LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-17 SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

by George F. (Pete) Dana

Footage	Description
60.0-60.7	Oil shale, gray to dark gray, rare crystals, firm.
60.7-62.5	Oil shale, dark gray to black, faintly laminated.
62.5-62.9	Oil shale, gray, some dark gray, large inclusion of tuff, brown to
02.5-02.9	dark brown, oil stained at 62.7-62.9'.
62.9-63.9	Oil shale, dark gray to black, some small scattered crystals.
63.9-64.0	Interbedded dolomite, brown and gray dense, microcrystalline and oil shale, tan, dark brown, abundant pyrite in veinlets.
64.0-64.3	Ash, siltstone, white to gray, very fine-grained, some hairline fractures, very permeable.
64.3-65.7	Oil shale, gray to dark gray, brown to dark brown, some tan, abundant crystals, some clusters of pyrite crystals, rare pods dolomite, brownish-purple.
65.7-66.6	Oil shale, gray to dark gray, some brownish-gray, abundant injected tuff, brown dolomitized, very fine-grained, oil saturated below 66.1'.
66.6-67.5	Oil shale, dark gray to black, scattered crystals down to 67.1', faintly laminated.
67.5-71.4	Oil shale, dark gray to sooty black, breaks into discs horizontally, occasional rare scattered crystals, faintly laminated.
71.4-76.0	Oil shale, gray, greenish-gray, some dark gray, some brownish-gray, rare tan, abundant crystals, some of which are comparatively large, at 73.7-73.8' large inclusion dolomite, purple, brown, semi-lithographic, random fracture, haloed with tan silty dolomite, dark waxy residue in fractures. At 74.4' dolomite inclusion, dark purplish-brown, hard, dense
76.0-77.3	Oil shale, dark gray, black, some dark brownish-gray, layer of dolomite, brown, microcrystalline at 76.5'.
77.3-77.5	Tuff or injected dolomite, gray, dark brown, purple, some interbeds of dark brown and dark gray oil shale, tuffs are oil stained.
77.5-77.9	Oil shale, interbedded dark brownish-gray and tan to light brown layers.
77.9-78.0	Injected tuff and dolomite as in 77.3-77.5'.
78.0-79.5	Oil shale, dark grayish-brown to black with some layers of brown dolomitized oil shale.
79.5-79.6	Tuff, dolomite, buff, gray, salt and pepper, brown, finely crystalline. some hairline fractures, oil stained in part, porous.
79.6-80.4	Oil shale, gray, dark gray, faintly laminated, two zones of dolomite, tan, silty, hard at 80.2 and 80.4'.
80.4-81.6	Oil shale, dark gray to sooty black, some thin laminae of brown.
81.6-82.0	Tuff, sandstone, pink, maroon, brown, hairline fractures containing lighter silty shale, some permeability, slight oil stain. M-bed.
82.0-82.5	Oil shale as in 80.4-81.6'.
82.5-82.9	Oil shale, brown, grayish-brown, faintly laminated, several layers injected tuff, buff to brown.
82.9-83.6	Oil shale or mudstone (?) grayish-brown, gray.

Oil shale, dark brown, dark brownish-gray, some brown, faintly

Footage

85.5-86.0

laminated.

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Description