev

Summary of log \_\_\_\_\_

OBS from 25 to 111 thick 66

SS color lgy - Yalt; MS gy; Chn S

Claim \_\_\_\_\_

Date completed 13 July 65

Date logged 18 July 65

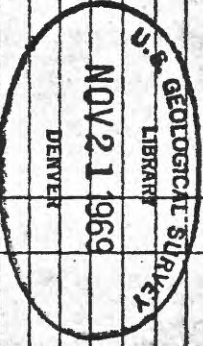
Logged by PCF

Rev	
Ed	

Graphic log

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks	Lab assay (%)			
												U3O8	V2O5	CaCO3	Base
		96.5	2.1	90	SS	lgy	W-F-M	Mica; A Int w/ clay; S Py Int	S	S; Gy; Int	Calc - V Calc; SOG; Grada - tional below; Centered bed- ding at base				
		101.3	4.8	90	SS-Og	lgy	M-Og	A Int w/ clay S Py Int	S	Gy; Gy; Int	Calc; A SOG; A Calc ST Agony; N Bedding				
		110.7	9.4	98	SS	lgy	W-F-M at base	A Int w/ clay TR Musc. Py Int	TR	MS; Gy; fins	Calc; A SOG; S Incl Bedding; Base F's				
		122.5	1.8	98	MS	gy	ST-VE	A mica; TR B at top	N	ST-VE SS in dikes; 1 bed ST- Tray; Ripple lam.					
		132.5	20.0	96	MS-ST	R/B	ST	A mica	N	-	Tray; Ripple lam; unbed- ded; S Incl Gy; MS; ST				



Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)							
		U3O8	V2O5	CaCO3			Base	Thick	U3O8	V2O5	CaCO3			

Gamma-ray readings

DPO 137151

Hole No. 001-15



GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. 041-16 (N<sub>1</sub>)  
Inclination Vertical Bearing  
Total depth 1057  
Collar elev. 5701.4 T 1 P  
Area Piata Wash

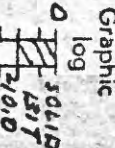
Map coord (T) 145  
Map coord (P) 15E  
Sec. C-0 T 44 S R 15E  
Co. State Nevada Co. Ariz

Claim \_\_\_\_\_  
Date completed 18 July 53 Rev 1-K  
Date logged 19 July 53 Ed 1-17-58  
Logged by PCF

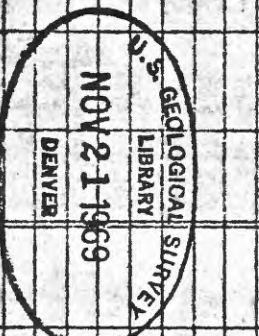
Summary of log : OBSS from 10 to 86 thick 72 : SS color dry - Br Gy; MS Gy - gray Chn. S

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	5010	10.0	10.0	-	-						
10.0	817	12.6	2.6	100	SS	L Br Gy	VE-F-S	A Int. thin clay, lim. s. mica	N	S. Gy: smg. P w/ mica	Solid Br; No Core S. drossite (?) - Cat. - A 50Gy - A incl. frags. S incl. Bedding - 50
20.0	570	13.9	1.3	100	SS	L Br Gy	F-N	A Int. thin clay lim. mica	N	Gy: w/ thin galls of mica	S. Cat. - A 50Gy - wavy incl Bedding
25.0	10.0	20.6	6.5	100	SS	L Br Gy	VE	A Int. thin clay, s lim. spots; Mn Spots, mica	N	VS. Gy: frags. galls of mica	Cal. mostly at base; A 50Gy; VS. Bedding
35.0	10.0	38.8	19.2	100	SS	L Br Gy	M-S/VE	A Int. thin clay; lim. mica; calc A 50Gy; s. mica	S	S. Gy: smg. galls of mica	M-C in top 0.6' w/ A lim. spots; 100 0.2' MS. split w/ top at 35.1'; S. Bedding; S. frags. near base; Gradational below, C sand most A near base; S 50Gy; thin - thick incl Bedding
45.0	6.2	45.0	5.2	100	SS	L Gy. S	M, S, EC	VA Int. thin clay; A lim. mica	N	N	
55.0	6.2	-	-	-	-						
65.0	10.0	-	-	-	-						
75.0	7.5	75.7	7.7	100	SS	L Br Gy	VE-F	A Int. thin clay; lim. mica; calc	N	S. Gy: smg. P of mica	80% / 10% / 10% SS; S 50Gy - Thin incl contorted Bedding; Gradational below 50Gy; Thin incl Bedding
85.0	9.6	95.7	7.1	92	SS	L Br Gy	VE-F	A Int. thin clay; lim. mica; calc thin spots; stains	N	S. Gy: smg. P of mica	50Gy; Thin incl Bedding 50Gy; Thin incl Bedding
95.0	9.6	95.7	0.8	92	SS	L Br Gy	N-VC	lim. mica; calc thin clay	N		
105.7	9.6	-	-	-	-						



Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est
Base	U3O8	Thick	V2O5, Cu, CaCO3	Base	U3O8	Base	Thick



BARREN

Drill hole No. QU-16 (N<sub>4</sub>W)

Inclination Vertical Bearing \_\_\_\_\_

Total depth 1857'

Collar elev. 5701.4 T \_\_\_\_\_ P \_\_\_\_\_

Area Ogden Wash

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Map coord (T) \_\_\_\_\_

Map coord (P) \_\_\_\_\_

Sec. C-0 T. 24S R. 16E

Co., State Newspaper Co., Ariz.

Claim \_\_\_\_\_

Date completed 18 July 55

Date logged 19 July 55

Logged by PCE

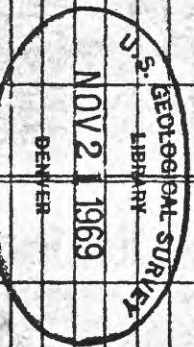
Rev	H1C
Ed	1-27-56

**DRILL LOG**

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access	Mint's.	Cbn	MS in SS	Remarks
		52.5	3.6	92	SS	LBr-Gy	W-Gy, S-Cg		Int. W. Clay	MS	St. Gy; Gng	Calc; most Calc. at base; A
		56.2	3.7	92	SS	LBr-Gy	W-Gy		Int. W. Clay	TR	N	5 Calc; A 50 Gy; N Bedding.
		59.9	3.7	95	SS/Cg	Lgy	W-M/E		Int. W. Clay	S	Gy; Gng; Frag	5 lim. hem. shaly; S/N Calc; 5 incl. Bedding; Cg friable
		70.9	11.0	98	SS	LBr-Gy	W-Gy, S-F		Int. W. Clay	N	Gy; Gng; Frag	lim. fine or 6.5-7; VS Calc; locally friable; 5 incl. Bedding
		82.3	11.4	100	Cl. SS	LBr-Gy	W-Cg		Int. W. Clay	A	Gy; P; S; Calc; S; P	Clay frags. Int. shaly; A Int. Clay; 7 1/4 - 7 1/2; A 1/2 incl. Cbn
		85.8	3.5	100	SS	LBr-Gy	W-E-M		Int. W. Clay	S	VS; Gy; Thud	lim. specks; staining; Calc; A 50 Gy; 5 incl. Bedding; Base RS
		87.5	1.7	96	MS.	Gy-Gy	ST-VE		Int. W. Clay	N	-	Thin limy; Gy ls; w/ A Py > 8.6 ft - 86.8; sample taken for section 286.7 - 86.8; ST-VE SS dikes at top
		105.7	18.2	96	MS	RBr	ST		Int. W. Clay	N	-	5 thick Gy; MS; L Gy Calc; ST; Thin; Argill. base

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%) or	Field est		
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>						
Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>



\* Assays marked "e" are from lab gamma-ray readings

Graphic log



NOTE:  
No log could be found (1969) for hole numbered OW-17.  
Number OW-17 could be a duplicate number for OW-4A.

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 04W-18 (1A4)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 131.0  
Collar elev. 5728.6 T \_\_\_\_\_ P \_\_\_\_\_  
Area Oleto Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 44S R. 13E  
Co., State Kearney Co., Ariz.

Claim \_\_\_\_\_  
Date completed 21 July 55  
Date logged 21 July 55  
Logged by PCF

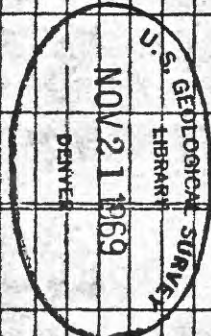
Rev	41K
Ed	1-27-56

**LITHOLOGIC LOG**

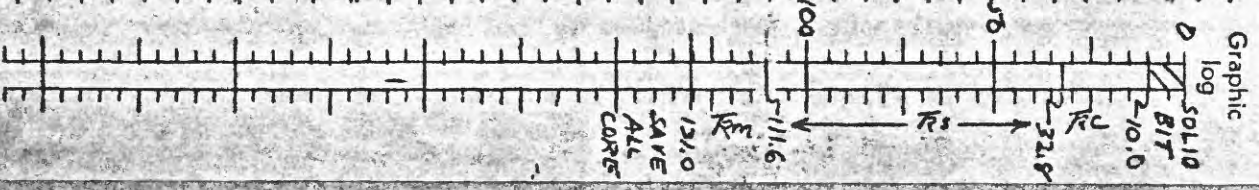
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min.s.	Cbn	MS in SS	Remarks
0.0	501/4 BIT	10.0	10.0	—	—	—	—	—	—	—	—
10.0	89	12.1	2.1	89	ST	Lgy	ST. S.	A Mic, Mn	N	20% 1/4bd	Solid Bit, No Core Calc. Thin incl lam.
20.0	6.0	—	—	—	—	—	—	—	—	—	—
26.0	99	13.2	1.1	89	ST	Lgy	ST	A Mic, Mn	N	—	N Bedding Thin lam - unbedded.
36.0	99	14.1	0.9	89	MS	Gy	ST	A Mic, Mn	N	—	N Bedding Thin lam
46.0	10.0	14.9	0.8	89	ST	Lgy	ST	A Mic, Mn	N	—	Thin lam
56.0	9.9	16.6	1.7	89	MS	Gy	ST	A Mic, Mn	N	—	Calc. Thin incl lam.
66.0	10.5	20.1	3.5	89	ST	Lgy	ST. S.	A Mic, Mn	N	20% 1/4bd	Calc. Thin incl lam.
73.0	7.1	—	—	—	—	—	—	—	—	—	—
83.0	9.6	20.7	0.6	100	MS	Gy	ST	A Mic	N	—	Thin lam - unbedded, s YvBr lim stain
93.0	10.0	21.7	1.0	100	ST	Lgy	ST. S.	A Mic, Mn	N	20% 3/4bd	Calc. Thin incl lam.
103.0	10.0	—	—	—	—	—	—	—	—	—	—
113.0	9.8	26.4	6.7	100	ST	Lgy-L	ST-VF	VA Mic, Mn	N	—	Thin incl, Ripple lam.
123.0	7.8	30.5	2.1	99	MS	Gy	—	A Mic, Mn	N	—	A Jarosite (?)
131.0	10.4	31.1	0.6	99	SS	LBT Gy	F-C	Int. clay	N	—	Calc. A 50g; N Bedding
141.0	11.9	31.4	0.3	99	MS	Gy	ST	A Mic, Mn	N	—	S Jarosite (?) - N Bedding
151.0	10.4	32.8	1.4	99	SS	LBT-Gy	F-M, S-C	A mic specks	N	—	S Bedding; Top Bs.
161.0	11.9	35.9	3.1	99	SS	LBT-Gy	VE-F	A lim specks	N	—	S Musc; Calc. A 50g; VS incl Bedding

Sample	Lab assay (%)	Sample		Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est			
		Base	Thick						Base	Thick	U3O8
Base	Thick	U3O8	V2O5	CaCO3	Base	Thick	% U3O8	Base	Thick	U3O8	V2O5

\* Assays marked "e" are from lab gamma-ray readings



**BARRETT**



GPS 57381

Hole No. 04W-18

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

2-3  
Rev HIK  
Ed 11-22-58

Drill-hole No. 022-18 (NY)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 131.0  
Collar elev. 5728.6 T \_\_\_\_\_ P \_\_\_\_\_  
Area Ogata Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 44S R. 15E  
Co., State Navajo Co., Arizona

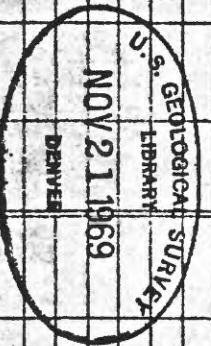
Claim \_\_\_\_\_  
Date completed 21 July 55  
Date logged 21 July 55  
Logged by RF

Summary of log \_\_\_\_\_ ; OBSS from 31 to 112 thick 51 ; SS color ky-LBgy; MS gy ; Chn. S

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		41.8	57	100	SS	LBrgy	E-CG/E	A lim. specks	N	S-A-N. Y. Br	Calc. A 50% Bedding in - distinct
		66.0	24.2	100	SS	VL Brgy	VE	5 lim. specks, mud	VS	N	A Turb. clay, A 50% N Bedding in specks/spots/shaly - Chn at base; CG from 78.9-88.5 - Calc. Bitted by solot CaCO <sub>3</sub>
		88.5	22.3	100	SS	ky Brgy	E/E-C	A Turb. clay	S	gy-frags in	at top; A 50% Bedding in - distinct
		101.2	12.9	100	SS	Y. Br	E-CG	S/A lim	frag	ky, Calc. ST.F	Calc. Bitted by solot CaCO <sub>3</sub>
					SS	LBrgy	E-N-MC	AC lim. specks	TR	Calc. ST.P	at top; A 50% Bedding in - distinct
					SS	Y. Br	S/E CG	A Turb. clay	Tot		
		102.6	1.4	100	SS	gy	E-C/E	A Turb. clay	A	A; Gy; Tot	Chn frags. Int. Calc. - 50% Thin incl Bedding
		103.7	1.1	99	SS	ky	VE	A P. S. Nic	S	ibd	Chn. Tot; TR P; Calc. N Bedding
		104.5	0.8	98	SS	ky	VE-E	Turb. clay; S	S	N	Chn. Tot. frags. V Calc. Gradational below
		105.0	0.5	98	CG	ky-gy	VE-E	Py. A Turb. clay	A	S; Gy; B Calc. N Bedding; V Calc.	
		105.4	0.4	98	SS	ky	VE	A Turb. clay	S	20% Gy; ibd	V Calc.; Ripple lam
		106.3	0.9	98	MS	gy		A Nic	N		Thin lam
		106.6	0.3	98	CG	ky-gy	VE-E	Py. A Turb. clay	A	S; Gy; P. Calc. N Bedding; V Calc.	

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%) or	Field est
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>				
Base	Thick			Base	Thick		Base	Thick			



\* Assays marked "e" are from lab gamma-ray readings

GPO 017311

Hole No. 022-18

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. DUY-1R (NX)

Inclination Vertical Bearing \_\_\_\_\_

Total depth 131.0

Collar elev. 5728.6 T \_\_\_\_\_ P \_\_\_\_\_

Area Quito Wash

Summary of log \_\_\_\_\_ OBS from 31 to 112 thick 31 : SS color lgy-lbgy; MS gy : Cbn. ss

Map coord (T) \_\_\_\_\_

Map coord (P) \_\_\_\_\_

Sec. C-0 T. 49 S. R. 15 E. Co., State Nebraska Co. Area

Claim \_\_\_\_\_

Date completed 21 July 55

Date logged 21 July 55

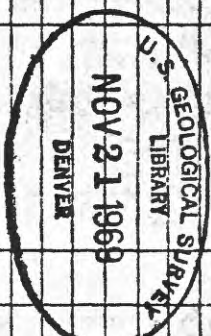
Logged by PCF

Rev HK  
Ed 1-27-58

3-3  
Graphic log

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		108.2	1.6	98	SS	l. gy.	VE-E.	TR Ry. s. mica	NA	N/S: gy. fins	N/S Bedding: Calc. A 50G
		111.6	3.4	98	SS	l. gy.	VE/VE-N	A Int with clay fins; S mica; TR Ry	S	S: gy. fins	VCalc: A 50G; N Bedding w/ Bedding in basal 2'; Base TSS
		113.0	1.4	98	MS	gy.	ST-VE	TR Ry. Musc	N	-	A Hhd ST-VE ss: Ripple lam
		131.0	18.0	100	MS-ST	RBY	ST	A mica	N	-	SHhd, Mat Gy dr MS, 19hd Gy ST: Thin, Ripple lam; N Bedding



Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval	Y-ray									
		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>			Base	Thick	U <sub>3</sub> O <sub>8</sub> *		V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	

\* Assays marked "e" are from lab gamma-ray readings

Q20 117181 Hole No. DUY-1R

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. 201-19 (NY)  
 Inclination Vertical Bearing \_\_\_\_\_  
 Total depth 1218  
 Collar elev. \_\_\_\_\_ T \_\_\_\_\_ P \_\_\_\_\_  
 Area Dyrt Wash

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. C-0 T. 44 R. 5E  
 Co. State Monte to Seville

Claim \_\_\_\_\_  
 Date completed 23 July 55  
 Date logged 24 July 55  
 Logged by PCF

Rev \_\_\_\_\_  
 Ed \_\_\_\_\_

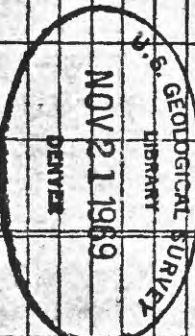
Graphic  
 log  
 0  
 SOLID BIT  
 20.0  
 22.6

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	3.014	100	100	-	-	-	-	-	-	-	Solid Bit; No Core
10.0	3.014	22.6	12.6	90	MS/ST Gy-XuBr	ST	ST	A mica, S lim	S	-	Thin Ripple lam; Thick Bedded; Base Re
20.0	9.4	35.0	3.4	95	SS	LB Gy	E/VE-E	A Int wk clay, lim specks	N	MS/Gy/Gms	MS/Gy; Calc; A SDG; S Incl Bedding
25.0	9.3	25.2	0.2	100	MS	Gy	-	A mica	N	Galls	Thin lam
35.0	9.4	27.1	1.9	100	SS-CG	LB-Gy	VE-CG	A Int wk clay; lim specks spots	N	MS/Gy/MS/B	S Mea; A SDG; V Calc; Indic- tract Bedding
45.0	6.6	28.0	0.9	100	SS	LB-Gy	VE, S, F	A Int wk clay; A lim specks	N	MS/Gy/fms	S Mea; TR waste (R); A 100
58.0	9.4	29.4	1.4	50	CG	Gy-XuBr-VE-CG	VE-M	A lim specks, Int wk clay	N	MS/A, Gy/g	Calc/No Calc; A/S SDG; N Bedding
60.3	5.2	34.8	5.4	100	SS	LB-Gy	VE-M	A lim specks, Int wk clay	TR	N	TR B; A SDG; Calc; S Bedding
65.7	8.5	64.2	29.4	100	SS	LB-Xu-Br-Gy	VE	A Int wk clay; S A lim specks, S Misc	N	MS/Gy-fms	A SDG; Calc; S Bedding; N- CG zone w/ A hour staining
75.1	10.0	-	-	-	-	-	-	-	-	-	Int Gy MS between 628'-632.5'
85.7	9.6	-	-	-	-	-	-	-	-	-	Int Gy MS between 628'-632.5'
105.3	9.6	-	-	-	-	-	-	-	-	-	Int Gy MS between 628'-632.5'
115.0	6.9	-	-	-	-	-	-	-	-	-	Int Gy MS between 628'-632.5'
121.8	9.5	64.8	0.6	70	CG	LB-Xu	E-CG	A lim Mugs; Int wk clay	A	Gy-g; Int	Calc; A SDG; N Bedding; frag
111.8	108.6	72.5	7.7	99	SS	LB-Gy	VE-E	A lim stain/lim specks; A Int wk clay; S Misc	N	N	Int fly lim between 655'-671.5' in specks

Sample	Thick	U3O8 *	V2O5	K2O	CaCO3	Base	Sample	Thick	U3O8 *	V2O5	K2O	CaCO3	Base	Interval	Thick	% U3O8	Y-ray	Base	Thick	U3O8	V2O5	

BARRETT



\* Assays marked "e" are from lab gamma-ray readings

GPO 3350 (1)

Hole No. 201-19

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 941-19 ( NY )  
Inclination Vertical Bearing \_\_\_\_\_

Total depth 121.8  
Collar elev. \_\_\_\_\_ T \_\_\_\_\_ P \_\_\_\_\_

Map coord (1) \_\_\_\_\_  
Map coord (2) \_\_\_\_\_  
Sec. C-0 T 79 S R 55 E  
Co., State Adams Co., Ariz.

