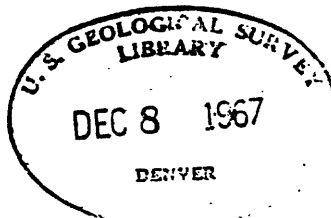


(205)
R. 298
ms. 969

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Logs of holes drilled in 1955 and 1956 by U.S. Geological Survey,
Dry Creek Basin area, Bull Canyon district, Montrose and
San Miguel Counties, Colorado



Open-file Report

1967

67-257

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

Logs of holes drilled in 1955 and 1956 by U.S. Geological Survey,
Dry Creek Basin area, Bull Canyon district, Montrose and
San Miguel Counties, Colorado

In the period November 1955 to April 1956, inclusive, the U.S. Geological Survey drilled 18 holes in the southwest part of the Dry Creek drainage area, Montrose and San Miguel Counties, Colorado. The holes were drilled to evaluate the favorability of the Salt Wash Member of the Morrison Formation of Jurassic age as a host for uranium deposits. This work was part of a program of exploration conducted on behalf of the U.S. Atomic Energy Commission.

The factual results of this drilling are set forth in the following items that accompany this note.

1. Lithologic logs of the holes
2. An explanation of abbreviations used in the logs
3. Index map and map showing location of the holes

ABBREVIATIONS FOR GEOLOGIC AND ASSAY LOGS

<u>Rock name</u>	<u>Color description</u>	
CG - conglomerate or conglomeratic	Wh - white	Bk - black
SS - sandstone	Br - brown	Pp - purple
MS - mudstone	R - red	L - light
ST - siltstone	Gy - gray	D - dark
CS - claystone	Bl - blue	
LS - limestone	Gn - green	
CH - chert or cherty	Yw - yellow	

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

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

- N - none
- S - sparse
- A - abundant

Chemical abbreviations

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

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

- | | |
|---------------------------------|--|
| 1. fav - favorable | 12. lim - limonite |
| 2. semifav - semifavorable | 13. mot - mottled |
| 3. unfav - unfavorable | 14. OBSS - ore-bearing sandstone |
| 4. alt - altered | 15. op - opaques or opaque |
| 5. Bby - Barnaby | 16. qtzc - quartzitic |
| 6. carn - carnotite | 17. H - high) |
| 7. Cond - condense or condensed | 18. L - low) use only for U ₃ O ₈ |
| 8. disc - discard or discarded | 19. Tr - trace) |
| 9. frac - fracture | |
| 10. med - medietional | |

ABBREVIATIONS FOR GEOLOGIC AND ASSAY LOGS--Continued

Symbols for stratigraphic units

- Kbc - Burro Canyon Formation
- Jmb - Brushy Basin Member of the Morrison Formation
- Jms - Salt Wash Member of the Morrison Formation
- Jmr - Recapture Member of the Morrison Formation
- Js - Summerville Formation
- Je - Entrada Sandstone

Additional Information for Claim Owners

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_3O_8 " gives the uranium oxide values based on visual estimates and portable geiger-counter readings made by the field geologist. The column headed " V_2O_5 " 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_3O_8 . Values preceded by "e" are determined by a laboratory gamma-ray scanner; they represent equivalent U_3O_8 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_3O_8 ," 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_3O_8 .

γ -ray log.--The column headed " γ -ray log" contains no information of use to the claim owner or lessee.

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

GEOLOGIC AND ASSAY LOGS

Drill hole No. MH 243 (M, B)

Inclination Vertical Bearing ---

Total depth 385.0

Collar elev. 7220.4 T ---

Area Monte Vista Mts., Dry Creek Basin

Map coord (T) T4400N, S1100W

Map coord (P) ---

Sec. 9 T. 44 N., R. 17 W.

Co., State San Miguel

Claim Public Land

Date completed 8 Nov 55

Date logged 5 Nov 55

Logged by ECF

Summary of log Unfavorable; OBSS from 554 to 586 thick 32; MS Sh, RB; Cbn. N
Favorable 24 RB, Gn N 0.0
Favorable 675 747 LXW Gy - 1 Gy Gn, RB S

DRILL LOG

Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	log
7.0	235.0	27.50	--	MS	RB	ST	VF, Sls., Mica	N	---	Plant pit, No. Co. Co., Khebas 5° dip, Hhd RB - ST, VF ss with A; Pl; Oy, A; R. Gg; Int; Ms. Well indurated in basal 2 ft.	Play Bit 235.0
24.0	210.1	8.3		MS	RB, Mt	ST	VF, Sls., Mica	N	---		
27.0	214.2	4.1		ST	R Gy	ST	R; Ch, VF, Sls., Mica	N	---	S; L; Cu; Gn; V. Calc. V. dense. S; R; B; G; Gn; Int; S; M; S.	
38.5	358.2	6.40		MS/ST	RB - L;	ST	R; Ch, A; VF;	N	---	S; VF - F; sand gns. V Calc	
38.0	---	---		MS-ST	Gy Gn	---	Sls; Mica	---	---	G; Gn. MS, ST Mt by pite by 300 CaCO ₃ Corn. Hhd. RB; VF; M ss with R; Ch Int; R; B; M; S.	
39.5	340.8	2.6		LS-ST	L Gy	ST	Calc. crystals	N	R; B; 17 Ind; thin layer	S Bedding, Incl Fracs. V	
40.5	352.2	11.4		MS-ST	RB	ST	VF; Sls; Mica	N	---	Calc. dense	
41.4	---	---		ST-SS	wh	ST-VF	A; R; Ch, A; Oy	N	---	Thin V's L. Gy Gn - Mt RB VF and ls. up to 0.6 ft thick, S Mt + fr. A. Int; U; C. clay.	
43.0	---	---		ST-MS	wh	ST	Qtz; gns.	---	---	0.8 ft. V Calc; Ory 5.0 ft base. N Bedding, V dense, indurated.	
44.5	361.4	1.2		MS	Pp	ST	A; R; Ch; N; K;	N	---	S; with. Pp; Ms. N Bedding; Thin layer. Bentonitic (B). Thin layer.	
46.0	372.6	1.2		MS	Pp	ST	VF; Sls; Mica	N	---	Thin layer.	

Sample Thick	Lab assay (% U ₃ O ₈ + V ₂ O ₅ /Cu CaCO ₃)		Sample		Lab assay (% U ₃ O ₈ + V ₂ O ₅ /Cu CaCO ₃)		Interval		Y-ray		Y-ray (%e) or U ₃ O ₈		Field est U ₃ O ₈ V ₂ O ₅	
	Base	Thick	Base	Thick	Base	Thick	Base	Thick	% U ₃ O ₈	Base	Thick	U ₃ O ₈	V ₂ O ₅	
7.0														
24.0														
27.0														
38.5														
38.0														
39.5														
40.5														
41.4														
43.0														
44.5														
46.0														

Thin B
- 53326
- June 55

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 243 (N45E)
Inclination Vertical Bearing
Total depth 885.0
Collar elev. 6720.4 T P
Area Monogram Mesa, Dry Creek Basin

Map coord (T) Z4400 N 81100 W
Map coord (P)
Sec. T R R
Co., State San Miguel Co., Colo.

Claim Public Land
Date completed Nov 55
Date logged Nov 55
Logged by RCF

Summary of log Favorable; OBSS from 554 to 586 thick 32; SS color Lgy; Cbn. N
Favorable 617 647
Favorable 675 747

LITHOLOGIC LOG

Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	Jms 12 -7663 35(3) J3(6) -8772 38(6) -8879 70
3615	376.6	14.0		MS-ST	RBR	ST	VF-Mica; Fks.	N		15 ft. Cap. at top. S.M.F. Fy Gyr. Sphing. Rbr. ST. 10 F.L.S. S.F. sand grain	
3810	385.0	8.4		SS	Rgy	MF	Rick	N	A:RBR Int S: fbbd.	Int. Mgy. Clay. Bedding fract. Y Cbn. V. Dense	
4000	394.1	9.1		MS-ST	RBR	ST	VF-Mica; Fks.	N		S: Gy Gyr; MS. fbbd. Sphing. 37 RBR. S.F. Fks.	
4065	399.0	4.9		MS-ST	Gy Gyr	ST	VF-Fks; Mica	N		S: RBR. Thin Gy; LS. F.L.S. Cbn. Rtt. by coloration by Calc. 700	
4195	402.7	3.7		LS	Lgy-BK	VF-C.		N		S: fbbd; Gy; ST, MS. Contour- ed Bedding	
4345	433.4	30.7		MS-ST	Lgy-L	ST	R; Ch	N		1.3 ft. BK; Cbn. MS. sand at below top. R. Cbn. in soil	
4575										FOCUS. A; F sand grains. 1 contorted Bedding. V. dense from 407 ft. to 415 ft. near dational below.	
4745	458.4	25.0		MS-ST	Rgy, Not	ST	N	N		locally Calc. V hard. Cbn. dational below.	
4885	468.5	10.1		MS-ST	RBR	ST	F; Fks; Mica	N		S: Gy Gyr. V hard. Contorted below. S.F. sand grain.	
5000											

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

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

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 243 (N.S. 24)
Inclination Vertical Bearing —
Total depth 855.0
Collar elev. 6720.4 T P
Area Murray Basin Dry Creek Basin

Map coord (T) T4400N; 8100W
Map coord (P) —
Sec. Murray T. R.
Co., State, San Miguel Co., Colo.

