

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS WELL 6-2
 SENENW SEC 15 T 18 N R 106 W SWEETWATER COUNTY, WYOMING

by
 George F. (Pete) Dana

Footage	Description
90.0- 91.0	Oil shale, gray, greenish-gray, firm, blocky fracturing, abundant crystal faces.
91.0- 91.5	Oil shale, dark gray to black, faintly laminated.
91.5- 94.1	Oil shale as in 90.0-91.0 ft with tan algal zones at 91.8 and 93.8 ft. Pyrite as crystals and veinlets below 93.4 ft.
94.1- 99.7	Siltstone to very fine-grained sandstone, light gray to gray, tan, horizontal discontinuous layers of blk shale in very fine sand, some greenish-gray zones.
99.7-100.6	Siltstone and sandstone, gray, interbedded with light gray to gray sha
100.6-101.9	Shale (may be oil shale) gray to greenish-gray, scattered crystals.
101.9-104.1	Oil shale, gray, brownish-gray, greenish-gray, small scattered crystal faces.
104.1-109.0	Oil shale, dark gray to black, platy fracturing, medium gray zone 105.3-106.0 ft.
109.0-111.2	Oil shale, gray, greenish-gray, light green, abundant scattered crystals, firm, streak gray siltstone from 109.7-110.1 ft.
111.2-111.7	Missing.
111.7-112.4	Oil shale as above.
112.4-115.5	Oil shale, gray to dark gray, platy fracturing, water encountered at 113.0 ft.
115.5-116.5	Missing.
116.5-116.8	Oil shale as in 112.4-115.5 ft.
116.8-119.5	Oil shale, gray to dark gray, greenish-gray, common to abundant crystals
119.5-121.0	Oil shale, dark gray to black, faintly laminated, brown dolomite inclusion at 119.7 ft.
121.0-121.2	Missing.
121.2-122.0	Oil shale, gray to dark gray, some light brownish-gray, last 0.2 ft contains some crystal faces.
122.0-122.2	Ash, sandstone, very fine to fine-grained, gray, buff, black shale laminations, some permeability.
122.2-122.9	Oil shale as in 121.2-122.0 ft, no crystals.
122.9-123.5	Oil shale, greenish-gray, common crystals, some gray below 123.1 ft.
123.5-126.3	Oil shale, dark gray to black, rare crystals, blocky fracturing.
126.3-126.5	Missing.
126.5-129.2	Oil shale as in 123.5-126.3 ft except badly broken in part. Last 0.05 ft is siltstone, light gray, salt and pepper, gray shale partings
129.2-129.8	Missing.
129.8-135.1	Oil shale, gray to black, greenish-gray, brownish-gray, abundant crystals, hard, veinlet of dolomite, gray, pyritic at 131.7 ft. Inclusions of tan to purple dolomite, hard at 132.6, 133.0, 133.1, and 134.
135.1-135.3	Ash, tuff, gray, brown, maroon, very fine-grained, porous, interbedded with dolomite, gray microcrystalline, some oil stain.

Footage	Description
135.3-136.6	Oil shale, dark gray to black, platy fracturing.
136.6-137.0	Missing.
137.0-137.6	Oil shale, gray to dark gray, badly broken.
137.6-137.7	Dolomite, gray, brown, finely crystalline, fractures containing shale, brown, sandy. Red iron stain and some dead oil stain.
137.7-138.3	Oil shale, gray to dark gray, rare crystal faces.
138.3-138.5	Dolomite or shale, dolomitic, tan, hard, dense with some beds or laminations of shale, gray.
138.5-140.0	Oil shale, dark gray to black, some dark brownish-gray, badly broken.
140.0-140.3	Sandstone, pink, maroon, buff, very fine-grained, with vertical fractures containing light pink siltstone, very slightly calcareous, <u>M-bed</u> .
140.3-141.0	Oil shale, black with some laminae of brownish-gray.
141.0-141.7	Oil shale, gray, some brown, badly broken.
141.7-143.1	Oil shale, greenish-gray, brownish-gray, tan, banded and laminated with numerous small injections and veinlets of dolomite, gray, silty, pyritic.
143.1-143.8	Oil shale, dark gray to black with laminae and inclusions of brown shale, dolomitic.
143.8-145.9	Oil shale, gray to brownish-gray, laminated in upper 1.2 ft, with siltstone stringer, gray to bluish-gray at 143.9 ft.
145.9-146.0	Ash, siltstone, tuff, white to pink to dark gray, white part is chalky vertical black shale partings, some iron stain, slight permeability.
146.0-150.8	Oil shale (?) or mudstone, tan to light brown, light gray to gray, some greenish-gray, broadly banded in part, badly broken above 148.0 ft.