LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-6 SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

by George F. (Pete) Dana

Footage	Description
60.0-60.6	Oil shale, medium to dark gray, firm, hard.
60.6-62.6	Oil shale, dark gray to black, broken, very slight heat affect, sand-
00.0-02.0	stone stringer at 60.7 ft, buff, very fine-grained, probably injection
	feature.
62.6-62.7	Ash, sandstone, buff, gray, slightly friable, some porosity.
62.7-63.5	Oil shale, dark brownish-gray to black, parts easily horizontally,
	some heat affect.
63.5-63.8	Oil shale, gray to dark gray, fairly soft, highly fractured.
63.8-63.9	Oil shale as above, finely interbedded with gray siltstone.
63.9-64.1	Sandstone, buff-maroon-red, very fine to fine-grained, some gray shale
	partings.
64.1-65.2	Oil shale, gray to dark gray, some greenish-gray, firm, brown dolomite
VIII 0212	inclusion at 64.7 ft.
65.2-65.5	Oil shale, gray, soft, highly fractured, heat affected.
65.5-67.2	Oil shale, gray to black, medium soft to firm, parts easily horizontal
67.2-67.7	Oil shale as above, highly fractured, softer, more heat affect.
	Oil shale, dark gray to black, firm, diagonal fractures present below
67.7-68.9	68.5 ft.
49 0_71 O	Oil shale, gray, greenish-gray, thin tan layers, abundant crystals,
68.9-71.9	evident diagonal fractures, firm.
71 0 72 0	Oil shale, dark gray to black, blocky fracturing, parts easily hori-
71.9-73.0	zontally, heat affected.
73.0-73.2	Oil shale as above, rubblized, soft, strongly heat affected.
73.2-76.5	Oil shale, gray to black, firm, slight heat affect.
76.5-76.6	Ash, sandstone, gray, buff, fine-grained, porous, small flecks dead
70.3-70.0	oil stain.
76.6-77.0	Oil shale as in 73.2-76.5 ft.
77.0-77.3	Missing.
77.3-78.6	Oil shale, black, soft, sooty, strongly burned, with one firm zone at
77.5-70.0	77.9-78.1 ft.
78.6-78.8	Ash, tuff, sandstone, gray, very fine to fine-grained, trace oil stain
	slight porosity.
78.8-79.5	Oil shale, greenish-gray and black, thinly varved with tan, occasional
	brown dolomite inclusion.
79.5-80.6	Missing.
80.6-82.1	Oil shale, black, heat affect.
	Oil shale, medium gray with bands of tan, hard, lean oil shale,
82.1-83.8	dolomitic.
83.8-83.9	Ash, tuff, white to gray, soft in part, many gray and black shale
00 0 01 1	partings, dead oil stain.
83.9-84.4	Oil shale as in 82.1-83.8 ft.
84.4-84.7	Oil shale, gray, greenish-gray, hard, firm, abundant crystals.
84.7-85.0	Oil shale, dark brown to gray, tan bands, firm, no crystals.
85.0-87.5	Oil shale, dark gray to black, soft, strongly heated, parts easily
03.0-07.5	horizontally, natural fracture 85.0-85.6 ft.

87.5-87.6	Ash, tuff, white, gray, salt and pepper, soft, chalky, crumbly, fine-
87.6-92.0	grained, tar residue. Oil shale (?) or mudstone, light to medium gray, tan, breaks casily
92.0-93.0	horizontally. Oil shale, gray to dark gray with bands tan dolomitic shale at 92.0,
93.0-94.9	92.1, and 92.4 ft. Oil shale, black and tan interbedded, firm, parts horizontally,

probably not from heat.

Footage

94.9-95.0

Description

Dolomite, brown, sucrosic, probably large inclusion, dead oil flecks.