

Received 5/14/58 from Jim Brown.

LITHOLOGIC DESCRIPTION OF
GENERAL PETROLEUM CORPORATION'S OIL SHALE COREHOLE 42-12

Location: 761.16 ft S & 12.48 ft W from NE corner
Section 12-10S-25E, Uintah County, Utah

Drilled : September, 1957

Surface Elev: 6,472.73 ft TD 266.3 ft
Mahogany Marker @ 152.9 ft

<u>From</u>	<u>To</u>	<u>Feet</u>	
0	21.0	Not cored	
21.0	25.5	4.5	Marlstone, gray, massive.
25.5	26.0	0.5	Blue bed, somewhat leaner in top portion.
26.0	38.0	12.0	Rec. 11.3 ft. Marlstone, gray, massive to poorly laminated, several thin analcite stringers in lower part.
38.0	39.0	1.0	Marlstone, gray to dark gray, as above.
39.0	44.0	5.0	Marlstone, light gray to gray, fine laminations, gradational contact at base.
44.0	54.0	10.0	Marlstone, gray to dark gray, fine laminations, contains scattered thin oil saturated analcite partings, rare blue bed 0.15 ft thick at 44.8 ft.
54.0	64.0	10.0	Rec. 9.5 ft. Marlstone, gray to dark gray, with occasional thin analcite partings.
64.0	74.0	10.0	Rec. 9.5 ft. Marlstone, light gray to gray, thin laminations, containing occasional to rare very thin analcite stringers.
74.0	82.0	8.0	Marlstone, as above, appears somewhat richer in lower part, however, very lean in top 1.5 ft.
82.0	84.0	2.0	Sandstone, tuffaceous (upper wavy bed) very tarry locally, mottled, X not assayed.
84.0	94.0	10.0	Marlstone, light gray to dark gray, massive to fine laminations.
94.0	101.0	7.0	Marlstone, as above, somewhat lower values throughout.
101.0	106.5	5.5	Marlstone, gray, fine laminations.
106.5	108.0	1.5	Blue bed, fair to good value throughout, except for poor value in top portion.
108.0	113.0	5.0	Marlstone, light gray to gray, fine laminations.
113.0	113.5	0.5	Blue bed, richer in bottom part, contains rare analcite lentils.

<u>From</u>	<u>To</u>	<u>Feet</u>	
113.5	117.0	3.5	Marlstone, very light gray to dark gray, fine laminations, somewhat varied color banding.
117.0	118.0	1.0	Blue bed, appears somewhat altered (cork-like appearance), low specific gravity.
118.0	128.0	10.0	Marlstone, whitish, very light gray to gray, fine laminations occasional thin dark streaks.
128.0	134.5	6.5	Marlstone, as above, becoming darker downward.
134.5	135.5	1.0	Blue bed, brown to black, richer in middle and bottom portions.
135.5	140.0	4.5	Marlstone, gray to brown, fine laminations, occasional thin oil saturated analcite partings in bottom part.
140.0	142.0	2.0	Marlstone, gray to dark gray, very fine laminations, several thin analcite partings in middle portion.
142.0	144.0	2.0	Marlstone, gray to brown, laminations.
144.0	145.5	1.5	Blue bed, fair value throughout, contains several thin analcite partings.
145.5	153.0	7.5	Marlstone, gray to brown, somewhat massive to fine laminations.
153.0	153.5	0.5	Analcite bed, Manogany Marker, actually 0.4 ft thick.
153.5	159.5	6.0	Marlstone, light gray, light brown to medium dark brown.
159.5	161.0	1.5	Blue bed, good value throughout except top 1/2 ft which is somewhat altered, lower contact gradational.
161.0	164.0	3.0	Marlstone, dark brown to light brown, grades downward to lower values.
164.0	165.0	1.0	Blue bed, brown to dark brown, lower grade, 0.2 ft analcite parting at base.
165.0	171.5	6.5	Blue bed, good values throughout except in occasional leaner streaks.
171.5	172.5	1.0	Blue bed, lower grade than unit above but becoming richer toward base.
172.5	173.5	1.0	Blue bed, good value throughout, contains fractures with unknown crystals on surface at 173.0 ft.
173.5	175.0	1.5	Marlstone, brown to dark brown, fine laminations, lower values toward base.