Claim Public Land
Date completed Nov 55
Date logged Nov 55
Logged by PCF

Summary of log Semi-favorable; OBSS from 534 to 586 thick 32; SS color. Gray; Chn. dk
Favorable 617 to 641 thick 24
Favorable 675 to 747 thick 72

LITHOLOGIC LOG

Depth	Rec ft.	Lab assay (%)		Sample		Lab assay (%)		Interval		Y-ray		Y-ray (%e) or		Field est			
		U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	% U ₃ O ₈	Base		Thick	U ₃ O ₈	V ₂ O ₅
500.0	3.1	48.8	5	19.8	MS-ST	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
509.0	14.0	—	—	—	MS-ST	Gray-Rib	ST	—	—	—	—	—	—	—	—	—	—
524.5	10.3	—	—	—	MS-ST	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
535.0	14.8	—	—	—	MS-ST	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
537.0	14.6	—	—	—	SS	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
565.0	14.4	—	—	—	MS	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
580.0	13.3	—	—	—	MS	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
595.0	11.8	—	—	—	MS	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
607.0	12.6	—	—	—	MS	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
620.0	15.0	—	—	—	MS	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—
635.0	9.6	—	—	—	MS	Gray-Gay	ST	—	—	—	—	—	—	—	—	—	—

Depth	Rec ft.	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
509.0	14.0	Gray-Rib	ST	Vf. Fks; Mica	N	—	S. R. Br. Cy. Gr. Sp. F. fossil grains.
524.5	10.3	Gray-Gay	ST	Vf. Fks; Mica	N	—	Bentonitic (C)
535.0	14.8	Gray-Gay	ST	N	N	—	Bentonitic. Sp. thin lam.
537.0	14.6	Gray-Gay	ST	—	—	—	Thin lam.
565.0	14.4	Gray-Gay	ST	—	—	—	Thin lam.
580.0	13.3	Gray-Gay	ST	—	—	—	V hard.
595.0	11.8	Gray-Gay	ST	—	—	—	Thin lam.
607.0	12.6	Gray-Gay	ST	—	—	—	V hard. SiO ₂ con. (C). S.
620.0	15.0	Gray-Gay	ST	—	—	—	Thin lam.
635.0	9.6	Gray-Gay	ST	—	—	—	V hard. SiO ₂ con. (C). S.

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

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. MM 243 (M, B)
Inclination Vertical Bearing —
Total depth 825.0
Collar elev. 6120 ± T P
Area McGregor Mesa, Dry Creek Basin Co., State San Miguel Colo.

Map coord (T) Z4400 N 5100 W
Map coord (P) —
Sec. 25 T. R
Claim Public Land
Date completed 8 Nov 55
Date logged 8 Nov 55
Logged by RCF

Rev 1-27-57
Ed —

Summary of log Semifavorable; OBSS from 554 to 586 thick 32; SS color gray; MS gray, RBE; Cbn. N
Favorable 617 to 641 thick 24
Favorable 675 to 747 thick 72

Depth	Rec ft.	Lab assay (%)		Sample	Lab assay (%)		Interval	Y-ray (%e) or Field est		Remarks
		U3O8	V2O5/Cu		CaCO3	U3O8		Base	Thick	
645.0	146	55.3	6.6	55	VF-MF	VF-MF	N	MS in SS	MS in SS	A-SiO2, con. Gradational below. Hard.
660.0	146	57.8	8.8	55	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
675.0	15.0	56.9	4.4	MS	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
690.0	14.8	57.8	8.8	MS	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
705.0	15.0	58.6	2.7	ST	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
720.0	14.8	61.6	1.7	MS	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
735.0	14.9	64.0	1.5	SS	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
750.0	14.8	64.6	1.7	MS/ST	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
765.0	15.0	64.9	1.5	ST	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.
780.0	15.0	67.5	1.3	ST/MS	VF-MF	VF-MF	N	MS in SS	MS in SS	VF-MF, con. Gradational below. Hard.

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

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

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. W-243 Bearing —
 Inclinometer Vertical
 Total depth 2850
 Collar elev. 6220 ± T
 Area Manitou Plateau, Dry Creek Basin
 Map coord (T) 24400N-81100W
 Map coord (P) —
 Sec. 14 T. R.
 Co., State Colo.
 Claim Public Land
 Date completed 8 Nov 55
 Date logged 8 Nov 55
 Logged by PCF
 Rev HK
 Ed F272

Graphic log

Summary of log Favorable; OBSS from 554 to 586 thick 32 32; SS color Light; MS Gn, Rbk; Cbn. N
Favorable; 617 to 641 thick 24 24; MS Gn, Rbk; Cbn. N
Favorable; 675 to 747 thick 72 72; MS Gn, Rbk; Cbn. N

LITHOLOGIC LOG

Depth Rec ft.	Lab assay (%)			Lab assay (%)			Lab assay (%)			Interval			Y-ray (%e) or Field est				
	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	%e U ₃ O ₈	Y-ray	Base	Thick	U ₃ O ₈	V ₂ O ₅
780.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
795.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
810.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
825.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
840.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
855.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
870.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
885.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
900.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
915.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
930.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
945.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
960.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
975.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
990.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1005.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sample	Lab assay (%)			Lab assay (%)			Lab assay (%)			Interval			Y-ray (%e) or Field est				
	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	%e U ₃ O ₈	Y-ray	Base	Thick	U ₃ O ₈	V ₂ O ₅
780.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
795.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
810.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
825.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
840.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
855.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
870.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
885.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
900.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
915.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
930.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
945.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
960.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
975.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
990.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1005.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remarks:
 780-795: Thin, micaceous ss. Calc. A-S. Qz. S.
 795-810: Thin, micaceous ss. Calc. A-S. Qz. S.
 810-825: Thin, micaceous ss. Calc. A-S. Qz. S.
 825-840: Thin, micaceous ss. Calc. A-S. Qz. S.
 840-855: Thin, micaceous ss. Calc. A-S. Qz. S.
 855-870: Thin, micaceous ss. Calc. A-S. Qz. S.
 870-885: Thin, micaceous ss. Calc. A-S. Qz. S.
 885-900: Thin, micaceous ss. Calc. A-S. Qz. S.
 900-915: Thin, micaceous ss. Calc. A-S. Qz. S.
 915-930: Thin, micaceous ss. Calc. A-S. Qz. S.
 930-945: Thin, micaceous ss. Calc. A-S. Qz. S.
 945-960: Thin, micaceous ss. Calc. A-S. Qz. S.
 960-975: Thin, micaceous ss. Calc. A-S. Qz. S.
 975-990: Thin, micaceous ss. Calc. A-S. Qz. S.
 990-1005: Thin, micaceous ss. Calc. A-S. Qz. S.

Drill-hole No. MM-244 (BX)
 Inclination VERTICAL Bearing _____
 Total depth 1002.1
 Collar elev. 6620.0 T 44 N R 17 W
 Area MONOGRAM MESA
 Map coord (T) 69,780 N 90,060 E
 Map coord (P) _____
 Sec. 14 T 44 N R 17 W
 Co., State MONTROSE, COLORADO
 Claim Public Land
 Date completed 2-8-56
 Date logged 2-9-56
 Logged by ESS
 Summary of log UNEAY. ; OBSS from 650 to 661 thick 11 ; SS color LG ; MS EXGN ; Cbn. M
FAY. 720 to 752 32

Graphic log
 0.0
 PLUG BIT
 No
 CORE
 650.0
 COND

LITHOLOGIC LOG															
DRILL LOG	Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	Interval	Y-ray (%) or Field est		
													U3O8 *	V2O5/Cu	CaCO3
650.0	13.8	650.0	650.0		SS	LG	M	Sj;BKjOP	N	Sj;EN;INT	PLUG BIT - NO CORE BOTTOM 1' VERY HARD				
664.0	15.0	660.8	10.8		ST	EXGN			N		INTERVAL BETWEEN 709.0-718.8 GROUND UP AND LOST - CONTACT FROM BARNABY LOG				
579.0	14.3	661.2	0.4	83	MS/ST	R/EX			N						
694.0	15.0	718.8	57.6						N						
709.0	0.6								N						
724.0	6.0	719.8	1.0	50	MS	GN			N						
730.0	11.2	751.7	31.9		SS	LG	M/IM	Sj;BKjOP	S	Sj;DE;SM	TOP CONTACT FROM BARNABY LOG				
741.2	14.5	752.6	0.9		MS	DEY			N						
756.2	14.0	759.5	6.9		SS	LG	M/F		N	Aj;R;SM					
771.2	11.9	780.3	20.8		MS/ST	R/LR/EX			N						
784.0	8.0	788.5	8.2		SS	LR/LR	F/IMF	Sj;BKjOP	N	Aj;R;BR;INT					
793.2	15.0	796.2	7.7		ST/MS	R			N		SANDY ST				
808.2	14.7	816.3	20.1		SS	LR	F/IMF	Sj;BKjOP	N	Aj;R;P;SM;INT	EXGN; MS; P; IN BOTTOM 1' S; THIN VE; SS; RIBS				
823.2	15.0	831.4	15.1		MS/ST	R			N						
838.2	11.3	838.2	6.8		SS	LR	F/IMF	Sj;BKjOP	N	Aj;R;P;EM;INT					
847.5	14.5	868.4	30.2		MS/ST/SS	LR/R	F	Sj;BKjOP	N	Aj;R;P;EM;INT	THINLY BEDD; MS, ST, SS				
864.0	15.0	887.5	17.1		SS	LR	F/IMF	Sj;BKjOP	N	Aj;R;EN;P;EM;INT	S; THIN F; SS; RIBS S; R; MS, ST; RIBS 0.5 TO 1.0 THICK				
879.0	12.5	910.3	22.8		MS/ST	R			N		VERY HARD				
891.5	15.0	977.8	67.5		SS	LR	F-MF	Sj;BKjOP	N	Sj;R;P					
906.5	14.9	986.5	8.7		SS	GN/LG	VF	VS;BKjOP	N	Aj;EN;P;INT					
921.5	14.9	989.9	3.4		MS/ST	GN			N						
936.5	9.5	997.8	7.9		SS	LG/EXGN	F	MS;BKjOP;S;SULPHIDES	N	Aj;EN;INT					
946.5	14.0								N						
950.5									N						

