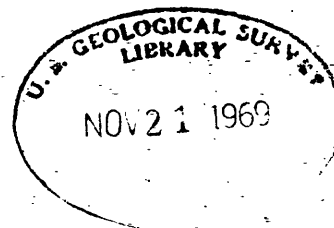


UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Maps showing locations of holes drilled
in 1955 by U.S. Geological Survey,
Kirk's Basin and Pace Lake areas,
Grand County, Utah



OFR 69-303

Open-file report

1969

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

Maps showing locations of holes drilled
in 1955 by U.S. Geological Survey,
Kirk's Basin and Pace Lake areas,
Grand County, Utah

Between September 29, 1955, and December 2, 1955, the U.S. Geological Survey drilled 8 holes in Kirk's Basin and Pace Lake areas, Gateway district, Grand County, Utah, to obtain geologic information that could be applied to exploring for uranium-bearing deposits in the Salt Wash Sandstone Member of the Jurassic Morrison Formation.

The accompanying maps of the area explored are an index map (fig. 1) and one other showing locations of holes drilled (fig. 2). Logs of 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.

| Rock name | Mineral name | Color description |
|------------------------------------|---------------------|-------------------|
| 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

Punctuation

, - and
/ - over
// - alternating with

Grain sizes

| Wentworth scale (modified) | Millimeters |
|-------------------------------|---------------|
| 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 |

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.

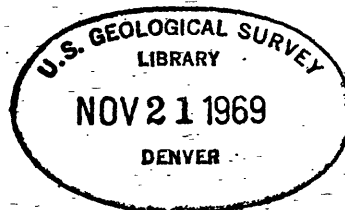
Miscellaneous abbreviations

| | |
|---|---|
| <p>OBV - overburden Bby - Barnaby (gamma-ray logging grad - gradational instrument) incl - inclined calc - calcareous mot - mottled qtzc - quartzitic frag - fragment msv - massive disc - discard or discarded op - opaque or opaques H - high) L - low) use only for Tr - trace) U₃O₈ and V₂O₅</p> | <p>fav - favorable; semifav - semifavorable; unfav - unfavorable alt - altered; altn - alteration frac - fracture; fractd - fractured lam - laminations or laminae; lamtd - laminated xl - crystal; xln - crystalline min - mineral; minzn - mineralization cem - cement; cemtd - cemented; cemtn - cementation conc - concentrated; concn - concentration cond - condense or condensed bdg - bedding; itbd - interbedded; x-bd - crossbed; x-bdg - crossbedding; x-bdd - crossbedded ox - oxide; oxizd - oxidized OBSS - ore-bearing sandstone</p> |
|---|---|

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



GEOLOGIC AND ASSAY LOGS

 Drill-hole No. GR-1 (KB-1) (EX)
 inclination Vertical Bearing
 total depth 569.0
 collar elev. 799.0 ± 1
 area Kirk's Basin, Beaver Mesa

 Map coord (T) Unsurveyed
 Map coord (P) 6
 Sec. 36 T. 36 S R. 26 E
 Co. State Grand County, Utah
 summary of log Unfavorable. OBSS from 1120 to 199.9 thick 17.9. SS color L to GY/R to MS R Br; Cbn. W

 COLORADO PLATEAU DISTRICT
 (Std. 13.5 cm. Rock 54)
 Claim ---
 Date completed 7/29/55
 Date logged 7/29/55
 Logged by PCF - WKB

 Rev HK
 Ed ---
 Graphic log

LITHOLOGIC LOG

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's | Cbn | MS in SS | Remarks |
|-------|---------|-------|-------|-------|------------|---------|-----------|-------------------------|-----|----------------|---|
| 0 | | 5.0 | 5.0 | --- | Overburden | | | | | | |
| 20.0 | 2.0 | 30.0 | 25.0 | --- | MS | LK Br | ST | | N | | S: GY Gm |
| 23.5 | 4.8 | 95.0 | 65.0 | --- | MS | GY Gm | ST/F | S: F: Ch | | | S: R: Br; A: R: Br; MS > SS - 60% S: L: Gm; F: Ls > 60 - 65% |
| 33.5 | 7.0 | 100.0 | 5.0 | --- | MS | R Br | ST | | N | | |
| 40.5 | 7.8 | 123.5 | 3.5 | 85 | MS | GY Gm | ST | | N | | S: L: R Br; Ill. w/ thin lam. |
| 46.5 | 10.0 | 132.2 | 8.7 | 98 | MS | LK Br - | ST | | N | | S: ill. L: Gm; Br; Gm; VF - F: SS |
| 50.5 | 5.5 | --- | --- | --- | --- | --- | --- | | | | W: R: Gm; Ch; thin lam. |
| 60.0 | 1.0 | 137.1 | 4.9 | 100 | SS | Br Gm | VF - F | A: R: Gm; Ch; | N | A: Gm - GY Gm; | Calc; S: incl; bddy |
| 71.5 | 6.3 | --- | --- | --- | --- | --- | --- | Op; Tr; Mic. S | N | L: M; S: R Br | S: GY Gm |
| 76.5 | 7.0 | 138.9 | 1.8 | 100 | MS | N Br | ST | Co CO ₃ | N | | Calc; thin lam. |
| 83.5 | 7.0 | 147.7 | 7.8 | 97 | MS - SS | GY Gm | ST | Tr; Lim; Min | N | | |
| 93.5 | 7.0 | 147.2 | 1.5 | 100 | SS | LK Br | VF - ST | | N | | |
| 100.0 | 7.0 | 153.0 | 3.8 | 100 | ST | LK Br | ST | | N | | S: GY Gm; Calc; Gradational below |
| 110.0 | 4.0 | 157.0 | 4.0 | 100 | MS | R Br | ST | | N | | thin lam; Gradational below |
| 124.5 | 9.0 | --- | --- | --- | --- | --- | --- | | | | |
| 133.5 | --- | --- | --- | --- | --- | --- | --- | | | | |
| 145.4 | 8.4 | 165.4 | 8.4 | 100 | MS - SS | R Br | ST; S: VF | | N | | S: GY Gm; MS |
| 166.8 | 1.4 | 166.8 | 1.4 | 100 | SS | LK Br | VF - F | S: R: Gm; Ch; | S | S: R: Br; P | Calc; S: incl; bedding |
| --- | --- | --- | --- | --- | --- | --- | --- | Tr; Lim | Int | | |
| 173.2 | 6.4 | 173.2 | 6.4 | 34 | MS | LK Br | ST | Co CO ₃ gms. | N | | Calc |

| Sample | Base | Thick | Lab assay (%) | Lab assay (%) | Interval | Y-ray | Y-ray (%) or | Field est |
|--------|-------------------------------|-------------------------------|-----------------------------------|-------------------|----------|-------|--------------|------------------------------------|
| Base | U ₃ O ₈ | U ₃ O ₈ | V ₂ O ₅ /Cu | CaCO ₃ | Base | Thick | Base | V ₂ O ₅ 10.7 |
| | | | | | 176.5 | 1.1 | | SS |
| | | | | | 177.4 | 0.9 | Net in place | 80 |
| | | | | | 321.5 | 0.4 | | 523.7 |
| | | | | | | | | 508.6 |
| | | | | | | | | 500 |

Assays marked "S" are from lab handling only readings

 Hole No. GR-1 (KB-1)

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
Field Notes (R444)

Inclination Vertical Bearing —
Total depth 569.0
Collar elev. 7790.0ft P
Area Kirt's Basin, Beaver Mesa
Map coord (T) Unsurveyed
Map coord (P) —
Sec. 5 T. 26 S R. 26 E
Co., State Grand County, Utah

