

Received 5/14/58 from Jim Brown.

LITHOLOGIC DESCRIPTION OF
GENERAL PETROLEUM CORPORATION'S OIL SHALE COREHOLE 35-28

Location: 2,152.4 ft N & 1,847.5 ft E from SW corner
Section 28 - 10S - 25 E, Uintah County, Utah

Drilled : September, 1957

Surface Elevation 6,173.31 ft TD 450 ft
Mahogany Marker @ 377.8 ft

| <u>From</u> | <u>To</u> | <u>Feet</u> | |
|-------------|-----------|-------------|---|
| 0. | 5.0 | No Sample | |
| 5. | 28.5 | 23.5 | Marlstone, whitish gray to gray, locally light buff, badly broken locally, 9° apparent dip. |
| 28.5 | 30.5 | 2.0 | Marlstone, gray to dark gray, fine laminations. |
| 30.5 | 51.7 | 21.7 | Rec. 20.2 ft. Marlstone, buff to light gray, locally numerous vugs, with calcite streaks. |
| 51.7 | 71.0 | 19.3 | Marlstone, gray, lineations on specks of weathered material. 10° apparent dip. |
| 71.0 | 75.6 | 4.6 | Marlstone, greyish brown. |
| 75.6 | 85.9 | 10.3 | Marlstone, gray to dark gray. Generally massive with scattered fine laminations locally. 10 to 12° apparent dip. |
| 85.9 | 88.2 | 2.3 | Marlstone, light gray, as above. |
| 88.2 | 108.2 | 20.0 | Marlstone, gray to dark gray, generally massive. Rare scattered light gray silt streaks less than 1", occasional fractures filled with calcite, somewhat speckled appearance locally. |
| 108.2 | 128.2 | 20.0 | Marlstone, as above. No prominent color banding. 9° apparent dip. |
| 128.2 | 148.2 | 20.0 | Marlstone, as above. Has vertical fractures locally. 9° apparent dip. |
| 148.2 | 168.2 | 20.0 | Marlstone, as above. Locally more dark gray. 9° apparent dip. |
| 168.2 | 177.4 | 9.2 | Marlstone, as above. Light gray to white, tuffaceous questionable, sandstone 0.2 ft thick at 172.9 ft (fair marker)? |
| 177.4 | 178.2 | .8 | Marlstone, as above. However, very dark gray in upper part, capped by less than 0.1 ft gilsonite stringer. |
| 178.2 | 198.2 | 20.0 | Marlstone, gray to dark gray with faint brown cast locally change of apparent dip from 9° to 4° downward. |

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|-------------|-----------|-------------|---|
| 198.2 | 218.2 | 20.0 | Marlstone as above. 4 to 8° apparent dip. |
| 218.2 | 238.2 | 20.0 | Marlstone as above. 4 to 8° apparent dip. |
| 238.2 | 258.2 | 20.0 | Marlstone as above. Contains 2 blue beds in middle portion and 0.1 ft tuffaceous (?) siltstone at bottom. |
| 258.2 | 259.0 | .8 | Blue bed. |
| 259.0 | 279.0 | 20.0 | Rec. 16.4 ft. Marlstone. Gray to dark gray with partial oil saturated sandy siltstone 1" thick at 259. 2" sand oil saturated and contains several other small stringers of sand less than 1" thick that is oil saturated. |
| 279.0 | 299.0 | 20.0 | Marlstone as above. Contains several oil saturated silty sands varying from 0.2 to 0.4 ft thick scattered throughout. |
| 299.0 | 319.0 | 20.0 | Marlstone as above with several thin oil saturated sands and one prominent tuffaceous sand 1.3 ft thick at 314.5 ft (upper wavy bed). ★ |
| 319.0 | 322.0 | 3.0 | Marlstone gray to brown locally laminated. Appears somewhat richer than last above. |
| 322.0 | 336.5 | 14.5 | Marlstone light gray to gray. |
| 336.5 | 337.5 | 1.0 | Blue bed. |
| 337.5 | 342.5 | 5.0 | Marlstone, gray laminations. |
| 342.5 | 343.5 | 1.0 | Blue bed. |
| 343.5 | 345.5 | 2.0 | Marlstone, light gray to gray. Fine laminations. |
| 345.5 | 346.5 | 1.0 | Blue bed. High grade, very shaly. Fine laminations. Flexible. |
| 346.5 | 360.0 | 13.5 | Marlstone. Light gray, white to light brown in lower part, 5° apparent dip. |
| 360.0 | 361.0 | 1.0 | Blue bed, lower grade. |
| 361.0 | 365.0 | 4.0 | Marlstone, light gray. |
| 365.0 | 367.0 | 2.0 | Marlstone, with interbedded thin tuffaceous sands. |
| 367.0 | 369.0 | 2.0 | Marlstone, light gray to light brown, rare medium brown streaks. |