985.0
 SCAN
 COND
 1002.1
 GPO 8350 41
 Hole No. MM-244
 *Assays marked "e" are from lab gamma-ray readings

GEOLOGIC AND ASSAY LOGS

SHEET 2 of 2

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. MM-244 ()
 Inclination _____ Bearing _____
 Total depth _____
 Collar elev. _____ T _____ P _____
 Area _____

Map coord (T) _____
 Map coord (P) _____
 Sec. _____ T _____ R _____
 Co., State _____

Claim Public Land
 Date completed _____
 Date logged _____
 Logged by _____

Rev ELK
 Ed 7/15/66

Summary of log _____; OBSS from _____ to _____ thick _____; MS _____; Cbn. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
960.5	15.0	999.8	2.0		ST/MS	GN		A; SULPHIDES	N		ST; SANDY
975.5	12.5	1002.1	2.3		SS	GYGN	F	VS; BR; O; P; S; SULPHIDES	N	A; GN; INT	T.D. 1002.1
988.0											
1002.1	14.1										
352.1											
332.7	94.5										
352.1											
											BARNABY PROBED 7.4 To 1000.0 BARREN

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

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

Drill hole No. MM-245 (Bx/Ax)
 Inclusion VERTICAL Bearing _____
 Total depth 1005.0
 Collar elev. 6650.0 T _____ P _____
 Area MONROE-RAM MESA
 Map coord (T) 63970 N 99650 E
 Map coord (P) _____
 Sec. 19 T. 44 N R. 16 W
 Co., State MONROSE, COLORADO
 Summary of log UNFAVORABLE ; OBSS from 650 to 662 thick 12 ; SS color LGY-LGN ; MS GN ; Chn. N
FAVORABLE ; 813 to 859 thick 46 ; MS DGY ; Chn. V5

LITHOLOGIC LOG

Depth	Rec ft.	Lab assay (%)		Sample		Lab assay (%)		Interval		γ-ray		γ-ray (%e) or Field (e/s)		Remarks
		U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Thick	Base	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	%e U ₃ O ₈	Base	
650.0	15.0	650.0	650.0											PLUG BIT
665.0	14.7	661.6	11.6											MS IN SS
680.0	15.0	813.1	151.5											Si: THIN, HARD SS RIBS 2' TO 5' THICK
695.0	15.0	859.0	45.9											VS Si: DGY: P, FM
710.0	15.0	860.0	1.0											Si: THIN, HARD SS. RIBS
725.0	14.5	927.1	67.1											Si: THIN SS. RIBS
740.0	15.0	956.7	29.6											GRADES DOWNWARD INTO SS
755.0	14.2	968.0	11.3	68										ENTRADA?
770.0	15.0	980.8	12.8	76										T.P. 1005.0
785.0	15.0	988.8	8.0											
800.0	15.0	991.2	2.4											
815.0	15.0	1005.0	13.8											
830.0	14.9													
832.0	1.8													
847.0	13.6													
849.5	0.2													
852.0	12.4													
877.0	13.1													
892.0	14.3													
894.0	1.6													
909.0	13.4													
924.0	14.9													

DRILL LOG

Depth	Rec ft.	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
665.0	14.7	R/LGY/BR			N		Si: THIN, HARD SS RIBS 2' TO 5' THICK
680.0	15.0	LGY	MF/IM	VS: BK: OP	VS	Si: DGY: P, FM	
695.0	15.0	DGY			N		
710.0	15.0	R/LGYEN			N		Si: THIN, HARD SS. RIBS
725.0	14.5	R/LGY			N		Si: THIN SS. RIBS
740.0	15.0	R/LGY	MF	Si: BK: OP	N		GRADES DOWNWARD INTO SS
755.0	14.2	LGY			N		ENTRADA?
770.0	15.0	R/LGY	VF/IM	Si: BK: OP	N	A: BK: P	T.P. 1005.0
785.0	15.0	LGY	F	Si: BK: OP	N	Si: GN: P	
800.0	15.0	LGY			N		
815.0	15.0	LGY			N		
830.0	14.9				N		
832.0	1.8				N		
847.0	13.6				N		
849.5	0.2				N		
852.0	12.4				N		
877.0	13.1				N		
892.0	14.3				N		
894.0	1.6				N		
909.0	13.4				N		
924.0	14.9				N		

Drill-hole No. MM-245 ()
Inclination _____ Bearing _____
Total depth _____
Collar elev. _____ T _____ P _____
Area _____ Co., State _____

Map coord (T) _____
Map coord (P) _____
Sec. _____ T _____ R _____
Claim _____
Date completed _____
Date logged _____
Logged by _____

Rev H/K

Graphical
log

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn _____

LITHOLOGIC LOG

DRILL LOG		Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
Depth	Rec ft.										
924.0	14.9										
939.0	15.0										
954.0	9.7										
964.0	1.3										
972.0	9.9										
982.0	14.0										
997.0	6.4										
1005.0											
334.8	334.8										
334.8											
355.0											

334.8
355.0 = 94.3%

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

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 246 (BX)
 Inclination VERT Bearing -
 Total depth 1039.5
 Collar elev. 6610 T MM R 16 W
 Area DRY CREEK BASIN P
 Co., State SAN MIGUEL COLORADO

Claim ALICE #4
 Date completed 11-29-55
 Date logged 12-4-55
 Logged by RMW

Summary of log FAVORABLE; OBSS from 823 to 906 thick 30 : SS color LGY; MS RYG; Cbn. RY

LITHOLOGIC LOG

Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	
										MS in SS	Remarks
610.0 - 9.3	640.0	140.0		MS/ST							FLUG-BIT. NO CON
640.5 - 14.8	642.9	2.9		SS	Gh						S: RICH. GRAINS. S. BIOTITE
645 - 15.0	679.7	22.8		MS/ST	LGY	F+MF					A: W. INT. CLAY. MOD. GR. CO. 23
695 - 14.7	733.5	53.8		MS/ST	Gh						S: RICH. P. NO. R. MOT.
695 - 15.0	738.4	4.9		SS	LGY	MF-M					A: W. INT. CLAY. ROUNDED. (N. GRAINS
705 - 14.8	763.8	25.4		MS/ST	Gh						S: RICH. GRAINS. S: R. MOT.
725 - 15.0	822.8	59.0		MS	R						S: A: GR. MOT. FEW LG. ST. SP. LITS
735 - 15.0	906.2	83.4		SS	LGY	M/F					FRIABLE/MOD. SILICEOUS. THIN. #4
755 - 14.5	909.5	3.3		MS	Gh						THIN ST. SLBS
765 - 14.7	960.3	50.8		MS/ST	R/LGY						A: GR. MOT
785 - 14.9	983.7	23.4		SS	LGY	F-VF					S: W. INT. CLAY. POOR SORTING
815 - 14.7	984.7	1.0		MS	Gh						A: GR. MOT.
825 - 15.0	1001.4	16.7		MS/ST	R						A: GR. MOT. (P. MOT)
845 - 14.8	1004.2	2.8		SS	LGY	VF					S: W. INT. CLAY. POOR SORTING
855 - 14.8	1026.4	22.2		MS/ST	R/LGY						A: GR. MOT.
875 - 15.0	1039.5	13.1		SS	LGY	F-MF					S: LGY. A: R. P. W. INT. POOR SORTING. (P. MOT) GRAINS
885 - 4.8											TO 5.0 FEET
895 - 4.8											BARNABY PROBED FROM 1030.0
905 - 15.0											TO 5.0 FEET
925 - 14.6											BARREN

DRILL LOG

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

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

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. MM-248 (BX)
 Inclination Vertical Bearing _____
 Total depth 252.9
 Collar elev. 6650.10 T _____ P _____
 Area Manitou Mesa Dry Creek Basin
 Map coord (T) 442420N R 83200E
 Map coord (P) _____
 Section 11
 Co., State San Juan Co., Colo.
 Claim Public land
 Date completed 27 Dec 55
 Date logged 27 Dec 55
 Logged by RCF
 Summary of log Unfavorable; OBSS from 682 to 701 thick 17; SS color Grey-Black; MS Gr; Cbn N
 Graphic log

LITHOLOGIC LOG

Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks			
											Base	Thick	Lab assay (%)
	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	%e U ₃ O ₈	Base	Thick	U ₃ O ₈	V ₂ O ₅
718.6		1.1		SS	Gr	F	vs. Rich	N	N	Optical Ck; V. hard.			
720.0		1.4		MS/ST	R/Bk	ST	Mica	N	-	S. Mat; Gysen			
720.6		0.6		CS	L. Gysen		N	N	-	Bentonitic. Thin l.			
252.9		3.2		MS- ST/SS	R/Bk Gr	ST/VE- F	S-R; Ch; Fk; OP in SS. Mica in MS, ST	N	R/Bk, thd	SS is Gys - R/Gy, Gys, and Optical; S. Mat; Gysen; MS. 40% SS			
										Barren.			
										Logged between 677 252.9			

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

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

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. MM-249 (BX 1)
 Inclination VERTICAL Bearing _____
 Total depth 884.0
 Collar elev. 6720.0 T _____ P _____
 Area MONOGRAM MESA

