

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-16
SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

by
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Footage	Description
60.0-62.0	Oil shale, gray, some greenish-gray, abundant crystal faces, rare brown dolomite pods, hard, firm.
62.0-64.9	Oil shale, dark gray to black, rare crystals faintly laminated below 62.7', breaks in discs easily.
64.9-65.2	Ash, tuff, sandstone, white, gray, yellow, very fine-grained, silty in part, hairline fractures filled with gray siltstone or dark shale, permeable.
65.2-65.5	Oil shale as in 62.0-64.9'.
65.5-66.7	Oil shale, gray to dark gray, firm, abundant scattered crystals, common inclusions, pods, layers of tan or brown dolomite, hard.
66.7-68.0	Oil shale, dark gray to sooty black, some brownish-black, distinct diagonal fracturing.
68.0-71.7	Missing, possibly burned.
71.7-72.5	Oil shale, dark gray, black, very soft, breaks easily, diagonal fractures present, slightly burned along fracture faces.
72.5-72.7	Oil shale, dark gray, brownish-gray, rare crystals, firm.
72.7-72.9	Oil shale, light brown, brown, abundant large crystals (pyrrhotite?) (pyrite?), firm.
72.9-73.9	Oil shale as in 72.5-72.7'.
73.9-75.5	Oil shale, gray, dark gray, rare black, banded and laminated with brown, some tan, common crystals, abundant diagonal fractures, bed or inclusion of dolomite, tan to purple, dense, hard, at 74.6'.
75.5-76.0	Missing, not burned.
76.0-77.6	Oil shale, dark gray to black, faintly laminated in part, soft horizontally, breaks easily, possible heat effect.
77.6-77.8	Dolomite, gray, reddish-brown, finely crystalline, as injection or discontinuous bedding, oil-stained.
77.8-79.6	Oil shale, black, some dark gray, banded with brown and brownish-gray, firm.
79.6-80.2	Oil shale, gray to dark gray, breaks easily horizontally.
80.2-80.3	Dolomite, buff, tan, silty, hard, rare oil shale laminae.
80.3-82.1	Oil shale, gray to black, interbedded with tan dolomitic zones.
82.1-82.4	Tuff, sandstone, brown, pink, maroonish-brown, some brown shale inclusions, slight permeability. <u>M-bed.</u>
82.4-82.9	Oil shale, dark gray to black, with laminae of tan to brown.
82.9-85.1	Oil shale, gray to dark gray, tan to brown, broadly banded, firm, dolomite inclusion, brown, hard at 84.8
85.1-85.5	Oil shale, brownish-gray, greenish-gray, abundant crystals in veinlets and individuals, firm.