

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-13
SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

September 24, 1969

by

George F. (Pete) Dana

Footage	Description
60.0-61.2	Oil shale, medium gray, firm, numerous small crystal faces, unaltered.
61.2-62.2	Oil shale, dark gray to black, firm, unaltered.
62.2-63.6	Oil shale as above, some brown, highly fractured, soft, easily parted horizontally, appears heat affected.
63.6-63.8	Ash, siltstone, arenaceous, buff to gray, some dark gray shale partings, slight porosity.
63.8-64.9	Oil shale, medium to dark gray, minor crystals, soft, easily parted.
64.9-65.0	Ash or siltstone stringer, gray, thinly bedded with gray shale layers, sandy in part.
65.0-65.3	Oil shale, dark gray to black, fractured but firm.
65.3-66.2	Oil shale, medium gray, numerous crystals, easily parted, firm vertically.
66.2-67.4	Oil shale, medium to dark gray, with some stringers of black, resinous, crystalline oil shale, parts easily, heat affected.
67.4-67.9	Oil shale, dark gray, some crystals, hard, firm, unaffected by heat.
67.9-70.0	Oil shale, medium gray to black, easily parted horizontally, structural strength weakened by heat.
70.0-71.1	Oil shale, dark chocolate brown, altered, easily parted.
71.1-72.5	Oil shale, dark gray to black, soft, easily parted, thin, tan dolomitic shale zone 72.3'.
72.5-77.9	Oil shale, medium to dark gray, some greenish-gray, with layers of tan dolomitic shale at 73.3', 73.9', 74.8', abundant crystals, hard, firm, unaffected, some purple dolomite inclusions.
77.9-78.2	Oil shale, dark gray to black, soft, altered.
78.2-78.3	Siltstone or fine-grained sandstone, dark gray, porous, some dead oil stain.
78.3-79.9	Oil shale, medium to dark gray, altered, parts easily, soft.
79.9-80.0	Oil shale, tan, lean, dolomitic, hard, possibly algal or an inclusion.
80.0-81.3	Oil shale, black, altered, soft, banded with tan dolomitic shale.
81.3-81.6	Sandstone, buff-tan-pink-maroon, fine-grained, slightly porous, trace oil stain. "M-BED".
81.6-82.2	Oil shale, sooty black, medium soft, slightly altered.
82.2-83.9	Oil shale or mudstone, light to medium gray, highly fractured, soft, clayey.
83.9-84.1	Oil shale, brownish-gray, firm, hard, not affected by heat.
84.1-84.6	Oil shale, light gray to medium brownish-gray, very soft horizontally.
84.6-85.6	Oil shale, greenish-gray, firm, hard, occasional single crystals and stringers of crystals.
85.6-86.2	Oil shale, dark gray to black, some chocolate brown, medium soft when parted, occasional crystals.

Footage	Description
86.2-86.7	Oil shale to claystone, light to medium gray, very soft, occasional pink to purple lime or dolomite inclusions.
86.7-87.8	Oil shale, medium to dark gray, soft, altered, horizontally soft.
87.8-88.0	Ash, siltstone, white to gray, sandy in part, chalky, laced with black shale partings, trace red iron particles.
88.0-89.5	Mudstone, claystone, lean oil shale, light to medium greenish-gray, very soft.