Graphic
log

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

DRILL LOG

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
|-------|---------|-------|-------|-------|---------|-----------|-------|-------------------------------------|-----|--------------------|--|
| 280.7 | 8.3 | 279.8 | 6.3 | 100 | MS | Pale R Br | MS | A; CaCO ₃ | | | |
| 289.0 | | 280.9 | 1.1 | 100 | ST | Dark R Br | ST | | | | |
| 293.5 | 3.9 | 291.5 | 0.6 | 100 | SS | Light Gr | VF | S; R, Gm, Gy; Ch | N | S; Gy, Gm; P | A; CaCO ₃ |
| 303.5 | 10.0 | 282.0 | 0.5 | 100 | SS | Pale R Br | VF | A; CaCO ₃ ; S; Bk Op N | N | | Semi-crystalline appearance |
| | | 282.2 | 0.2 | 100 | Sand | Pale R Br | VF | S; Bk Op N | N | | |
| | | 282.5 | 0.3 | 100 | MS-ST | Dark R Br | MS-ST | M; CaCO ₃ | | | |
| | | 283.3 | 0.8 | 100 | SS | Light Gr | F-VF | M; R, Gm, Gy; Bk Op N | N | | A; CaCO ₃ ; incl. Pale R Br streaks |
| | | 283.5 | 0.2 | 100 | ST | Light Gr | ST | M; CaCO ₃ ; S; R, Gy; Ch | | | |
| | | 284.8 | 1.3 | 100 | MS | R | MS | | | | |
| | | 287.2 | 2.4 | 100 | SS | Pale R Br | VF-ST | M; CaCO ₃ | | A; R; Int; S; R; P | incl. V Lt Gy streaks |
| | | 287.6 | 0.4 | 100 | MS | R | MS | | | | |
| | | 289.0 | 1.4 | 100 | ST | Pale R Br | ST | | | | |
| | | 289.2 | 0.2 | 90 | LS | L Gy | ST | | | | Mn dendrite fracs. surface |
| | | 291.1 | 0.9 | 90 | ST | Pale R Br | ST | M; R; Gy; Bk Op N | N | S; R; Gy; Int | altern. Pale R Br and very L Gy streaks |
| | | | | | | L Gy | | M; CaCO ₃ | | | |
| | | 291.0 | 0.9 | 90 | MS | Dark R Br | MS | A; CaCO ₃ | | | |
| | | 291.3 | 0.3 | 90 | Limy SS | L Gm Gr | VF | A; CaCO ₃ | N | | |
| | | | | | | | | M; R; Gy; Ch | | | |
| | | 294.3 | 3.0 | 100 | MS-ST | Pale R Br | MS-ST | M; CaCO ₃ | | | L Gy patches irreg. dist. |
| | | 295.5 | 1.2 | 100 | Limy SS | Light Gr | F-VF | A; CaCO ₃ ; S; Bk Op N | N | | incl. thin Sms very high in CaCO ₃ |
| | | 296.4 | 0.9 | 100 | MS | Pale R Br | MS | | | | |
| | | 296.6 | 0.2 | 100 | LS | L Gm Gr | ST | | | | incl. a few calcite x'tals in vugs |
| | | 296.9 | 0.3 | 100 | LS | Light R | ST | | | | incl. a few calcite x'tals in vugs |

[illegible]

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

1957-58

Hole No.

GA-1 (KB-1)

Drill-hole No. GR-1 (KB-1) (EX)
 Inclination Vertical Bearing _____
 Total depth 589.0'
 Collar elev. 7975.0± T _____ P _____
 Area Kirk's B35M, Beaver Mesa Co., State
 Summary of log _____

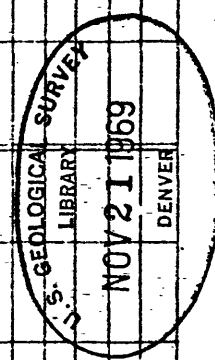
Map coord (T) Unsurpassed
 Map coord (P) _____
 Sec. 6 T. 33S R. 26E
 Co., State Grand County, Utah

Claim _____
 Date completed 9/20/55
 Date logged 9/29/55
 Logged by WLB
 Rev _____ Ed _____
 COLORADO PLATEAU DISTRICT of _____
 Graphic log _____

OBSS from _____ to _____ thick _____ : SS color _____ : MS _____ : Cbn. _____

| LITHOLOGIC LOG | | | | | | | | | |
|----------------|---------|-------|-------|-------|-------|-----------|-------|------------------------------|-----|
| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn |
| 303.5 | 9.8 | 298.0 | 1.1 | 100 | MS | M.R.Br | MS | VS. CaCO ₃ | N |
| 313.5 | 10.0 | 299.0 | 1.0 | 100 | ST | M.R.Br | ST | S. CaCO ₃ S. | N |
| 323.5 | | 302.4 | 3.4 | 100 | SS | Vlt Gyl | F-VF | R. Gyps | N |
| | | | | | | Pale R.R. | | A.C. (Fz. M.) | N |
| | | 303.2 | 0.8 | 100 | SS | Vlt Gy | F-VF | G.R. R.R. Ch. | N |
| | | | | | | | | A. CaCO ₃ S. | N |
| | | 306.5 | 3.2 | 100 | MS/ST | Pale R.R. | MS/ST | G.R. R. Ch. | N |
| | | 309.0 | 2.5 | 98 | SS | Wh-V | F | M.A. CaCO ₃ w/ | N |
| | | | | | | lt Gy | | S. CaCO ₃ v. pale | N |
| | | | | | | | | M.A. G. G. Ch. | N |
| | | 312.0 | 2.5 | 98 | MS | M.R.Br | MS | S-A. G. Ch. | N |
| | | 312.5 | 0.5 | 100 | SS | Pale R.R. | F | M. CaCO ₃ S. thin | N |
| | | | | | | | | M.A. G. Ch. w/ | N |
| | | 312.8 | 0.3 | 100 | MS | M.R.Br | MS | M. CaCO ₃ | N |
| | | 314.0 | 1.2 | 100 | SS | Pale R.R. | VF | S. Biotite - S. Lin. | N |
| | | | | | | | | M.A. S. Ch. | N |
| | | 314.2 | 0.2 | 100 | MS | Lt G. Gy | MS | M. CaCO ₃ | N |
| | | 316.5 | 2.3 | 100 | MS/ST | D.L.S. | MS/ST | A. CaCO ₃ | N |
| | | 317.5 | 1.0 | 100 | SS | Lt G. Gy | F | M. Biotite - M. R. | N |
| | | | | | | | | G. G. Gy. M. | N |
| | | | | | | | | CaCO ₃ | N |
| | | 324.8 | 7.3 | 100 | ST/MS | M.R.Br | ST/MS | M. CaCO ₃ | N |

| LAB ASSAY (%) | | | | | | | | | |
|---------------|-------|-------------------------------|-----------------------------------|-------------------|------|-------|-------------------------------|-----------------------------------|-------------------|
| Sample | Thick | 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 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |



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

GPO 817381

Hole No. GR-1 (KB-1)

Claim 1 (Sed. Res. Act 2456)
Date completed 9/29/55
Date logged 9/29/55
Logged by W.R.B.

Graphic
log

Hole No. GR-1 (KB-1)

Inclination Vertical Bearing
Total depth 569.0
Collar elev. 7995.0 ± T P
Area Kirkby Reservoir, Beaver Creek
Map coord (1) 6424000
Map coord (P)
Sec. 6 T 26S R 26E
Co., State Grand County, Utah

Claim: 51d12c015245
 Date completed: 9/29/15
 Date logged: 9/29/15
 Logged by: WHS

Graphic
log

Summary of log $\frac{1}{\text{OBSS}}$ from _____ to _____ thick _____; SS color _____; MS _____; Cbn: _____

LITHOLOGIC LOG

| DRILL LOG | | | | LITHOLOGIC LOG | | | | | | | |
|-----------|---------|-------|--------|----------------|-------|---------|-------|---------------------------------|-----|-------------|---|
| Depth | Rec ft. | Base | Thick. | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
| 453.5 | - | 453.1 | 4.2 | 90 | SS | Pale R | F-VF | S. Op. A; CaCO ₃ | N | A; R; Int | S. Micz. Incl. VP; CaCO ₃ ; veinlets |
| 463.5 | 10.0 | 453.9 | 0.8 | 90 | ST/MS | Pale R | ST-MS | M; CaCO ₃ ; S. Lim. | N | | |
| 466.5 | 3.0 | - | - | - | - | - | - | MnOx on face. | | | |
| 471.0 | 4.5 | 454.7 | 0.8 | 90 | SS | Gray | MF | S. Lim; MnOx; Op. | N | A; R; Int | |
| 476.0 | 5.0 | 455.5 | 0.8 | 90 | ST/MS | Pale RR | ST/MS | A; CaCO ₃ | N | S; R; Sm. | |
| 485.5 | 9.5 | 458.4 | 2.9 | 100 | SS | Gray | F | S. Op. A; CaCO ₃ | N | A; R; Int | |
| 493.5 | 7.0 | 464.7 | 6.3 | 100 | SS | Gray/V | M-MF | S. Op; M; Lim. | N | S; G; Sm; P | |
| 503.5 | 9.4 | - | - | - | - | Pale Or | - | M; A; CaCO ₃ | | | |
| 513.5 | 7.5 | 454.9 | 0.2 | 100 | SS | LT Gray | VF | S; Op; CaCO ₃ | N | A; G; Int | w/ Pale R patches |
| | | 465.4 | 0.5 | 100 | MS | Pale RR | MS | S; CaCO ₃ | N | | |
| | | 470.7 | 5.3 | 100 | Brccs | Wh/V | F-05" | A; CaCO ₃ ; S. Op. | N | | ground up Dolomite, Calcite, Qtz + ss grains |
| | | - | - | - | - | Pale Or | - | Secondary Qtz. | | | |
| | | 483.3 | 12.6 | 100 | MS/SS | Pale RR | MS/MS | A; CaCO ₃ ; S. | N | A; R; Int | MS w/ ribs of very hard ss |
| | | - | - | - | - | White K | - | Op. | | | |
| | | 492.5 | 9.2 | 90 | SS | Pale RR | F-MF | S. Lim; S. Op. | N | A; R; Sm. | |
| | | - | - | - | - | Pale RR | - | M; CaCO ₃ | | | |
| | | 494.6 | 2.1 | 100 | MS | Pale RR | MS/ST | A; CaCO ₃ | N | | Silt G; G; altered bands |
| | | 501.8 | 7.2 | 76 | SS | Pale RR | ST | S. Lim; MnOx; S. G. | N | A; R; Int | |
| | | - | - | - | - | Pale RR | - | A. Op; MnOx; CO ₃ | | | |
| | | 503.9 | 2.1 | 100 | SS | White K | F | A; Lim; MnOx; CaCO ₃ | N | | |
| | | - | - | - | - | Pale RR | - | S; R; G; Op. | | | |
| | | 504.1 | 0.2 | 100 | SS | Pale RR | VF | MnOx; S. Op. | N | A; G; Int | |

