

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS SITE 4 WELL PBC-14
SWSWNE SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

by
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| Footage | Description |
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| 60.0-62.9 | Oil shale, dark gray to black, platy fracturing, badly broken, parts easily horizontally. |
| 62.9-63.0 | Tuff, dolomitic, gray and sandy, brown, contains abundant pyrite, oil stained. |
| 63.0-63.1 | Ash, siltstone, white to buff, upper half sandy and oil saturated, some fractures filled with gray siltstone. |
| 63.1-64.8 | Oil shale, gray to some dark gray, greenish-gray, abundant crystal faces, purple to brown dolomite inclusions at 63.7, 64.1, 64.3, and 64.6 ft. |
| 64.8-69.6 | Oil shale, dark gray to black, badly broken, crumbly in part, numerous natural diagonal fractures. |
| 69.6-69.8 | Oil shale, black, varved with brown to dark brown, firmer. |
| 69.8-70.2 | Oil shale, dark gray to black, parts easily horizontally. |
| 70.2-75.1 | Oil shale, gray to black, some brownish-gray, common to abundant crystal algal (?) or tan to brown dolomitic shale zones and inclusions at 70.7, 72.0, 73.1, 73.5, and 74.6 ft. Oil shale has natural diagonal fracture at 70.2 -70.9, 71.7 -71.9, and 73.8-74.4 ft. |
| 75.1-75.5 | Missing. |
| 75.5-75.7 | Oil shale, black, soft, badly broken, burned. |
| 75.7-75.8 | Ash, tuff, buff, sandy, porous, burned but not clinkered. |
| 75.8-76.5 | Oil shale, as in 75.5-75.7 ft, some sooty black, soft, flaky from 76.3-76.5 ft. |
| 76.5-79.9 | Missing core, assumed burned. |
| 79.9-80.2 | Oil shale, black, gray, sooty, badly broken, strongly burned, soft, clayey in part. |
| 80.2-80.5 | Sandstone, dark gray, dark brown, black, badly burned, light in weight, not clinkered, <u>M-Bed</u> . |
| 80.5-82.0 | Missing core. |
| 82.0-82.2 | Oil shale, black, sooty, soft, badly burned. |
| 82.2-82.5 | Oil shale as above, slightly burned. |
| 82.5-83.2 | Oil shale, gray, some dark gray, some greenish-gray, badly broken. |
| 83.2-84.6 | Oil shale, gray, some dark gray, greenish-gray, abundant crystals in veinlets and as scattered single crystals. Injection of gray silty dolomite, very pyritic at 83.6 ft. Tan dolomitic shale zone or algal material 83.2-83.3 ft. |
| 84.6-84.9 | Oil shale, dark gray to black, liberally laminated with brown to dark brown, dolomitic oil shale. |
| 84.9-85.8 | Oil shale, dark gray to black, platy fracturing, parts easily horizontally. |
| 85.8-86.5 | Oil shale (?) or mudstone, gray to greenish-gray, clayey, breaks easily with single vein of pyrite at 86.1 ft, probably fracture filling. |
| 86.5-86.6 | Ash, tuff, siltstone, white, gray, some black, usually as fracture filling, sandy in part, chalky, permeable, some iron stain. |
| 86.6-90.5 | Oil shale (?) or mudstone, light to medium gray, tan to light brown, some greenish-gray, broadly banded, soft when wet, clayey. |