

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS PROJECT
WELL NO. 7-4, SWSWNE SEC 15 T18N R106W
SWEETWATER COUNTY, WYOMING

July 31, 1968

by

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Depth in feet	Description
50.0-51.8	Shale, oil, grayish-green to yellowish-green with occasional gray bands, abundant crystals of pyrite (?) and/or pyrrhotite (?), hard, dense, faintly laminated.
51.8-56.4	Shale, oil, medium gray, faintly laminated, clayey, easily fractured, rare crystals as above.
56.4-58.5	Shale, oil, medium gray, rare dark gray bands abundant crystals as above, rare pods of tan dolomitic shale occurring as inclusions.
58.5-59.5	Shale, oil, medium to dark gray, dense.
59.5-60.4	Shale, oil, dark gray to sooty black, faintly laminated, trace pyrite crystals.
60.4-60.8	Sandstone, brown to dark gray, fine-grained, porous, heavily oil stained, some tarry residue.
60.8-61.3	Shale, oil, medium to dark gray, rare crystals of pyrite and/or pyrrhotite (?).
61.3-61.7	Ash, tuffaceous sandstone, white to gray, very fine-grained, fractured, distorted by injected dark shale fragments, shale also occurs as very thin bands, pyritic, one zone of heavy oil stain.
61.7-63.3	Shale, oil, medium gray, rare tan dolomitic shale pods, some crystals as above.
63.3-69.6	Shale, oil, medium gray to black, dense, rare crystals as above down to 64.5 feet.
69.6-71.1	Shale, oil, medium gray, some dark gray, some greenish-gray, broadly banded with tannish-gray zones of shale, abundant crystals of pyrite and/or pyrrhotite (?), dolomitic in part, slightly silty, occasional brown to gray dolomitic inclusions, brown sticky petroleum residue at 70.6 feet.
71.1-71.2	Tuff, tan to yellow, chalky, silty, friable.
71.2-72.7	Shale, oil, as in 69.6-71.1 feet.
72.7-75.0	Shale, oil, medium to dark gray, some black, rare crystals of pyrite and several layers of larger pyrite (?) crystals.
75.0-75.2	Sandstone, brown to gray, slightly tuffaceous very fine-grained, oil stained, basal zone of interbedded sandstone and gray shale, slightly distorted.

Depth in feet	Description
75.2-77.2	Shale, oil, dark gray to black, occasional brown to dark brown bands.
77.2-77.3	Sandstone, gray to brown, tuffaceous, very fine to fine-grained, slightly distorted bedding, slight oil stain.
77.3-78.2	Shale, oil, medium to dark gray, zone of pyrite (?) crystals at 77.6 feet.
78.2-78.5	Shale, oil, as above and broadly banded with cream to tan dolomitic shale, dense, silty.
78.5-79.2	Shale, oil, as in 77.3-78.2 feet and several dark brown bands.
79.2-79.6	Sandstone, tan, pink, buff, very fine-grained some porosity, slight oil stain, M-bed.
79.6-79.9	Shale, oil, alternating brown and black bands.
79.9-81.9	Shale, oil, tan, medium gray, grayish-brown, broadly banded, silty in part, some mudstone, a white to gray limy siltstone at 81.7 feet.
81.9-82.6	Shale, oil, greenish-gray, tan to brown, broadly banded, some large pyrite (?) crystals or flakes.
82.6-83.3	Shale, oil, medium to dark gray with occasional layers and inclusions of tan dolomitic shale as pods.
83.3-83.4	Ash, siltstone, very fine-grained sandstone, gray with rare pink to buff zones, interbedded with greenish-gray shale, minor fracturing.
83.7-84.6	Shale, oil, medium to dark gray, some greenish-gray.
84.0-84.7	Ash, siltstone, minor sandstone, white to gray with interbedded dark gray shale layers, chalky in part, fractured, distorted, pyritic, oil stained.
84.7-90.0	Shale and/or mudstone, tan, grayish-green, light green, medium gray, broadly banded, slightly dolomitic in part.