LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-10 SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

by George F. (Pete) Dana

Footage

Description

rootage	Bescription
60.0-60.5	Oil shale, dark gray, badly broken and fractured.
60.5-60.6	Ash, sandstone, buff to gray, very fine-grained, black shale partings.
60.6-61.8	Oil shale, gray to dark gray, easily parted horizontally, soft in part
00.0-01.0	platy fracturing.
61.8-61.9	Sandstone, white, yellow, buff, very fine-grained, slightly friable,
	slight porosity.
61.9-62.1	Sandstone, buff to yellow, fine-grained, natural fractures and pieces
01.7-04.1	of sandstone are coated with pyrite film.
62.1-62.5	Oil shale, dark gray and dark brown to black, hard.
62.5-64.3	Oil shale, gray, greenish-gray, dark gray, very hard, blocky fracturing
	abundant crystal faces, occasional purple to tan dolomite inclusion.
64.3-70.1	Oil shale, dark gray to black, platy fracturing, parts easily horizon-
	tally, diagonal natural fracture 64.6-64.8 ft, heat affected (?), not
70 1 7/ 0	burned. Some dark brown zones below 68.6 ft.
70.1-74.0	Oil shale, dark gray to black, greenish-gray, brownish-gray, mildly
	banded, zones of individual crystals and veinlets of crystals, purple
	tan dolomite inclusions of various sizes at 71.1, 71.3, 71.4, 72.0,
7/ 0 7/ 1	72.5, 73.2, 73.4, and 73.7 ft.
74.0-74.1	Oil shale, dark gray, block fracturing, hard.
74.1-74.2	Dolomite, greenish-brown, microcrystalline, hard, dense.
74.2-74.8	Oil shale as in 74.0-74.1, platy fracturing, parts easily horizontally
74.8-75.0	Ash, tuff (?), dolomitic, gray to maroon, sucrosic texture, oil stained
75.0-75. 3	Oil shale, gray to black, tan to brown, interbedded, veinlet of gray
mr	dolomite at 75.1 ft.
75.3-76.5	Oil shale, dark gray to black, some dark brown, hard, blocky fracturin
76.5-76.6	Algal zone, brown, tan, fractured.
76.6-77.1	Oil shale, light brown, gray, crumbly, soft, parts easily horizontally
77 1 70 0	thin brown sandstone zone, fine-grained at 77.0 ft.
77.1-79.2	Oil shale, gray to black, parts easily horizontally, tan dolomitic
70 0 70 4	shale zones at 77.8 and 78.0 ft.
79.2-79.6	Sandstone, pink, maroon, brown, very fine-grained, fractures filled
70 / 00 0	with similar material except lighter in color, slight porosity. M Bed.
79.6-80.0	Oil shale, black, sooty, highly heat affected but not burned, easily
00 0 00 0	fractured.
80.0-80.2	Missing core.
80.2-80.4	Oil shale, gray, badly broken, soft.
80.4-82.2	Oil shale, gray to tan, some dark gray bands, hard, dense, lean.
82.2-83.0	Oil shale, gray, tan to dark brown, some greenish-gray, common crystal
00 0 00 0	faces, hard but several fractures.
83.0-83.7	Oil shale, dark gray, brown to dark brown, varved in part, strong heat
00 7 00 0	affect, slight to no actual burn.
83.7-83.9	Oil shale (?) or dolomite, gray, brownish-gray, very hard.
83.9-84.2	Oil shale, black, burned, rubblized.

Footage

87.5-91.0

Missing.

Description