[illegible]

U.S. GEOLOGICAL SURVEY
LIBRARY
NOV 21 1969
DENVER

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

Hole No. GP-1 (KB-1).

GEOLOGIC AND ASSAY LOGS

Drill hole No. CR-2 (PL-1) (BX)Inclination Vertical Bearing —Total depth 442.5'Collar elev. 8240.0' T PArea Rock Lake, Beaver AgencyMap coord (T) 6550 2000Map coord (R) 2000Sec. 4 T. 26 S. R. 20 E.Co, State Colorado

COLORADO PLATEAU DISTRICT

Claim —Date completed 7/28/55Date logged 9/20/55Logged by F.C.F. / J.A.B.SS color Gray to black MS 1.6 Cbn. 1Summary of log Favorable; QBSS from 292.5' to 343.5' thick 31'

DRILL LOG

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Gbn | MS in SS | Remarks |
|-------|---------|-------|-------|-------|------|------------|-------|----------------|-----|----------|---|
| Plug | | 5.0 | 5.0 | — | MS | Gy Gn | ST | | | | Overburden |
| Bit | | 10.0 | 5.0 | — | SS | Lx Gy | F | | | | |
| 160.0 | | 55.0 | 45.0 | — | MS | Lx Gy | ST | | | | Gy Gn, Int |
| 162.9 | | 60.0 | 5.0 | — | MS | Gd Gn | ST | | | | S, F, sand |
| 165.3 | | — | — | — | SS | Lx Gy | F-M | | | | Gy Gn, Int |
| 175.3 | | 70.0 | 10.0 | — | MS | R | ST | | | | |
| | | 90.0 | 20.0 | — | MS | Gy Gn | ST | | | | |
| | | 100.0 | 10.0 | — | MS | R Br | ST | | | | |
| | | 105.0 | 5.0 | — | MS | Gy Gn | ST | | | | |
| | | — | — | — | SS | Lx Gy | F | | | | 5 Gy MS |
| | | 110.0 | 5.0 | — | SS | Lx Gy | VF-F | | | | |
| | | 115.0 | 5.0 | — | MS | R Br | ST | | | | |
| | | 120.5 | 5.5 | — | MS | Gy Gn | ST | | | | |
| | | 135.0 | 14.5 | — | MS | Med A | ST | | | | |
| | | — | — | — | MS | Gy Gn | ST | | | | |
| | | 150.0 | 5.0 | — | MS | Gy Gn | ST | | | | |
| | | 150.0 | 10.0 | — | MS | Lx Gy-R Br | ST | | | | |
| | | 160.0 | 10.0 | — | SS | Lx Gy | VF-F | | | | Int. Y. Gy |
| | | — | — | — | SS | VF Gy | M-F | | | | End Plug Interval, end Log by R. Franks |
| | | 166.8 | 6.8 | 60 | SS | VF Gy | M-F | | | | Begin Core, begin Log by R. Franks |
| | | — | — | — | MS | VF Gy | M-F | | | | |
| | | 171.7 | 4.9 | 50 | MS | VF Gy | M-F | | | | ACROSS SHE. OF GY GN SANDY ST |

| Sample | Lab assay (%) | | | Lab assay (%) | | | Lab assay (%) | | | Lab assay (%) | | | Lab assay (%) | | | Lab assay (%) | | |
|--------|-------------------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|-------------------|
| | U ₃ O ₈ | V ₂ O ₅ | CaCO ₃ | U ₃ O ₈ | V ₂ O ₅ | CaCO ₃ | U ₃ O ₈ | V ₂ O ₅ | CaCO ₃ | U ₃ O ₈ | V ₂ O ₅ | CaCO ₃ | U ₃ O ₈ | V ₂ O ₅ | CaCO ₃ | U ₃ O ₈ | V ₂ O ₅ | CaCO ₃ |
| Base | 167.5 | 2.5 | — | 167.5 | 2.5 | — | 167.5 | 2.5 | — | 167.5 | 2.5 | — | 167.5 | 2.5 | — | 167.5 | 2.5 | — |
| Thick | 170.0 | 2.5 | — | 170.0 | 2.5 | — | 170.0 | 2.5 | — | 170.0 | 2.5 | — | 170.0 | 2.5 | — | 170.0 | 2.5 | — |
| Base | 258.4 | 0.5 | — | 258.4 | 0.5 | — | 258.4 | 0.5 | — | 258.4 | 0.5 | — | 258.4 | 0.5 | — | 258.4 | 0.5 | — |
| Thick | 260.5 | 0.8 | — | 260.5 | 0.8 | — | 260.5 | 0.8 | — | 260.5 | 0.8 | — | 260.5 | 0.8 | — | 260.5 | 0.8 | — |
| Base | 367.1 | 0.7 | — | 367.1 | 0.7 | — | 367.1 | 0.7 | — | 367.1 | 0.7 | — | 367.1 | 0.7 | — | 367.1 | 0.7 | — |
| Thick | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Base | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Thick | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Base | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Thick | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

GEOLOGICAL SURVEY

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DENVER

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

GPC 835041

Hole No. CR-2 (PL-1)

Claim — (Sedgewick Ranch)

Date completed 9/28/55

Date logged 9/28/55

Logged by WLRB

| | | |
|-----|----|--------|
| Rev | HL | 2/4/57 |
| Ed | | |

Graphic

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

[illegible]

NOV 21 1969

Hole No. GR-2 (P.L.-1)

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
C. P. D. 1111 OF 7

Drill hole No. GR-2 (FL-1) (BX)
Inclination Vert 10° E Bearing _____
Total depth 442.5
Collar elev 8240.0 T _____ P _____
Area 3600 sq ft Beaver Mose _____