Map coord (T) 72,960 N 84,500 E
 Map coord (P) _____
 Sec. 35 T. 44 N. R. 17 W.
 Co., State MONTROSE, COLORADO

Claim PUBLIC LAND
 Date completed 2-1-56
 Date logged 1-17-56
 Logged by ESS

REV 1
 DATE 2-5-56

Summary of log UNFAVORABLE ; OBSS from 791 to 711 thick 10 ; SS color LEY ; MS R, EN ; Cbn N
FAVORABLE

LITHOLOGIC LOG									
DRILL LOG	Depth	Rec ft.	Lab assay (%)		Sample		Lab assay (%)		Remarks
			U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Thick	Base	U ₃ O ₈ *	
	635.0	12.0	635.0						PLUG BIT
	648.0	9.0	639.0		MS	R//EY			
	657.0	9.0	641.2		ST	EY			
	669.0	10.2	645.9		SS	LEY			SANDY
	677.0	10.0	647.1		MS	G/EN			S; THIN SS RIBS
	692.7	13.7	701.2		MS//ST	R//EY			SANDY IN PLACES
	707.8	15.0	710.9		SS	LEY			MUCH OF LIGHT RED COLOR DUE TO Jms
	713.2	5.2	732.2		MS//ST	R//EY			A; R; S; INT
	728.2	13.7	754.2		SS	LEY//LR			
	739.0	10.8	761.1		MS	R			
	754.0	15.0	762.1		ST	EYEN//LEY			
	767.0	15.0	776.3		SS	LEY			GRADES INTO F; SS
	784.0	15.0	787.5		ST//MS	R//EYEN			VERY HARD SS
	794.0	10.0	791.0		ST	LEY			SANDY - S; THIN SS RIBS
	804.0	10.0	846.7		SS	LEY			SANDY - GRADES INTO F; SS
	814.0	9.7	849.9		MS	DGY			SS COARSER NEAR BASE
	834.0	10.0	864.3		SS	LEY			SULPHIDES IN CON; SS
	851.0	14.3	866.3		MS//SS	DGY//LEY			THIN, IRREGULAR SH OF SS
	871.0	13.0	884.0		MS//ST	R//EYEN			S; THIN SS RIBS
	884.0	13.0							TO 884.0

Interval	Lab assay (%)			Sample			Lab assay (%)			Interval			Y-ray (%) or Field est		
	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Thick	Base	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Thick	Base	Y-ray (%)	Thick	Base	U ₃ O ₈	V ₂ O ₅
249.0 - 253.4															
243.4 - 249.0															

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 250 (BX 1)
Inclination VERT Bearing -
Total depth 820.0
Collar elev. 6610
Area MONOGRAM MESA - DRY CREEK

Map coord (T) T2, B40N, B6, T40E
Map coord (P) 44N R. 17W
Section NO. 37
Co., State SAN MIGUEL, COLORADO

Claim PUBLIC LAND
Date completed 2-9-56
Date logged 2-9-56
Logged by RMW

Summary of log SEMI FAVORABLE; OBSS from 71.9 to 75.7 thick 1.8 to 6.3 : SS color LEY : MS Gr, R, G, L; Cbn. N
FAVORABLE

Graphic log

LITHOLOGIC LOG																
Depth PLUG BIT	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks					
650.0	5.5	650.0	650.0		MS/ST	R/Gn/ley			N		PLUG BIT, NO CORE					
655.5	4.0	689.6	39.6		SS	Gn/ley/G			N		SEVERAL THIN (<1.0') G.N. SS; RIBS					
659.5	2.0	703.1	13.5		MS	R	MF		N		MOD. Gr, INT					
661.5	2.9	716.9	13.8		ST	Gn			N		Ai Gr, INT. Aj CaCO3					
670.0	4.5	736.8	18.1		SS	LEY	M-MC		N		Sj MF; Qz; GRAINS					
674.5	0.2	737.1	0.6		MS	Gn			N		Ai Gr, INT. AI LARGE WH. IND. CLAY; N; CaCO3					
676.9	1.0	752.1	14.7		MS	R			N		Ai CaCO3					
677.9	5.3	813.1	61.0		SS	LEY	ME-C	S-R, CL, BK; OP.	N		S; Gr, INT. MOD. AREA; MOD. CaCO3					
683.5	15.0								N		S-A; R; B; INT. S; CaCO3 - S-A; WH. INT. CLAY					
698.5	15.0				MS	Gn			N		S-MOD; G; B; SH.					
713.5	6.2	815.3	2.2		MS	R			N		A/N; CaCO3					
720.0	1.4	820.0	4.7		MS	R			N		N/A CaCO3					
722.0	0.8										TD 820.0					
723.0	12.9															
738.0	13.1															
753.0	3.5															
756.5																
CONTINUED																
PAGE 2																
Sample	Lab assay (%)			Sample	Lab assay (%)			Interval	Y-ray (%a) or Field est							
	Thick	U3O8 *	V2O5/Cu		CaCO3	Thick	U3O8 *		V2O5/Cu	CaCO3	Base	Thick	U3O8	Base	Thick	U3O8
Base																

BARREBY PROBED FROM
6.2-819.8'
BARREN

NOTES:
(1) THE UPPER SANDS CONTAIN AN UNUSUAL AMOUNT OF SHINT; MS, AND GN CHERT (?).
(2) THE LOWER PART OF THE BASAL SAND CONTAINS COARSE GZ SANDS AND MS PEBBLES ... A CHANNEL ? ...

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 250 (BX)
 Inclin. Bearing
 Total depth
 Collar elev. T R
 Area MONOGRAM - DRY CREEK P
 Co., State

Claim
 Date completed
 Date logged
 Logged by RMW

Rev
 Ed

Graphic log

Summary of log to thick ; OBSS from to thick ; SS color ; MS ; Cbn.

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
76.2	7.7										
178.6	14.4										
193.6	14.8										
208.6	14.9										
213.6	4.8										
220.0	5.9										
170.0	159.8										
159.8	9.40										
170.0	9.40										

Sample	Lab assay (%)		Sample		Lab assay (%)		Interval		Y-ray		Y-ray (%e) or		Field est	
	U ₃ O ₈	Thick	U ₃ O ₈	Base	U ₃ O ₈	CaCO ₃	U ₃ O ₈	CaCO ₃	Base	Thick	%e U ₃ O ₈	Base	Thick	U ₃ O ₈
Base														
Thick														

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 251 (BX)
 Inclusion VERT Bearing -
 Total depth 770.0
 Collar elev. 6660.0 T P
 Area MANAGERAM (DRY CREEK BASIN)

Map coord (T) 71,430 N; 87,310 E
 Map coord (P) -
 Sec. 10 - T. 44 N R. 17 W
 Co., State SAN MIGUEL, COLORADO
 Claim PUBLIC LAND
 Date completed 2-21-56
 Date logged 2-21-56
 Logged by RMW

Summary of log FAVORABLE; OBSS from 687' to 760' thick 73'; SS color LG-GY; MS GL; Gm; Cbn. A

Graphic log
 log
 PLUG BIT
 CORE
 650'
 770'
 TD

LITHOLOGIC LOG

Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
650.0	14.9	650.0	6.0		MS//SS	R//GY			N		PLUG BIT. NO CORE SAVED.
665.0	15.0	667.2	17.2		SS	LG			N		Aj. Sn; MQt. SEVERAL V.F. SS; SPLITS
680.0	15.0	673.2	6.0		MS//SS	R//GY			N		Vs; Vh. INT. CLAY. Nj. CaCO3
695.0	15.0	686.8	13.6		SS	LG			N		Aj. Gmj; MQt.
710.0	14.9	710.0	23.2		SS	LG			N		A; Wk. INT. CLAY. Nj. CaCO3
725.0	15.0	730.0	20.0		SS	LG-GY			N		S-A; Wk. INT. CLAY. MQt. CaCO3
740.0	14.9	757.1	27.1		SS	LG			N		S; Wk. INT. CLAY. Vs; CaCO3
755.0	15.0	760.2	3.1		MS//SS	Gn			N		Va; CaCO3 IN SANDY SPLITS.
770.0	15.0	770.0	9.8		MS	R			N		Nj; MQt. TD 770
120.0	119.7										
119.7	99.7										
120.0	99.7%										

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

NOTE: (1) REQUEST SCAN FROM 710.0 TO 730.0 FEET
 (2) PLUG BIT CORE 315' TO 650' SAVED FOR STUDY

BARNABY PROBES FROM 768.5 TO 6.5 FEET
 BARNABY

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 252 (BX/AY)
 Inclination VERT. Bearing -
 Total depth 785.0
 Collar elev. - T 6565.8 P

Map coord (T) -
 Map coord (P) 71907N; 08397E
 Sec. 11 T. 44N R. 17W
 Co., State SAN MIGUEL, COLORADO

Claim PUBLIC LAND
 Date completed 4-5-56
 Date logged 4-5-56
 Logged by RMW

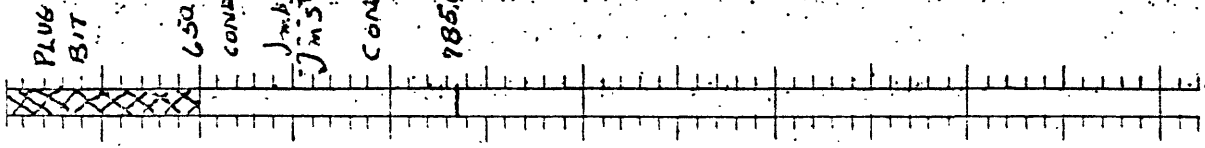
Rev	AS
Id	14

Summary of log FAVORABLE: OBSS from 704 to 740 thick 36 : SS color LG : MS Gn : Cbn. N
FAVORABLE 750 775 25 : SS color LG : MS Gn : Cbn. N