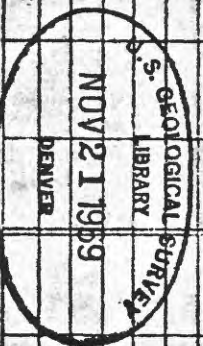
Claim \_\_\_\_\_  
Date completed 23 July 55  
Date logged 24 July 55  
Logged by P.C.F.

Summary of log \_\_\_\_\_ ; OBSS from 23 to 105 ; SS color lgg - BrGy; MS Ggy ; Chn. 5

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		75.5	3.0	82	MS	Gy	-	S. Musc	N	-	Thin lens
		83.9	8.4	100	SS	Lx Br. LBr Gy	WE-B / VE-M	A lim specks, staining, S Musc; 1st 5 in. clay; S Mn stain	TR VS-S; Gy; fms; Tst		Calc; A 50% break friable; S thin incl bedding; Stains w/ Gys; Mn, lim between 79.2 - base
		97.9	14.0	97	SS	LBr Gy - Lx Br	WE-C / WE-CG	A lim. Tst wh clay; S Py. Abent Tst blocks 92.8 - 93.9	S	S-Gy; MS; galls; fms	lim specks, staining; VS Musc; A Py near base; V Calc; Calc / V Calc; S Bedding
		104.7	6.8	100	ss/G	Lgy	WE-E / WE-CG	Tst wh clay; A Py; Calc. Xystals	A	Gy; fngs; Tst galls; A; fms; Py; Calc; ST; P	V Calc; S MS fms; S Bedding; Samples: 103.6 - 103.7, 103.7 - 102.8; Base: K3
		106.3	1.6	100	MS	Gy-Gy	ST	Mica	N	-	Thin lens; Top 5 in
		121.8	15.5	100	MS	RBr	ST	A Mica	N	-	5' thick Gs Gr. MS; L Gy; Calc ST; Thin; Rhybole lens

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray	Y-ray (%) or		Field est		
	U3O8	V2O5	K2O		CaCO3	Base	Thick	U3O8	V2O5		Base	Thick		U3O8	V2O5
Base	Thick	U3O8	V2O5	K2O	CaCO3	Base	Thick	U3O8	V2O5	K2O	CaCO3	Base	Thick	U3O8	V2O5



\* Assays marked "e" are from lab gamma-ray readings

Rev AK  
Ed AK  
2-2

Graphic log



GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill hole No. DW-20 (Mx)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 129.2  
Collar elev. 5724.7 T \_\_\_\_\_ P \_\_\_\_\_  
Area Diata Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T 44 S. R. 5E  
Co. State New Mexico

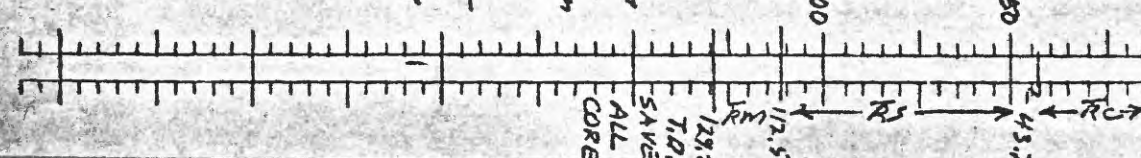
Claim \_\_\_\_\_  
Date completed 24 July 55  
Date logged 24 July 55  
Logged by PCF

SS color lg - 4 Yb Br MS Gy; Chn. 5

DRILL LOG

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	10.0	10.0	10.0	-	-	-	-	-	-	-	-
10.0	8 ft	12.2	2.2	68	SS	LR-Gy-	VE-F	A Int wk clay.	N	VS. Gy. fms. S. Tarsite (2). Calc. A SOG.	SOLD BIT No CORE
15.0	3.3	-	-	-	-	LR	-	S/A lim. S Musc	N	W/S. Gy. fms. S. Tarsite (2). Calc. A SOG.	
25.0	8.8	12.5	0.3	100	MS	Gy	ST	A Musc	N	Thin lam	
32.0	7.0	12.5	0.3	100	SS	LR-Gy-	VE-F	A Int wk clay.	N	S Tarsite (2). Calc. A SOG.	
37.5	7.1	-	-	-	-	LR	-	S/A lim S Musc	N	lim specks; S Bedding.	
46.0	5.8	15.0	2.2	55	SS	LR-Gy/	VE-M	A Int wk clay.	N	lim. hcm specks; S Musc;	
56.0	10.0	-	-	-	-	LR	-	S. lim. W/A hcm	N	Calc. A SOG; Thin incl Bedding	
66.0	8.4	18.5	3.5	100	SS	LR-Gy-	VE-MC	S-A lim hcm	N	A Int wk clay; Calc. A SOG; 100	
76.0	10.0	-	-	-	-	LR	-	Min specks	N	A Bedding	
86.0	10.0	20.4	1.9	100	ST	LR-Gy-	ST	A Min. S. lim	N	Ripple lam	
93.0	6.5	22.0	1.6	25	MS	Gy	ST	A Musc	N	Thin, Ripple lam.	
103.0	10.0	25.0	3.0	100	ST	LR-Gy-Gy	ST	A Musc; lim	N	lim stain; VE specks; Ripple lam	
113.0	6.5	26.2	1.2	100	MS	Gy	ST	A hcm.	N	Thin, Ripple lam	
123.0	6.0	37.6	11.4	100	ST	LR-Gy-Gy	ST	A Musc; S. lim	N	lim stain; VE specks; Ripple lam	
125.8	9.9	42.9	5.3	79	MS	Gy; S Br	ST	A Musc; S. lim	N	S. Tarsite (2); slick fracs.	
128.2	9.9	-	-	-	-	Gy	ST	A Musc; S. lim	N	Thin, Ripple lam.	
119.2	112.3	45.0	2.3	100	SS	LR-Gy	VE-F	A Int wk clay.	N	lim stain; VE specks; Ripple	



U.S. GEOLOGICAL SURVEY LIBRARY  
NOV 21 1969  
DENVER

BAHREIN

\*Assays marked "A" from lab gamma-ray readings

DPO 020841 Hole No DW-20

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 00-20 (X) (X) (X)  
 Inclination Vertical Bearing \_\_\_\_\_  
 Total depth 129.2  
 Collar elev. 5724.7 T \_\_\_\_\_ P \_\_\_\_\_  
 Area Delta Wash

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. C-0 T 44 R 15  
 Co., State New York, California

Claim \_\_\_\_\_  
 Date completed 24 July 53  
 Date logged 24 July 55  
 Logged by PCE

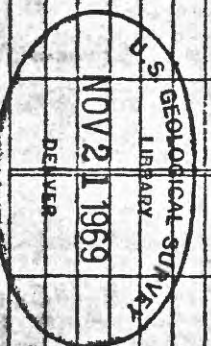
Rev	HK	15750
Ed		

Graphic log

Summary of log \_\_\_\_\_ ; OBSS from 44 to 113 thick 50 ; SS color Gray-Mud Br MS Gray ; Cbn. S

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		48.5	2.3	100	SS	Lgy	VE-N	A fine specks.	N	S. Lgy. Calc. speckled Br. A Int Wk Clays.	
		58.5	10.2	100	SS	LBr-Gy	VE-F	Mud. S. heavy A	N	A 50 G. N Bedding.	
		65.0	6.5	91	SS	Lgy-Br	VE-SNE	A. FINE CLAY	S.	A lim. in. 1.7hd F. 3.0 G. MS split.	
		73.0	8.0	100	SS	LBr-Gy	VE	Mud. N. A. fine gr.	N	25.3.4-5.3.0 G. Calc. A 50 G. N Bedding	
		76.0	3.0	100	SS	LBr-Gy	F-N	hem bands speckled	N	N Bedding	
		82.5	11.5	100	SS	LBr-Gy	VE-S.E	A. Heavy. Int. 2.0	N	Thin Int Bedding. 5.0 G. Calc.	
		93.2	5.7	91	SS	Lgy-Br	VE-CG	Mud. N. A. fine gr.	TR	5.0 G. Gypsum lim stain, specks. A 50 G. S. in muddy ss. Thin Int Bedding	
		102.6	14.4	100	SS/Clg	Lgy	VE-N	Mud. N. A. fine gr.	S	5.0 G. P. L. lim stain, specks. No. staining	
		110.7	3.1	50	MS	Dgy	-	Int Wk Clays. Lgy	Int	spots; Calc/V Calc; A/S. 50 G	
		111.2	1.5	100	CG	Lgy	VE-P	A. Mica	N	Lgy. V Calc, VE SS split. 0.6-0.8. Above base? Thin lona	

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%)	or	Field est
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>					
Base Thick				Base Thick			Base Thick	% U <sub>3</sub> O <sub>8</sub>	Base Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	



\*Assays marked "e" are from lab gamma-ray readings

GPO 8150 41

U.S. GEOLOGICAL SURVEY

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 001-20 (MS)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 129.3  
Collar elev. 5124.7 T \_\_\_\_\_ P \_\_\_\_\_  
Area Ogish Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 41 S R. 10 E  
Co., State Navajo Co., Ariz.

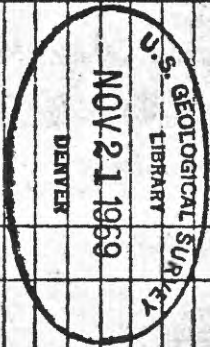
Claim \_\_\_\_\_  
Date completed 24 July 55  
Date logged 24 July 55  
Logged by PCF

Rev \_\_\_\_\_ Ed \_\_\_\_\_  
HK \_\_\_\_\_  
1-23-55

Graphic log

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		118.5	1.3	100	SS	Light	VF	TR. Fg. Musc	A	N	Calc. in N. Sh. Bedded Base
		114.0	1.5	100	MS	Gy-Fgy	ST	AMC. S. B.	N	-	VF Xystals. Gy at top. Thin ripple lam. Top fine s. bed Gy. S. MS. Calc. ST. Thin. Ripple lam.
		124.2	1.52	98	MS	RB	ST	AMC.	N	-	



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	γ-ray	γ-ray (%) or Field est
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu		CaCO <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>			
Thick				Thick						

NOTE: "a" are from lab gamma-ray readings

GPO 5359-41

Hole No. 001-20

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. 011-27 (N<sup>o</sup> 1)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 126.5'  
Collar elev. 5101.4 T \_\_\_\_\_ P \_\_\_\_\_  
Area Delta Wash

Map coord (1) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 21E5 R. 15W6  
Co., State Nevada Colorado

Claim \_\_\_\_\_  
Date completed 27 July 53  
Date logged 27 July 53  
Logged by PCF

Rev	AK
Ed	

Graphic log

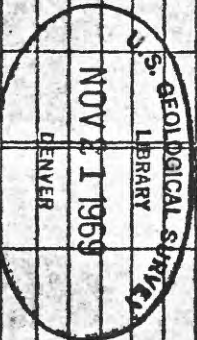
**DRILL LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	304.0	10.0	10.0	—	—						
10.0	314.0	15.9	5.9	95	SS	Light Br Gy-Mudgy	F		TR	N	Solid BIT, No Cor.
20.0	324.0	26.5	10.6	78	MSMS	Gy-Mudgy	ST		S		lim. hem. stain, specks; Calc. 50g; Thin incl. horiz. Bedding 50
26.5	330.5	—	—	—	—				S		Thin, Ripple lam; S contorted Bedding; carbonate mp. fault.
32.5	336.5	—	—	—	—				S		Base. Bc(12)
42.5	346.5	31.2	4.7	100	SS	Light Br Gy-Mudgy	VE		S		Calc. 50g; Thin incl. Bed. ding at top. Top 1/2 2
44.0	348.0	—	—	—	—				S		
54.0	358.0	44.0	12.8	83	SS	Light Br Gy-Mudgy	VE		N		Argy. galls Myl. lim. in E specks; Calc. 50g; sol. Pts. S Bedding
62.0	366.0	—	—	—	—				N		Calc. 50g; thin incl. Bedding
66.5	370.5	46.4	2.4	87	SS	Light Br Gy-Mudgy	VE-E		N		
76.5	380.5	—	—	—	—				S		
86.5	390.5	61.7	15.3	74	SS	Light Br Gy-Mudgy	VE-C		S		5.6g; P Calc Banded. d. Ser. qtz sizes in bands; Thin incl. Bedding. Calc. S-A lim. stain; frag
96.5	400.5	—	—	—	—				N		
103.5	407.5	76.1	14.4	90	SS	Light Br Gy-Mudgy	VE-SF		N		S-A 50g; 50% most A in E ss
106.5	410.5	—	—	—	—				N		A 50g; Calc. N Bedding
116.5	420.5	80.7	4.6	85	SS	Light Br Gy-Mudgy	VE-CG		TR		Calc. 50g; N Bedding
126.5	430.5	—	—	—	—				S		
116.5	430.5	88.3	7.6	91	SS	Light Br Gy-Mudgy	VE		S		5.6g; fms Calc. A 50g; N Bedding

**LITHOLOGIC LOG**

Sample	Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Sample	Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Interval	Thick	Y-ray	Y-ray (%) or	Field est
Base							Base											

**BARRETT**



\* Assays marked "A" are from lab gamma-ray readings

CPO 838041

Hole No. 011-27

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. 042-21 (Nx)  
Inclination Vertical Bearing \_\_\_\_\_

Total depth 125.5'  
Collar elev. 5101.4 T \_\_\_\_\_ P  
Area Alto Wash

Summary of log \_\_\_\_\_ ; OBSS from \_\_\_\_\_ ;

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T 44 R 52E  
Co., State Navy Co., Ariz

Claim \_\_\_\_\_  
Date completed 27 July 55  
Date logged 1 Aug 55  
Logged by PCF

2-2

Rev	<u>114</u>
Ed	<u>114752</u>

LITHOLOGIC LOG

Depth	Rec. ft.	Base	Thick	Rec. %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		93.0	4.7	89	SS	LT gray	VE-F.S.	A Int silty clay	S	N	lim. stain, 5 spores; Top has 1/4 lim.; Cbn at upper contact and base; Calc. & SD; 5 ind Bed- ding
		101.6	8.6	88	SS	LT gray - c-clay	Int. c-clay	Int. c-clay	S	N	1/25 spores; Calc.; Mod A SDs; Gradational below
		105.7	4.1	76	CS	LT gray	VE-C	A Int silty clay	SA	Gyy Bz fur	5 Bz - Cbn frags; Int. & SDs; Calc; 11 Bedding; Base has thin frags; top thin
		107.6	1.9	100	MS	gray-sdy	ST	Miss. gy. s. t.	N	-	
		126.5	18.9	96	MS	RB	ST	A Miss.	N	-	Thin slyea MS; clay Calc. ST; Thin, Ripple lam.

U.S. GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%e) or		
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu		CaCO <sub>3</sub>	Base	Thick			% U <sub>3</sub> O <sub>8</sub>	Base	Thick
Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>

Graphic  
log

\* Assays marked "e" are from lab gamma-ray readings

Hole No. 042-21

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 011-22 (N<sub>1</sub>)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 130.0  
Collar elev. 5707.8 T \_\_\_\_\_ P \_\_\_\_\_  
Area Clats Wash  
Summary of log \_\_\_\_\_ ; OBSS from 576 (2) to 113 thick 577 (2) ; SS color LBr Gy ; MS Gy ; Chn. N-S

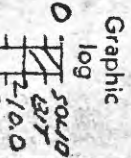
Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. G-0 T 44 S R-15 E  
Co., State Narajo Co., Ariz.

