

Received 5/14/58 from Jim Brown.

LITHOLOGIC DESCRIPTION OF
GENERAL PETROLEUM CORPORATION'S OIL SHALE COREHOLE 58-5
Drilled on the Savage "Brush Creek" Property
Garfield County, Colorado

Location: 1,354.5 feet N. 73° 13' E. of the S $\frac{1}{4}$ corner of
Section 5, T 5-S, R 99 W, Garfield County, Colorado

Drilled: August, 1957

Elevation: (surface) 8,439.3
MM @ 675.5 ft TD 800 ft

<u>From</u>	<u>To</u>	<u>Rec Ft</u>	
392.0	406.0	14.0	Recovered 10 ft. Marlstone, light gray to gray, somewhat laminated, scattered irregular layers, occasional grains of pyrite.
406.0	415.5	9.5	Marlstone, light gray to gray, more laminated than unit above, contains few streaks with irregular banding, rare scattered pyrite grains.
415.5	419.0	3.5	Marlstone, light gray, somewhat laminated to generally massive, unit capped by 0.5 ft thick siltstone, probably tuff, which contains carbonaceous fragments.
419.0	420.0	1.0	Marlstone, greenish gray, laminated, appears to have slightly better values than adjacent units.
420.0	431.0	11.0	Marlstone, light gray to gray, poorly laminated, numerous irregular layers, suggested cross bedding.
431.0	445.0	14.0	Marlstone, as above, somewhat massive with mottled appearance locally, contains some secondary mineralization and rare vugs filled in part with bituminous material.
445.0	455.0	10.0	Marlstone, light gray to gray, somewhat laminated, contains thin analcite stringers.
455.0	459.0	4.0	Marlstone, light gray, with interbeds of silt probably tuffaceous which gives mottled appearance and forms prominent band in lower middle portion.
459.0	464.0	5.0	Marlstone, light gray to dark gray, contains low-grade blue bed in bottom half foot, rare irregular analcite stringers.
464.0	477.0	13.0	Marlstone, light brownish gray to light gray, laminated, contains 0.25 ft thick tuff at 476.7 ft.
477.0	479.0	2.0	Marlstone, light brown to brown, laminated.
479.0	482.0	3.0	Marlstone, light brown to light gray, laminated, poor values.

Illustration No. SBR-2577P

January 13, 1959

<u>From</u>	<u>To</u>	<u>Rec Ft</u>	
482.0	519.0	37.0	Recovered 36.0 ft. Marlstone, light grayish brown to brown, laminated to somewhat massive locally.
519.0	534.5	15.5	Marlstone, light grayish brown to brown, as above, laminations more distinct, contains several thin analcite stringers.
534.5	535.5	1.0	Blue bed, dark brown to black, good values, contains one analcite stringer.
535.5	546.0	10.5	Marlstone, light grayish brown to grayish brown, somewhat variable coloring throughout, laminated, low values.
546.0	547.5	1.5	Blue bed with interbedded lean streaks, overall value fair.
547.5	565.5	18.0	Marlstone, gray to brown, laminated, varying from light to medium coloring, contains rare analcite stringers.
565.5	566.5	1.0	Blue bed, dark brown to black, satiny luster prominent, very good value.
566.5	579.5	13.0	Marlstone, light gray to brown, occasional white streaks, laminated, contains 0.5 ft blue bed at base.
579.5	583.5	4.0	Marlstone, light gray to light brown, with occasional interbeds of dark brown marlstone in lower middle portion.
583.5	607.0	23.5	Marlstone, gray to brown, laminated, contains scattered analcite stringers, some stringers saturated with bituminous material, locally contains irregular layers and mottles.
607.0	616.5	9.5	Marlstone, gray to light brown, as last above but generally lighter in color, locally contains laminae with bluish gray cast.
616.5	624.5	8.0	Recovery 6.0 ft. Marlstone, gray to brown, laminated.
624.5	629.0	4.5	Marlstone, light brown, this unit shows good mottling appearance except locally where finely laminated.
629.0	640.0	11.0	Recovery 10.5 ft. Marlstone, grayish brown to brown, laminations become more pronounced toward base.
640.0	646.0	6.0	Marlstone, light gray to brown, laminated.
646.0	648.0	2.0	Marlstone, as last above, overall coloring somewhat darker.
648.0	649.0	1.0	Blue bed, dark brown to black, laminated, fair value.
649.0	656.0	7.0	Marlstone, gray to brown, with occasional dark brown streaks, laminated.