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|-------------|-----------|-------------|--|
| 369.0 | 370.0 | 1.0 | Blue bed with several analcite stringers less than 0.1 ft. |
| 370.0 | 378.0 | 8.0 | Marlstone, light gray to tan somewhat less laminated. |
| 378.0 | 378.5 | 0.5 | Mahogany marker actually at 377.8 ft, oil saturated. Analcite. |
| 378.5 | 382.5 | 4.0 | Marlstone, light gray to tan. |
| 382.5 | 383.0 | 0.5 | Blue bed. |
| 383.0 | 385.0 | 2.0 | Marlstone, gray to brown. |
| 385.0 | 387.5 | 2.5 | Blue bed with 0.5 ft lean streak near middle. |
| 387.5 | 395.0 | 7.5 | Blue bed, good values throughout. Low specific gravity. 0.1 ft tuff stringer near base. |
| 395.0 | 397.0 | 2.0 | Marlstone, light brown to brown. |
| 397.0 | 398.5 | 1.5 | Blue bed. |
| 398.5 | 401.5 | 3.0 | Marlstone, light brown to brown laminated. |
| 401.5 | 404.5 | 3.0 | Blue bed. Contains several analcite stringers less than 0.1 ft. |
| 404.5 | 411.0 | 6.5 | Marlstone, light brown to brown with 0.5 ft blue bed in middle portion. |
| 411.0 | 412.0 | 1.0 | Marlstone, light brown to brown with intermittent thin blue beds (20%) analcite stringers (10%). |
| 412.0 | 415.0 | 3.0 | Marlstone, light brown laminations. |
| 415.0 | 416.5 | 1.5 | Blue bed. |
| 416.5 | 421.5 | 5.0 | Marlstone, brown with 1 ft blue bed in bottom portion. |
| 421.5 | 425.0 | 3.5 | Marlstone, tan to light brown laminations. |
| 425.0 | 427.0 | 2.0 | Marlstone, light gray, light brown to brown, fine laminations especially in upper part. |
| 427.0 | 432.5 | 5.5 | Marlstone, light gray to light brown, whitish with rare blue bed at 431.5 ft, 0.3 ft thick. |
| 432.5 | 433.0 | 0.5 | Analcite bed. Good marker. Not assayed. |

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| <u>Feet</u> | <u>To</u> | <u>Feet</u> | |
|-------------|-----------|-------------|--|
| 433.0 | 439.0 | 6.0 | Marlstone, gray to light brown with 2 low-grade blue beds less than 1 ft thick in middle and lower portions. |
| 439.0 | 443.5 | 4.5 | Marlstone, gray to white laminations. |
| 443.5 | 444.5 | 1.0 | Marlstone, light gray to brown, fine laminations. |
| 444.5 | 446.5 | 2.0 | Tuffaceous sandstone (lower wavy bed), no saturation, not assayed. A |
| 446.5 | 447.5 | 1.0 | Marlstone, light gray to brown, fine laminations. |
| 447.5 | 450.0 | 2.5 | Marlstone, light gray to white, laminations. |
| 450.0 | | | TD |

Described by:

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JHBJT/dms
3/25/58