LITHOLOGIC LOG

Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks			
										Interval	Y-ray (%0) or	Field est	
Base	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Sample	U ₃ O ₈	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Thick	Base	Thick	U ₃ O ₈	V ₂ O ₅
PLUG BIT											PLUG BIT. NO CORE		
650.0	650.0	6.0		SS	Gn/LGY	F-VF	A: R: Ch.	N	S-Aj, Gn, R: P		A: INT.; S: SILICA; CaCO ₃		
664.0	683.8	10.7		SS	LG	MF-VC	VS: R: Ch.	N	A: G: G: P: INT		A: VC-PEPPERLE WH. INT. CLAY		
679.0	689.8	6.0		MS/SI	Gn			N	A: R: P		TUFFACEOUS (?) VS. CaCO ₃		
691.0	704.1	14.3		MS/SI	R			N	S: G: G: R: P		VS. R: MOT.		
700.0	739.9	35.8		SS	LG	M	VS: B; CA; BK: OP	N	S-Aj, Gn, INT		VS. Gn; MOT. FEW VF. S; SPLITS		
715.0	761.1	11.2		MS	R			N	S: G: G: INT		A: WH. CLAY P. MOD-AJ. CaCO ₃		
730.0	775.9	24.8		SS	LG	F-VC	S: R: Ch.	VS	VS: R; G: G: INT		FRAGILE. STRUCTURELESS		
745.0	785.0	9.1		MS	R			N	VA: R; G: G: P		VS; Gn; MOT. A/N; CaCO ₃		
755.0											A: TUFFACEOUS (?) P.		
770.0											VS: CaCO ₃ . VS; Gn; MOT.		
785.0											TD 785.0		
126.8											BARNABY PROBED FROM		
135.0											785.0 TO 4.8		
											BARRAN		

Graphic log



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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM-253 (Bx/AX)
 Inclusion VERTICAL Bearing
 Total depth 1200.0
 Collar elev. T 6647.3 P
 Area MONOGRAM MESA

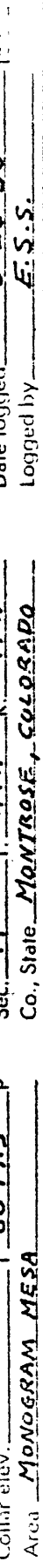
Map coord (T) 68,765 N 92,873 E
 Map coord (P) 68,765 N 92,873 E
 Sec. 14 T. 41 N R. 17 W
 Co., State MONTROSE, COLORADO

Claim MS EYEN; Cbn. V5
 Date completed 3-28-56
 Date logged 3-28-56
 Logged by E.S.S.

Summary of log SEMIFAVORABLE; OBSS from 765 to 796 thick 31; SS color LR, LGY; MS EYEN; Cbn. V5
 11 887 30 LGY, GY

LITHOLOGIC LOG																
Depth	Rec fi.	Lab assay (%)		Sample		Lab assay (%)		Interval		Remarks						
		U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃		Base	Thick	% U ₃ O ₈	Y-ray	Y-ray (%) or Field est	
628.0	69	628.0	628.0													
636.3	14.5	642.1	14.1													
650.8	14.5	648.6	6.5													
665.8	14.7	714.8	66.2													
680.8	14.7	765.0	50.2													
695.8	2.0	765.3	0.3													
698.0	6.5	795.8	30.5													
704.8	13.8	824.9	29.1													
717.8	13.6	826.3	1.4													
731.5	15.0	836.2	9.9													
749.5	14.5	836.4	0.2													
764.5	15.0	849.2	12.9													
779.5	9.9	853.6	4.3													
794.5	5.0	883.8	30.2													
799.5	13.8	885.6	1.8													
814.5	15.0	940.3	54.7													
829.5	10.0	958.4	18.1													
839.5	14.8	968.9	10.5													
854.5	0.0	975.5	6.6													
855.7	6.8	1037.6	62.1													
870.7	5.0	1157.2	119.6													
875.7		1200.0	42.8													

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



Graphical log
 0.0
 - PLUG BIT
 No CORE
 2628.0
 COND
 1100.0

GEOLOGIC AND ASSAY LOGS

SHEET 2 OF 3

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. MM-253 ()
 Inclination _____ Bearing _____
 Total depth _____ P
 Collar elev. _____ T _____
 Area _____

Map coord (T) _____
 Map coord (P) _____
 Sec. _____ T. _____ R. _____
 Co., State _____

Claim _____
 Date completed _____
 Date logged _____
 Logged by _____

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn _____; Graphic log _____

LITHOLOGIC LOG

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
875.7	12.6										
882.3	10.8										
899.3	15.0										
914.3	14.8										
929.1	14.8										
943.9	14.8										
958.7	0.9										
960.7	14.8										
975.5	14.8										
990.3	14.8										
1005.1	14.8										
1019.9	7.8										
1028.3	14.8										
1043.1	14.7										
1057.8	14.8										
1072.6	14.8										
1087.4	14.8										
1102.2	2.0										
1105.5	5.4										
1111.3	2.9										
1114.6	14.8										
1129.4	14.7										
1144.1											

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

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM-253 ()
 Inclusion _____ Bearing _____
 Total depth _____
 Collar elev. _____ T _____ P _____
 Area _____

Map coord (T) _____
 Map coord (P) _____
 Sec. _____ T. _____ R. _____
 Co., State _____

Summary of log _____; OBSS from _____ to _____, thick _____; MS _____; Cbn. _____
 Claim _____
 Date completed _____
 Date logged _____
 Logged by _____

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
1144.1	14.7										
1158.8											
1173.0	14.2										
1176.2	3.0										
1187.2	11.0										
1200.0											
572.0	543.9										
543.7	95%										
572.0											

Sample	Lab assay (%)		Sample	Lab assay (%)		Interval	γ-ray		γ-ray (%e) or	Fic-1 (e)
	U ₃ O ₈	V ₂ O ₅ /Cu		CaCO ₃	U ₃ O ₈		%e U ₃ O ₈	Base		
Base			Base			Base			Base	
Thick			Thick			Thick			Thick	

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

GEOLOGIC AND ASSAY LOGS

PAGE 1 OF 2

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. MM 25A 182/AX Map coord (T) _____
 Inclusion VERT Bearing _____ Map coord (P) 67, 071 N; 92, 949 E
 Total depth 929.2 Sec. 13 T. 44 N R. 17 W
 Collar elev. 16560.5 P. _____ Co., State SAN MIGUEL, COLORADO
 Area MONTEGRAM - DRY CREEK BASIN
 Summary of log FAVORABLE; OBSS from 880 to 927, thick 47 : SS color LG : MS color LG : Cbn. S
 Claim PUBLIC LAND
 Date completed 4-24-56
 Date logged 4-25-56
 Logged by RMW

LITHOLOGIC LOG									
DRILL LOG	Depth	Rec ft.	Lab assay (%)		Sample	Lab assay (%)		Interval	Remarks
			U ₃ O ₈ *	V ₂ O ₅ /Cu		CaCO ₃	U ₃ O ₈ *		
Base	Thick	Base	Thick	Base	Thick	Base	Thick	Base	Thick
PLUG BIT TO									
625.0	10.0	625.0	221.7	MS/ST GR/LR				N	PLUG BIT. NO CORE
635.0	3.7	850.0	3.3	SS LGY VF				N	A: CaCO ₃ . FEW ST SPLITS
650.0	0.8	853.5	3.5	MS R				N	A: B: BSM, INT VS. WA. INT. CLAY. MOD. CaCO ₃
651.0		859.5	6.0	ST LGY				N	S: GRJ. MOT. N: CaCO ₃
666.0	14.4	860.5	1.0	MS R				N	A: CaCO ₃
680.0	13.5	873.3	12.8	SS LGY F-MF				N	S: GRJ. MOT. PETRO-L-FERROVS (?) RESIDUE
695.0	15.0	876.0	2.7	MS R				N	A: WA. INT. CLAY
710.0	3.0	879.6	3.6	SS LR VF-F				N	VS. GRJ. MOT. A: CaCO ₃
713.0		927.3	47.7	SS LGY MF-M				N	S: CaCO ₃
720.5	7.4							S	N: CaCO ₃ . MOD. FRIABLE
728.0	7.5			MS GR				S	PYRITE MIXED WITH CARBON
732.0	3.4							S	FOSSIL PLANTS AT 926.7
734.5	2.4							S	A: CaCO ₃ . SOFT ROCK
746.0	11.5							S	REFORMATION.
747.5	1.5							S	TD 929.2
760.0	12.1							S	TD 929.2
CONTINUED P. 2									