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656.0	657.0	1.0	Blue bed, laminated, very highly altered giving cork-like appearance.
657.0	667.0	10.0	Marlstone, light gray to light brown, laminated, overall coloring light, very poor value throughout.
667.0	670.5	3.5	Marlstone, brown, grades to dark brown in bottom part, laminated.
670.5	674.0	3.5	Marlstone, light brown to brown, laminated, contains several analcite stringers.
674.0	675.5	1.5	Marlstone, brown, laminated, contains 0.15 ft thick analcite parting near middle.
675.5	676.0	0.5	Analcite bed (mahogany marker), actually 0.4 ft thick, somewhat oil saturated.
676.0	679.0	3.0	Marlstone, brown to dark brown, laminated, becomes richer toward bottom, contains very rare thin analcite stringers.
679.0	685.0	6.0	Marlstone, brown, as last above, overall coloring somewhat lighter.
685.0	687.0	2.0	Marlstone, light brown to brown, laminated, contains several lean streaks.
687.0	691.5	4.5	Marlstone, as above, with increase in lean streaks especially in bottom part, contains several analcite stringers on top portion.
691.5	693.0	1.5	Blue bed, dark brown to black, laminated, occasional laminae show satiny luster, good value.
693.0	696.0	3.0	Marlstone, brown to dark brown, laminated.
696.0	709.5	13.5	Blue beds and marlstone interbedded, brown, dark brown to black; laminated; overall value good, however, somewhat leaner in middle portion.
709.5	715.0	5.5	Marlstone, brown to dark brown, occasional black streak, good values.
715.0	719.5	4.5	Marlstone, brown, laminations more pronounced because of generally lighter coloring.
719.5	720.5	1.0	Blue bed, dark brown to black, gives satiny luster locally, contains several thin analcite stringers in bottom portion.

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<u>From</u>	<u>To</u>	<u>Rec</u>	<u>Ft</u>	
720.5	723.0	2.5		Marlstone, light brown to brown, laminated.
723.0	725.0	2.0		Marlstone, generally medium brown, laminated.
725.0	727.0	2.0		Marlstone, brown to dark brown, occasional very dark laminae, good value.
727.0	730.0	3.0		Marlstone, as last above becoming leaner in bottom part.
730.0	733.0	3.0		Marlstone, light brown to brown, laminated, overall coloring is light.
733.0	734.0	1.0		Marlstone, brown, laminated, appears to have fair value.
734.0	738.0	4.0		Marlstone, very light brown to occasional brown, laminated, overall value very poor.
738.0	739.0	1.0		Marlstone, brown to dark brown, laminated.
739.0	742.0	3.0		Marlstone, light brown to occasional brown, laminated.
742.0	744.0	2.0		Blue bed, dark brown to black, good satiny luster locally, good value.
744.0	748.0	4.0		Marlstone, light brown with occasional very light brown streaks, laminated.
748.0	750.0	2.0		Blue bed, brown to dark brown, low-grade, contains prominent tuff bed (lower wavy bed?) 0.55 thick near top middle portion.
750.0	753.0	3.0		Marlstone, light gray to light brown with occasional whitish streaks, laminated, contains several thin analcite stringers.
753.0	770.0	17.0		Recovery 16 ft. Marlstone, light gray to light brown with pronounced whitish cast, laminated to somewhat massive, contains rare vugs filled with occasional pyrite crystals, core badly broken up locally.
770.0	771.0	1.0		Recovery 0.5 ft. Marlstone, brown, laminated, forms prominent streak between adjacent units.
771.0	784.0	13.0		Marlstone, light brown, laminated, contains three light grayish white tuff beds 0.2 ft thick and bottom tuff is oil saturated; overall unit has very poor values.

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784.0	800.0	16.0	Marlstone, light gray to light brown, highly laminated, contains several thin analcites some of which are oil saturated; unit has low value.

Described by:

J. H. Brown, Jr.
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4-11-58