Summary of log FAVORABLE : OBSS from 292.5 to 343.5 thick 5' : SS color Lt G6 64/12/18/20/22/24/26/28/30/32/34/36/38/40/42/44/46/48/50/52/54/56/58/60/62/64/66/68/70/72/74/76/78/80/82/84/86/88/90/92/94/96/98/100/102/104/106/108/110/112/114/116/118/120/122/124/126/128/130/132/134/136/138/140/142/144/146/148/150/152/154/156/158/160/162/164/166/168/170/172/174/176/178/180/182/184/186/188/190/192/194/196/198/200/202/204/206/208/210/212/214/216/218/220/222/224/226/228/230/232/234/236/238/240/242/244/246/248/250/252/254/256/258/260/262/264/266/268/270/272/274/276/278/280/282/284/286/288/290/292/294/296/298/300/302/304/306/308/310/312/314/316/318/320/322/324/326/328/330/332/334/336/338/340/342/344/346/348/350/352/354/356/358/360/362/364/366/368/370/372/374/376/378/380/382/384/386/388/390/392/394/396/398/400/402/404/406/408/410/412/414/416/418/420/422/424/426/428/430/432/434/436/438/440/442/444/446/448/450/452/454/456/458/460/462/464/466/468/470/472/474/476/478/480/482/484/486/488/490/492/494/496/498/500/502/504/506/508/510/512/514/516/518/520/522/524/526/528/530/532/534/536/538/540/542/544/546/548/550/552/554/556/558/560/562/564/566/568/570/572/574/576/578/580/582/584/586/588/590/592/594/596/598/600/602/604/606/608/610/612/614/616/618/620/622/624/626/628/630/632/634/636/638/640/642/644/646/648/650/652/654/656/658/660/662/664/666/668/670/672/674/676/678/680/682/684/686/688/690/692/694/696/698/700/702/704/706/708/710/712/714/716/718/720/722/724/726/728/730/732/734/736/738/740/742/744/746/748/750/752/754/756/758/760/762/764/766/768/770/772/774/776/778/780/782/784/786/788/790/792/794/796/798/800/802/804/806/808/810/812/814/816/818/820/822/824/826/828/830/832/834/836/838/840/842/844/846/848/850/852/854/856/858/860/862/864/866/868/870/872/874/876/878/880/882/884/886/888/890/892/894/896/898/900/902/904/906/908/910/912/914/916/918/920/922/924/926/928/930/932/934/936/938/940/942/944/946/948/950/952/954/956/958/960/962/964/966/968/970/972/974/976/978/980/982/984/986/988/990/992/994/996/998/1000/1002/1004/1006/1008/1010/1012/1014/1016/1018/1020/1022/1024/1026/1028/1030/1032/1034/1036/1038/1040/1042/1044/1046/1048/1050/1052/1054/1056/1058/1060/1062/1064/1066/1068/1070/1072/1074/1076/1078/1080/1082/1084/1086/1088/1090/1092/1094/1096/1098/1100/1102/1104/1106/1108/1110/1112/1114/1116/1118/1120/1122/1124/1126/1128/1130/1132/1134/1136/1138/1140/1142/1144/1146/1148/1150/1152/1154/1156/1158/1160/1162/1164/1166/1168/1170/1172/1174/1176/1178/1180/1182/1184/1186/1188/1190/1192/1194/1196/1198/1200/1202/1204/1206/1208/1210/1212/1214/1216/1218/1220/1222/1224/1226/1228/1230/1232/1234/1236/1238/1240/1242/1244/1246/1248/1250/1252/1254/1256/1258/1260/1262/1264/1266/1268/1270/1272/1274/1276/1278/1280/1282/1284/1286/1288/1290/1292/1294/1296/1298/1300/1302/1304/1306/1308/1310/1312/1314/1316/1318/1320/1322/1324/1326/1328/1330/1332/1334/1336/1338/1340/1342/1344/1346/1348/1350/1352/1354/1356/1358/1360/1362/1364/1366/1368/1370/1372/1374/1376/1378/1380/1382/1384/1386/1388/1390/1392/1394/1396/1398/1400/1402/1404/1406/1408/1410/1412/1414/1416/1418/1420/1422/1424/1426/1428/1430/1432/1434/1436/1438/1440/1442/1444/1446/1448/1450/1452/1454/1456/1458/1460/1462/1464/1466/1468/1470/1472/1474/1476/1478/1480/1482/1484/1486/1488/1490/1492/1494/1496/1498/1500/1502/1504/1506/1508/1510/1512/1514/1516/1518/1520/1522/1524/1526/1528/1530/1532/1534/1536/1538/1540/1542/1544/1546/1548/1550/1552/1554/1556/1558/1560/1562/1564/1566/1568/1570/1572/1574/1576/1578/1580/1582/1584/1586/1588/1590/1592/1594/1596/1598/1600/1602/1604/1606/1608/1610/1612/1614/1616/1618/1620/1622/1624/1626/1628/1630/1632/1634/1636/1638/1640/1642/1644/1646/1648/1650/1652/1654/1656/1658/1660/1662/1664/1666/1668/1670/1672/1674/1676/1678/1680/1682/1684/1686/1688/1690/1692/1694/1696/1698/1700/1702/1704/1706/1708/1710/1712/1714/1716/1718/1720/1722/1724/1726/1728/1730/1732/1734/1736/1738/1740/1742/1744/1746/1748/1750/1752/1754/1756/1758/1760/1762/1764/1766/1768/1770/1772/1774/1776/1778/1780/1782/1784/1786/1788/1790/1792/1794/1796/1798/1800/1802/1804/1806/1808/1810/1812/1814/1816/1818/1820/1822/1824/1826/1828/1830/1832/1834/1836/1838/1840/1842/1844/1846/1848/1850/1

PATHOLOGIC LOG

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
|-------|---------|-------|-------|-------|------|-----------|-------|---|-----|-----------------------|--|
| 270.0 | — | 281.5 | 2.3 | 100 | SS | Vlt Gr | MF | A, Lim, S Gy Op; S Mn Ox, S Mn Co CO ₃ | N | S Gn Int | increasing Ca CO ₃ w/ depth |
| 81.5 | 6.5 | 283.5 | 2.0 | 100 | SS | Vlt Gy | MF | S R, Gn, Mn Op; A, Ca CO ₃ | N | S Gn Int; S Gn FK. | |
| 89.5 | 8.0 | 283.9 | 0.4 | 100 | MS | Pale R Br | MS | | | | |
| — | — | 284.5 | 0.6 | 100 | SS | Lt Gy Gn | F | S R Gy Op; S Ca CO ₃ | | S-A R Int | incl patches of pale R Br |
| — | 8.5 | — | — | — | — | — | — | | | S-A Gn Int | |
| 4.5 | — | 285.0 | 0.5 | 100 | MS | lt Gr | MS | A, Ca CO ₃ | | | |
| — | — | 285.7 | 0.7 | 100 | SS | Lt Gy Gn | F | S R, Mn, Op; A, Ca CO ₃ | N | S-A Gn Int; S-A R Int | pct chas of both colors |
| — | — | — | — | — | — | lt Gr | MS | | | | |
| — | — | 286.0 | 0.3 | 100 | MS | lt Gr | MS | A, Ca CO ₃ | | | |
| — | — | 286.6 | 0.6 | 100 | SS | Pale R | MF | S Lim, S Ca Op; A, Ca CO ₃ | N | S-A R Int; S-A Gn Int | |
| — | — | — | — | — | — | Lt Gy Gn | — | | | | |
| — | — | 286.8 | 0.2 | 100 | MS | Pale R Br | MS | A, Ca CO ₃ | N | | |
| — | — | 287.1 | 0.3 | 100 | ST | Lt Gy Gn | ST | S Gy, R Op | N | | |
| — | — | 287.5 | 2.4 | 100 | MS | Pale R | MS | S Ca CO ₃ | N | | |
| — | — | 290.5 | 1.0 | 50 | MS | Pale R | MS | | N | | altern. bands of both colors |
| — | — | — | — | — | — | Lt Gy Gn | — | | | | |
| — | — | 292.5 | 2.0 | 100 | SS | Vlt Gr | F | A Lim, S Mn Op; S R, Mn Op | N | A Gn, W Sm P | |
| — | — | — | — | — | — | Lt Gr Gy | — | | | | |
| — | — | 294.1 | 1.6 | 60 | SS | Lt Gr Gy | F | A, Ca CO ₃ | N | A Gn Int | |
| — | — | — | — | — | — | — | — | | | | |
| — | — | 301.5 | 7.4 | 50 | SS | Lt Gr Gy | F | A Lim, S Op; S R | N | S Gn Int | Dk W Or Sm. |

[illegible]

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

U.S. DEPARTMENT OF JUSTICE
COLORADO PLATEAU DISTRICT of 7

Map coord (T) Upper Ford
 Map coord (P) _____
 Sec. 4 T 26 S R 11 E
 Co., State Grand Coulee, Idaho

Claim Case 1:15-cv-00001-R
Date completed 9/28/15
Date logged 9/28/15
Logged by WRB

Graphic

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

DRILL LOG

[illegible]

U.S. GEOLOGICAL SURVEY
LIBRARY
NOV 21 1969
DENVER

[illegible]

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

GPO 835041

Hole No. GR-2 (PL-1)

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Map coord (T) 43-50-00 N
Map coord (P) 105-00-00 W
Sec. 7 T. 20 S R. 6 E
Co. State Grand County Utah

Claim 5102 F-16 (Korea)
Date completed 12/12/84
Date logged 12/12/84
Logged by WAB

Graphic
log

Summary of log. 5.00 - 5.00 / 1.00; OBSS from 4.77 to 5.25 thick 5.8 ; SS color pink, gy ; MS US, 10th ; Cbn. N
5.00 - 5.00 / 1.00 ; OBSS from 5.33 to 5.90 thick 5.0 ; SS color gy - pink - dk ; MS US, 5th ; Cbn. N

