

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY^{1/}

Core samples from S & P Corporation Corehole 2 drilled in 1965 in
 NW1/4SW1/4NE1/4 sec 1 (1525 ft S/N line and 2165 ft W/E line),
 T 10 S, R 5 E, Utah County, Utah

Surface elevation: 5575 feet
 Sampled section: 40.0-182.8 feet

From	To	Description
40.0	40.6	Siltstone: light brownish gray to medium brownish gray. Fine alternating laminations.
40.6	43.4	Marlstone: buff white. Some speckles and blebs of dark colored mineral.
43.4	45.4	Marlstone: gray green to buff white, common medium blue color below 44.7 feet.
45.4	46.0	Marlstone: light to medium brownish gray with rare dark brownish gray. Irregular fine laminations. Rare disseminated pyrite crystals.
46.0	47.5	Missing.
47.5	48.6	Siltstone: light to medium brownish gray. Laminations displaced to 48.2, fractures filled with gray blue carbonate.
48.6	49.7	Marlstone: light to medium grayish brown with common gray buff. Fine to wide laminations. Rare disseminated pyrite crystals and some dark blue carbonate solution markings.
49.7	51.6	Marlstone: light to medium grayish brown. Fine lamination with some contortions at 50.7, speckled fracture filling of dawsonite (?) and black mineral at 51.0 feet.
51.6	52.6	Marlstone: medium to dark brownish gray. Fine laminations. Rare disseminated pyrite crystals.
52.6	54.5	Siltstone: gray buff with some light brownish gray. Broken with darker gray fracture filling at 53.3 feet.
54.5	56.5	Siltstone: gray buff with some light gray. Fractured at 55.2 feet.
56.5	57.7	Mudstone: medium to dark brownish gray with some medium olive gray, with earthy luster. Fine laminations with some looped structures. Rare disseminated crystals of calcite (?) and pyrite.
57.7	59.5	Missing.
59.5	60.6	Mudstone: medium to dark brownish gray with rare light brownish gray, with earthy luster. Fine laminations with some looped structures. Rare disseminated crystals of calcite?
60.6	61.9	Oil shale: dark with some medium brownish gray and earthy luster. Fine laminations with some looped structures and gray blue fracture filling at 60.9 feet. Rare calcitic stringers and crystals.

^{1/} By W. T. Hill, Jr.

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LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples from S & P Corporation Corehole 2--Continued

From	To	Description
61.9	62.9	Oil shale: medium to dark grayish brown with earthy luster. Fine to wide laminations with some looped structures and gray blue fracture filling at 62.3 feet. Rare disseminated crystals of calcite and pyrite.
62.9	64.1	Oil shale: medium grayish brown and some dark grayish brown with earthy luster. Fine laminations with rare banding. Rare disseminated crystals of pyrite.
64.1	65.7	Marlstone: very light to light gray with rare medium grayish brown. Laminated with some massive at 65.3 feet. Rare disseminated crystals of pyrite.
65.7	66.0	Missing.
66.0	69.0	Siltstone: very light gray with some light gray. Common massive with some laminations.
69.0	72.0	Mudstone: very light to light gray with some light gray green. Massive with some laminations.
72.0	74.2	Mudstone: light gray to light brownish gray. Laminations with grayish blue-green fracture filling throughout.
74.2	75.3	Oil shale: medium to dark grayish brown and earthy luster. Lamination with common gray green to gray blue fracture filling. Rare disseminated crystals and stringers of pyrite.
75.3	76.3	Oil shale: dark grayish brown with some medium grayish brown and earthy luster. Laminations with some looped structures and light gray green fracture filling at 75.6 feet. Rare disseminated crystals of pyrite.
76.3	77.3	Siltstone: light to medium brownish gray. Laminations with carbonate fracture filling throughout length.
77.3	79.0	Siltstone: very light to light gray with some medium brownish gray. Laminated to massive with grayish blue-green fracture filling at 78.7.
79.0	81.0	Mudstone: light to medium gray with some medium brownish gray. Laminations with some bands of brown color.
81.0	83.3	Mudstone: light to medium gray with rare medium brownish gray. Laminations with rare looped structures.
83.3	84.9	Mudstone: very light gray to light brownish gray. Laminations with carbonate and pyrite fracture filling from 84.5 feet.
84.9	85.7	Marlstone: light to medium brownish gray with common medium gray. Laminations with some massive.
85.7	86.0	Missing.
86.0	87.6	Oil shale: dark brownish gray to brownish black. Laminations with some looped structures. Some streaks and disseminated crystals of pyrite.

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LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples from S & P Corporation Corehole 2--Continued

From	To	Description
87.6	88.9	Mudstone: medium brownish gray. Laminations with some banding and rare looped structures. Small, gray blue fracture filling from 88.4 feet.
88.9	90.4	Mudstone: light to medium grayish brown. Laminations with common looped structures. Blue-gray fracture filling from 89.9 feet.
90.4	92.6	Siltstone: buff to light brownish gray. Massive with rare laminations. Blue-gray fracture filling throughout.
92.6	94.8	Mudstone: buff to light brownish gray. Massive with common laminations. Common gray to blue-gray fracture filling.
94.8	96.8	Mudstone: dark olive gray. Massive with rare laminations.
96.8	97.9	Mudstone: medium gray with some dark olive gray. Banded with common laminations.
97.9	98.9	Marlstone: medium gray to light brownish gray. Massive with some laminations. Waxy carbonate fracture filling from 98.1 feet.
98.9	100.4	Marlstone: light brownish gray to gray buff. Massive with some bedding. Medium gray fracture filling from 100.0 feet.
100.4	101.2	Mudstone: very light to medium gray. Laminations with some banding.
101.2	102.4	Mudstone: medium to dark brownish gray with some medium gray. Laminations with some banding and some looped structures. Some fracture filling from 101.4 feet.
102.4	103.9	Mudstone: medium olive gray. Massive.
103.9	105.9	Mudstone: medium olive gray. Massive.
105.9	179.0	Mudstone, Marlstone, siltstone and fine sandstone: medium olive gray to gray white. Massive with rare lamination or banding.
179.0	180.0	Mudstone: light to medium olive gray. Massive with rare banding.
180.0	181.8	Mudstone: light to medium grayish brown. Laminations with some banding to massive.
181.8	182.8	Mudstone: light to medium olive gray. Massive with some fracture filling to 182.3 feet.
182.8	295.0	Mudstone, marlstone, siltstone, and fine sandstone: medium olive gray to gray white. Massive.
Bottom of core.		

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