

LITHOLOGIC DESCRIPTION OF USBM ROCK SPRINGS WELL NO. 20F-1  
 NW1/4SE1/4NW1/4, SEC 15, T 18 N, R 106 W, SWEETWATER COUNTY, WYOMING

August 10, 1966

by

George F. Dana

Footage	Description	Remarks
35.0-35.7	Shale, oil, light to medium gray, dense with discontinuous horizontal veins of calcite (?) in matrix.	This well was cored after fracturing with desensitized nitroglycerine was attempted in a well 4 feet northeast of this well. It was cored in order to determine the nature and extent of fracturing.
35.7-36.0	Shale, oil, medium gray to grayish-brown with same veins as above.	
36.0-37.8	Shale, medium grayish brown to dark gray and dark brown; abundant scattered mineral crystals, occasional brown limestone inclusions from 36.3 to 37.6.	
37.8-38.0	Shale, oil, medium gray to tan, calcareous in part, highly mineralized and crystalline zone from 37.85-37.90, may be a buff	
38.0-40.3	Shale, light gray to tan silty, dense, slightly calcareous.	
40.3-45.1	Shale, oil, greenish-gray to medium gray, silty in part, occasional natural fracture, becoming darker gray with depth.	
45.1-46.6	Shale, oil, medium to dark gray, interbedded with buff to gray dolomite limestone beds, limestones predominant at 46.2, 46.4, 46.5.	
46.6-47.0	Shale, oil, dark gray-green to olive drab, some natural fractures which have been filled with a purple to gray limestone. White crystalline calcite present as stringers and pod-like inclusions.	
47.0-47.5	Shale, gray green, several diagonal and horizontal fractures which are filled with calcite crystals.	
47.5-48.4	Shale, oil, medium brown to dark grayish-brown. Abundant crystals found as individuals scattered through the matrix. Thin limestone zones at 47.7, 47.8, 48.3, and 48.4.	
48.4-48.5	Ash, siltstone, white to gray, fractured with shale in the fractures, limey in part, some sandstone.	The fracturing charge was injected into the formation at about 40 to 43 feet but no evidence was found in the core that any cracking had been accomplished. No trace of an orange-red dye in the nitroglycerine was found in the core.
48.5-49.5	Shale, oil, light olive green to medium gray, tan streaks, some crystals in matrix, calcite crystals as veinlets, some tan sh layers.	
49.5-50.4	Shale, oil, light to medium gray, light green tint 50.1 down, veinlets filled with calcite and other types of crystals scattered through matrix.	