GOVERNMENT OF THE DISTRICT OF COLUMBIA

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's | Cbn | MS in SS | Remarks |
|-------|---------|-------|-------|-------|--------|---------|--------|-------------------|-----|----------|--------------------------|
| 300.0 | 300.0 | 25.0 | 25.0 | — | SS-Gal | Gy Yw | C-Gal | A, Gy (fine) silt | N | | |
| 304.0 | 304.0 | 30.0 | 5.0 | — | SS | Gy Or | M | A, C, (fine) silt | N | | |
| 306.5 | 306.5 | 105.0 | 5.0 | — | MS | White | SS-Gal | A, Gy (fine) silt | N | | |
| 312.0 | 312.0 | 119.0 | 5.0 | — | SS | White R | SS | A, Gy (fine) silt | N | | |
| 315 | 315 | 120.0 | 10.0 | — | SS | White R | SS | A, Gy (fine) silt | N | | |
| 318.5 | 318.5 | 190.0 | 70.0 | — | SS | White R | SS | A, Gy (fine) silt | N | | |
| 320.0 | 320.0 | 200.0 | 10.0 | — | SS | Gy Yw | MS-M | A, Gy (fine) silt | N | | |
| 32 | 32 | 320.0 | 70.0 | — | MS | Gy Yw | MS | A, Gy (fine) silt | N | | |
| 35.5 | 35.5 | — | — | — | — | — | — | — | — | | |
| 27.0 | 27.0 | 235.0 | 15.0 | — | MS | White R | MS | A, Gy (fine) silt | N | | |
| 30.0 | 30.0 | 300.0 | 15.0 | — | MS | White R | MS | A, Gy (fine) silt | N | | |
| 33.0 | 33.0 | — | — | — | — | — | — | — | — | | |
| | | 300.0 | 1.0 | 50 | MS | White R | MS | A, Gy (fine) silt | N | | Begin Core |
| | | 310.2 | 9.2 | 40 | MS | White R | MS | A, Gy (fine) silt | N | | Blk R streaks & patches |
| | | — | — | — | — | — | — | — | — | | Linear layer 309.5-310.0 |
| | | 311.7 | 1.5 | 100 | SS | White R | SS | A, Gy (fine) silt | N | | |
| | | 314.8 | 3.9 | 100 | MS | White R | MS | A, Gy (fine) silt | N | | |
| | | 315.0 | 0.2 | 100 | MS | White R | MS | A, Gy (fine) silt | N | | |
| | | 318.5 | 3.5 | 100 | MS | White R | MS | A, Gy (fine) silt | N | | |
| | | 319.5 | 1.0 | 100 | MS | White R | MS | A, Gy (fine) silt | N | | |
| | | 322.0 | 7.5 | 100 | SS | White R | SS | A, Gy (fine) silt | N | | |
| | | 331.5 | 41.5 | 100 | MS | White R | MS | A, Gy (fine) silt | N | | Core3 venter at 330.5 |

[illegible]

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

CPD 925041

Hole No: G/2.1.1 (70L-2)

Drill-hole No. 65-3 (P. 2) (EX. 1)
Inclination Vertical Bearing _____
Total depth 648.5
Collar elev. 6143.02 T _____ P _____
Area Area 140, Beaver Area

Map coord (T) 10° 50' 00" N
Map coord (P) _____
Sec. 7 T. 100S R. 10E
Co., State Grand County, Utah

Claim _____ (Sul. from March)

Date completed 12/2/55

Date logged 12/2/55

Logged by WJF

Area Blue Lake, Beaver Mass. Co., State Mass. logged by W. H. B. Graphic
Summary of log OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____
log _____

LITHOLOGIC LOG

[illegible][illegible]

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NOV 21 1969
DENVER

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

GPO 8350 41

Hole No. CR-3 CPL-2

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
Page 3 of 6

Map coord (T) Unsurveyed
Map coord (P) _____
Sec. 7 T. 25 S. R. 14 E.
Co., State Grand County Miss

Claim: -- (Snd Date Remcd)
Date completed: 12/14/58
Date logged: 12/18/58
Logged by: WIP

| |
|-----|
| Rev |
| Ed |

Area 1000 Lake Superior MGS Co., State Grand Logged by W. H. C. C. Graphic
Summary of log : OBSS from to thick : SS color : MS : Chn : log

| DRILL LOG | | | LITHOLOGIC LOG | | | | | | | | | |
|-----------|---------|-------|----------------|-------|------|----------|-------|----------------|-----|----------|---|--|
| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks | |
| 418.0 | 1.0 | 445.6 | 7.6 | 100 | MS | Pale Rdr | MS | A. G. Co. | N | | at G. G. band at 440.0' | |
| 423.0 | | 447.0 | 1.4 | 100 | ST | G. G. | ST | A. G. Co. | N | | | |
| 428.0 | 2.5 | 452.1 | 5.1 | 100 | MS | Pale Rdr | MS | A. G. Co. | N | | | |
| 433.0 | 5.0 | 454.1 | 2.0 | 100 | MS | Pale Rdr | MS | A. G. Co. | N | | S, pale red streaks & patches | |
| 438.0 | 4.5 | 454.5 | 0.4 | 100 | LS | White | ST | | N | | | |
| 443.0 | | 455.1 | 1.6 | 100 | MS | Pale Rdr | MS | | N | | VS, pale red patches | |
| 447.0 | 9.0 | 455.7 | 0.6 | 100 | LS | White | ST | | N | | | |
| 452.5 | 10.5 | 460.1 | 3.4 | 100 | MS | Pale Rdr | MS | | N | | | |
| 466.0 | 8.5 | 461.8 | 1.7 | 100 | LS | White | ST | | N | | | |
| 479.5 | 13.5 | 463.2 | 1.4 | 90 | MS | Pale Rdr | MS | A. G. Co. | N | | | |
| | | 465.5 | 2.3 | 100 | ST | Pale Rdr | ST | A. G. Co. | N | | S, pale red patches; G. G. streaks in upper 0.5' prob. just G. G. | |
| | | 466.0 | 0.5 | 100 | LS | White | ST | | | | | |
| | | 479.6 | 13.6 | 100 | MS | Pale Rdr | MS | A. G. Co. | | | | |
| | | 483.3 | 3.7 | 100 | LS | White | ST | | | | | |
| | | 491.0 | 7.7 | 100 | MS | Pale Rdr | ST | A. G. Co. | | | | |

[illegible]

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

CPO 835041

Hole No.

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Map coord (T) Uncovered
Map coord (P) _____
Sec. 7 T. 23 R. 15E
Co., State Grand County, Utah

Claim --- Serial 17-000 Acquired 12/12/1965
 Date completed 12/12/1965
 Date logged 12/17/1965
 Logged by WJL

Graphic
log

[illegible]

DRILL LOG

| Depth | Rec ft. | Base | Thick. | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
|-------|---------|--------|--------|-------|-------|----------------|-------|------------------|-----|--------------|--------------------------|
| 479.5 | 15.0 | 479.5 | 0.5 | 100 | LS | lt Gr Gr | ST | | N | | shaly |
| 497.0 | 35 | 475.2 | 3.6 | 95 | MSHST | Pz, ls, Gr, F. | MSHST | M, Calc | N | | sh, lt Gr, patches |
| 501.0 | 35 | 497.0 | 1.8 | 100 | LS | lt Gr Gr | ST | | N | | shaly w pale red patches |
| 508.0 | 40.0 | 501.0? | 4.0 | 90 | SS | Pz, ls, R | F | M, Calc, Gr | N | | |
| 518.0 | 45 | 508.0 | 7.0 | 100 | Gr | Gr - N | Gr | R, Gr, ls, F, ls | | | |
| 529.5 | 50.5 | 512.2 | 4.2 | 100 | SS | Gr, ls, F, ls | F | M, ls, M, Gr | N | | |
| 539.5 | 55.5 | 513.2 | 1.0 | 100 | ST | Gr R | ST | Gr, ls, F, ls | N | | |
| 544.5 | 60.5 | 515.0 | 1.8 | 100 | SS | Gr, ls, F, ls | F | M, Gr, ls, F, ls | N | | |
| 554.5 | 65.5 | 515.0 | 1.0 | 100 | MS | Gr R, P. | MS | S, Gr, ls, F, ls | | | |
| 555.7 | 70.7 | 523.5 | 7.5 | 100 | SS | Gr, ls, F, ls | F | M, Gr, ls, F, ls | N | S, Gr, ls, P | |
| | | 529.5 | 4.0 | 0 | Gr | Gr - N | Gr | | | | |
| | | 533.0 | 3.5 | 95 | Gr | Gr, ls, F, ls | MS | M, Gr, ls, F, ls | N | | |
| | | 536.5 | 3.5 | 85 | ST | Gr | ST | M, Gr, ls, F, ls | N | | |
| | | 537.5 | 1.8 | 90 | MS | Gr, ls, F, ls | MS | M, Gr, ls, F, ls | N | | |
| | | 539.3 | 1.8 | 90 | ST | Gr, Gr | ST | M, Gr, ls, F, ls | N | | |
| | | 550.0 | 10.7 | 95 | MSHST | Pz, ls, F, ls | MSHST | M, Gr, ls, F, ls | N | | very patches of pale R |
| | | | | | | Pz, ls, F, ls | | | | | |
| | | 552.7 | 2.7 | 100 | ST | Pz, ls, F, ls | ST | M, Gr, ls, F, ls | N | | |
| | | 553.7 | 1.0 | 100 | ST | Gr, ls, F, ls | ST | S, Gr, ls, F, ls | N | | |