LITHOLOGIC LOG									
DRILL LOG	Depth	Rec ft.	Lab assay (%)		Sample	Lab assay (%)		Interval	Remarks
			U ₃ O ₈ *	V ₂ O ₅ /Cu		CaCO ₃	U ₃ O ₈ *		
Base	Thick	Base	Thick	Base	Thick	Base	Thick	Base	Thick
625.0	10.0	625.0	221.7	MS/ST GR/LR				N	PLUG BIT. NO CORE
635.0	3.7	850.0	3.3	SS LGY VF				N	A: CaCO ₃ . FEW ST SPLITS
650.0	0.8	853.5	3.5	MS R				N	A: B: BSM, INT VS. WA. INT. CLAY. MOD. CaCO ₃
651.0		859.5	6.0	ST LGY				N	S: GRJ. MOT. N: CaCO ₃
666.0	14.4	860.5	1.0	MS R				N	A: CaCO ₃
680.0	13.5	873.3	12.8	SS LGY F-MF				N	S: GRJ. MOT. PETRO-L-FERROVS (?) RESIDUE
695.0	15.0	876.0	2.7	MS R				N	A: WA. INT. CLAY
710.0	3.0	879.6	3.6	SS LR VF-F				N	VS. GRJ. MOT. A: CaCO ₃
713.0		927.3	47.7	SS LGY MF-M				N	S: CaCO ₃
720.5	7.4							S	N: CaCO ₃ . MOD. FRIABLE
728.0	7.5			MS GR				S	PYRITE MIXED WITH CARBON
732.0	3.4							S	FOSSIL PLANTS AT 926.7
734.5	2.4							S	A: CaCO ₃ . SOFT ROCK
746.0	11.5							S	REFORMATION.
747.5	1.5							S	TD 929.2
760.0	12.1							S	TD 929.2
CONTINUED P. 2									

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. M.M. 254 Bearing _____
 Inclinatio _____
 Total depth _____
 Collar elev. _____
 Area MONOGRAM - DRY CREEK P _____
 Co., State SAN MIGUEL, COLO

Map coord (T) _____
 Map coord (P) _____
 Sec. 13 T. 44 N. R. 17 W
 Claim PUBLIC LAND
 Date completed 4-21-56
 Date logged 4-25-56
 Logged by R.M.W.

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn _____; Graph _____ log _____

LITHOLOGIC LOG

DRILL LOG	Depth	Rec ft.	Lab assay (%)			Sample			Lab assay (%)			Interval			γ-ray (%e) or Field est			Remarks	
			U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈	Thick	Base	U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈	Thick	Base	U ₃ O ₈	Thick	Base		U ₃ O ₈
	770.0	15.0																	
	785.0	14.7																	
	800.0	14.8																	
	815.0	15.0																	
	830.0	15.0																	
	845.0	14.7																	
	860.0	14.7																	
	875.0	4.7																	
	880.0	7.5																	
	887.5	0.3																	
	888.7	15.0																	
	903.7	14.6																	
	918.7	10.5																	
	929.2																		
304.2			287.6																
			$\frac{287.6}{304.2} \times 100 =$																
			94.5%																

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 255-A (BX)
 Inclusion VERT. Bearing ---
 Total depth 809.3
 Collar elev. --- T 6602.1 P
 Area MONOGRAM-DRY CREEK BASIN

Map coord (I) ---
 Map coord (P) 65, 191 N; 97, 858 E.
 Sec. 24 T. 44 N. R. 17 W
 Co., State SAN MIGUEL, COLORADO

U.S. GEOLOGICAL SURVEY
 COLORADO PLATEAU DISTRICT
 PAGE 1 of 2
 Claim PUBLIC LAND
 Date completed 1-20-56
 Date logged 1-21-56
 Logged by RMW

Summary of log FAVORABLE; OBSS from 734 to 792 thick 58'; SS color LGY; MS Gn, Gy; Cbn. A

LITHOLOGIC LOG													
Depth Rec ft.	Lab assay (%)		Sample		Lab assay (%)		Interval		Remarks				
	U ₃ O ₈	V ₂ O ₅ Cu	CaCO ₃	Base	Thick	U ₃ O ₈	V ₂ O ₅ Cu	CaCO ₃		Base	Thick	% U ₃ O ₈	Y-ray
567.0	567.0	16.6	SS	ME-MG	S-A:R:Ch	N	Aj:R:Gn:INT	N	Aj:R:Gn:INT	PLUG BIT. NO CORE.			
574.6	593.5	9.9	SS/Cg	M-Cg	A:R:Ch	N	Aj:Gn:INT	N	Aj:Gn:INT	VARY-COLORED BLEACHING OF SS. N. CaCO ₃			
589.6	652.8	59.3	MS/ST	R/Gn		N		N		MF:SS; MATRIX. N. CaCO ₃			
604.6	658.7	5.9	SS	LGY	A:R:Ch; S; BK:OP	N	S:Aj:R:Gn:BSM	N	S:Aj:R:Gn:BSM	FRIABLE. XMAS TREE Cg.			
714.6	706.4	47.7	MS	R		N		N		FEW LGY ST. - VF:SS; SPLITS			
719.6	717.3	10.9	SS	LGY	S:R:Ch, BK:OP	N	MOD:R:INT	N	MOD:R:INT	N. CaCO ₃ . VS:WA. INT. CLAY			
729.6	733.7	16.4	MS	R		N		N		VS:Gn; MOT. MOD: CaCO ₃ . ORANGE Cg.			
744.6	743.2	9.5	SS	LR	MOD:R:Ch	VS	Aj:R:BSM:INT	VS	Aj:R:BSM:INT	MOD: CaCO ₃ . C ₂ IN X-LAMINAE			
759.6	791.6	48.4	SS	LGY	S:R:Ch	A	MOD:Gn:GSI	A	MOD:Gn:GSI	Aj:WA:INT. CLAY. C ₂ IN X-LAMINAE			
762.3	---	---	MS	Gn		N		N		MOD:FRIBLE. N. CaCO ₃ .			
777.3	794.4	2.8	MS	R		N		N		A: SHATTERED IN LOWER HALF			
789.3	809.3	14.9	MS	R		N		N		Aj:CaCO ₃ AT UPPER CONTACT			
790.6	---	---	---	---						A:Gn; MOT. MOD-A; CaCO ₃			
CONTINUED	---	---	---	---						TP 809.3			
PAGE 2	---	---	---	---						BARNABY PROBED FROM 7.0 TO 809.0 FEET			
---	---	---	---	---						BARREN			

PLUS BIT NO CORE
 567.0
 SAVE
 593.5
 COND
 706.4
 717.3
 733.7
 758.7
 SAVE
 791.4
 COND
 809.3
 TP

* Assays marked "o" are from lab gamma-ray readings

Drill-hole No. MM 255-A ()
 Inclusion _____ Bearing _____
 Total depth _____
 Collar elev. _____ T. _____ R. _____
 Area ANORGRAM - DRY CREEK -
 Co., State _____
 Summary of log _____; OBSS from _____ to _____; SS color _____; MS _____; Cbn. _____

Claim _____
 Date completed _____
 Date logged _____
 Logged by _____

Rev	t/k	3/16
Ecl		

Graphic log

LITHOLOGIC LOG																	
Depth	Rec ft.	Lab assay (%)		Sample		Lab assay (%)		Interval		γ-ray		Remarks					
		U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈	Thick	Base	U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	Thick		Base	γ-ray	U ₃ O ₈	V ₂ O ₅	
12.4																	
12.3																	
1.9																	
14.7																	
4.2																	
5.3																	
7.5																	
14.9																	
15.0																	
10.2																	
8.2																	
228.0																	
228.0																	
242.3																	
242.3																	

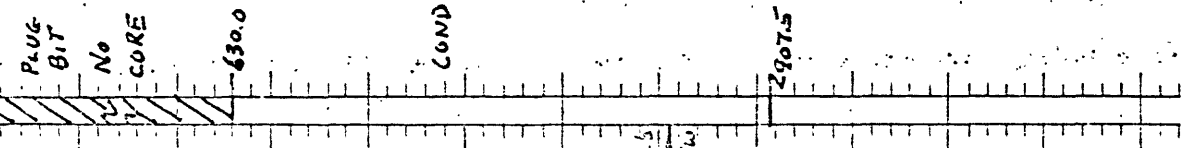
* Assays marked "e" are from lab gamma-ray readings

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM-256 (Bx/Ax)
Inclination VERTICAL Bearing _____
Total depth 907.5
Collar elev. _____
Area MONOGRAM MESA

Map coord (T) _____
Map coord (P) 62510 N 103009 E
Sec. 19 T. 44 N. R. 16 W.
Co., State MONTROSE, COLORADO
Claim _____
Date completed 3-22-56
Date logged 3-22-56
Logged by F.S.S.

Summary of log FAVORABLE; OBSS from 856 to 897 thick 35; SS color LEG; MS DEY, LEY; Cbn. S
Graphic Log _____



LITHOLOGIC LOG

Depth	Rec ft.	Lab assay (%)		Sample		Lab assay (%)		Interval		γ-ray		γ-ray (%) or Field est				
		U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Thick	Base	U ₃ O ₈ *	V ₂ O ₅ /Cu	CaCO ₃	Base	Thick	% U ₃ O ₈	Base	Thick	U ₃ O ₈	V ₂ O ₅
630.0	14.1	630.0														
639.1	9.1	639.1	SS	MF-M	GY											
678.0	38.9	678.0	MS	MF	GYEN/LEY											
686.0	8.0	686.0	SS	MF	GYEN											
694.8	8.8	694.8	SS	M-MC	LEY											
725.9	31.1	725.9	MS/ST	MF-M	LEY/LEYEN											
749.4	23.5	749.4	MS/ST	MF-C	R/LEY											
765.4	16.0	765.4	SS	MF-M	LR/LEY											
785.9	20.5	785.9	SS	MF-C	LEY											
856.0	70.1	856.0	MS/ST	MF-M	R/LEY											
890.7	34.7	890.7	SS	MF-M	LEY											
894.5	3.8	894.5	MS/ST	MF-M	DEY/LEY											
907.5	13.0	907.5	MS/ST	MF-M	R/LEY											
277.5	266.4	277.5														
266.4	96%	266.4														
277.5		277.5														

* Assays marked "e" are from lab gamma-ray readings
GPO 8350 41
Hole No. MM-256

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
 COLORADO PLATEAU DISTRICT

Drill-hole No. MM 257 (BX1)
 Inclinatio VERT Bearing -
 Total depth 827.0
 Collar elev. 6339.6 P
 Area MONOGAN - DRY CREEK BASIN
 Summary of log FAVORABLE; OBSS from 749 to 775 thick 26
FAVORABLE

Map coord (T) -
 Map coord (P) 4520N, 103238E
 Sec. 19 T. 44N R. 16W
 Co., State SAN MIGUEL, COLO.

