

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-9
 SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

by
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Footage	Description
60.0-60.6	Oil shale, medium to dark gray, numerous scattered crystals, firm, hard
60.6-61.2	Oil shale, as above, no crystals.
61.2-63.2	Oil shale, dark gray to black, firm.
63.2-63.3	Ash, sandstone, gray, buff, slight porosity, soft, partly chalky.
63.3-64.2	Oil shale as in 61.2-63.2 ft.
64.2-64.5	Sandstone or tuff, gray to buff, black shale partings, porous.
64.5-65.0	Oil shale, dark gray, slight heat affect.
65.0-69.2	Oil shale, medium gray to dark gray, some black, separates easily horizontally, heat affected, soft in spots.
69.2-69.7	Oil shale, black, firm to medium soft, coked, burned.
69.7-72.3	Oil shale, black, soft, rubblized, strongly burned.
72.3-73.1	Missing.
73.1-73.9	Oil shale, black, rubblized, soft, strongly burned.
73.9-74.1	Oil shale, black, burned, highly fractured.
74.1-75.4	Oil shale, medium to dark gray, firm, occasional crystal faces.
75.4-75.5	Ash bed, brown, very fine-grained, probably injection.
75.5-76.9	Oil shale, medium to dark gray, parts easily.
76.9-77.0	Ash, siltstone, buff, brownish-gray, fine-grained, firm.
77.0-77.9	Oil shale, dark gray to black, parts easily, some heat affect.
77.9-79.1	Oil shale, gray, separates easily horizontally.
79.1-79.3	Ash, sandstone, buff to brown, fine-grained, with fractures containing gray crystalline dolomite, some oil stain.
79.3-80.1	Oil shale as in 77.9-79.1 ft.
80.1-80.4	Oil shale, dark gray, breaks easily, burned.
80.4-81.1	Oil shale, dark gray to black, burned.
81.1-81.4	Sandstone, pink, maroon, fine-grained, not heat affected. <u>M-Bed</u> , base shows contorted bedding.
81.4-81.5	Oil shale, black with tan to brown varves of siltstone or dolomitic oil shale.
81.5-81.6	Ash, sandstone, brown, very fine-grained, trace oil stain.
81.6-81.8	Oil shale, dark gray to black, slight heat affect.
81.8-83.4	Oil shale, gray, some dark gray with occasional band of tan shale, easily broken horizontally, strong heat affect but not retorted.
83.4-84.8	Oil shale, gray to greenish-gray, bands of dark gray to black in upper 0.4 ft, few scattered crystals, firm at 84.0-84.3 ft.
84.8-85.3	Oil shale, dark gray, dark brown, easily parted, highly affected by heat.
85.3-85.4	Ash, siltstone, gray grading downward to pink and maroon, firm.
85.4-87.1	Oil shale, gray to dark gray, soft, clayey, breaks easily, heat affected.
87.1-87.2	Ash, siltstone, some sandstone, very fine-grained, white, gray, red iron stained at base, soft in part, chalky, some black shale partings.
87.2-93.4	(Loss in 89.7-90.0 ft) Oil shale (?) or mudstone, tan to gray, greenish gray, olive drab, highly broken.
93.4-94.4	Oil shale, gray to dark gray, brownish-gray, some medium brown, occasional tan streak, breaks easily horizontally.