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[illegible]

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

GPO 835041

Hole No. 62-3 (PL-2)

Drill-hole No. 1025 (71-2) (EX) _____
 Inclination vertical Bearing _____
 Total depth 648.5 _____
 Collar elev. 8165.0 ft T _____ P _____
 Area Pico Lake, Beaver Head _____

Map coord (T) Line 1000
Map coord (P) _____
Sec. 7 T. 26 N. R. 35 E.
Co., State Sevier, Mo.

Claim CSA Power Products
 Date completed 12/12/58
 Date logged 12/12/58
 Logged by W. J. B.

Graphic
'log

Summary of log *Semi - favorable* : OBSS from 497 to 525 ; SS color *Pink Gyn* ; MSV's *6u* ; Cbn. *u*
Semi - favorable 525 590 595 *Yellow - Reddish* 595 *5.6u*

507 219010HJ17

| DRILL LOG | | | LITHOLOGIC LOG | | | | | | | | | |
|-----------|---------|--|----------------|-------|-------|---------|--------------|-------|-------------------------------|-----|----------------------|-----------------------------------|
| Depth | Rec ft. | | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
| 555.7 | | | 555.2 | 4.5 | 100 | ST | Pale R | ST | | N | | C. 1. R. MS at top |
| 554.5 | 9.8 | | 553.2 | 4.0 | 100 | SS | Pale R | F | S. Gn, R. Int. 5-14 | N | A. R. Int. S. R. Fk. | |
| | | | — | | | | | | Calc. | | | |
| 574.5 | 9.0 | | 565.5 | 6.3 | 100 | SS | V. Pale R | F | S. Lim. f. S. Gy. B. 2 | N | S. Gn, Fk. | |
| | | | — | | | | | | Gn. Int. 14; f. S. COB | | | |
| 581.5 | 7.0 | | 563.5 | 0.4 | 100 | SS | Yw Gy | F | S. OP. | N | A. Yw, FA. | |
| 587.5 | 5.0 | | 587.3 | 2.3 | 90 | SS | V. Pale R | F | S. Lim. f. S. S. S. 32 | N | | |
| | | | — | | | | | | S. Gn. Int. 20 | | | |
| 591.5 | 3.5 | | 587.5 | 0.3 | 33 | ST | Lt. G. Gn | ST | | | | |
| 597.5 | 6.0 | | 590.2 | 2.7 | 75 | SS | Yw Gy | VF | S. Lim. f. S. COB; S. Int. 14 | N | | |
| 598.5 | 5.0 | | 590.6 | 0.4 | 33 | MS | Lt. Gn | MS | | N | | |
| | | | 590.4 | 0.8 | 50 | LS | Lt. Gn | ST | | N | | |
| 600.5 | 6.0 | | 592.5 | 2.1 | 50 | MS | Pale R | MS | A. f. S. COB | N | | hard, granular? |
| 608.5 | 10.0 | | 598.7 | 1.2 | 100 | Limy ST | Lt. Olive Gr | ST | M. f. S. COB | N | | |
| | | | 594.5 | 0.6 | 100 | MS | Pale R | MS | A. f. S. COB | N | | |
| | | | 594.9 | 0.6 | 100 | ST | Pale R | ST | M. f. S. COB | N | | hard |
| | | | 595.2 | 0.3 | 100 | Limy ST | Lt. Olive Gr | ST | M. f. S. COB | N | | |
| | | | 600.0 | 0.2 | 100 | MS | Pale R | MS | A. f. S. COB | N | | |
| | | | 600.5 | 1.1 | 100 | ST | Pale R | ST | M. f. S. COB | N | | |
| | | | 603.1 | 2.6 | 100 | SS | Pale R | MS | M. f. S. COB | N | | |
| | | | 607.7 | 2.6 | 100 | SS | Pale R | ST | M. f. S. COB | N | | |
| | | | 609.0 | 1.3 | 100 | MS | Pale R | MS | S. f. S. COB | N | | |
| | | | 606.3 | 17.3 | 100 | ST | Pale R | ST | M. f. S. COB | N | | hard; Olive Cr. streaks & patches |

[illegible]

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

GPC #35041

Hole No.

1. 10. 1950

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DENVER

Inclination 70° 51' 24" Bearing
 Total depth 668.5
 Collar elev. 8165.04 T P
 Area 7500 sqm, Beaver Mts
 Map coord (T) 6350000
 Map coord (P)
 Sec. 7 T 20S R 30E
 Co. State Grand Counties

| | |
|----------------|------------------|
| Claim | (S&B 10-10-1986) |
| Date completed | 12/10/85 |
| Date logged | 12/12/85 |
| Logged by | WAB |

Graphic
.log

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

LITHOLOGIC LOG

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
|-------|---------|-------|-------|-------|---------|---------------|--------|----------------|-----|----------|-------------------------------|
| 618.5 | - | 627.6 | 1.3 | 100 | limy ST | lt olive Gy | ST | M, Co, S, O, S | N | | |
| 10.0 | | 636.3 | 8.7 | 90 | MSS ST | Pale N. S. S. | MSS/ST | M, Co, S, O, S | N | | lt olive Gy streaks + patches |
| 628.5 | | - | | | | lt olive Gy | | | | | |
| 8.9 | | 638.5 | 2.2 | 80 | limy ST | lt olive Gy | ST | M, Co, S, O, S | N | | lt olive Gy streaks + patches |
| 10.0 | | 645.5 | 7.0 | 100 | ST | Pale N | ST | M, Co, S, O, S | N | | Pale N. streaks + patches |
| 548.5 | | 646.3 | 0.8 | 100 | limy ST | lt olive Gy | ST | M, Co, S, O, S | N | | |
| | | 648.3 | 2.0 | 100 | MSS | Pale N. S. S. | MSS | M, Co, S, O, S | N | | |
| | | 648.5 | 0.2 | 100 | limy ST | lt olive Gy | ST | M, Co, S, O, S | N | | |

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[illegible]

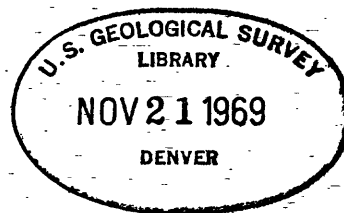
*Assays marked "e" are from lab gamma-ray readings

CPD #35041

Hole No. 611-3 (PL-2)

NOTE:

Hole GR-4 was abandoned at shallow depth. Its position is not shown on figure 2



Drillhole No. 65-5 (K2-3) ('BX')

Inclination Vertical Bearing

Total depth 655.5'

Collar elev. 8280.02 T P

Area Kirk's Basin, Beaver Mesa

Map coord (T) Unkn
Map coord (P) _____
Sec. 63 T. 24S R. 26E
Co. State and Country Utah

| | |
|-----|--|
| Rev | |
| Ed | |

Claim 52nd Precinct

Date completed 10/26/15

Date logged 10/26/15

Logged by W/R 13

Graphic

Summary of log _____; ODSS from _____ to _____; SS color _____; MS _____; Cbn. _____

