## LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-7 SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

## George F. (Pete) Dana

Footage	Description
60.0-60.4	Oil shale, medium to dark gray, firm.
60.4-62.3	Oil shale, dark gray to black, faintly laminated, platy fracturing,
	parts easily horizontally.
62.3-62.4	Siltstone, gray to buff, firm, dense, black shale partings.
62.4-63.6	Oil shale as in 60.4-62.3 ft, diagonal natural fracture 63.4 ft.
63.6-63.8	Ash, siltstone, sandstone, very fine-grained, yellow, gray, brown,
	black shale partings, slight porosity.
63.8-64.3	Oil shale as in 60.4-62.3 ft.
64.3-65.0	Oil shale, gray, greenish-gray, abundant crystal faces, very hard, firm
65.0-67.2	Oil shale, dark gray, rare crystals, blocky fracturing, hard.
67.2-70.8	Oil shale, dark gray to black, platy fracturing, parts fairly easily,
	faintly laminated in part.
70.8-70.9	Siltstone, sandstone, buff, yellowish-brown, very fine-grained, mostly
	friable, some black shale partings, minute porosity.
70.9-76.1	Oil shale, gray to black, some brownish-gray and light brown, several
	zones of crystals as individuals and some stringers of crystals,
	diagonal natural fractures 73.2-73.5 ft and vertical fracture at 74.0-
	74.3 ft. At 72.3 ft, thin layer shale, soft white to gray, bentonitic.
	oil shale parts easily from 75.2-76.1 ft. Inclusions of brown, dolomit
	shale as pods and layers from 74.5-75.0 ft.
76.1-76.3	Ash, sandstone, gray to buff, salt and pepper, very fine-grained,
	associated with dolomite, gray, microcrystalline, much dead oil stain,
	porosity, thin inter-beds of black shale at base.
76.3-76.6	Oil shale, black, distinctly laminated with brown.
76.6-78.7	Oil shale, dark gray to black, occasional brown layer, parts easily
	horizontally.
78.7-79.1	Missing coreprobably not burned.
79.1-80.9	Oil shale, dark gray, some brown to tan streaks of dolomitic oil shale
	hard, vertical natural fracture 79.1-79.3 ft.containing waxy-oil residu
80.9-81.3	Sandstone, brown, maroon, buff, pink, fine-grained, hard. M-Bed.
81.3-82.2	Oil shale, gray to black, some brown, laminated in part, badly
	fractured in top 0.3 ft.
82.2-84.0	Oil shale, gray to dark gray, tan, grayish-brown, brown, broadly banded
	breaks fairly easily horizontally, injection gray siltstone at 83.7 ft
84.0-84.6	Oil shale, greenish-gray, brownish-gray, hard, veinlets of crystals.
84.6-85.2	Shale, dolomitic (oil shale?), tan to brown with varves black shale,
	as layers and inclusions.
85.2-85.3	Ash, siltstone, some dolomite, gray to brownish gray, dead oil stain,
	waxy residue in fractures
85.3-87.2	Oil shale, dark gray to black, parts easily horizontally, clayey,
	fairly soft, loss of core 86.5-86.6 ft.
87.2-87.3	Ash, sandstone, white to gray, soft, chalky, bentonitic, black shale
	partings, red fe stains.
87.3-90.0	Oil shale or mudstone, gray, greenish-gray, tan, soft, broadly banded.