Claim \_\_\_\_\_  
Date completed 2 Aug 55  
Date logged 2 Aug 55  
Logged by PCF

Rev	HK
Ed	117-52

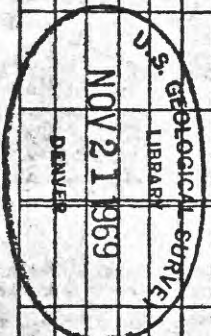
LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	30.112	10.0	10.0	-	-						Solid B <sub>2</sub> T <sub>2</sub> No Core
10.0	2.6	35.7	2.57	6.6	ST-MS Gy-Gy	ST-S-E			S		Thin heavy S Ripple-lamy slick fracs
15.0	5.0										Spec. Kbd B <sub>2</sub> BK-A Int + 104
20.0	3.0	37.7	2.0	10.0	SS	LBr Gy	M-VE		N		Clay-Calc; VS S D <sub>2</sub> G; Thin B <sub>2</sub> T <sub>2</sub> 5 Incl Bedding
25.0	2.4										Thin, Ripple-lamy Incl Fracs
26.0	6.0										Calc. compacted Bedding Top F <sub>2</sub> (2)
36.0	6.4	55.5	1.81	5.4	MS-ST Gy	ST			N		Thin in VE specks, stony; V Calc;
46.0	5.4	52.8	1.3	6.6	SS	L <sub>2</sub> Gy	VE		N		A 50G; Thin bedded
52.0	2.1	58.4	1.6	8.7	SS	LBr	VE		N		50G; V Calc; Sol. P <sub>2</sub> T <sub>2</sub> lim in
66.0	5.8										Specks, stain.
76.0	9.1	66.0	7.6	4	SS	LRR	E-M		S		VE specks lim/spots; Calc-A
86.0	6.2										Specks lim/spots; Calc-A
96.0	8.2										50G; N Bedding; Basal 0.5'
106.0	9.3										Calc; VA lim
116.0	9.5										Calc; VS Bedding
126.0	4.1										VE Qtz Xtl; Calc; 50G;
130.0	4.1										N Bedding
120.0	83.4	100.5	10.1	9.0	SS	LBr/L	VE		N		Chn on 0.5' above base;
69.5-92						LBr Gy	VE				Calc; A 50G; S Bedding



Sample	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Sample	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Interval	Thick	Y-ray	Y-ray (%)	or	Field est	

BARRETT



\*Assays marked "e" are from lab gamma-ray readings

GPO 0350-01

Hole No. 011-22

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 200-22 (NY)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 130.0  
Collar elev. 5702.8 T \_\_\_\_\_ P \_\_\_\_\_  
Area Dyets Wash

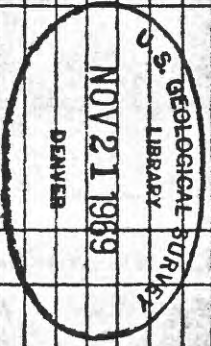
Map coord (1) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-0 T. 41 S R. 11 W  
Co., State Nevada

Claim \_\_\_\_\_  
Date completed 2 Aug 55  
Date logged 2 Aug 55  
Logged by RLG  
OBS from 56(2) to 113 thick 5.2(2); SS color Light; MS gy; Chn. N-5

Rev	HK	42757
Ed		

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		106.0	57	79	CS SS	Light	M-CG; S F	5 lim in ss spores	N	N	V calc; 50% N Bedding
		102.6	66	94	SS	Light	WE	5 lim in ss spores & Musc; Int Int 1/2 clay	N	N	Calc; 50% N Bedding
		112.9	5.3	89	SS	Light	E-M / E-CG	5 N lim spores 5-A N Int clay	N	N	Calc / Calc; A 50% / 5.50% N Bedding; Base 75
		115.5	2.6	100	MS	gy gm	ST	5 B of top; mica	N	-	Thin, km's gradational below - top 2 km
		130.0	14.5	97	MS	RE	ST	A mica	N	-	5 Fbd Gyg. MS; Calc ST; Thin, 3 Ripple lam



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray		Y-ray (%) or		Field est		
	U3O8 *	V2O5	Cu		CaCO3	Base	Thick	U3O8 *	V2O5	CaCO3	Base	Thick	% U3O8		Base	Thick
Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Thick	U3O8 *	V2O5	CaCO3	Base	Thick	% U3O8	Base	Thick	U3O8	V2O5

\* Assays marked "e" are from lab gamma-ray readings

CPO 5350 41

Hole No. 200-22

Graphic log

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill hole No. QU1-23 (NX)  
 Inclination Vertical Bearing \_\_\_\_\_  
 Total depth 126.0  
 Collar elev. 5087.1 T \_\_\_\_\_ P \_\_\_\_\_  
 Area Delta Wash

Map coord (T) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. C-0 T 44S R. 15W  
 Co., State \_\_\_\_\_

Claim \_\_\_\_\_  
 Date completed 5 Aug 55  
 Date logged 6 Aug 55  
 Logged by ECF

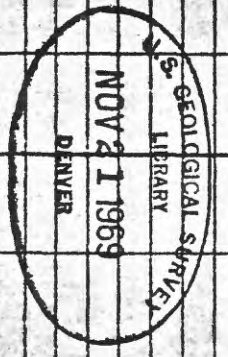
Rev	1-2
Ed	1/1

Summary of log \_\_\_\_\_; OBSS from 42 to 92 thick 50; SS color ky-LBrGy; MS Gy; Chn. S

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	30.0	10.0	10.0	—	—	—	—	—	—	—	—
10.0	6.0	26.8	16.9	99	SS	LBrGy	VE	A Int Wk clay, F. lim. specks	S	Gy: f. thin-fm fks	Solid Br; No Core Basal 5.0' have A. Hbd MS. Calc. thin incl. Bedding; Gradational below.
11.5	9.9	—	—	—	—	—	—	—	—	—	—
21.5	9.0	42.2	15.3	86	MS-ST	Gy-Gn	ST, VE	A. lim. Musc; A Int Wk clay mass Musc	S	Gy: Hbd-fm	S. Mn staining ss Calc.; Thin contorted Bedding; Thin Ripple layer; Base. Fe Calc.; S incl Bedding; Top Fe
31.5	1.0	—	—	—	—	—	—	—	—	—	—
36.5	1.6	—	—	—	—	—	—	—	—	—	—
44.5	8.0	50.1	7.9	95	SS	LBrGy	VE	A. lim. Int Wk Clay; S Musc	N	S. Gy: Gm-fms Hbd	lim specks in ss; Calc.; Thin contorted Bedding
48.5	3.5	—	—	—	—	—	—	—	—	—	—
56.5	6.8	51.2	1.1	44	MS, SS	Gy-Gn	ST, VE	A. Mn. Int Wk Clay; Mn stain fks	S	—	lim specks in ss; Calc.; Thin contorted Bedding
64.5	7.1	—	—	—	—	—	—	—	—	—	—
74.5	10.0	57.7	6.5	97	SS	LBrGy	VE-M, SC	A. Int Wk clay; lim stain specks	N	SG: Gy: Gm; P galls	TR Musc; Calc.; SOG; VS Bed- ding
84.5	8.1	—	—	—	—	—	—	—	—	—	—
93.0	6.3	58.6	0.9	94	MS	Gy-Gn	ST	S Mn. lim	TR	—	Chn fks; Thin lam
96.0	2.7	59.4	0.8	100	SS	Lgy	VE-M, SC	S. lim. hem; A Int Wk clay	N	VS: fms; P	lim in specks; V Calc.; SOG; S Bedding
106.0	12.0	62.2	2.8	100	SS	LBR	VE	A. lim. S. Int Wk Clay	N	N	lim staining spots; Calc.; A. SOG; S incl Bedding
97.8	8.5	64.6	2.4	79	SS	LBR	VE-M	A. lim. S. Int Wk clay	N	N	S Mn staining; A SOG; Calc.; Bcl Bedding
97.8	8.5	66.2	1.6	100	SS	LBrGy	VE	A. Int Wk clay; Musc; VE lim specks	N	N	—

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval			Y-ray			Y-ray (%) or Field est		
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>
Base	Thick															

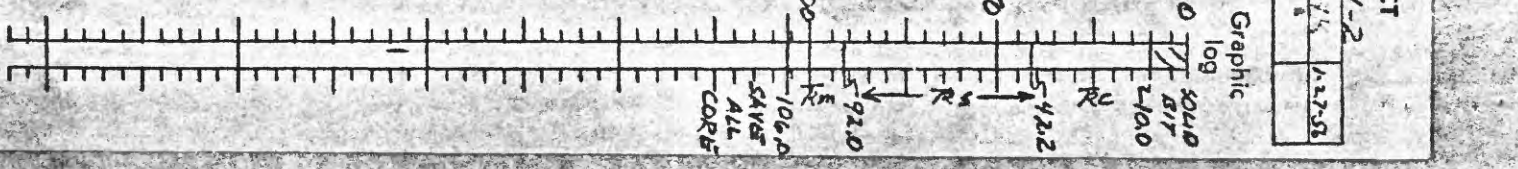


\* Assays marked "e" are from lab gamma-ray readings

CPO 835641

Hole No. QU1-23

BARRENY





GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 001-23 (NY)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 10610  
Collar elev. 50871 T \_\_\_\_\_ P \_\_\_\_\_  
Area 21.25 Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. S-0 T. 4 R. 12  
Co., State Nevada Co. Wash

Claim \_\_\_\_\_  
Date completed 5 Aug 53  
Date logged 6 Aug 53  
Logged by RCF

Rev	2-2
Ed	HY 1-22-R

Graphic log

Summary of log \_\_\_\_\_; OBSS from 42 to 92 thick 50; SS color lg-y-LB-gy; MS gy; Chn. S

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		69.9	3.7	100	SS	LB-gy	F-Vc/F	A lim Int. clay	N	VS-gy-gy; P	lim specks; stain; Mn on frags;
		70.6	6.7	100	SS	LB-gy	VF	clay; Mn stain	N	Calc-ST-P	S Bedding - Calc & SO <sub>4</sub>
		72.6	1.0	20	MS	gy	ST	lim specks	N	ST-gy; fms;	A Int. Wk. Clay
		72.3	0.7	100	SS	gy	VF	S mica	N	Calc-ST-P	Chn frags; Thin lam
		80.5	2.2	50	MS	gy	ST	A mica	S	Calc-ST-P	Chn frags; Thin lam
		85.2	4.7	100	SS	gy	VF, SC	S (lim stain) A	S	Calc-ST-P	Calc; Ripple lam
		87.1	1.9	89	SS	LB-gy	VF, SC	Int. Wk. clay;	N	Calc-ST-P	Chn frags; Thin lam
		92.0	4.9	100	SS	gy	VF, SC	A mica	N	Calc-ST-P	Chn frags; Thin lam
		93.2	1.2	100	MS	gy	ST	Int. Wk. clay;	N	Calc-ST-P	Chn frags; Thin lam
		106.0	12.8	100	MS	RBR	ST	lim specks; ST frags	N	Calc-ST-P	Chn frags; Thin lam

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray	Y-ray (%) or	Field est
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>				
Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub> /Cu <td>CaCO<sub>3</sub></td> <td>Base</td> <td>Thick</td> <td>U<sub>3</sub>O<sub>8</sub></td> <td>V<sub>2</sub>O<sub>5</sub></td> <td></td> <td></td> <td></td>	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>			



\* Assays marked "e" are from lab gamma-ray readings

OPD 834-11

U.S. GEOLOGICAL SURVEY

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 041-24 (N<sub>1</sub>)  
 Inclination: Vertical Bearing: —  
 Total depth 371.0  
 Collar elev. 5028.5 T — P —  
 Area Ogata Wash

Map coord (T) —  
 Map coord (P) —  
 Sec. C-1 T 44 S R 15 E  
 Co. State Nevada Coy Ariz

Claim —  
 Date completed 5 Aug 52  
 Date logged 7 Aug 53  
 Logged by PCF

Rev	H <sub>1</sub>	4-27-56
Ed		

Graphic log

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	30.0	30.0	30.0	—	—	—	—	—	—	—	—
30.0	30.1	61	100	—	SS	Clay-Bk	F-M	A Int. sh. clay	Vs	3-F. Calc. ST-P	Solid Bit. Calc. to 26.0 E
39.0	95	—	—	—	—	gy	SC	lim. stain	Gas	ST-P	V Calc. - Calc. 50 Gy. Lim. most A below 31.8. Sol pits incl 30
53.0	135	36.9	0.8	100	CG	16y-Lk	F-CG	A Int. sh. clay	N	Calc. ST-P	Fracs at 31.5. Incl bedding in sol pits. A Or with 1 <sup>st</sup> Or a - datational below
68.0	150	44.2	7.3	100	CG SS	Lgy-S	F-CG	VA Int. sh. clay	N	5-Gy-P	Calc. 50 Gy. Vent fracs at 43.6
83.0	146	—	—	—	—	Yd Br	gy AC	lim. stain	S	Calc. ST-P	w/ lim coat. Basal 0.5' 100
98.0	144	46.8	2.6	100	MS/SS	Yd Br	VE	Int. clay	S	Gy-Bld	w/ VA. lim stain
109.0	109	52.6	5.8	100	SS	LB Gy	VE, SE	A Int. sh. clay	TR	5-Gy. galls	Calc. 50 Gy. 5 incl Bedding
124.0	148	56.7	4.1	100	SS	kg-LB	VE	Musc. A lim	S	5-Gy. Bld	A lim in basal 10'
139.0	146	60.2	3.5	100	SS	gy	VE-N	Musc. TR	A	A-Gy. galls	A 50 Gy. Calc. 5 incl Bedding
154.0	141	79.2	19.0	100	SS	kg	VE-SF	5 lim. stain	Vs	5-Gy. fous	On Bedding. Sol pits fracs
154.0	141	—	—	—	—	—	M	Int. sh. clay	S	—	w/ Mo. lim at 54.5

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval			Y-ray				
	UgOg *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		Base	Thick	UgOg *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	% UgOg	Base	Thick	UgOg
Base	Thick	Thick	Thick	Base	Thick	UgOg *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	% UgOg	Base	Thick	UgOg	V <sub>2</sub> O <sub>5</sub>

U.S. GEOLOGICAL SURVEY  
LIBRARY

NOV 21 1969

DENVER

BARRERA



\* Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 041-24 (N<sub>1</sub>)  
Inclination Vertical Bearing —  
Total depth 371.0  
Collar elev. 5098.5 T — P —  
Area Ojato Wash  
Summary of log —; OBSS from 26 to 83 thick 57; SS color lg=ltbrgy; MS gy; Chn. S

Map coord (T) —  
Map coord (P) —  
Sec. e-1 T 44S R 15W  
Co., State Karajo Co. Ariz

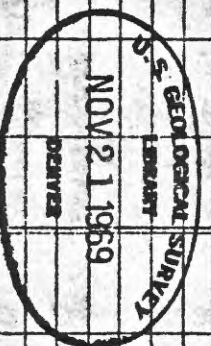
Claim —  
Date completed 5 Aug 53  
Date logged 2 Aug 53  
Logged by PCF

Rev	Ed
HK	1-22-56

LITHOLOGIC LOG

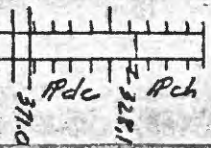
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
1540	135	79.7	0.5	100	SS	lggy	VF-Ms	A Tot blk clay	A	Agy; Inty	Chy frag; fms; fld. Calc; silt; thin lam
1675	143	80.3	0.6	100	SS	lggy	VF	A Int blk clay, mica	TR	Agy; Intd	Calc; silt; thin lam
1825	143	80.7	0.4	100	MS	gy	ST	TR M; Mica	TR	—	Chy frag; massive
1975	141	82.9	2.2	82	SS	lggy	VF-M; S.C.	A Tst blk clay; mica	A	Agy; Inty	Calc; silt; thin lam; at base; silt. Beddng; base. T.S.
2110	137	83.8	0.9	100	MS	gy	ST	A Mica; TR gy	N	—	Thin lam; Top fm
2260	148	84.9	6.1	100	ST	lggy	ST	A Mica	N	—	Thin lam; V Calc
2410	148	92.5	7.6	96	ST	RBR	ST	A Mica	N	—	S RBR MS; Gradational above below
2560	145	118.0	25.5	98	MS	RBR	ST	A Mica	N	—	gy Calc ST; Thin; Ripple
2710	147	123.8	5.8	100	ST/MS	RBR	ST	A Mica	N	—	VF sand; fld lggy Calc ST; silt; thin lam; Thin; Rippls
2855	149	128.8	5.0	94	MS	RBR	ST	A Mica	N	—	S Lgy Calc ST; Thin; Ripple
		129.4	0.6	100	ST	lggy	ST	A Mica	N	—	lamin; V Calc; S RBR; gy; Intd MS; Thin; Ripple; lamin

Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval	Thick	Y-ray U <sub>3</sub> O <sub>8</sub>	Y-ray (%) or Field est			
		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu			CaCO <sub>3</sub>	Base	Thick				U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>



\* Assays marked "e" are from lab gamma-ray readings

Graphic log



**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. D111-24 (N<sub>x</sub>)  
Inclination Vertical Bearing —  
Total depth 371.0  
Collar elev. 5098.5 T — P —  
Area Ojeda Wash

Map coord (T) —  
Map coord (P) —  
Sec. C-1 T. 44S R. 15W  
Co., State Navyo Co., Ariz.