LITHOLOGIC LOG

| DRILL LOG | | LITHOLOGIC LOG | | | | | | | | | |
|-----------|---------|----------------|-------|-------|------|---------------|-------|----------------|-----|----------|----------------------|
| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
| 443.5 | 12.2 | 439.0 | 0.2 | 100 | MS | Gr Yw | MS | M, G, C, O, S | | | |
| 448.5 | | 440.7 | 1.7 | 90 | MS | Gr Yw | MS | M, G, C, O, S | | | |
| | | 441.6 | 0.9 | 90 | ST | LT Gr Gln | ST | A, G, C, O, S | | | S. Mod. Gln. Patches |
| | 9.1 | 448.9 | 7.3 | 100 | MS | Blk-R Br | MS | A, G, C, O, S | | | |
| | | 454.5 | 5.6 | 90 | SS | VLt Gr Gln Gp | F | S, R, S, M, S | N | | |
| | | | | | | | | S, R, S, M, S | | | |
| | | | | | | | | S, R, S, M, S | | | |
| | | 455.5 | 1.0 | 90 | ST | LT Gr | ST | S, R, S, M, S | | | |
| | | 458.0 | 2.5 | 90 | SS | VLt Gr | F | S, R, S, M, S | | | |
| | | | | | | | | S, R, S, M, S | | | |
| | | 458.5 | 0.5 | 90 | MS | Blk-R Br | MS | S, R, S, M, S | | | |
| | | 460.9 | 2.4 | 100 | SS | Yw Gr | M | S, R, S, M, S | N | | A. G. Fls. |
| | | | | | | | | S, R, S, M, S | | | |
| | | 463.6 | 2.7 | 90 | MS | Blk-R Br | MS | S, R, S, M, S | | | |
| | | 464.4 | 0.8 | 100 | ST | LT Gr Gln | ST | S, R, S, M, S | | | |
| | | 464.8 | 0.4 | 90 | MS | Blk-R Br | MS | S, R, S, M, S | | | |
| | | 465.5 | 0.7 | 100 | ST | LT Gr | ST | S, R, S, M, S | | | |
| | | 467.6 | 2.1 | 90 | MS | Blk-R Br | MS | S, R, S, M, S | | | |
| | | 468.5 | 0.9 | 90 | ST | VLt Gr | ST | S, R, S, M, S | | | |
| | | 468.8 | 0.3 | 100 | MS | VLt Gr | MS | S, R, S, M, S | | | |
| | | 472.3 | 3.5 | 100 | MS | Blk-R Br | MS | S, R, S, M, S | | | |
| | | 473.0 | 0.7 | 100 | ST | LT Gr | ST | S, R, S, M, S | | | |
| | | 474.6 | 1.6 | 100 | MS | Blk-R Br | MS | S, R, S, M, S | | | |

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[illegible]

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

GPO 835041

Hole No. GR-5 (K-13-3)

Drill hole No. 50-5 (40-2)

| | | | |
|----------------|------------------|-----|----|
| Claim | (540) (Class 35) | | |
| Date completed | 10/26/55 | Rev | HK |
| Date logged | 10/26/55 | Ed | |
| Logged by | WAB | | |

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

DRILL LOG

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks |
|-------|---------|--------|-------|-------|----------|-----------|----------|---|-----|-----------|----------------------------------|
| 468.5 | 11.0 | 475.2 | 0.6 | 100 | M | Gr Gr | MS | A, CaCO ₃ | | | |
| 479.5 | 14.8 | 477.6 | 2.4 | 100 | MS | Blk to MS | MS | M, CaCO ₃ | | | |
| 494.5 | | 480.1 | 3.5 | 100 | SS to MS | Blk Gr | ST | M, CaCO ₃ , MnO ₂ | | | incl. CaCO ₃ veinlets |
| | | | | | | | | lim | | | |
| 509.5 | 11.5 | 481.9 | 1.8 | 100 | MS | Blk to R | MS | A, CaCO ₃ | | | |
| | | 482.7 | 0.8 | 100 | ST | Lt Gr Gr | ST | A, MnO ₂ | | | |
| | | 485.0 | 3.1 | 100 | MS | Blk to R | MS | A, MnO ₂ | | | |
| | | 486.3 | 0.5 | 100 | SS to MS | Lt Gr Gr | ST | A, CaCO ₃ | | | |
| | | 493.9 | 7.6 | 93 | MS to ST | Blk to R | MS to ST | M, CaCO ₃ | | | |
| | | | | | | Blk to R | | | | | |
| | | 495.3 | 1.4 | 100 | SS | Lt Gr Gr | F | S Lim to Blk to Gr Gr | | | CaCO ₃ veinlets |
| | | | | | | | | A, MnO ₂ | | | |
| 526.6 | 3m66 | 501.5 | 6.2 | 80 | MS to ST | Blk to R | MS to ST | A, MnO ₂ | | | |
| 535.0 | 3m50 | 502.10 | 0.5 | 80 | SS | Lt Gr Gr | | S, Blk to Gr | N | S, Gr, Fk | |
| 542.9 | | 502.9 | 0.7 | 80 | SS | Blk to R | | S | N | A, R, Fk | |
| 552.0 | | 503.0 | 0.1 | 100 | MS | Blk to R | MS | | | | |
| 560.5 | | 504.5 | 1.5 | 80 | SS | Blk to R | F | A, MnO ₂ , Gr Gr | N | | |
| | | | | | | | | Gr | | | |
| 564.6 | | 504.6 | 0.3 | 100 | MS | Blk to R | MS | | | | |
| 568.9 | | 505.9 | 2.1 | 80 | SS | Gr to R | F | | N | | incl. along rim belly, plates |
| | | | | | | | | M, CaCO ₃ , MnO ₂ | | | |
| 577.7 | | 507.7 | 0.8 | 100 | ST | Blk to R | ST | S, Lim | | | |
| 586.2 | | 508.2 | 0.5 | 100 | MS | Blk to R | MS | | | | |

[illegible]

Hole No. G12-1 (X12-3)

Inclination 68° 5' Bearing P
Total depth 685
Cutter elev. 5 T 1
Area 10 1 1

Map coord (T) U-200000000
 Map coord (P) _____
 Sec. 16 T. 2 S. R. 2 E.
 Co. State 200000000

Claim — (Sud. Ben. Rank)
Date completed 10/26/65
Date logged 10/26/65
Logged by — H.H.H.

| | | |
|-----|----|--------|
| Rev | HK | 3/1/66 |
| Ed. | | |

log
Graphic

Summary of log Unfavorable; OBSS from 509.2 to 524.5 thick 2.5 ; SS color Gy Yw ; MS A' S^o ; Cbn. N

LITHOLOGIC LOG

| DRILL LOG | | | LITHOLOGIC LOG | | | | | | | | | |
|-----------|---------|-------|----------------|-------|---------|-----------|-------------------------|---------------------------------|-----|------------------|--|--|
| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Cbn | MS in SS | Remarks | |
| 10.9.5 | 9.5 | 509.2 | 1.0 | 80 | ST | Gr/Yo | ST | A. lim. M. d. CaCO ₃ | | | | |
| | | 504.5 | 5.3 | 90 | SS | Gr/Yo | F | A. lim. M. d. CaCO ₃ | N | S. Gr, M.S., Fks | | |
| 19.5 | | — | | | | | | S. Gr, M. d. CaCO ₃ | | | | |
| 5.3 | | 517.2 | 2.3 | 95 | SS | Gr/Yo | M.F. | A. lim. M. d. CaCO ₃ | N | S. Gr, Yr, Fks | | |
| 5.0 | | — | | | | | | Gr, M. d. CaCO ₃ | | | | |
| 14.5 | | 524.0 | 6.8 | 95 | SS | Gr/Yo | F | S. Gr, M. d. CaCO ₃ | N | S. Gr, Fks | | |
| 2.5 | | — | | | | | | S. Gr, M. d. CaCO ₃ | | | | |
| 10.7 | | 524.5 | 0.5 | 95 | Gr/Yo | Gr/Yo | F | S. Gr, M. d. CaCO ₃ | N | A. Gr, Yr, Fks | | |
| 1.0 | | 526.8 | 2.3 | 100 | M.S. | Blk/N.R. | M.S. | M. d. CaCO ₃ | N | — | | |
| 1.7 | | 530.2 | 3.4 | 100 | ST/M.S. | Gr/Yo | ST/M.S. | M. d. CaCO ₃ | N | — | Gr ST w/ Pale R.Br. MS splints | |
| 5 | | — | | | | | | M. d. CaCO ₃ | | | | |
| 5.0 | | 533.5 | 3.5 | 100 | M.S. | Pale R.B. | M.S. | A. lim. M. d. CaCO ₃ | | | | |
| | | 533.9 | 0.4 | 100 | ST | Lt Gr/Yo | ST | A. lim. M. d. CaCO ₃ | N | | | |
| | | — | | | | | | M. d. CaCO ₃ | | | | |
| | | 537.6 | 3.7 | 100 | ST | Lt Gr/Yo | ST | A. lim. M. d. CaCO ₃ | N | | | |
| | | 538.7 | 1.3 | 100 | ST | Lt Gr/Yo | ST | M. d. CaCO ₃ | N | | inc. CaCO ₃ var. lot which ends abrupt at contact with RST at top | |
| | | — | | | | | | M. d. CaCO ₃ | | | | |
| | | 540.4 | 1.5 | 100 | SS | Lt Gr/Yo | V.F. | S. Gr, M. d. CaCO ₃ | N | A. Gr, Fks | | |
| | | 549.6 | 9.2 | 100 | ST | Lt Gr/Yo | M. d. CaCO ₃ | A. CaCO ₃ | | | | |
| | | 554.0 | 1.4 | 100 | ST | Lt Gr/Yo | ST | M. d. CaCO ₃ | N | S. Gr, Fks | | |
| | | 561.5 | 10.5 | 50 | M.S. | Blk/N.R. | M.S. | A. CaCO ₃ | | | | |
| | | 561.9 | 0.4 | 100 | M.S. | Lt Gr/Yo | M.S. | M. d. CaCO ₃ | | | | |
| | | 566.1 | 4.2 | 100 | ST | Lt Gr/Yo | ST | A. CaCO ₃ | | | incl. sev. MS splints | |

