

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-4

SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

September 15, 1969

by

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Footage	Description
60.0-60.6	Oil shale, medium to dark gray, firm, common crystal faces.
60.6-60.7	Ash, siltstone, gray to buff, sandy, slight porosity.
60.7-62.2	Oil shale, dark gray to black, rare crystals, firm to medium soft.
62.2-64.3	Oil shale, medium gray, soft horizontally, diagonal natural fracture at 63.5'.
64.3-65.9	Oil shale, medium to dark gray, abundant crystals, natural diagonal fracture at 64.8'.
65.9-67.8	Oil shale, dark gray to sooty black, badly fractured, soft, separates easily, heat affected, natural fracture at 67.5'.
67.8-69.5	Oil shale, brown, brownish-gray, medium gray, some dark gray, breaks easily, heat affected.
69.5-71.2	Oil shale, dark gray to black, fairly soft, heat affected.
71.2-74.4	Missing.
74.4-74.9	Oil shale, black and gray, very soft, crumbly, almost completely burned.
74.9-75.6	Missing--assumed burned zone and/or cavity.
75.6-78.8	Oil shale, dark gray to black, some medium gray, badly fractured, breaks easily, burned in part.
78.8-79.0	Ash, sandstone, very fine-grained, buff to gray, salt and pepper, occasional vertical fractures containing a light gray shale, slight porosity.
79.0-80.9	Oil shale, medium to dark gray with some beds of tan dolomitic shale or algal material, easily separated, affected by heat, soft, some signs of burning.
80.9-81.3	Sandstone, purple, pink, buff, very fine-grained, slight porosity. "M-BED."
81.3-81.8	Oil shale, dark gray to sooty black, badly fractured, soft at parting planes, diagonal natural fracture 81.7'-81.8'.
81.8-82.2	Oil shale, medium to dark gray, very soft, thoroughly broken, affected by heat.
82.2-82.8	Missing.
82.8-85.0	Oil shale, medium brownish-tan to greenish gray, veins of pyrite and many single crystals, firm, hard.
85.0-87.2	Oil shale, medium to dark gray with stringers of brown to dark brown from 85.3' to 85.5', heat affected, breaks easily along horizontal bedding.
87.2-87.3	Ash, siltstone, white to gray, laced with black shale, crumbly, chalky, fractured.
87.3-89.2	Oil shale, medium gray, greenish-gray, broadly banded with tan, very lean oil shale or mudstone, breaks easily.
89.2-89.8	Oil shale or mudstone, medium gray, clayey, soft, breaks easily horizontally.
89.8-90.0	Missing.