Claim —  
Date completed 5 Aug 55  
Date logged 2 Aug 55  
Logged by PCF

Rev — Ed —  
HK —  
1-27-56

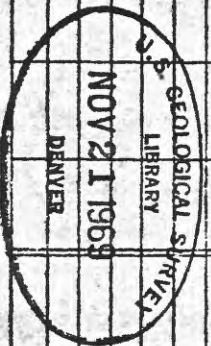
Graphic log

Summary of log —; OBSS from 26 to 83 thick 57; SS color ky-LR-gy; MS gy; Cbn. 5

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
285.5	13.3	133.6	4.2	100	STMS	RBR	ST	Mica	N	—	Thin, Ripple lam. s. thbd & gy Calc ST
299.5	14.3	133.9	0.3	100	LS	LRGR	ST	Mica	N	—	s RBR, Gygn MS
314.5	14.3	158.4	24.5	95	MS	RBR	ST	Mica	N	—	s RBR, Gy ST thbd, s Gygn MS. Thin lam
326.5	11.6	163.0	5.6	100	ST	RBR	ST	Mica	N	—	Calc. thbd RBR MS. Thin, Ripple lam. - contrasted bedding; Vert wh reprints
341.5	14.5	168.3	5.3	100	MS	RBR	ST	Mica	N	—	s thbd, Gygn MS & Gy Calc ST. Ori' gygn M' at base; Thin lam.
356.5	14.6	169.8	1.5	100	STMS	LR	ST	Mica	N	—	V Calc; s thbd RBR ST MS
371.0	14.1	180.7	10.9	94	MS/ST	RBR	ST	Mica	N	—	s thbd Gygn MS, s Gy Calc ST; Thin, Ripple lam.
341.0	221.5	212.4	31.7	100	STMS	RBR	ST	Mica	N	—	ST is Calc, & Gy, s. Thin lam. s Ripple lam.
94.0	216.0	218.6	2.6	94	MS	RBR	ST	Mica	N	—	Thin lam, s Ripple lam
	218.6	218.6	2.6	100	STMS	RBR	ST	Mica	N	—	ST is Calc, Thin lam, s Rip-ple lam. Contrast Bedding
	220.8	220.8	1.6	100	ST-LS	R	ST	Mica	N	—	V Calc; contrasted Bedding; Thin lam

Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Interval	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	



\* Always marked "C" are from lab. sample - rpy readings

CGO 8350 41

U.S. GEOLOGICAL SURVEY

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. Q11-24 (NK)  
Inclination Vertical Bearing ---  
Total depth 371.0  
Collar elev. 5098.5 T --- P ---  
Area Alto Mesa

Map coord (T) ---  
Map coord (P) ---  
Sec. C-1 T 44S R 15E  
Co., State Nevada Nev. Ariz

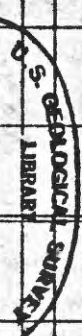
Claim ---  
Date completed 5 Aug 55  
Date logged 7 Aug 55  
Logged by PCP  
OBS from 26 to 83 thick 57 ; SS color Gg-LBrg; MS Gy ; Chn. S

Rev	4-5
Hk	1-2-3-4
Ed	

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		225.2	5.1	100	MS/ST	RBR	ST	A Mica	N	-	Thin lam; contorted Bedding- ST Calc
		226.4	1.2	100	ST-Ls	BR	ST	A Mica	N	-	Unbedded - Thin lam; Contorted; V Calc
		230.8	4.2	95	ST/MS/BR-RBR	RBR	ST	A Mica	N	-	Thin, Ripple lam; Contorted Bedding
		236.4	5.6	100	ST-Ls	BR	ST	A Mica	N	-	Thin, Ripple lam; Contorted Bedding
		237.7	1.3	100	ST-Ls	LBrg	ST	A Mica	N	-	Zones of RBrg Gyss Ms P at base; 237.0 - 237.1 S
		239.0	1.3	85	MS	RBR	ST	A Mica	N	-	Silty; Thin lam; Gradational below
		241.3	2.5	100	ST-Ls	BR	ST	A Mica	N	-	Thin RBR MS; Calc; Ripple lam
		247.7	6.4	100	ST-Ls	BR	ST	A Mica	N	-	N MS; Calc; N Bedding
		257.8	3.9	95	ST-Ls	LBrg	ST	A Mica	N	-	N Bedding; V Calc
		257.1	5.5	100	ST-Ls	BR	ST	A Mica	N	-	N MS; Calc; N Bedding
		258.2	2.1	100	ST-Ls	LBrg	ST	A Mica	N	-	N Bedding; V Calc
		269.5	10.3	97	MS/ST	RBR	ST	A Mica	N	-	Thin, Ripple lam; S Gyss MS; Gg Calc ST - Base (in C2)
		275.8	6.3	100	SS	VLBR/LBrg	F	Int. V. Clay; IR MS	N	-	Calc; V Calc; S; contorted Bedding; Thin lam; S ST; Gyss MS
		277.1	3.3	97	MS	RBR	ST, Gg	A Mica	N	-	Thin lam; S ST; Gyss MS

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est				
Base	Thick	U3O8 *	V2O5/Cu	CaCO3	Base	Thick	U3O8	V2O5			
		U3O8 *	V2O5/Cu	CaCO3	Base	Thick	% U3O8	Base	Thick	U3O8	V2O5



\* Assays marked "e" are from lab gamma-ray readings



- alluvium
- China formation, most part
- Shinarump member of China formation
- Loenkopf formation
- Hoskins Tongue of Cutler formation
- Peche - DE chelly sandstone member of Cutler formation

---

Symbols for stratigraphic units

ABBREVIATIONS FOR GEOLOGIC AND ASSAY LOGS--Continued

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. QU-24 (NK)  
Inclination Vertical Bearing —  
Total depth 371.0  
Collar elev. 5088.5 T — P  
Area Oljato Wash

Map coord (T) —  
Map coord (P) —  
Sec. C-1 T 445 R 15E  
Co., State Naraja Canyon, Ariz

Claim —  
Date completed 5 Aug 55  
Date logged 7 Aug 55  
Logged by EEG

Graphic  
log

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		<u>278.1</u>	<u>2.0</u>	<u>100</u>	<u>ST/MS</u>	<u>RBR</u>	<u>ST, S-E</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>Calc; Thin, Ripole lam; contacted</u>
		<u>286.7</u>	<u>5.6</u>	<u>95</u>	<u>MS</u>	<u>RBR</u>	<u>ST, S-E</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>5 tbd ST gyss MS; Thin; Ripole lam</u>
		<u>289.8</u>	<u>2.8</u>	<u>100</u>	<u>ST/MS</u>	<u>RBR</u>	<u>ST, S-E</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>Thin lam; S Ripole lam; Calc; S contacted; Bedding</u>
		<u>292.7</u>	<u>2.9</u>	<u>90</u>	<u>MS</u>	<u>RBR</u>	<u>ST, S-E</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>5 tbd gyss MS; 1 Gy ST</u>
		<u>294.5</u>	<u>6.8</u>	<u>100</u>	<u>ST</u>	<u>RBR</u>	<u>ST, S-E</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>5 MS; Calc; Thin; Ripole lam; contacted Bedding; 1 tbd RBR</u>
		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Gy ST-1.5 &gt; 296.0 - 296.4 &lt;</u>
		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>296.6 - 297.2 &lt;</u>
		<u>301.9</u>	<u>2.4</u>	<u>71</u>	<u>MS</u>	<u>RBR</u>	<u>ST, F-H</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>A E-M sand gns; S gyss, L Gy Calc; ST 1 tbd; Thin lam</u>
		<u>302.6</u>	<u>0.7</u>	<u>100</u>	<u>LS</u>	<u>LR Gy</u>	<u>ST, F-M</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>Contacted</u>
		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>E-C sand gns; Crin. to Nor by irregular, patchy segre-</u>
		<u>328.1</u>	<u>25.5</u>	<u>100</u>	<u>ST/MS</u>	<u>BR-1</u>	<u>ST, F-C</u>	<u>1 Mica</u>	<u>N</u>	<u>—</u>	<u>gations; crystalline Calc; Thin lam; contacted; Base</u>
		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Base</u>
		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Base</u>
		<u>371.0</u>	<u>42.9</u>	<u>97</u>	<u>SS</u>	<u>LR BR</u>	<u>VF, S-E</u>	<u>5 Mica, 1 tbd; Calc; Clay; TR OP</u>	<u>N</u>	<u>N</u>	<u>Pcho</u>

Sample	Lab assay (%)			Sample	U <sub>3</sub> O <sub>8</sub> *	Lab assay (%)			Interval	Y-ray	Y-ray (%)	or	Field est
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>			Base	Thick	U <sub>3</sub> O <sub>8</sub> *					
Base	Thick			Base									



\*Assays marked "a" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill hole No. D111-25 (NX)  
Inclination Vertical Bearing —  
Total depth 176.0  
Collar elev. 5061.5± T 1 P  
Area Q126 Wash

Map coord (T) —  
Map coord (P) —  
Sec Car D-3 T 445 R 157E  
Co., State Navajo Co., Ariz

Claim —  
Date completed 5 Aug 53  
Date logged 16 Aug 55  
Logged by PEF

Rev HK  
Ed 1-37-53

Graphic log

SS color lg-k Br gy; MS gy - gy tan; Chn. S-A

Summary of log Favorable; OBSS from 39 to 157 thick 120

**DRILL LOG**

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	10.0	10.0	10.0	—	—	—	—	—	—	—	Solid bit No core
15.0	35.0±	25.0±	—	—	Qal	—	—	—	—	—	gravel
20.0	36.0	1.0±	20	SS	kg/HR	F	A lvs S. Musc.	5	N	—	Calc; 50g; Thin Boded
30.0	38.0	2.0	0	—	—	—	—	—	—	—	No core; Re MS?
36.0	38.7	0.7	100	SS	k Br gy	VE	A lim, mica	N	S; gy tan; fms	—	Calc; V dense; Thin, Ripple
41.0	42.6	1.9	93	SS	kg	VE-MS	A Tort Wk Clay	A	S; gy; fhd	—	Calc; 50g; Chn, fhd, Int;
46.0	—	—	—	—	—	—	cat base Py; S lvs; Musc	—	—	—	Thin incl bedding; VA chn 2-100
52.0	—	—	—	—	—	—	—	—	—	—	45.8-46.9±; Top TS (P)
66.0	56.0	6.4	98	SS	k Br gy	VE	A lvs; Musc.	N	—	—	lim in F specks; Calc; A 50g;
76.0	59.3	3.3	100	SS	k Br gy	VE	A Musc; Tort Wk	A	gy-gy tan; fms	—	lim in VE specks; Calc;
86.0	70.7	11.4	100	SS	k Br gy	VE-E	A Tort Wk clay; Int	Int	N	—	Ripple lath
106.0	73.9	3.2	78	MS/ST	gy	ST	A mica; TR Py	S	—	—	Thin lath; ana ditional below 150
114.5	82.6	8.7	97	SS	kg	VE	A mica; Tort Wk	FMS	A/S-A; gy; fms	—	Calc; A 50g; Thin, Ripple lath
121.0	—	—	—	—	—	—	Clay; VS lim	—	—	—	Thin lath
131.6	84.9	2.3	57	MS	gy	ST	A mica	TR	—	—	Chn fms; Thin lath
140.0	86.0	1.1	100	SS	kg	VE	A mica; Tort Wk	S	gy; fms	—	Calc; 50g; Thin, Ripple lath

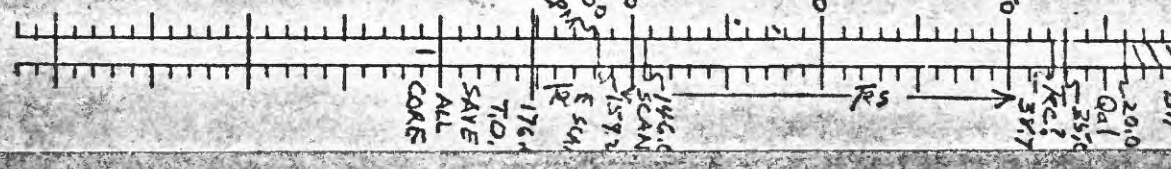
Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%)	Field test				
Base	Thick	U3O8	U3O8	U3O8	CaCO3	Base	Thick	U3O8	Y2O5		
159.0	0.6	0.057	0.21	0.54	—	36.4	5.1	<0.010	129.1	2.8	<0.005
158.6	0.5	0.1045	0.29	0.37	—	41.5	7.0	<0.005	136.8	1.4	<0.005
157.4	—	—	—	—	—	42.6	7.0	<0.005	139.9	0.8	<0.010
—	—	—	—	—	—	47.6	1.1	<0.005	158.6	1.3	0.035
—	—	—	—	—	—	71.0	1.1	<0.005	159.9	1.3	0.035
—	—	—	—	—	—	72.6	1.1	<0.005	174.0	—	—
—	—	—	—	—	—	103.5	1.1	<0.005	—	—	—

U.S. GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER

Assays marked "e" are from lab gamma-ray readings

GPO 5340 41

D111-25









# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. DW-26 (NY)  
Inclination Vertical Bearing ---  
Total depth 104.0  
Collar elev. 5705.1 T --- P ---  
Area Dipata Wash

Map coord (T) ---  
Map coord (P) ---  
Sec. G-1 T 445 R 5E  
Co., State Navajo Co., Ariz.

Claim ---  
Date completed 6 Aug 55  
Date logged 6 Aug 55  
Logged by RCF

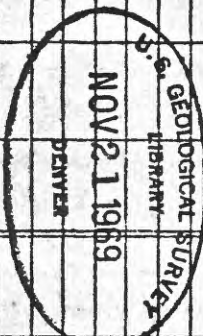
Rev	1-12
Ed	1-23-55

Graphic log

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	---	30.0	30.0	---	---	---	---	---	---	---	---
		34.7	4.7	77	MS	Green	V. ST	A Nic. q. s.lim	N	---	Solid Bit, No Core
		54.9	20.2	98	SS	Light	VE	A lim. specks	N	5 clay, fms	Thin, Ripple lamy. Base R <sub>2</sub> (2)
		59.7	4.8	94	SS	Light	F/E-C	A Int. sil. clay	A	5-Yu-Gy, Int. fms	Int. clay; Calc; A 50g; S
		64.0	4.3	100	SS	Light	F	A Int. sil. clay	TR	Gy-Gy, Int. fms	Int. clay; Calc; A 50g; S
		67.0	3.0	100	SS	Light	F-M, S-C	A Int. sil. clay	TR	Gy-Gy, Int. fms	Int. clay; Calc; A 50g; S
		68.1	1.1	100	SS	Light	VE	A Int. sil. clay	N	---	A 50g; Calc; N Bedding
		69.8	1.5	87	SS	Light	E/E-C, S.P	A Int. sil. clay	S	Arg. Gy, Int. fms	Calc; A 50g; N Bedding
		75.8	6.0	97	SS	Light	VE-E, S	A Int. sil. clay	S	Arg. Gy, Int. fms	lim. specks, staining; Calc; A 50g;
		74.0	69.3	---	---	---	---	---	---	---	Int. fms; 272.6-273.2; 0.2'
		77.1	1.2	25	MSG	Gy	E-C, S	A Int. sil. clay	A	---	Clay at base
		80.6	3.5	100	SS	Light	E-C	A Int. sil. clay	A	5-Gy, Int. fms	Cbn frags, fms, Int. S. Mica
		81.8	1.2	100	SS	Light	E-C, S	A Int. sil. clay	S	Gy, Int. fms	TR P; Calc; A 50g; incl Bedding
		84.2	---	---	---	---	---	---	---	---	Calc; 50g; Thin incl Bedding

Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Interval	Y-ray	Y-ray (%) or	Field est
Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Interval	Y-ray	Y-ray (%) or	Field est



BARRETT

Assays marked "e" are from lab gamma-ray readings

DPO 2390 41

W. M. D. W. - 26

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. CU-26 (N<sub>1</sub>)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 1040  
Collar elev. 51051 T \_\_\_\_\_ P \_\_\_\_\_  
Area Glata Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. C-1 T. 44S R. 15E  
Co., State Navajo Co. Ariz.

Claim \_\_\_\_\_  
Date completed 6 Aug 55  
Date logged 6 Aug 55  
Logged by PCF

Rev \_\_\_\_\_  
Ed HLK 1-2-58

Graphic log

OBS from 35 to 82 thick 57 ; SS color yellow ; MS gy ; Chn. S

**DRILL LOG**

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Chn	MS in SS	Remarks
		824	06	33	MS	gray	ST	Mica, TR Py	N	-	Thin lens; Top Ferr
		94.5	21	100	ST	gray	ST	Mica	N	-	Thin, Ripple lens; Calc
		871	26	100	MS	TR	ST	Mica	N	-	Thin, Ripple lens
		879	08	100	ST	gray	ST	Mica	N	-	Thin, Ripple lens; Calc
		1040	16.1	94	MS	RBR	ST	Mica	N	-	Thin, Ripple lens

U.S. GEOLOGICAL SURVEY  
 LIBRARY  
 NOV 21 1969  
 DENVER

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		γ-ray		γ-ray (%e) or		Field est		
	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu		CaCO <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>
Thick																

\*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. CU-26

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 00-27 (11/2)  
Inclination Vertical Bearing —  
Total depth 106.0  
Collar elev. 5043.9 T — P —  
Area Oleta Wash

Map coord (T) —  
Map coord (P) T 44 S R 15 E  
Sec. —  
Co., State Nevada Coy. Nev.