Claim PUBLIC LAND
 Date completed 4-11-56
 Date logged 4-11-56
 Logged by RMW

Summary of log FAVORABLE; OBSS from 749 to 775 thick 26; SS color LGY; MS GN; Cbn. N
FAVORABLE

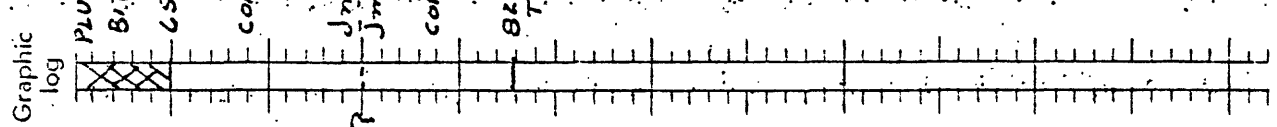
LITHOLOGIC LOG

Depth Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks	
										U ₃ O ₈	V ₂ O ₅ Cu
PLUG BIT 70	650.0	650.0		ST	GN			N			PLUG BIT, NO CORE
650.0	654.8	4.8		SS	GN	VF-F	Ai: Rich	N			Nj: R: MOT. 0.8' LS AT 652.0
664.0	663.2	8.4		MS/ST	GN			N			Ai: Gn: INT. CLAY. Nj: Si: CO ₃
684.0	684.2	21.0		MS/ST	R			N			Nj: R: MOT
704.0	749.0	64.8		SS	LGY	F-MC	Si: Rich, BKj: OP	N			Si: Gn: MOT. 0.8' SS AT 719.0
720.0	775.2	26.2		MS	GN			N			Si: Gn: INT. CLAY FRIABLE
734.0	777.2	2.0		MS	GN			N			Ai: CO ₃
754.0	791.5	14.3		MS	GN			N			Vs: Gn: MOT.
774.0	814.8	23.3		SS	LGY	F-MC	Si: Rich, BKj: OP	Vs			Si: Gn: INT. CLAY FRIABLE
794.0	817.3	2.5		MS	R			N			Ai: CO ₃ - VERY FRIABLE
811.0	823.8	6.5		SS	LGY	F	MOD. Rich	N			Ai: Gn: INT. Nj: CaCO ₃
827.0	827.0	3.2		MS	R			N			MOD. SILICIFICATION Nj: CaCO ₃
											Si: Gn: MOT. Ai: CO ₃
											TD 827.0
177.0	171.0										

171.0 x 100 = 96.6%
 177.0

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

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



GEOLOGIC AND ASSAY LOGS

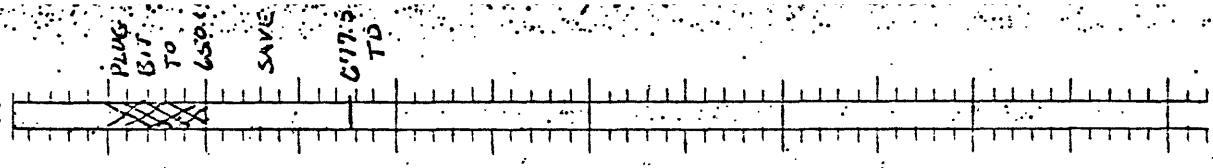
Drill-hole No. MM 258 (BX)
Inclination VERT Bearing ---
Total depth 677.5
Collar elev. --- T 6497.9 P
Area MONSIEUR DRY CREEK BASIN

Map coord (T) ---
Map coord (P) 61,915 N; 105,661 E
Sec. 20 T. 44 N R. 16 W
Co., State SAN MIGUEL, COLO.
Claim DONED CLAIMS?
Date completed 4-23-56
Date logged 4-25-56
Logged by R M W

Summary of log INCOMPLETE; OBSS from --- to ---; thick ---; MS ---; Cbn. ---
Graphic log ---

LITHOLOGIC LOG

Depth Rec ft.	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
PLUG BIT TO	650.0	650.0							PLUG BIT. SAMPLES SAVED FROM 510 - 650 FEET.
650.0 - 125	675.8	25.8	MS	R			N		A: GRN. MGT
662.5 - 14.2	677.5	1.7	SS	LGY	VF		N		A: RICH. S; BX. OP N VS. R. GRN; INT
667.5									TD 677.5
27.5	26.7								
26.7									
27.5									NO BARNABY



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

NOTE: HOLE WAS TERMINATED DUE TO TERMINATION OF CONTRACT.
HOLE DID NOT PENETRATE JMS SANDSTONE.

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

GEOLOGIC AND ASSAY LOGS

Drill-hole No. MM 259 (BX)
Inclination VERT Bearing ---
Total depth 894.5
Collar elev. --- T 488.8 P
Area MONGERAN - DRY CREEK BASIN

Map coord (T) ---
Map coord (P) 58, 846 N; 109, 376 E.
Sec. 20 (T) R. 16 W
Co., State SAM MUEL, COLO.

Claim ALICE (P)
Date completed 4-11-56
Date logged 4-11-56
Logged by RMW

Summary of log FAVORABLE; OBSS from 740 to 773 thick 33; SS color LGY; MS Gn; Cbn. V
FAVORABLE 852 882

LITHOLOGIC LOG											
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
PLUG BIT	70	650.0	650.0						N		PLUG BIT, NO CORE
	4.5	700.5	50.5		MS/ST	Gm/LLGY			N		SiCaCO ₃ - S; BENTONITIC
	10.0	733.5	33.0		SS	LGY	F	A:R:Ch, S; BK:OP	N		Si:WA:INT:CLAY. S; INT:CaCO ₃
	10.0	739.9	6.4		MS	Gn			N		N:R:Mot. VS:CaCO ₃
	20.0	772.9	33.0		SS	LGY	MF-F	S-MOD:R:Ch.	V		AJ:WA:CLAY P; INT
	19.8										MOD: X-LAMINAE. VS:CaCO ₃
	9.8	808.7	35.8		MS	Gn			N		N:R:Mot. MOD:ORANGE CALCITE
	9.8	851.8	43.1		MS	R			N		S:Gn:Mot. FEW LG:ST; SPLTS
	19.7										MOD: - S; CaCO ₃
	19.4	882.2	30.4		SS	LGY	MF-MC	S:R:Ch, BK:OP	N		AJ:WA:INT:CLAY. FRIABLE
	20.0										N: CaCO ₃
	20.0	883.5	1.3		MS	Gn			N		A:CaCO ₃ - SOFT ROCK DEFORMATION
	20.0	894.5	11.0		MS	R			N		MOD:CaCO ₃ - S; Gn:Mot.
	19.5										TD 894.5
	19.5										TD
	242.2										
	100 =										
	99.0%										

Sample	Lab assay (%)			Sample			Lab assay (%)			Interval		Y-ray		Y-ray (%) or Field est	
	U ₃ O ₈	V ₂ O ₅	Cu	CaCO ₃	U ₃ O ₈	U ₃ O ₈	V ₂ O ₅	Cu	CaCO ₃	Base	Thick	Base	Thick	U ₃ O ₈	V ₂ O ₅
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. MM 260 INX/BX
 Inclination VERT Bearing ---
 Total depth 865.0
 Collar elev. T 6451.7 P
 Area MONOGRAM-DRY CREEK

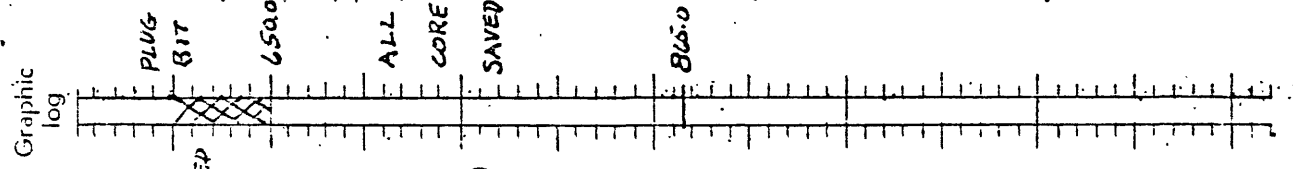
Map coord (T) ---
 Map coord (P) 56,577N; 112,437E.
 Sec. 28 T. 44N R. 16W
 Co., State SAN MIGUEL, COLORADO

Claim CAT # P
 Date completed 4-23-56
 Date logged 4-23-56
 Logged by RMW

Summary of log INCOMPLETE OBSS from --- to --- thick ---; MS ---; Chn. ---; SS color ---

LITHOLOGIC LOG											
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
PLUG BIT	To	650.0	650.0								
650.0	4.0				MS	R			N		PLUG BIT. 5' SAMPLES SAVED FROM 550' TO 650.0'
654.0	3.9				MS	R			N		AJ. WJ. ORANGE CALCITE X-TALS AND VEINLETS
658.0	16.2				MS	LGY/GR			N		A. INT. CALCITE S; VEINLETS
674.5	20.0				MS	R			N		S; GR; GY; MOT. VA; CaCO ₃
694.5	18.0				ST	GR			N		PS' LENS OF CRYSTALLINE AS.
712.5	20.0				MS	LGY-LGY			N		VA; CaCO ₃ . BENTONITIC (?)
732.5	14.5				MS	LR			N		VA; CaCO ₃ . BENTONITIC (?)
747.0	13.6				MS	GR			N		VA; CaCO ₃ . S; BENTONITE (?)
764.5	8.2				MS	R			N		A; CaCO ₃ S; GR; MOT.
777.5	1.5				SS	LGY	VF	A: R. Ch.	N	VS; GR; INT	VA; CALCITE X-TALS
780.5	9.2				MS	R			N		A; GR; MOT. S-A; CaCO ₃
790.5	4.8										
795.5											
810.5	13.9										
815.5	5.0										
827.5	11.6										
835.5	7.6										
835.5	19.2										
855.5	9.2										
865.0											
215.0	200.4										
200.4	93.2										
275.0											

Sample	Lab assay (%)		Lab assay (%)		Interval	Y-ray		Y-ray (%) or Field est			
	U ₃ O ₈	V ₂ O ₅ /Cu	CaCO ₃	U ₃ O ₈		Thick	Base		Thick	U ₃ O ₈	V ₂ O ₅
					Base	Thick	%e U ₃ O ₈				
					NOTE: THIS HOLE DID NOT PENETRATE THE JMS. THE HOLE WAS TERMINATED DUE TO DRILLING DIFFICULTIES AND THE TERMINATION OF THE CONTRACT.						