[illegible]

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

QPC A35041

Hole No. GR-5 (15B-3)

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
D. F. CO. (1910-11)

Map coord (T) 6030000
 Map coord (P) 763
 Sec. 12 T. 24 S. R. 2 E.
 Co., State Grand Ill.

Claim 560,140,157,000
Date completed 10/26/53
Date logged 10/26/53
Logged by W.H.B.

Graphic
log

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

DRILL LOG

| Depth | Rec ft. | Base | Thick | Rec % | Rock | Color | Grain | Access. Min's. | Chn | MS in SS | Remarks |
|-------|---------|-------|-------|-------|--------|-----------------|--------|------------------------|-----|-----------------|---------------------------|
| 564.5 | 14.4 | 568.0 | 1.9 | 100 | Lim SS | Vlt Gr | VF | M, Co, Gr, R, S, G | N | | |
| 74.5 | | 569.7 | 1.7 | 100 | MS | White, R, G, Gr | MS | A, Co, G, R | | | diff. bands of each color |
| | | 570.2 | 0.5 | 95 | MS | Gr G | MS | A, Co, G, R | S | | |
| 9.7 | | 571.3 | 1.6 | 75 | SS | Wt Gr | ST | M, Co, G, R, S, G | N | | |
| 5.5 | | 579.0 | 6.5 | 95 | MS | Wt Gr, R, B, G | MS, ST | A, Co, G, R, S, G | | | diff. bands of each color |
| | | — | — | — | — | Gr G | | | | | |
| 18.5 | | 580.0 | 2.0 | 95 | LS | Gr G | ST | | | | |
| 13.2 | | 584.7 | 3.7 | 75 | ST | Wt Gr, R, S, G | ST | A, Co, G, R, S, G | | | |
| | | — | — | — | — | Wt Gr G | | | | | |
| 3.5 | | 585.5 | 0.8 | 75 | MS | Wt Gr, R, S, G | MS | A, Co, G, R, S, G | | | |
| | | 585.5 | 3.0 | 75 | ST | Wt Gr, R, S, G | ST | M, Co, G, R, S, G | | | |
| | | — | — | — | — | Gr G | | | | | |
| | | 587.5 | 1.0 | 75 | MS | Wt Gr, R, S, G | MS | A, Co, G, R, S, G | | | |
| | | 589.7 | 0.2 | 100 | LS | Wt Gr G | ST | | | | |
| | | 592.6 | 8.9 | 100 | ST, MS | Wt Gr, R, S, G | ST, MS | A, Co, G, R, S, G | | | incl. Wt Gr G streaks |
| | | 593.3 | 0.7 | 100 | ST | Wt Gr | ST | A, Co, G, R, S, G | | | |
| | | 600.7 | 2.4 | 100 | ST, MS | Wt Gr, R, S, G | ST, MS | A, Co, G, R, S, G | | | |
| | | — | — | — | — | Gr G | | | | | |
| | | 601.3 | 0.6 | 100 | MS | Wt Gr, R, S, G | MS | A, Co, G, R, S, G | | | Unstained, S, MS at top |
| | | 605.4 | 3.8 | 100 | ST | Wt Gr, R, S, G | ST | A, Co, G, R, S, G | | | incl. Wt Gr G streaks |
| | | 614.0 | 8.7 | 70 | MS | Wt Gr, R, S, G | MS | A, Co, G, R, S, G | | | |
| | | 616.2 | 2.2 | 100 | SS | Wt Gr, R, S, G | VF | S, G, R, S, G, R, S, G | N | signif. S, R, S | All bands of each color |
| | | — | — | — | — | R | | A, Co, G, R, S, G | | | |

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

GPO 835041

Hole No. CR-5-CKB-3

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
 COLORADO PLATEAU DISTRICT

Drill hole No. 50-2720-3 (P)
 Location Wichita, Kansas
 Total depth 63.5
 Casing elev. 8100 T
 Area Rocky Mtn. Reserve

Map coord (T) Wichita
 Map coord (P) Wichita
 Sec. 16
 Co., State Kan., Kans.

Claim (See Section)
 Date completed 10/10/55
 Date logged 10/10/55
 Logged by W.S.S.

Graphic log

Summary of log 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 |
|-------|---------|-------|-------|-------|------|------------|-------|--------|--------|-----|------------------|--|
| 613.5 | 8.0 | 622.5 | 6.3 | 100 | MS | Light gray | MS | | | N | | At least each column 6000 gyp |
| | | | | | | Light gray | | | | | | variable from 610.5 to 619.5 |
| 621.5 | | 622.9 | 3.4 | 100 | SS | LT GR | VI | | | N | 5.0 g/L (K. 2.5) | CaCO ₃ variegated w/ x-bands at 523.5 |
| | | | | | | | | | | | R. 5m. | |
| 625.5 | | 631.6 | 5.7 | 100 | ST | Light gray | ST | | | N | | |
| | | | | | | Gray | | | | | | |
| 635.5 | | 638.1 | 1.5 | 100 | MS | Light gray | MS | | | N | | |
| 645.5 | | 649.1 | 2.0 | 100 | ST | Light gray | ST | | | N | | |
| 655.5 | | 654.8 | 2.7 | 100 | ST | Light gray | ST | | | N | | |
| | | 656.8 | 2.0 | 100 | MS | Light gray | MS | | | N | | |
| | | 657.8 | 2.8 | 100 | ST | Light gray | ST | | | N | | |
| | | | | | | Light gray | | | | | | |
| 665.5 | | 665.3 | 3.7 | 100 | MS | Light gray | MS | | | N | | |
| 670.5 | | 670.3 | 1.8 | 100 | ST | Light gray | ST | | | N | | |
| 675.5 | | 675.1 | 4.5 | 100 | MS | Light gray | MS | | | N | | 2 few streaks of Lt. Gray |
| | | | | | | | | | | | | |
| 685.5 | | 685.8 | 2.4 | 100 | MS | Light gray | MS | | | N | | |
| 690.5 | | 690.6 | 2.8 | 100 | ST | Light gray | ST | | | N | | |
| 695.5 | | 695.1 | 5.2 | 100 | MS | Light gray | MS | | | N | | |
| 700.5 | | 700.3 | 0.7 | 100 | ST | Light gray | ST | | | N | | |
| | | | | | | | | | | | | |

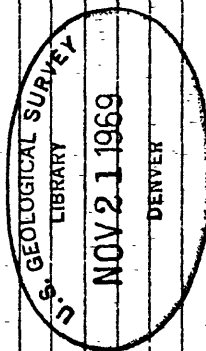
Inclination _____ Bearing _____
 Total depth _____
 Celler elev. _____ T _____ P _____
 Area Kirk's Basin, Beaver Mess
 Summary of log _____ OBS from _____

Summary of log_____OBSS from...

DRILL LOG

[illegible]

Hole's



Drillhole No. GR-8 (TC-2). (NY-)

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

MS _____; Cbn.

DRILL LOG

[illegible]

Hole No. GR-8 (TC-2)

Inclination Vertical Bearing 100°
Total depth 1
Collar elev. 8235.0 ft
Area Taylor Creek Boxer 17-82

Summary of lot : QBSS from _____ to _____; SS color _____; MS _____; Cbn. _____

DRILL LOG

[illegible]

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DENVER

[illegible]

Hole No. GR-9 (TC-2)

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_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 .

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.