Claim —  
Date completed 7 Aug 55  
Date logged 8 Aug 55  
Logged by PCF

Rev	1/1
Ed	—

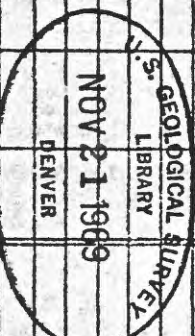
Graphic log

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	10.0	10.0	—	—	Qal	Qal	—	—	—	—	Solid bit No core; sand gravel
10.0	25.0	15.0	—	—	Qal	Qal	—	—	—	—	sand gravel
20.0	40.0	15.0	9	—	ST-SS	Gy	ST-E	—	—	—	Thin bedded; Cbn fls
30.0	44.8	4.8	10	—	SS	Gy	ST-13-5M	—	—	—	Bedding; Muddy
40.0	53.3	7.3	89	—	SS	Gy	VE	—	—	—	Ripple lam; F muddy ss
46.0	63.4	10.1	92	—	SS	Gy	E/E-C	—	—	—	47.5' Base Tsc? Cbn sm at 47.5'-48.3' Cbn sm at
56.0	64.3	0.9	100	—	MS	Gy	ST	—	—	—	Cbn fls; Frag; Muddy; All 100 thin lam
70.0	75.9	11.6	99	—	SS	Gy	E-S-M-C	—	—	—	Cbn fls; Frag; sm; Muddy; 5 Bedding; A Cbn at 64.9, 71.1
86.0	83.3	7.4	95	—	SS	Gy	E-C	—	—	—	Muddy; Calc; Top 0.5' muddy soft; Thin soil Bedding; A Cbn at 77.4; A B at base; Base Tsc
106.0	84.5	12.1	100	—	MS	Gy	ST	—	—	—	Thin lam; Top 5m 5' bed Gy Gy; Thin, Ripple lam
106.0	106.0	21.5	99	—	MS	RGR	ST	—	—	—	Thin lam; Top 5m 5' bed Gy Gy; Thin, Ripple lam
81.0	52.7	—	—	—	—	—	—	—	—	—	—

Sample	Lab assay (%)			Sample	Lab assay (%)		
	U3O8	V2O5	Ku		CaCO3	U3O8	V2O5
Thick	—	—	—	Thick	—	—	—
Thick	—	—	—	Thick	—	—	—

\* Assays marked "e" are from lab gamma-ray readings



CPO 8350 41

Hole No. 00-27

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 20-28 (No. 1)  
 Inclination Vertical Bearing \_\_\_\_\_  
 Total depth 106.5'  
 Collar elev. 5274.6 T \_\_\_\_\_ P \_\_\_\_\_  
 Area Olata Wash

Map coord (1) \_\_\_\_\_  
 Map coord (P) \_\_\_\_\_  
 Sec. C-1 T 24S R 15E  
 Co., State Maricopa, Arizona

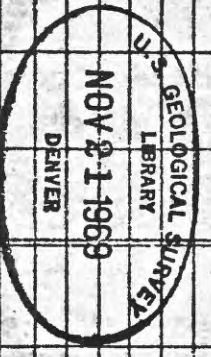
Claim \_\_\_\_\_  
 Date completed 20 Aug 55  
 Date logged 21 Aug 55  
 Logged by PCF

Summary of log \_\_\_\_\_ ; OBSS from 20 to 90 thick 20 ; SS color lg - Wgy - MS Gy ; Chn. S-A

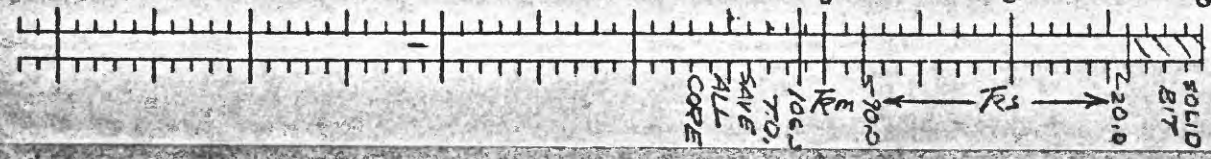
## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access	Mins.	Chn	MS in SS	Remarks
0.0	5010 BIT	20.0	20.0	-	-	Wgy	VE-F	A Int wh Clay		N		Solid BIT No Core
20.0	1.0	31.1	11.15	73	SS	Wgy	VE-F	A Int wh Clay		N		lin stain & specks; Calc; A
26.5	3.5	36.3	5.25	33	Clay SS	Wgy	M-Cg;	A Int wh Clay		S		50g; Thin incl Bedding
36.5	6.5	50.3	14.0	66	SS	Wgy	VE	A Int wh Clay		N		Calc; 50g; 5 incl Bedding
46.5	7.5	60.9	10.6	48	SS/Clay	Wgy	VE-M	A Int wh Clay		A		lin stain; specks; Calc; A 50g;
52.5	4.0	61.9	4.1	100	SS	Wgy	VE-M	A Int wh Clay		A		5 Bedding; Gradational below
66.5	4.1	66.0	4.1	100	SS	Wgy	VE-M	A Int wh Clay		A		Top 2' l. Bedding; segregated
76.5	9.5	75.6	12.8	99	SS	Wgy	VE-M	A Int wh Clay		A		into bands of finer gr. size; no
86.5	8.4	83.8	0.9	56	MS	Wgy	ST	Mica; TR Py		S		Basal 0.6' C-Cg; 5' N 50g;
96.5	9.4	93.2	0.8	25	SS	Wgy	VE	A Int wh Clay		A		Calc; Thin incl Bedding
106.5	63.1	75.6	12.8	99	SS	Wgy	VE	A Int wh Clay		A		segregated into bands of
73.2		76.4	0.8	25	SS	Wgy	VE	A Int wh Clay		A		differ on size; Calc; 50g;

Sample	Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Sample	Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Interval	Thick	Y-ray	Y-ray (%)	or	Field est
Base	Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Sample	Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Interval	Thick	Y-ray	Y-ray (%)	or	Field est



BARREN



Assays marked "e" are from lab gamma-ray readings

GPO 4350 41

Hole No. 20-28



**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 011-29 (No. 1)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 112.0  
Collar elev. \_\_\_\_\_ T \_\_\_\_\_ P \_\_\_\_\_  
Area Dieter Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. E-1 T. 21S R. 12E  
Co. State Nevada \_\_\_\_\_

Claim \_\_\_\_\_  
Date completed 8 Aug 55  
Date logged 8 Aug 55  
Logged by PEE

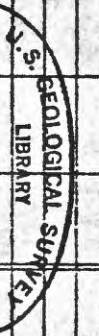
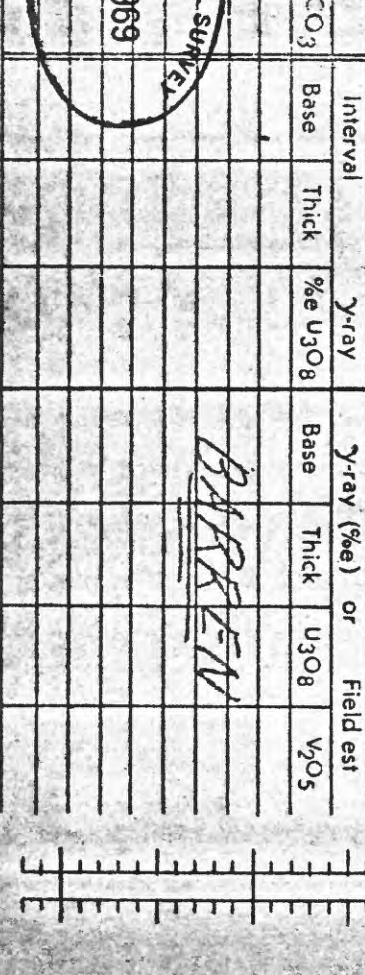
Summary of log \_\_\_\_\_ ; OBSS from 308 to 98 thick 50 ; SS color gy-kbrgy; MS gy ; Cbn. 5

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	50.0	30.0	50.0	-	-						
30.0	BIT	40.1	10.1	3	SS	LBr gy	VF, P	lim stain, Int	N	gy, P	Solid Bit, No Core
44.0	4.3	44.6	4.3	100	SS	LBr gy	VF-F	Int. lim. clay	S	gy, P, fins	lim stain, specks; Calc; A 50gr; 5 incl Bedding
59.0	11.4	62.8	13.7	78	SS	LBr gy	VF	AN lim; Int. lim	S	gy, P, fins	Calc; A 50gr; 5 Bedding; A Cby; B 250.4 - 51.6
59.5	0.4	65.8	3.0	100	SS	gy, Lgy	VF-M, SP	A Int. lim. clay; 5 Mica; 7 R Py	A	gy, P, fins	Calc; 50gr; 5 incl Bedding; All layers differ on size; A gy MS, Py at base
74.0	9.9	70.6	4.8	100	SS	Lgy	VF-F/E	A Int. lim. clay; 5 Mica; 7 R Py	S	gy, P, fins	Calc; 50gr; 5 incl Bedding; gradational below
84.0	14.5	70.6	4.8	100	SS	Lgy	VF-F/E	A Int. lim. clay; 5 Mica; 7 R Py	S	gy, P, fins	Calc; 50gr; 5 incl Bedding; gradational below
99.3	15.0	92.2	28.6	98	SS	Lgy-kbr	VF-S/E	Int. lim. clay; 5 Mica; 7 R Py	S	gy, P, fins	N lim in top 5.0' Cby; P; fins most near base; VS Bedding; Calc; A 50gr; MS, most
114.0	5.0	100.3	11.1	100	MS	gy, Gm	ST	Int. lim. clay; 5 Mica; 7 R Py	N	gy, P, fins	Thin lam; incl slick fracs; Top 5m
119.0	5.0	119.0	18.7	100	MS	RBr	ST	Int. lim. clay; 5 Mica; 7 R Py	N	gy, P, fins	Slick gy Gm MS, kgy Calc; ST; Thin lam
85.0	75.6										

Sample	Lab assay (%)	Sample	Lab assay (%)
Base	U3O8 * V2O5 Cu CaCO3	Base	U3O8 * V2O5 Cu CaCO3
Thick		Thick	

Interval	Y-ray	Y-ray (%)	Field est
Base	U3O8	Base	U3O8
Thick		Thick	
% U3O8			



*BARRETT*



GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. QU-30 (N<sub>1</sub>)  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 127.5  
Collar elev. 5043.4 T \_\_\_\_\_ P \_\_\_\_\_  
Area Agate Wash

Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. R-2 T 44S R 15E  
Co., State Nevada, Calif.

Claim \_\_\_\_\_  
Date completed 15 Aug 58  
Date logged 16 Aug 58  
Logged by PCC

Rev HK  
Ed 1-2-58

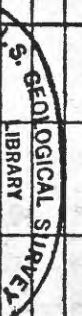
Graphic log

0  
10.0  
20.0  
30.0  
40.0  
50.0

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
00	30.0 31.7 32.4	10.0	10.0	—	SS	Lgy	VF	A Micq. lins	S	Dr. Gy. fms	Solid Bit No Core
10.0	32.7	12.4	9.8	SS	Lgy	VF	A Micq. lins	Int	Dr. Gy. fms	Calc. A lins staining = speckles	
20.0	36.5	20.5	9.1	SS	Lgy	VF-CG	A Int wk clay	S	Dr. Gy. fms	Calc. > 26.5-29.2 s; thin	
30.0	46.5	—	—	—	—	—	—	—	—	Int bedding; too fs	
40.0	56.5	—	—	—	—	—	—	—	—	Chn. fms. Int. S pl. Ch. Calc.	
50.0	66.5	—	—	—	—	—	—	—	—	Int bedding; Alt layers	
60.0	76.5	71.2	18.0	99	SS	Lgy	VF	Mica; S Int wk clay	S	Dr. Gy. fms	of d. f. f. gen size; Alt layers
70.0	86.5	—	—	—	—	—	—	—	—	—	stain; specks > 25.4-27.4 s
80.0	96.0	—	—	—	—	—	—	—	—	—	A Chn. fms. of base; faces >
90.0	106.0	—	—	—	—	—	—	—	—	—	42.5-78.4 s
100.0	116.0	—	—	—	—	—	—	—	—	—	Top 20' here A F lins speckle-
110.0	126.0	—	—	—	—	—	—	—	—	—	S Calc.; A 50gr. MS P at base;
120.0	136.0	—	—	—	—	—	—	—	—	—	Gradational below
130.0	146.0	—	—	—	—	—	—	—	—	—	A Chn. fms. fms. in F-CG zone
140.0	156.0	—	—	—	—	—	—	—	—	—	4rd P; > 73.0-73.2 s; Chn
150.0	166.0	—	—	—	—	—	—	—	—	—	through Calc. A 50gr. S Red-
160.0	176.0	—	—	—	—	—	—	—	—	—	ding
170.0	186.0	—	—	—	—	—	—	—	—	—	Chn. frags. fms. V Calc. A 50gr.
180.0	196.0	—	—	—	—	—	—	—	—	—	N bedding; VF over Xistals.
190.0	206.0	—	—	—	—	—	—	—	—	—	has stain in basal 29'; Calc. A
200.0	216.0	—	—	—	—	—	—	—	—	—	50s; N bedding; Gradational below.

Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval			Y-ray	Y-ray (%) or Field est				
		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>			U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub>	CaCO <sub>3</sub>	Base	Thick	% U <sub>3</sub> O <sub>8</sub>		Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	
80%	—	72.4	2.0	100	SS	Lgy-LB	F-C	A Int wk clay	VS	5.5gy. P	50s; N bedding; Gradational below.	—	—	—	—	—	—	
75.4	1.6	44	CG	Lgy	F-CG	A Int wk clay	VS	5.5gy. P	50s; N bedding; Gradational below.	—	—	—	—	—	—	—	—	
12.4	2.0	<0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14.4	1.5	<0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
74.5	0.6	<0.010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
83.6	1.1	<0.010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
87.1	1.7	<0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
92.1	1.1	<0.010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
102.7	1.3	<0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



\*Assays marked "e" are from lab gamma-ray readings

GPO 9194-41

11 11 20

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 041-30 (N<sub>1</sub>)  
Inclination Vertical Bearing ---  
Total depth 127.5'  
Collar elev. 5043.15 T --- P ---  
Area Piute Wash

Map coord (T) ---  
Map coord (P) ---  
Sec. D-2 T 445 R 15-15  
Co., State Navajo Co., Arizona

Claim ---  
Date completed 15 Aug 53  
Date logged 16 Aug 53  
Logged by RCF

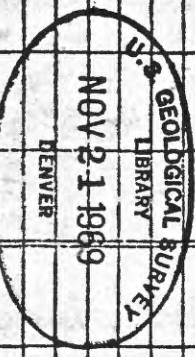
Rev ---  
Ed ---  
Graphic log

Summary of log Errata; OBSS from 20 to 104' thick 8'; SS color lg-1Brgy MS Gy-gygn: Chn. S-A

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
		86.5(3)	91(2)	4	ss/cg	lg	F-cg	AB, S, lim, Int	A	S Gy: P	Calc: A 50%
		98.7	12.2	84	SS	lg	VE	A Int. lth. clay	3	A Gy: S, ms	Calc: A 50%; Thin bedded lany ripple lany; Bathy lens
		100.4	1.7	55	GSS	lg	F-cg	Int. th. clay	A	Gy: Int. P	Chn. Int. Pk. frags - Calc;
		102.1	1.7	100	SS	lg	VE	S Mica	A	Gy: Int. P	50%; Gradational below
		104.2	2.1	100	SS	lg	VE-F	Mica, Py, Int	A	Gy: Int. P	Calc: 50%; Thin Incl. Bedding;
		108.7	4.5	100	STNS	gygn	ST-SE	Mica, Py, Int	N	Gy: Int. P	Gradational below. Int. chn
								Py at top.	N		Base 75 (2)
								Mica	N		Rounded frags. Essent as
									N		above in STMS 0.2' below
									N		top; Round Calc patches
									N		M-C sand w/ Py. Clm down
									N		to 15' below top; Thin
									N		ripple lany. ST. lth. Base
									N		75-15-1 below top; top
									N		Top?
		122.5	18.8	98	MS	RPR	ST	A Mica	N		Thin, Ripple lany. S. thd gygn
									N		MS, Lgy Calc ST. local
									N		patchy Calc. 1.35' by text
									N		fine Calcite 214.5-116.0

Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval	Thick	Y-ray		Y-ray (%) or	Field est
		U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu			CaCO <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>			CaCO <sub>3</sub>	Base		



Assays marked "e" are from lab gamma-ray readings

GPO 35941

Hole No. 041-30

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Well-hole No. 04U-31 (N/A)  
 Inclination Vertical Bearing ---  
 Total depth 178.5'  
 Collar elev. 5742.7 T --- P ---  
 Area Ogata Wash

Map coord (T) ---  
 Map coord (P) 1445 R. 151E  
 Sec. 12-2  
 Co., State Nauvajo Co., Ariz.

Claim ---  
 Date completed 16 Aug 55  
 Date logged 16 Aug 55  
 Logged by PCT

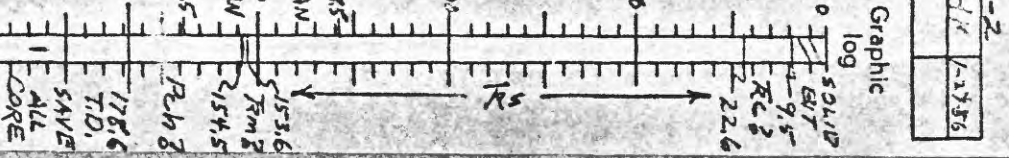
Summary of log Intermittent; OBSS from 23 to 154 thick 132; SS color Lgy-gy; MS Gy; Cbn S-A

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	9.5	9.5	9.5	---	---	---	---	---	---	---	---
9.5	22.6	22.6	13.1	89	SS	Lgy	VE	A Int. Wb. Clay	S	Agy; fms lim in E	Solid Bit, No Core
14.5	42.1	42.1	19.5	100	SS	Lgy	EM/VE	Mica, A/N, Wb. Clay	CKS	pla. lam. Base to a	spacks; Calc; Rip-
24.5	42.7	42.7	0.8	100	SS	Lgy	VE	A Int. Wb. Clay	S	Agy; fms	Calc; sds; Thin ind Bedding
34.5	45	45	4.5	100	SS	Lgy-L	VE/VE	A Int. Wb. Clay	S	Agy; fms	lim in spacks; spots. A lim
43.0	95.9	95.9	53.0	100	SS	Lgy-L	VE/VE	Mica	PKS	lim in spacks	spots. A lim
57.0	---	---	---	---	---	---	---	---	---	---	---
68.0	---	---	---	---	---	---	---	---	---	---	---
74.0	---	---	---	---	---	---	---	---	---	---	---
89.0	96.1	96.1	0.2	100	MS	Gy	ST	Mica	N	Thin lam	Thin lam
97.0	99.0	99.0	2.9	100	SS	Lgy	VE-EP	S Int. Wb. Clay	A	S; gy; thd	M'split's 97.1-97.4 S. Calc; 150
109.0	101.8	101.8	2.8	100	SS	Lgy	VE	Mica - TEP	Bag	A sds; N Bedding	55AN
114.0	---	---	---	---	---	---	---	---	---	---	---
119.0	114.5	114.5	12.7	100	MS	Dgy	ST	A Mica	PKS	S; thd Lgy Calc	ST. S Gyn
128.5	---	---	---	---	---	---	---	---	---	---	---
138.0	118.4	118.4	3.9	54	SS	Lgy	F	Mica; TEP	A	Agy-gyn	Cbn; Fks; frags; Int; V Calc; S

Sample	Thick	U3O8 *	V2O5/gg	CaCO3	Sample	Thick	U3O8 *	V2O5/gg	CaCO3	Interval	Thick	% U3O8	Base	Thick	% U3O8	Field est
155.1	0.3	0.050	<0.1	10.0%	155.1	0.7	<0.005	15.73	1.4	0.018						
155.4	0.3	0.050	<0.1	10.0%	155.4	2.0	<0.005	15.85	1.2	0.03						
157.8	0.3	0.050	<0.1	2.92	157.8	0.8	<0.010	15.88	0.3	0.03						
158.1	0.3	0.050	<0.1	2.92	158.1	3.2	<0.005	13.90	0.9	0.011						
					150.4	1.8	<0.005	15.04	1.5	<0.010						
					152.5	1.5	<0.010	15.25	1.5	<0.010						
					155.9	2.0	0.021									

GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER



\* Assays marked "e" are from lab gamma-ray readings

GPC 8350 41

Well No. 04U-31

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Well hole No. D-1-31 (NY)  
Inclination Vertical Bearing —  
Total depth 179.5'  
Collar elev. 5042.7 T — P —  
Area Dietsch Wash

Map coord (T) —  
Map coord (P) T 44 S R. 15 E  
Sec. D-2  
Co., State Nevada Co. Nev.

