

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples of Skyline Oil Company's Hydrocarbon-1 Corehole drilled  
258.4 feet S. of N. line and 2466.8 feet E. of W. line, sec. 17,  
T. 5 S., R. 99 W., Garfield County, Colorado

Surface elevation 8318.9 feet

From	To	Description
0	155	Plug samples.
155	162.7	Oil shale, lean to medium, brown to gray, poorly defined bedding. Rare calcite filled fractures. A one-inch tan tuff at 161.0 feet.
162.7	167.1	Siltstone, tuffaceous, calcareous, tan, massive to faintly bedded. Rare pyrite. Contorted bedding in part.
167.1	169.8	Marlstone, grayish brown, poor to well defined bedding. Rare tuff stringers. A one-inch light gray tuff at 169.0 feet.
169.8	175.0	Siltstone, tuffaceous, calcareous, massive to faintly bedded in part. Rare pyrite. Inclined bedding in part.
175.0	175.6	Oil shale, lean to medium, brown, poorly defined bedding.
175.6	188.7	Marlstone, tan to gray brown, well defined bedding. One-inch light tan tuffs at 179.7 feet and 182.1 feet. One-half-inch tuff at 185.3 feet; 0.9-foot tuffaceous siltstone at 182.3 feet. Calcareous siltstone 187 to 188.2 feet with inclusions of pyrite.
188.7	193.1	Siltstone, very tuffaceous, light gray, massive to faintly bedded. Rare pyrite inclined bedding.
193.1	217.2	Siltstone, calcareous, light gray, massive to faintly bedded. Vertical fractures 195.6 to 199.8 and 213.5 to 216.3 feet. Rare pyrite inclusions.
217.2	219.3	Marlstone, light brown, well defined bedding. Rare pyrite, rare tuff stringers, rare bitumen.
219.3	222.3	Oil shale, lean to medium, brown to dark gray, poorly defined bedding.
222.3	226.0	Marlstone, tan, well defined bedding. Rare breccia zones and pyrite.
226.0	230.7	Oil shale, lean to medium, brown, well defined bedding. Rare calcite stringers and crystals.
230.7	243.5	Marlstone, gray, well defined bedding. Vertical fractures 233.8 to 235.0 feet. Core badly broken in lower part.
243.5	247.3	Oil shale, medium, poorly defined bedding. Rare tuff stringers. One-foot marlstone at 245.9 feet.

Samples received January 15, 1960.

L. B. Short

Illustration No. SBR-3414P (sheet 1 of 3 sheets)

Laramie Petroleum Research Center, Laramie, Wyoming      October 20, 1960

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Core samples of Skyline Oil Company's Hydrocarbon-1 Corehole (Con.)

From	To	Description
247.3	272.9	Siltstone, tuffaceous, light gray to tan, massive to faintly bedded. Rare bands of marlstone.
272.9	314.3	Marlstone, tuffaceous in part, gray, poor to well defined bedding, contorted in part. A one-inch tan tuff at 274.7 feet, two-inch gray tuffs at 276.6 and 276.8 feet, three-inch gray tuffs at 284.1, 284.7, and 301.8 feet; 0.9-foot white tuff at 302.7 feet. One-foot white massive tuff at 304.2 feet, 0.5-foot light gray tuff at 305.6 feet, 1.1-foot gray and white tuff at 308.5 feet. Three-inch white tuff at 312.0 feet, 1.8-foot tan contorted tuff at 313.0 feet.
314.3	315.4	Oil shale, medium, dark gray, poorly defined bedding.
315.4	320.0	Oil shale, lean, gray-brown, massive to poorly defined bedding. Rare tuff stringers. Rare calcite.
320.0	323.7	Marlstone, tan, poor to well defined bedding. Rare tuff stringers, rare calcite.
323.7	328.2	Oil shale, lean, brown, poorly defined bedding. Rare tuff stringers, rare calcite.
328.2	335.3	Marlstone, tan to light brown, well defined bedding. Rare tuff stringers.
335.3	339.0	Oil shale, medium, gray to brown, massive to faintly bedded. Rare tuff stringers. Tuffaceous in lower 0.8 feet.
339.0	343.3	Marlstone, tan to light brown, well defined bedding. Rare tuff stringers.
343.3	349.8	Oil shale, lean to medium, brown, well defined bedding. Four-inch tan tuff at 347.6 feet. Rare pyrite.
349.8	351.0	Marlstone, tan to brown, well defined bedding.
351.0	353.6	Oil shale, medium, dark brown, massive to poorly defined bedding. Rare tuff stringers.
353.6	357.3	Marlstone, tan to brown, well defined bedding.
357.3	384.3	Oil shale, lean to medium, brown, poorly defined bedding. Rare tuff stringers. A three-inch tan tuff at 380.5 feet. Rare pyrite.
384.3	409.4	Oil shale, lean to medium, brown, well defined bedding. Rare tuff stringers, rare pyrite inclusions. One-inch gray tuff at 401.8 feet. Rare tuff stringers.

Illustration No. SBR-34114P (sheet 2 of 3 sheets)

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples of Skyline Oil Company's Hydrocarbon-1 Corehole (Con.)

From	To	Description
409.4	410.4	Oil shale, rich, dark brown, poorly defined bedding to massive. Rare tuff stringers, rare bitumen.
410.4	420.3	Oil shale, lean, gray, well defined bedding. Rare tuff stringers, rare pyrite.
420.3	421.7	Oil shale, medium to rich, brown, massive to poorly defined bedding. Rare tuff stringers.
421.7	433.9	Oil shale, lean to medium, gray to brown, massive to poorly defined bedding. Rare tuff stringers, rare pyrite; 0.6-foot rich oil shale 427.8 feet.
433.9	435.0	Oil shale, medium, dark brown, massive to poorly defined bedding. Rare bitumen.
435.0	439.5	Oil shale, lean, gray, well defined bedding. Common pyrite.
439.5	441.2	Oil shale, medium, brown, massive to poorly defined bedding.
441.2	451.5	Oil shale, lean, gray, well defined bedding. Rare tuff stringers. One-inch tan tuff beds at 447.8 and 449.3 feet. Two-inch tan tuff beds at 448.7 feet. Common pyrite.
451.5	452.5	Oil shale, medium, dark brown, massive to poorly defined bedding. Rare tuff stringers.
452.5	456.0	Oil shale, lean, light tan to gray, well defined bedding. Rare pyrite streaks.
456.0	485.0	Oil shale, lean to medium, brown to gray, well defined bedding. Rare pyrite, common tuff stringers. Two-inch tan tuffs at 462.1 feet and 469.0 feet, three-inch tan tuff at 476.5 feet. One-inch oil saturated tuff at 480.0 feet.
485.0		Bottom of core.

Illustration No. SBR-3414P (sheet 3 of 3 sheets)