

LITHOLOGY OF CORE SAMPLES SUBMITTED FOR ASSAY<sup>1/</sup>

Whatley corehole 2, El Paso Natural Gas Company, 254.4 feet W. and 97.8 feet N. of the NE. corner of sec. 34, T. 6 S., R. 100 W., Garfield County, Colo.

Surface Elevation 8350.1 feet Total Depth 605 feet Mahogany Marker 485.5 feet

From	To	Description
0	100	No sample.
100	101	Marlstone, lt gr, well-bedded, compact.
101	101.2	Analcite tuff, wh, med-grained.
101.2	107	Marlstone, lt gr to dirty-wh.
107	110	Marlstone, dk gr and lt br, contorted.
110	114	Marlstone, gr with irregular stringers of dk gr, distorted bedding.
114	116.2	Marlstone, bf, massive.
116.2	117.1	Marlstone, gr, distorted bedding.
117.1	117.6	Tuff, gr.
117.6	119.6	Marlstone, gr and br, distorted bedding, crystal cavities.
119.6	119.8	Tuff, gr.
119.8	120.4	Marlstone, bf.
120.4	120.8	Analcite tuff, bluish-gr, coarse-grained.
120.8	124	Marlstone, lt br.
124	125.6	Tuff, dirty-wh with thin irregular distorted stringers of br marlstone.
125.6	140	Tuff, dirty-wh with some zones of coarse-grained analcitized tuff.
140	146	Marlstone, lt tan to bf, compact, well-bedded.
146	149	Marlstone, dk gr and lt br, distorted bedding, crystal cavities, and few thin bands of lt gr tuff.
149	155.7	Marlstone, tan and bf, well-bedded, compact.
155.7	156	Tuff, wh, with thin irregular stringers of lt br marlstone.
156	159	Marlstone, bf, with numerous thin streaks of tiny pyrite grains.
159	165	Marlstone, dk gr and tan, distorted bedding.
165	167.5	Marlstone, gr and br. (.6 foot recovery.)
167.5	179.4	Marlstone, lt gr and bf, numerous grains of pyrite. Crystal cavities, which are lined or filled with pyrite at approximately 174-174.5 feet.
179.4	181.9	Marlstone, dk br and dk gr.
181.9	182.1	Tuff, br.
182.1	185	Marlstone, bf, well-bedded, with numerous grains of pyrite.
185	195	Marlstone, wh to bf, numerous grains of pyrite, some crystal cavities, some anhydrite crystals approximately 1/8" long.
195	203.9	Marlstone, br, lt br, and tan, well-bedded, compact.

Illustration No. SBR-2267P

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming February 24, 1958

<sup>1/</sup> Descriptions by H. N. Smith.

LITHOLOGY OF CORE SAMPLES SUBMITTED FOR ASSAY

Whatley corchole 2, El Paso Natural Gas Company, 254.4 feet W. and 97.8 feet N. of the NE. corner of sec. 34, T. 6 S., R. 100 W., Garfield County, Colo. (Con.)

Surface Elevation 8360.4 feet Total Depth 605 feet Mahogany Marker 485.5 feet

From	To	Description
375	390	Marlstone, blk and dk gr, well-bedded, compact, uniform. 1/2" bands of bluish-gr analcite tuff occur at 379 and 381.9 feet. 1/4" band of blk pyrobitumen occurs at 385.4 feet.
390	405	Marlstone, blk and dk gr, predominately well-bedded, some massive. 1" bands of gr tuff occur at 403.8 and 404.1 feet.
405	420	Marlstone, blk and dk gr, well-bedded, compact, uniform. 1 and 2" bands of gr or br tuff occur at 407, 407.3, 413.1, 416.6, and 417.5 feet.
420	422.8	Marlstone, dk gr and blk. A 3" band of gr analcite tuff with vertical fracture occurs at 420.2 feet.
422.8	423.3	Tuff, br, wavy bedded, with irregular areas of wh anhydrite.
423.3	435	Marlstone, dk gr and dk br, well-bedded. 1-2" bands of br tuff with bitumen occur at 428.6, 429.2, 430.7, 433.3 feet.
435	437.5	Marlstone, dk gr, well-bedded. 1" band of bf silty marlstone occurs at 436 feet.
437.5	440	Marlstone, br, well-bedded 1" band bluish gr analcite tuff occurs at 438.3 feet.
440	442	Tuff, dirty-wh.
442	442.6	Marlstone, banded br and bf.
442.6	445	Marlstone, gr. Sample badly fragmented with conchoidal fracture.
445	447	No sample.
447	459.3	Marlstone, dk gr, and dk br, well-bedded, compact uniform. 1/4" band of blk pyrobitumen at 453.7.
459.3	460	Mudstone, dk br, soft, massive, earthy.
460	462.4	Marlstone, gr, well-bedded.
462.4	465.4	Marlstone, lt gr and bf, some grains of pyrite. A 2" band of gr marlstone with numerous small analcite grains occurs at 464.3 feet. 462.4 feet is probable top of A-groove.
465.4	473.3	Marlstone, lt gr and lt br.
473.3	475	Marlstone, banded lt gr, bf, and br. A 1" band of gr med-grained analcite tuff occurs at 473.9 feet.
475	476	Marlstone, banded bf and dk gr, with numerous 1/2-1" lenses of gr coarse grained analcite tuff.
476	477	Marlstone, banded dk br and bf. A 2" band of gr and wh coarse grained analcite tuff occurs at 476.3 feet. A 3" band of bf analcite tuff occurs at 476.7 feet.

Illustration No. SBR-2269P

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming February 24, 1958