Claim —  
Date completed 16 Aug 53  
Date logged 16 Aug 53  
Logged by PRL

Rev HL  
Ed —

Graphic log

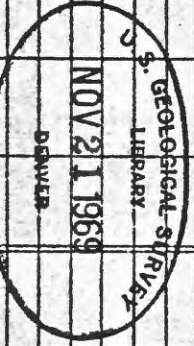
Summary of log Favorable; OBSS from 23 to 154 thick 132; SS color Grey; MS Grey; Chn. S-A

LITHOLOGIC LOG

DRILL LOG	Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
	138.0	149	119.5	11	75	SS	Gy	M	Int 4th clay	A	MS Gy - Gy	V. Calc. 50% S Bedding
	153.0	149	120.2	17	100	SS	Gy	VP - F	Int 1st clay	A	MS Gy - Gy	Chy Int fine; V. Calc. 50% S Bedding
	166.0	9.3	120.6	0.4	100	ST	Gy	ST	5' Mic. A Py	A	MS Gy - Gy	N Bedding
	168.5	9.0	151.0	50.4	99	SS	Gy	C-V.C.S	A Int 1st clay	A	MS Gy - Gy	Chy, PK's fine; Int. 50% S Bedding
	178.5	9.0	—	—	—	—	—	F-M.Cg	5' Mic. A Py	A	MS Gy - Gy	Bodding indistinct; V. Calc. 100% at 191.8
	169.0	163.0	152.4	14	100	MS-ST Gy - Blgy	ST	ST	Py, Mic. A	S	—	Chy, PK's con for top Bedding
			153.6	1.2	100	SS	Gy	FC - Cg	VA Py, A Int	A	MS Gy - Gy	Chy Int, fine; Calc. 50% S Bedding
			154.5	0.9	100	MS	Gy Gm	ST - VE	Int clay	N	—	N Bedding; Base. 75% Thin lens; Int. 1st SS in Rip - ple lam. Top Ten 2
			176.5	24.0	100	SS	LR - Gy - L. Mudgy	VE	A Mic. 75% Py	N	MS Gy - Gy	Int 1st clay; Py at top; Calc. 50% Thin int - hor's
			—	—	—	—	—	—	75% Py	—	—	Bedding; LR Py w/ A Mic. MS fine 216.95 - 170.45
			—	—	—	—	—	—	75% Py	—	—	2170.1 - 173.45; Haskinova 55 3

Pcho3 \ Rn? / R5

Sample	Thick	Lab assay (%)			Sample	Thick	Lab assay (%)			Interval	Thick	Y-ray % U3O8	Y-ray (%) or Field est	
		U3O8 *	V2O5	Cu			CaCO3	U3O8 *	V2O5					CaCO3
Base	Thick	U3O8 *	V2O5	Cu	CaCO3	Base	Thick	U3O8 *	V2O5	CaCO3	Base	Thick	U3O8	V2O5



\* Assays marked "e" are from lab gamma-ray readings

GPO 039041

Plate No. 011-31

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 041-32 (N<sub>1</sub>)  
Inclination Vertical Bearing —  
Total depth 66.1  
Collar elev. 5049.2 T — P —  
Area Ojito Wash

Map coord (T) —  
Map coord (P) —  
Sec. 17-2 T 44 S R 15 W  
Co., State Navajo Co., AZ

Claim —  
Date completed 16 Aug 53  
Date logged 17 Aug 53  
Logged by PCP

Rev 1-2  
Ed 1-2

Graphic log

10.0  
5.0  
0.0  
BIT

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
00	30.0	10.0	10.0	—	—	—	—	—	—	—	—
10.0	BIT	15.7	5.7	42	CG	Y/B	M-CG	A Int wh clay, lim in c. specks	N	Sy Gy P	Solid Bit, No core V Calc; VS seq; N Bedding
17.0	2.7	—	—	—	—	Gy-Cy-Gn	ST	Mica	N	—	Thin lam lim staining; V Calc; Thin bedded
26.0	3.2	25.1	8.1	64	SS	Y/B	VF	clay, Vals, lim, fss	A	Gy-fms	Top 14" Y/B by lim; A Cbn fms below 39.5"; CG zone 22.3 -32.1 w/ much coarse fss; Calc; 50.6; Thin incl Bedding
36.0	7.2	—	—	—	SS	Gy	VF	TR Py, Micro, fss	A	Gy-fms	V Calc; Cbn fms in M-C ss at 42.1; 43.2'; A Cbn specks 2 43.6-44.2'; S vt lim specks below; Thin incl Bedding
45.0	8.5	—	—	—	SS	Gy	VF	TR Py, Micro, fss	A	Gy-fms	lim spots in top 1'; A lim specks below; Calc. A 50.6; N Bedding
53.0	10.2	—	—	—	SS	Gy	VF	TR Py, Micro, fss	A	Gy-fms	Cbn fms; thin lam
63.0	9.0	—	—	—	SS	Gy	VF	TR Py, Micro, fss	A	Gy-fms	50.6; N Bedding
66.1	9.4	—	—	—	SS	Gy	VF	TR Py, Micro, fss	A	Gy-fms	Cbn fms; S fms; Thin incl Bedding; Base; fss
70%	46.6	—	—	—	SS	Gy	VF	TR Py, Micro, fss	A	Gy-fms	—

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est		
Base	Thick	U3O8	V2O5	Cu	CaCO3	Base	Thick	U3O8	V2O5
		22.8	1.2	<0.005					
		24.1	1.3	<0.005					
		35.7	0.9	<0.010					
		40.2	1.1	<0.010					
		56.8	1.7	<0.005					

U.S. GEOLOGICAL SURVEY  
LIBRARY

NOV 21 1969

DENVER

BARREN

logged between  
34' - 78.0'

\*Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 011-32 (Mr )  
Inclination Vertical Bearing \_\_\_\_\_  
Total depth 261  
Collar elev. 5248.2 T \_\_\_\_\_ P \_\_\_\_\_  
Area Plateau Wash

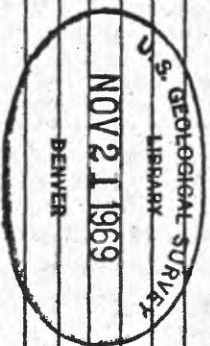
Map coord (T) \_\_\_\_\_  
Map coord (P) \_\_\_\_\_  
Sec. D-2 T. 44S R. 14E  
Co., State Navajo Co., Ariz

Claim \_\_\_\_\_  
Date completed 16 Aug 55  
Date logged 17 Aug 55  
Logged by PCF

Graphical log

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks				
	1	58.5	0.8	100	ST	gyss	ST	Amia, TR R.	N	-	Calc. thin lens. Top 1/2 in in the dendritic spacks;				
		58.8	0.3	100	ST	gy	ST	Amia, lig, Mn	N	-	Thin lens still gyss NS, ST; thin ripple lens				
		261	173	67	MS-ST	RFR	ST	Amia	N	-					
Sample		Lab assay (%).			Sample		Lab assay (%).			Interval	Y-ray	Y-ray (%) or	Field est		
Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>



\*Assays marked "g" are from lab Gamma-ray readings

GPO 8350-41

Hole No. 011-32

Rev	HLC	N. SW
Ed		

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 041-33 (Nix)  
Inclination Vertical Bearing -  
Total depth 116.5'  
Collar elev. 5043.5 ± T 1 P  
Area Ogata Wash  
Summary of log 35 ; OBSS from 35 to 95 ; SS color Light ; MSgy-GyGx; Chn. S-A

Map coord (T)  
Map coord (P) T 44 S R 15 E  
Sec. 12-2  
Co., State Nevada

Claim -  
Date completed 12 Aug 58  
Date logged 18 Aug 58  
Logged by PCF

Rev	HK
Ed	1-3-58

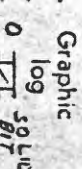
LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Chn	MS in SS	Remarks
0.0	30410	10.0	10.0	-	Gal	-	-	-	-	-	Solid BR, No Core
10.0	BIT	10.5	0.5	60	Gal	-	-	-	-	-	RBR sand and
17.1	7.3	17.1	6.6	94	SS	Gy-Brgy	F-S Gts	Mica, Int Wls	A	Gy-Gx-Yu	Chn Fks, Int VS 50G; Calc. 50
18.0	3.9	-	-	-	-	-	-	-	-	-	Pk Ch grs; Top 1.5" V wea-
22.5	2.2	-	-	-	-	-	-	-	-	-	shaded, soft dense, hard
26.0	5.0	-	-	-	-	-	-	-	-	-	below; Thin, thick Bedded
31.0	7.5	-	-	-	-	-	-	-	-	-	Thin lens; 5 Ripple lens w/
39.5	9.9	29.2	12.8	83	MS	Gy-GyGx	ST	Mica	VS	-	Thin ST
43.5	14.5	-	-	-	-	-	-	-	-	-	Chn Fks; Calc.; Ripple lens
63.0	14.5	30.7	0.9	100	ST	Lgy	ST	VA Mica	A	-	Chn, Fks; Thin lens
77.5	14.3	32.0	1.3	100	MS	Gy	ST	Mica	VS	-	Chn, Fks; Calc.; Ripple lens
92.0	14.7	35.2	3.2	100	ST	Lgy	ST	VA Mica	A	-	Chn, Fks; Calc.; Base Fcs
106.5	14.5	35.9	0.7	100	MS	Gy	ST	Mica	VS	-	Chn, Fks; Thin lens; Base Fcs
116.5	10.0	55.0	19.1	99	SS	Lgy	VE-FE-M	Mica; A Int Wls	A	A-Gy-GyGx	Chn, Fks; Frag; Int; Calc; A 50G
		-	-	-	-	-	-	-	-	-	in VE; Thin incl Beddings; Basal
		-	-	-	-	-	-	-	-	-	21 E-C
		57.6	2.6	100	SS	Lgy	VE	A Int Wls clay	A	4-Gy-GyGx	VA gy in basal @ 2'; Calc.; 50G;
		-	-	-	-	-	-	-	-	-	V thin Bedded
		81.2	23.6	100	SS	Lgy	VE-SF	Mica; Py	VS	VS; Gys; P	Chn, Int; waxy Fms; VS Beddings
		-	-	-	-	-	-	-	-	-	Calc; A 50G; Gradational in base
		83.2	2.0	100	SS	Lgy	VE-FE	Int Wls clay	A	A-Gy-GyGx	Chn, Int; waxy Fms; VS Beddings
		-	-	-	-	-	-	-	-	-	in VE; Thin incl Beddings; Calc.

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est				
Base	Thick	U3O8 *	V2O5/Cu	CaCO3	Base	Thick	% U3O8	Base	Thick	U3O8	V2O5



BARRETT



116.5  
77.5  
63.0  
39.5  
31.0  
26.0  
22.5  
18.0  
17.1  
10.0  
0

\* Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 001-33 (N<sub>1</sub>)  
Inclination Vertical Bearing —  
Total depth 116.5  
Collar elev. 5043.3± T — P —  
Area District of Alaska

Map coord (T) —  
Map coord (P) —  
Sec. D-2 T 44S R 15E  
Co., State Navajo Co., Ariz.

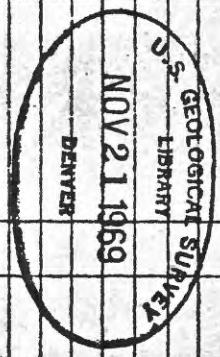
Claim —  
Date completed 17 Aug 55  
Date logged 18 Aug 55  
Logged by ECF

Rev HK  
Ed 1-2-55

Graphic log

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		92.5	9.3	100	SS	Lgy	WE-M/ WE-SG	A Tot Wk. Clay. A Py: S Mica	A Tur Frag	gy: fms; B Int	Calc.; SOG; Thin-thick incl Bedding; VA B nodules w/ VACbn 583.2-847.5, 285.8-879.4
		91.5	0.8	100	SS	Lgy	VF	Mica, Py	A	N	Clay Int. Frag: A SOG; S Calc.; N Bedding; Trace FeS
		97.1	3.8	100	MSST	gygn	ST	A Mica	N	—	Thin Ripple lam gradation - al below. Top lam
		116.5	19.4	100	MSST	RBR	ST	A Mica	N	—	ST; Thin Ripple lam



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval		Y-ray	Y-ray (%) or Field est		
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		Base	Thick	U <sub>3</sub> O <sub>8</sub>
Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>

\* Assays marked "e" are from lab gamma-ray readings

CPO 035041

Hole No. 001-33



# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 041-34 (1/1)  
Inclination Vertical Bearing —  
Total depth 113.0  
Collar elev. 5251.8 T — P —  
Area Alta Vista Wash

Map coord (T) —  
Map coord (P) —  
Sec. D-2 T 44 S R. 15 E  
Co., State Ariz Co.

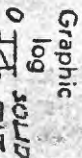
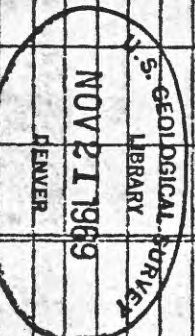
Claim —  
Date completed 18 Aug 53  
Date logged 18 Aug 53  
Logged by PCF

SS color — MS — Cbn. S-d

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	10.0	10.0	10.0	—	Gal						Solid 13 1/2" No Core.
10.0	30.0	30.0	30.0	5	Gal						Sand gravel
30.0	32.2	32.2	32.2	82	MS	fin-Gy	ST				Clay sly; Thin lam
32.2	44.7	44.7	44.7	100	MS/ST	Gy	ST				Clay fks; Thin Rippled lam; 55
44.7	50.9	50.9	50.9	100	SS	Gy	VE-F; SH				Thin incl Bedding; Gradational above below; Top 1/2
50.9	53.1	53.1	53.1	91	MS/SS	Gy	VE/ST				Rippled lam; Thin lag; Rippled lam; Gradational below 100
53.1	66.5	66.5	66.5	—	MS	Gy	VE-F				
66.5	76.5	76.5	76.5	8.6	MS	Gy	VE-F				
76.5	86.5	86.5	86.5	95	SS	Gy	VE-M; SC				Chy. fks; frags; Int. S Calc; S SDG; Incl Bedding. (121)
86.5	91	91	91	—	SS	Gy	VE				Clg at base
91	106.5	106.5	106.5	48	SS	Gy	VE				V Calc
106.5	113.0	113.0	113.0	—	SS	Gy	VE				
113.0	61.4	61.4	61.4	82	SS	Gy	VE				A SDG; Calc; Thick, thin horz Bedding; Mottled; V Calc; Int. patches by CaCO <sub>3</sub> con
61.4	84.8	84.8	84.8	100	SS	Gy	VE				MS, mica; calc; V Calc; Incl Bedding; Base; Thin Rippled lam; Top 1/2
84.8	93.1	93.1	93.1	14	MS-SS	Gy	ST				Thin Rippled lam; Top 1/2
93.1	113.0	113.0	113.0	83	MS-SS	Gy	ST				Thin, Rippled lam; S Gy; MS

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%) or	Field est
Base	U <sub>3</sub> O <sub>8</sub>	Thick	U <sub>3</sub> O <sub>8</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub>	U <sub>3</sub> O <sub>8</sub>
	93.1	14	0.3				
	113.0	18.8	0.3				
	61.4	16	100				
	84.8	14	0.3				
	113.0	18.8	0.3				



*SHARPEN*

\*Always marked "g" are from lab gamma-ray readings

CGO 235041

Hole No. 041-34

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. DW-35 (N<sub>1</sub>)  
Inclination Vertical Bearing —  
Total depth 79.0  
Collar elev. 5075.5 T — P  
Area Alta Wash

Map coord (T) —  
Map coord (P) —  
Sec. D-2 T 44S R 13E  
Co., State Nevada Co. Ariz

Claim —  
Date completed 18 Aug 55  
Date logged 19 Aug 55  
Logged by RCF

Rev	Ed
412	1

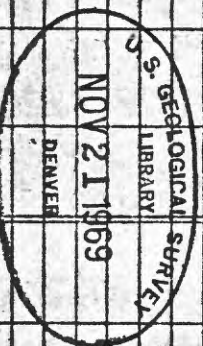
Graphic log

## DRILL LOG

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access.	Minr.s.	Cbn	MS in SS	Remarks
0.0	10.0	10.0	10.0	—	—	—	—	—	—	—	—	Solid Bit No Core
10.0	15.7	—	5.7	100	SS	Lgy-Ye	F-M	VA Micq. Int	—	A	VA; GY; Int	Chn. Int. Frags; PK Ch gns; N Rdding
20.0	23.1	—	3.1	99	MS	Gy	ST	4 Micq. Silica	—	A	—	5thd Lgy lim stained Ripple lam ST of top; Calcite nodules
25.0	—	—	—	—	—	—	—	—	—	—	—	> 20.0 - 20.6; Thin lami; Base Rec 2
39.0	—	—	—	—	—	—	—	—	—	—	—	Chn. Int. Frags; S Calc; Sdg; Thin incl Rdding; B most A
42.0	—	—	—	—	—	—	—	—	—	—	—	in M-C sand of A Chn 2270 - 28.5; Vc ss; V Calc; Grada-tional below
44.0	—	—	—	—	—	—	—	—	—	—	—	Chn. Int. Frags; Calc; S Sdg; N Rdding
46.0	—	—	—	—	—	—	—	—	—	—	—	A chn fine in top 2.5; Calc; V Calc; Sdg; A thin Rdding
79.0	—	—	—	—	—	—	—	—	—	—	—	Rdding; Base Rec
66.6	—	—	—	—	—	—	—	—	—	—	—	Thin lami; Top Int
97.9	—	—	—	—	—	—	—	—	—	—	—	5thd Gyss; M-S; Lgy Calc ST; Thin; Ripple lami; Partly CaCO <sub>3</sub> Com > 59.0 - 67.4

Sample	Thick	Lab assay (%)			Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub>	Cu	CaCO <sub>3</sub>	Base	Interval	Thick	Y-ray	Base	Thick	Y-ray (%) or	Field est
		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub>	Cu														
97.9	—	58.1	0.9	78	MS-ST	Gy Gm	ST	Mica	TR Gy	N	N	—	—	—	—	—	—	—
—	—	72.0	30.9	94	MS-ST	RBR	ST	Mica	TR Gy	N	N	—	—	—	—	—	—	—