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

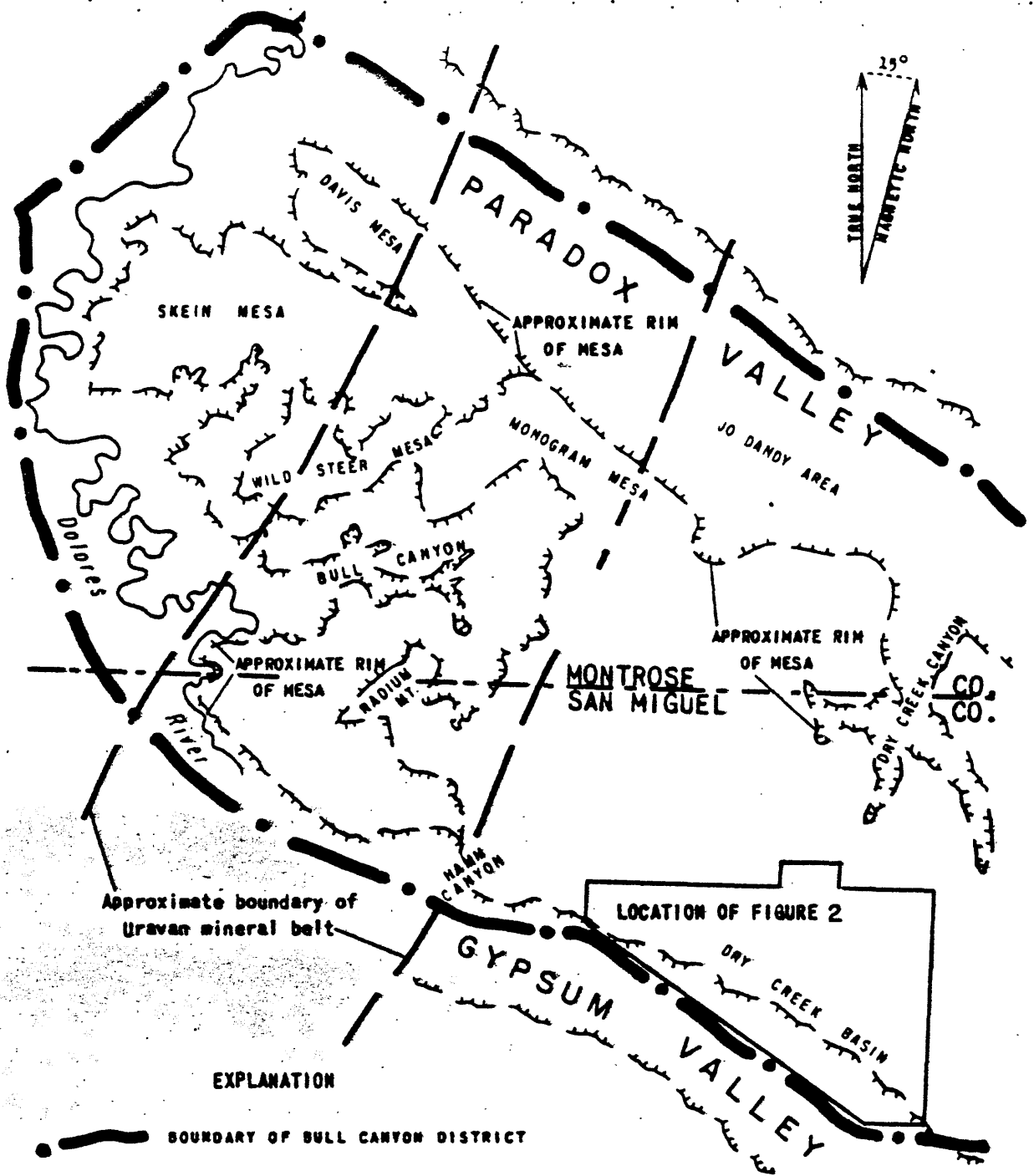


FIGURE 1.—INDEX MAP OF PART OF BULL CANYON DISTRICT, SHOWING AREA DRILLED ON THE THIRD MONOGRAM MESA DRILLING CONTRACT, MONTROSE AND SAN MIGUEL COUNTIES, COLO.

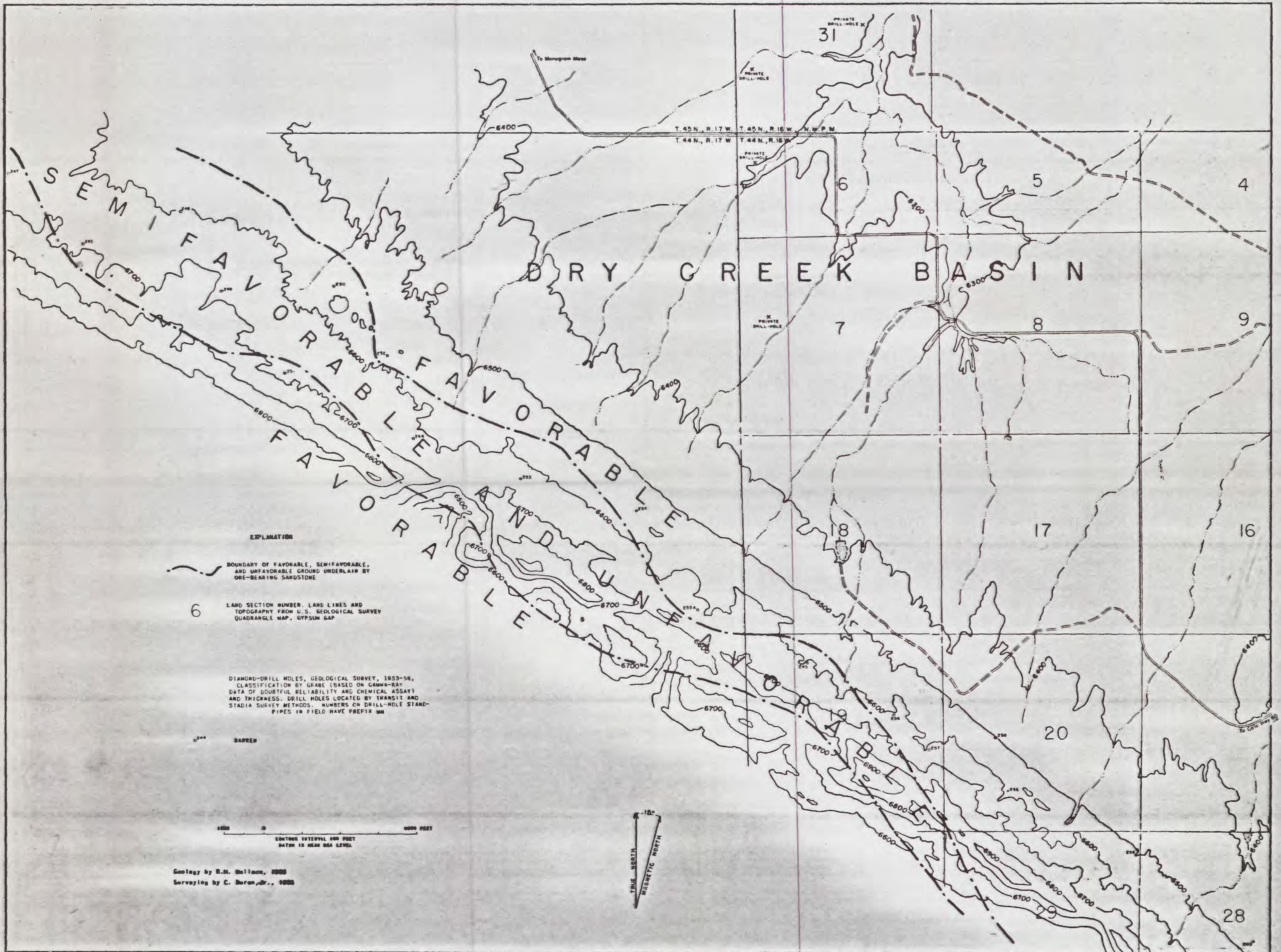


Figure 2.--MAP OF DRY CREEK BASIN DRILLING AREA, BULL CANYON DISTRICT, SAN MIGUEL COUNTY, COLO.

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