<u>From</u>	<u>To</u>	<u>Feet</u>	
175.0	176.5	1.5	Blue bed, good values, with reddish brown cast locally.
176.5	178.0	1.5	Marlstone, light brown to brown, predominantly lighter coloring throughout.
178.0	179.5	1.5	Blue bed, fair to good values throughout, lower values in bottom half.
179.5	180.5	1.0	Marlstone, brown with reddish cast, somewhat massive, analcite parting less than 0.1 ft thick at 179.9 ft.
180.5	181.5	1.0	Blue bed, fair values, shows laminations especially in bottom part which is also leaner.
181.5	183.5	2.0	Marlstone, light brown to brown. Fine laminations, very lean locally.
183.5	184.0	0.5	Blue bed with gradational contacts top and bottom.
184.0	187.0	3.0	Marlstone, light brown to brown, fine laminations. Rare darker streaks predominantly lower values.
187.0	188.0	1.0	Blue bed, with 3 thin analcite partings in bottom half.
188.0	192.5	4.5	Marlstone, light brown to brown. Very fine laminations, grades downward to higher values.
192.5	194.0	1.5	Blue bed. Fair value throughout.
194.0	197.5	3.5	Marlstone, brown to dark brown with reddish cast locally. Fair value throughout.
197.5	202.5	-5.0	Marlstone, as last above, overall value is lower especially in bottom part.
202.5	203.0	0.5	Blue bed, brown to dark brown, lower grade, very fine laminations, contains rare analcite stringer.
203.0	209.0	6.0	Marlstone, whitish light gray to light brown, very fine laminations, rare blue bed streak 0.2 ft thick at 208.1 ft.
209.0	209.5	0.5	Analcite bed (good marker) oil saturated. Not assayed.
209.5	211.0	1.5	Marlstone, light brown, occasional very thin dark laminations somewhat massive in top part. Contains 2 analcite stringers less than 0.1 ft in bottom half.
211.0	212.0	1.0	Blue bed in highly altered (cork-like) appearance in top portion and grades downward to lower values.

Lithologic Description of
General Petroleum Corporation's Oil Shale Corehole 42-12

Page 4

<u>From</u>	<u>To</u>	<u>Feet</u>	
212.0	216.0	4.0	Marlstone, light brown to light gray, variable values but generally poor.
216.0	217.0	1.0	Blue bed, low grade. Brown to dark brown.
217.0	221.5	4.5	Marlstone, whitish, light brown to light gray. Very rare dark brown laminations.
221.5	222.0	.5	Blue bed, low grade, variable laminations ranging from light brown to dark brown.
222.0	223.0	1.0	Sandstone, tuffaceous, (lower wavy bed) variable oil saturation of oil shale. Not assayed.
223.0	224.5	1.5	Blue bed very low grade. Highly variable values throughout.
224.5	234.5	10.0	Marlstone, light gray to light brown with occasional dark gray laminations, locally whitish gray with massive appearance.
234.5	244.5	10.0	Marlstone, as above with increase in whitish gray coloring, massive. Contains several oil saturated analcite partings.
244.5	254.5	10.0	Marlstone, as least above with somewhat whitish-blue cast locally, caused by occasional dark laminations.
254.5	261.5	7.0	Marlstone, as above in top portion and grading downward to noticeably dark laminations in bottom 1-foot.
261.5	262.5	1.0	Blue bed, low grade, highly altered in middle portion, gradational contacts in top and bottom.
262.5	265.0	2.5	Marlstone, light gray to light brown with numerous laminations.
265.0	266.3	1.3	Marlstone, light brown to brown contains fair 0.5 ft thick blue bed at top which contains several thin analcite partings.
266.3	TD		

Described by:

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