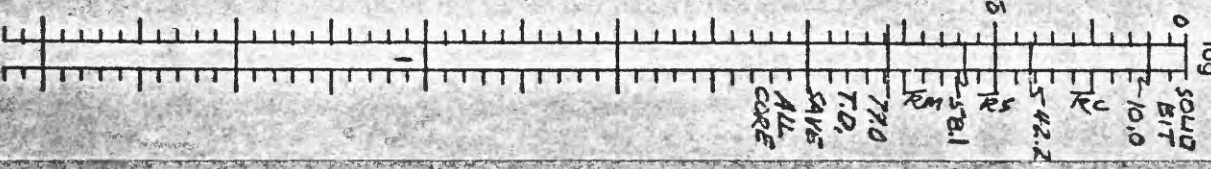


BARRPEN

\*Assays marked "e" are from lab gamma-ray readings

DPO 835611

Hole No. DW-35



**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 011-36 (N x )  
Inclination Vertical Bearing ---  
Total depth 72.2  
Collar elev. 5055.9 T --- P of ---  
Area Oloto Wash Co., State Nevada

Map coord (1) ---  
Map coord (P) ---  
Sec. D-3 T. 44 S. R. 15 E  
Co., State Nevada

Claim ---  
Date completed 19 Aug 55  
Date logged 20 Aug 55  
Logged by PCF

Rev	Ed
HK	1-25

Graphic  
log

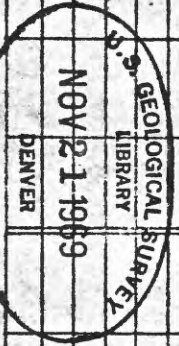
**DRILL LOG**

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access	Min's.	Cbn	MS in SS	Remarks
0.0	50.10	10.0	10.0	---	Gal	---	---	---	---	---	---	SOLID BIT NO CORE
10.0	40.10	30.0	20.0	2	Gal	---	---	---	---	---	---	25' is in the interval RBY
												sandy, finely to coarsely
												crystalline dense, at 2 1/2 ft
30.0	10.0	30.9	?	?	ST	L. Brkly	ST	A Mica	A	A Ggy	3rd	Cbn Fms; Base Rec
36.0	5.4	38.3	7.4	100	SS	L. Mudgy	VE	A Mica, Int Wk	S	S; Ggy-Gy Gm	Fms	S; Beddings; Calc; SO G; Top
43.0	6.0											
43.9	6.4	43.7	5.4	58	SS-CG	Lgy-gy	E-CGL	Int Wk clay	A	Gy; P Int		Cbn fms; Int, Thin Bedded
53.9	8.1											in E-N; Calc; SO G
62.2	10.0	56.5	12.8	98	SS	Lgy	VE	Mica, S Int	S	S; Ggy; fms		Cbn, Int Fms on Ms. Calc; A
72.2	9.6	58.8	2.3	100	MS ST	Gy Gm	ST	Mica	N	---		SO G; s Beddings; Base Fms
62.2	40.0	72.2	13.4	97	MS	RBR	ST	A Mica	N	---		Thin, Ripole lam; Top Fms
												Gradational below
												Thin lam

Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Sample	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Interval	Thick	% U <sub>3</sub> O <sub>8</sub>	Y-ray	Base	Thick	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>
Base					Base					Base							

*Handwritten:* DANNEY



\* Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 011-37 (N) )  
Inclination Vertical Bearing —  
Total depth 495  
Collar elev. 5073.5 T 1 REV'S Sec. 608 R-3 T. 44 S. R. 15 E  
Area Dyab Wash Co., State Navajo Co. Ariz.

Map coord (T) —  
Map coord (P) —  
REV'S Sec. 608 R-3 T. 44 S. R. 15 E  
Co., State Navajo Co. Ariz.

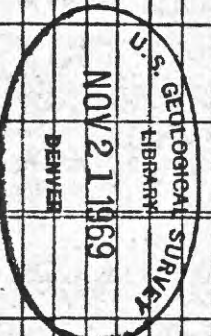
Claim —  
Date completed 22 Aug 55  
Date logged 23 Aug 55  
Logged by PCF  
OBS from 45 to 50+ thick 5 ft ; SS color Lgy ; MS Gy ; Cbn A

Rev	HK
Ed	1-2258

LITHOLOGIC LOG

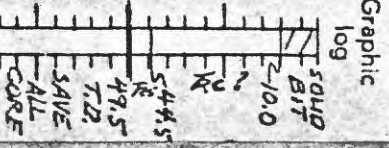
DRILL LOG	Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
	0.0	10.0	10.0	—	—	MS	Lgy Gy	ST	A Micaceous sh	A	—	Solid Bit No Core
	10.0	20.0	10.0	3.3	33	MS	Lgy Gy	ST	A Micaceous sh	A	—	Cbn fks; Thin lam
	20.0	22.8	2.8	9.2	92	ST-SS	Lgy Gy	ST-VE	A Micaceous sh	A	—	Cbn fks; Calc; Ripple lam
	20.0	24.2	4.2	84	MS-ST	Lgy Gy	ST	A Micaceous sh	A	5	—	Cbn fks; Thin; Ripple lam
	20.0	25.4	5.4	98	ST-SS	Lgy Gy	ST-VE	A Micaceous sh	A	5	—	Cbn fks; Calc; Ripple lam
	20.0	32.6	12.6	100	SS	SS	Lgy Gy	VE	A Int. sh. clay	S	—	Calc; Thin ind. Bedding; S
	30.0	33.5	3.5	79	79	ST	Gy	ST	A Int. sh. clay	S	—	Ripple lam
	30.0	36.8	6.8	100	100	ST-SS	Lgy Gy	ST-VE	A Micaceous sh	S	—	Cbn fks
	30.0	37.6	7.6	0.8	8.7	MS	Gy	ST	A Micaceous sh	A	—	Ripple lam; Calc
	30.0	39.9	9.9	92	92	ST	Lgy Gy	ST	A Micaceous sh	A	—	Cbn fks; Thin lam
	30.0	44.5	14.5	100	100	ST-SS	Lgy Gy	ST-VE	A Micaceous sh	S	—	Cbn fks; Calc; Ripple lam
	30.0	47.5	17.5	91	91	SS	Lgy Gy	E-MS	A Int. sh. clay	A	—	Cbn fks; Calc; Base Rec 2
	30.0	48.5	18.5	—	—	—	—	VE	A Int. sh. clay	A	—	Cbn fks; Calc; S. 50 G
	30.0	31.0	—	—	—	—	—	—	—	—	—	—
	30.0	78%	—	—	—	—	—	—	—	—	—	—

Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray				
	U3Og *	V2O5/Cu	CaCO3		U3Og *	V2O5/Cu	CaCO3		Thick	% U3Og	Base	Thick	U3Og
Base	Thick	U3Og *	V2O5/Cu	CaCO3	Base	Thick	U3Og *	V2O5/Cu	CaCO3	Base	Thick	U3Og	V2O5



*BIRREN*

\* Assays marked "e" are from lab gamma-ray readings



# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. DW-37A (N<sub>1</sub>)  
 Inclination Vertical Bearing —  
 Total depth 99.0  
 Collar elev. 5073.57 T — Map coord (P) —  
 Area Ogata Wash Prof. Sec. Cor D-5 T 44 S R 25 E  
 Co., State Adams Co., Ariz.

Map coord (I) —  
 Map coord (P) —  
 Sec. — T 44 S R 25 E  
 OBS from 50 to 76 thick 2.6 ; SS color K Gy ; MS Gy - Gy Ss; Chn. A

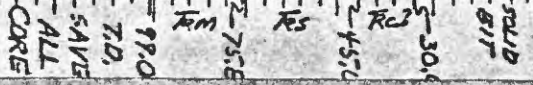
Claim —  
 Date completed 22 Aug 55  
 Date logged 23 Aug 55  
 Logged by PCF ; MS Gy - Gy Ss; Chn. A

Rev	HK
Ed	1-27-55

## LITHOLOGIC LOG

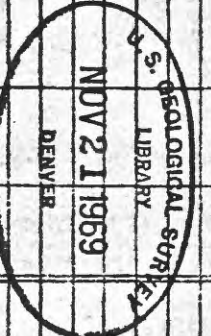
Depth	Rec ft.	Lab assay (%)		Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu							
007	30.0	20.0	—	—	—	—	—	—	—	Solid Bit Ab Core
	32.5	2.5	100	ST-SS	LB-Gy	ST-VE	Amica; Tot wh	fts	Gy; tbd,	Calc; Ripple lam
	—	—	—	—	—	—	Amica; Tot wh	fts	—	—
	33.5	1.0	70	MS	DGy	ST	Mica	fts	—	Thin lam
	34.5	0.5	100	ST	Gy	ST	Amica	A	—	Chn fks; Thin, Ripple lam
	36.1	3.6	97	ST-SS	LB-Gy	ST-VE	Amica; Tot wh	A	Ay Gy; tbd	Calc; Ripple lam; Gy
	—	—	—	—	—	—	Amica; Tot wh	fts	—	—
	39.3	1.2	92	MS	DGy	ST	Mica	A	—	Chn fks; lim stain at top;
	—	—	—	—	—	—	Amica; Tot wh	A	—	Thin lam
	40.5	1.2	100	ST	Gy	ST	Mica; Py	A	—	Py nodules at 40.2; Chn; fks;
	—	—	—	—	—	—	Amica; Tot wh	A	—	Ripple lam
	43.0	4.5	100	ST-SS	LB-Gy	ST-VE	Mica; Tot wh	A	Gy; tbd	Chn; fks; Pms; Calc; Ripple
	—	—	—	—	—	—	Clay; lim stain	A	—	—
	50.0	5.0	100	SS	KGy	VE-F <sub>2</sub>	Amica; Tot wh	A	Gy; Tot fms	Chn; fks; frags; Tot; Calc; S
	—	—	—	—	—	—	Py; TR Mica	A	—	50g; Thin ind Bedding; Segre
	—	—	—	—	—	—	Amica; Tot wh	A	—	gated into bands of differ
	—	—	—	—	—	—	Amica; Tot wh	A	—	gn size; A Chn; Py at 44.5'
	50.6	0.6	100	ST	Ga Gy	ST	Amica	S	Ga Gy; tbd	Chn; fks; Ripple lam
	52.1	1.5	100	SS	KGy	VE-M	Amica; Tot wh	A	Gy; Gy Ss	Chn; Int; frags; Thin ind
	—	—	—	—	—	—	TR Py; Mica	A	—	Bedding; S S D Gy; S Calc;
	—	—	—	—	—	—	Amica; Tot wh	A	—	Segregated bands of
	—	—	—	—	—	—	Amica; Tot wh	A	—	diff; gn size

Graphic log



Sample	Lab assay (%)		Base	Sample	Lab assay (%)		Base	Interval	Y-ray	Y-ray (%) or	Field est		
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu			U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu							
Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu <td>CaCO<sub>3</sub></td> <td>Base</td> <td>Thick</td> <td>U<sub>3</sub>O<sub>8</sub> *</td> <td>V<sub>2</sub>O<sub>5</sub>/Cu <td>CaCO<sub>3</sub></td> <td>Base</td> <td>Thick</td> <td>U<sub>3</sub>O<sub>8</sub> *</td> <td>V<sub>2</sub>O<sub>5</sub></td> </td>	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu <td>CaCO<sub>3</sub></td> <td>Base</td> <td>Thick</td> <td>U<sub>3</sub>O<sub>8</sub> *</td> <td>V<sub>2</sub>O<sub>5</sub></td>	CaCO <sub>3</sub>	Base	Thick	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub>

BARRRY



\* Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drillhole No. D10-37A (N<sub>1</sub>)  
Inclination Vertical Bearing —

Map coord (T) \_\_\_\_\_

Claim \_\_\_\_\_

2-2

Total depth 990  
Collar elev. 5073.5 ± T \_\_\_\_\_

Map coord (P) \_\_\_\_\_

Date completed 22 Aug 55  
Date logged 23 Aug 55

Rev	474	1-2-56
Ed		

Area District 1156  
Summary of log \_\_\_\_\_

Sec 500 Cor D-37 445 R. 1156  
Co, State Montezuma Co. Ariz.

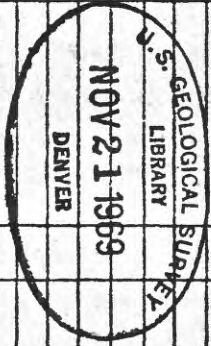
Observed from 570 to 75 thick 25 SS color L Gy MS Gy-gy Gr; Cbn. A  
Logged by PCF

Graphic log

**DRILL LOG**

**LITHOLOGIC LOG**

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		54.3	2.2	100	SS	L Gy	C-C Gy; S-E-M	A Int w/ Clay TRMica: S Fy	A	A-gy-gy Gy Int P	Cbn, Int frags, smgs & SO <sub>2</sub> g Calc N Bedding
		45.5	1.2	100	ST	L Gy	ST	A Mica	S	Gy, fms	Cbn fks: Ripple, lam
		75.8	20.3	100	SS	L Gy-L Bry	VF	A Mica, S Int w/ Clay N-A Int lim in f spots	S	5-A/5-Gy fms	Calc. A SO <sub>2</sub> g; A/N Bedding S/A lim > 56.6 - 63.05: lim > 70.8 - 75.8 < 13.50. Trs
		77.9	2.1	100	MS ST	Gy Grn	ST	A Mica	N	—	This lam; Top Trm
		99.0	21.1	100	MS	R Br	ST	A Mica	N	—	S 1 <sup>st</sup> GY Gr MS, L Gy Calc ST; Thin lam; S Ripple lam



Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray		Y-ray (%e) or		Field est
	U <sub>3</sub> O <sub>8</sub> *	V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>		Base	Thick	U <sub>3</sub> O <sub>8</sub> *		V <sub>2</sub> O <sub>5</sub> /Cu	CaCO <sub>3</sub>	Base	Thick	
Thick													

\*Assays marked "e" are from lab gamma-ray readings

# GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Critchhole No. Oil-38 (Nkr)  
Inclination Vertical Bearing ---  
Total depth 95.0  
Collar elev. 5208.27 T 1 P  
Area Ojito Wash

Map coord (T) ---  
Map coord (P) ---  
Sec. E-3 T 44-S R 10-W  
Co., State Nebraska

Claim ---  
Date completed 21 Aug 53  
Date logged 22 Aug 53  
Logged by Barf

Rev	H1	1452
Ed		

Graphic log

OBS from ST to B6 thick 4 1/2; SS color Lgy-LBr Gg; MS Gg-Gy Gg; Cbn S

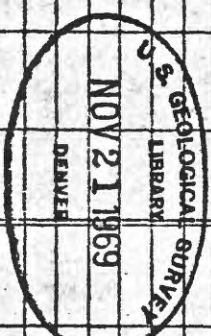
## DRILL LOG

## LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	5.5010	10.0	10.0	---	Gal						Solid Bit No Core
10.0	5.5017	23.04	13.04	0.0	Gal						Sand Gravel
		23.84	0.8	100	SS	LBr Gy	VE-F		N	A. Gyg P	Thin Incl Bedding; VS 50 Gg, 50
30.0	5.5018	37.0	13.24	17	MS	Gy Gm	ST		S	---	Calcy. TR Mica Cbn, Dis. Fe Gg. Thin Ripple
37.0	5.5019	53.2	16.2	69	SS	LBr Gy	VE		TR	S. Gyg P	Mica, A MS 2 420' - 470'; Calcy. A 50 Gg; S Bedding; Grada-
47.0	5.5020	---	---	---	---	---	---		Int	Fms	lateral below; 700 Fms Thin wavy Bedding; Calcy. A
57.0	5.5021	---	---	---	---	---	---		TR	4. A. Gy Gm	Thin wavy Bedding; Calcy. A
67.0	5.5022	57.0	0.6	100	SS	LBr Gy	VE		N	Int	Bedding; Calcy. A 50 Gg
75.8	5.5023	57.6	2.6	62	SS	LBr Gy	VE		N	A. Gy-Gyg	A 50 Gg; Calcy. Thin Bedded
87.0	5.5024	61.1	1.5	100	SS	LBr Gy	VE		N	Int	S. Mica; N Bedding; A 50 Gg
87.5	5.5025	63.2	5.1	90	SS	LBr Gy	VE		A	A. Gy-Gyg	Cbn, Dis. Int; Calcy. A 50 Gg
95.0	5.5026	78.25	12.6	76	SS	LBr Gy	VE		S	S. Gy-Gyg	Thin Bedding
95.0	5.5027	80.5	1.7	100	SS	LBr Gy	VE		TR	S. Gy Gg	Cbn in MS; MS split 2 69.8'- 70.3'; S Bedding; Calcy. A 50 Gg

Sample	Lab assay (%)	Sample	Lab assay (%)	Interval	Y-ray	Y-ray (%)	Field est		
Base	Thick	U3O8	V2O5	K2O	CaCO3	Base	Thick	U3O8	V2O5

BARRETT



Assays marked "e" are from lab gamma-ray readings

CD 8350 41





GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 0111-39 (NX)  
Inclination Vertical Bearing ---  
Total depth 83.5'  
Collar elev. 5076.7 T 1 P 3  
Area Ojo de Wash

Map coord (1)  
Map coord (P) T 445 R 137E  
Sec. E-2  
Co., State Navajo Coy Ariz.

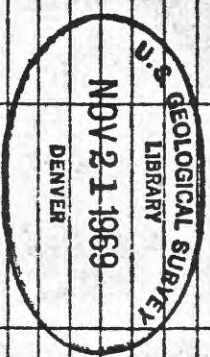
Claim ---  
Date completed 21 Aug 55  
Date logged 22 Aug 55  
Logged by RCF

Summary of log ---; OBSS from 2 to 64 thick 53; SS color Yellowy; MS gy; Chn. S

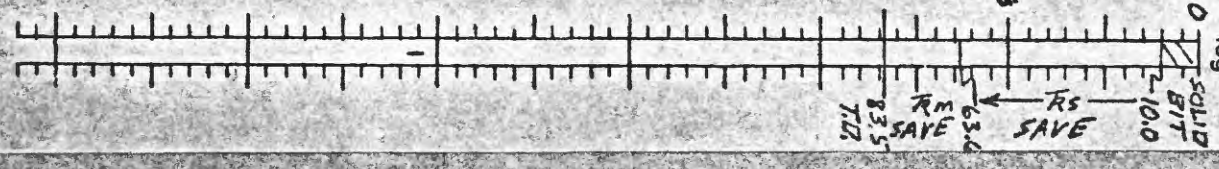
DRILL LOG

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Cbn	MS in SS	Remarks
0.0	1.50L10	10.0	10.0	---	---	---	---	---	---	---	---
10.0	1.81T	36.2	26.24	92±	SS	Yellowy	WE-S/E Interbedded clay	---	S	1/2 gyfms	Solid Bt; No Calc; R <sub>s</sub> ST to 9 ft ±; R <sub>s</sub> SS below.
20.0	6.6	---	---	---	---	---	---	---	---	---	Thin ind Bedding
26.5	5.8	---	---	---	---	---	---	---	---	---	---
36.5	10.0	---	---	---	SS	Yellowy	VE	S/A lim; mica; VS	VS	N	VE lim specks/c lim specks; Calc; V. sole; N Bedding; Base R <sub>s</sub>
46.5	7.0	---	---	---	---	---	---	---	---	---	---
53.5	10.1	65.6	2.0	90	MS ST	gygn	ST	A mica; AB	N	---	lim stain for top 0.2'; Thin, Ripple lam.; Stibd RBR MS; Top R <sub>s</sub>
63.5	8.9	---	---	---	---	---	---	---	---	---	VS thd gygn MS; Lgy Calc
73.5	9.4	83.5	17.9	94	MS	RBR	ST	A mica	N	---	ST; Thin lam
83.5	9.1	---	---	---	---	---	---	---	---	---	---
94.9	68.9	---	---	---	---	---	---	---	---	---	---



BARRAN



\*Assays marked "e" are from lab gamma-ray readings

**GEOLOGIC AND ASSAY LOGS**

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. DW-40 (NY)  
Inclination Vertical Bearing —  
Total depth 76.0  
Collar elev. 5084.3 T — P —  
Area Dyeto Wash

Map coord (T) —  
Map coord (P) —  
Sec. E-2 T 4-5 R. 16-5  
Co., State —

Claim —  
Date completed 22 Aug 57  
Date logged 23 Aug 58  
Logged by PCP

Rev 1-1  
Ed 1-27-58

Graphic log

LITHOLOGIC LOG

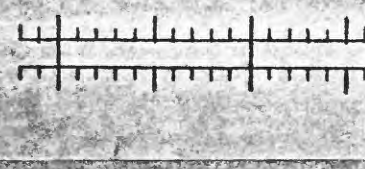
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	5.1	10.0	10.0	—	SS	Yellow	WE-C/	A Int wh clay	KS	S. Gy - Gg	Solid Bit, No Core
5.1	8.1	23.2	13.2	57	SS	Yellow	C-CG	fine stony S mica	MS Int	bedding in E material, 50G	
8.1	5.6	35.8	12.6	99	SS	l Br Gy	WE-M	lim, A Int wh clay, TR mica	A S. Gy - Gy Gg	lim stony, specks, Calc 50G	
13.7	9.9	—	—	—	—	—	—	—	—	aggregated into buds of different size; thin lined	
23.6	2.3	—	—	—	—	—	—	—	—	bedding; A Chn. Frag up 13.7 - A	
25.9	3.6	—	—	—	—	—	—	—	—	lim 24.2 - 42.7	
29.5	9.4	38.2	2.4	38	SS/G	lgy	A-CG	A Int wh clay	VA	A. Gy. Int	Chn. Int frags; Calc. 50G
38.9	9.4	—	—	—	—	—	SE	AP; mica	VA	frag, P	bedding indistinct
48.3	9.8	42.1	3.9	90	SS	lgy-l	WE	S. lim, S mica	VA	S. M. Gy	Calc. Calc; slick frags up
58.1	76.0	58.7	10.6	74	MS	brk lgy	ST	S. Gyp. Mica	S	Dis. Ind. frags, P	Gyp; W bedding; Ripple lam
68.7	53.1	—	—	—	—	—	—	—	—	frag. Thin lam; Ripple lam at base	frag. on slick frags; Cbn frags
73.8	84.2	57.7	5.0	100	SS	lgy	WE-SCG	Mica; TR Pyat	SA	S. A. Gy. Gg	Reworked Tm at base; Calc.
78.8	—	—	—	—	—	—	—	—	—	frag	A 50G; S Pat base; A MS galls at base; Base 75.5
84.2	—	58.9	1.2	92	MS	rgn	ST	Mica; Pyat	N	—	Thin lam; Top Tm
85.4	—	76.0	17.1	97	MS	RBR	ST	A Mica	N	—	Thin lam; S. Ind & Gy Calc
—	—	—	—	—	—	—	—	—	—	—	ST; S Ripple lam

Sample	Lab assay (%)	Sample	Lab assay (%)
Base	U3O8 * V2O5 Cu CaCO3	Base	U3O8 * V2O5 Cu CaCO3
Thick	—	Thick	—

Interval	Y-ray	Y-ray (%) or	Field est
Base	U3O8	Base	U3O8 V2O5
Thick	—	Thick	—
% U3O8	—	% U3O8	—

U.S. GEOLOGICAL SURVEY LIBRARY  
NOV 21 1969  
DENVER

BRARREN



\* Assays marked "e" are from lab gamma-ray readings

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY  
COLORADO PLATEAU DISTRICT

Drill-hole No. 001-41 (N<sub>1</sub>)  
Inclination Vertical Bearing —  
Total depth 53.0  
Collar elev. 5026.9 T — P  
Area Alto Wash

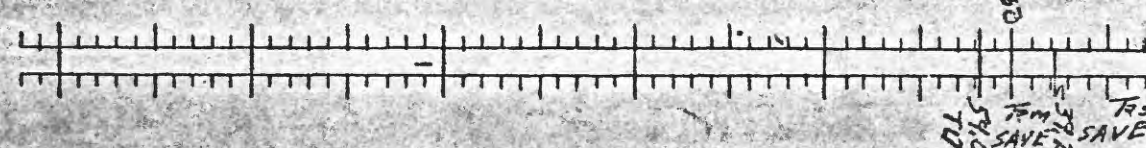
Map coord (T) —  
Map coord (R) —  
Sec E-3 T 41S R 13E  
Co., State Navajo Co., Ariz

Claim —  
Date completed 28 Aug 55  
Date logged 23 Aug 55  
Logged by PCF

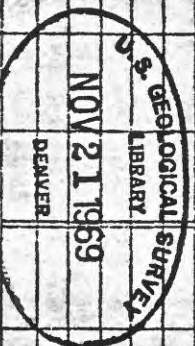
Summary of log —; OBSS from 10 to 39 thick 29; SS color gy-l to gy; MS gy; Cbn S

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
0.0	50.0	10.0	10.0	—	—	—	—	—	—	—	Solid bit No Core
10.0	51.0	14.6	4.6	87	SS	gy-l to gy	E-C	Mica, Tot wh	A	gy, Tot	Calc. N SO Gy. S Bedding V
16.5	51.9	21.5	5.0	100	SS	gy-l	VE-SHbd	Mica, Tot wh	S	gy, fmsy	Muddy. Pk Ch gas
29.0	12.4	—	—	—	SS	Yd gy	F-N	clay. lim stain	As	Int	Calc. S SO Gy. Thin incl Bedding
44.0	14.7	31.9	10.4	99	SS	Yd gy	VE-E-M	Int wh clay	S	N	A lim stain specks. Calc. S SO Gy. Thin incl Bedding
59.0	14.1	—	—	—	SS	Yd gy	VE-C	Mica. TR Gy	Int	—	Gradational below
49.0	47.1	33.9	2.0	100	SS	gy	F-N, S	Int wh clay	S	gy, Tot	Top 1' stain. Yd Gy. S Bedding
96.9	—	34.9	1.0	90	MS	gy-ss	VE-C	Mica. TR Gy	Int	—	Calc. N SO Gy
—	—	39.2	4.3	100	SS	gy-l	VE	lim stain	S	—	Thin iron
—	—	40.5	6.1	100	ST	Yd gy	VE	lim specks	S	A gy-gy, Calc. A SO Gy. Thin. Ripple	Thin iron
—	—	59.0	10.7	94	MS	gy-ss	ST	Mica	As	fmsy, P	Thin iron
—	—	—	—	—	MS	gy-ss	ST	Mica	N	—	Thin iron
—	—	—	—	—	MS	gy-ss	ST	Mica	N	—	Thin iron



\*Assays marked "e" are from lab gamma-ray readings



CRG 83041

U.S. Geol. Surv.

(200)  
R29+  
70.1331

69-301

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE  
1969

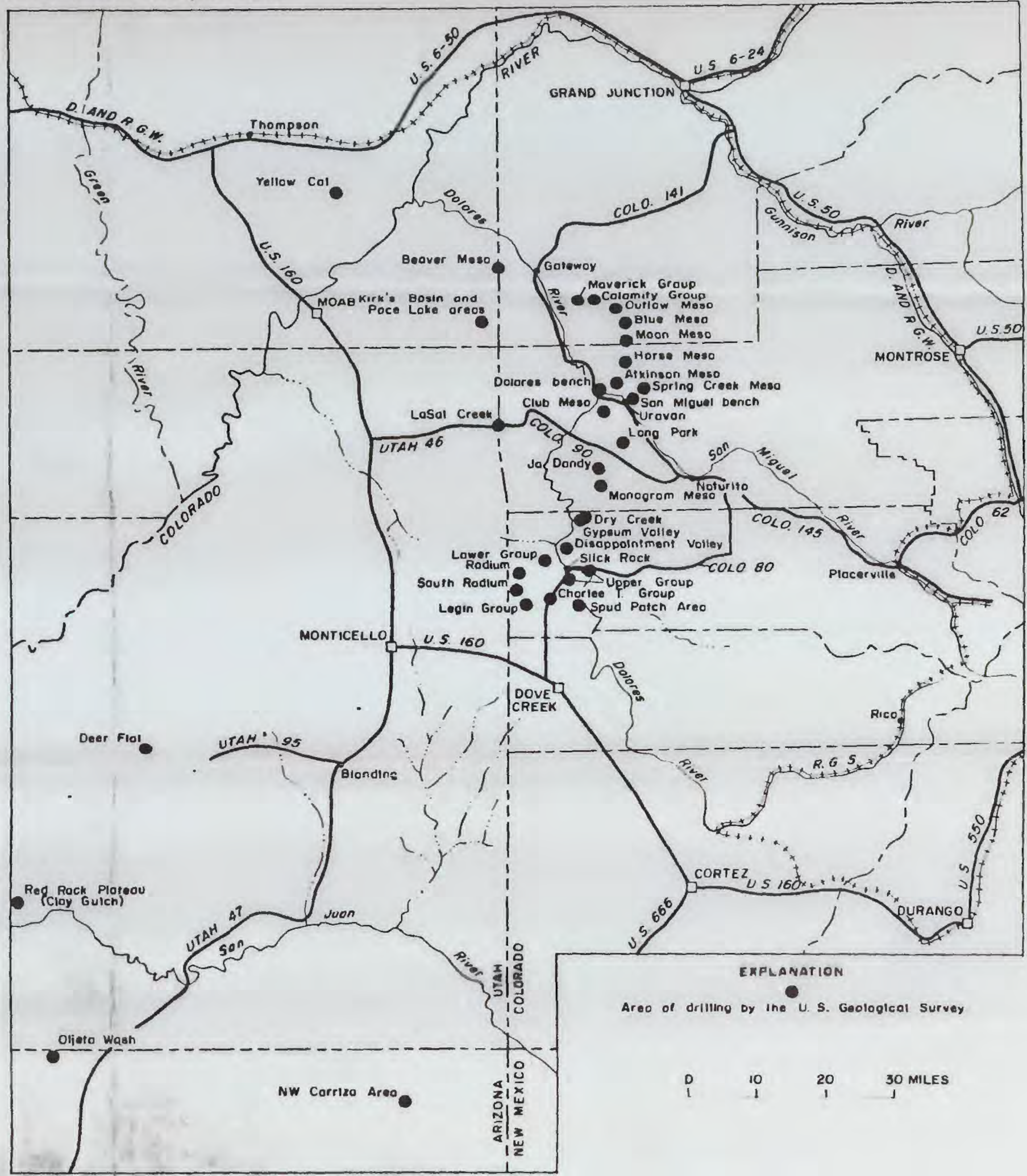


Figure 1.-- MAP OF PART OF THE COLORADO PLATEAU, SHOWING THE AREAS OF DRILLING, NOVEMBER 1947-APRIL 1956

This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards.

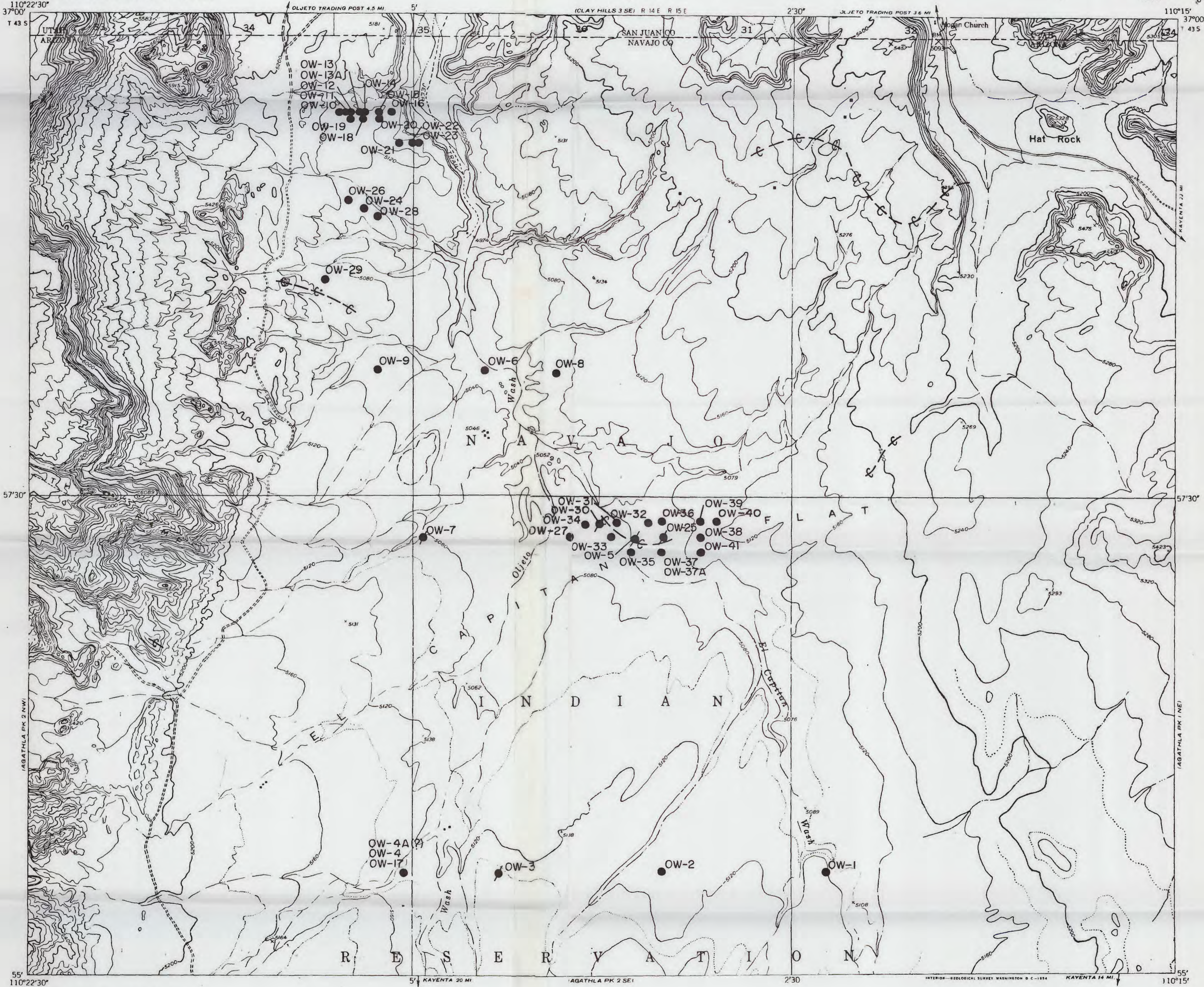
U.S. GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER

(200)  
R29x  
74.1331

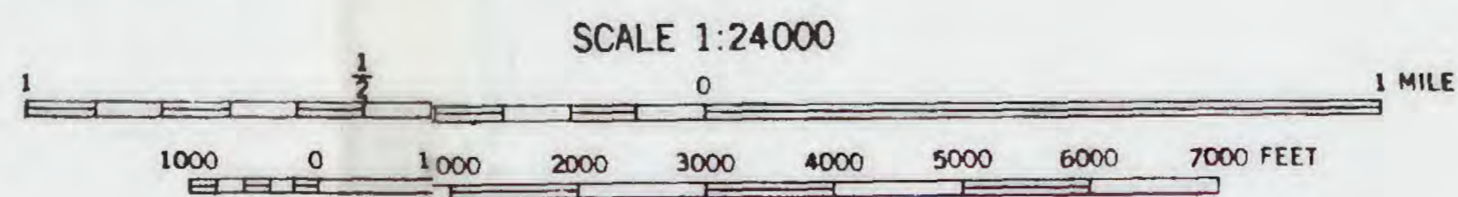
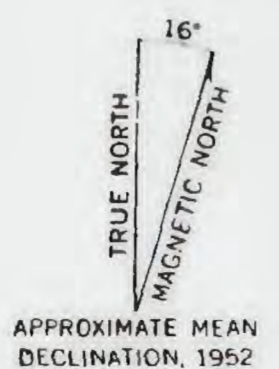
69-301

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE  
1969



Base from U.S. Geological Survey  
Agathla Peak 2 NE, 1952



CONTOUR INTERVAL 40 FEET  
DOTTED LINES REPRESENT HALF INTERVAL CONTOURS  
DATUM IS MEAN SEA LEVEL

**EXPLANATION**

● OW-2 Barren hole

● OW-3 Mineralized hole

— — — — Axis of Shinarump-filled channel scoured in top of Moenkopi Formation

NOTE For description of geology of area see Witkind, I. J., and Thaden, R. E., 1963, Geology and uranium-vanadium deposits of the Monument Valley area, Apache and Navajo Counties, Arizona: U.S. Geol. Survey Bull. 1103

U.S. GEOLOGICAL SURVEY  
LIBRARY  
NOV 21 1969  
DENVER

Figure 2.--MAP SHOWING LOCATIONS OF HOLES DRILLED IN 1955 BY U.S. GEOLOGICAL SURVEY, OLJETO WASH AREA, NAVAJO COUNTY, ARIZONA

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards.