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GEOLOGICAL REPORT

00064868

W. A. Sidwell, Jr. & N. M. Tobison #1 Darby
NE/4 SE/4 Section 1, T. 2 N., R. 54 W.
Washington County, Colorado

Miscellaneous Data

Commenced	December 4, 1969
Completed	December 8, 1969
Status	D & A
Surface Casing	8-5/8" @ 109 KB with 80 sacks
Elevation	4488 Gr., 4494 K.B.
Cores	None
Drillstem Tests	None
Logs	Dresser Atlas: I-ES
Contractor	Allison Drilling Co.

Formation Tops - Electric Log

Niobrara	3890	
Ft. Hays	4222	
Carlile	4277	
Bentonite	4612	
"D" Sand	4708	(-214)
"J" Sand	4782	(-288)
Total Depth	4865	(4865 Driller)

Bit Record

No.	Size	Make	Type	From	To
1	7-7/8	HTC	OSC-3	109	3111
2	7-7/8	Security	S-3	3111	4515
3	7-7/8	Security	S-3	4515	4865

Formation Description

4650 - 4708	Shale, black, fissile.
4708 - 4724	Sandstone and shale stringers; sand is light gray and white, fine-grained, silty, clay-filled with carbonaceous fragments; tight, no shows.
4724 - 4726	Sandstone, white, fine-grained, friable, permeable, very light irregular stain and fluorescence; fluorescence very weak on dry sample.
4726 - 4729	Shale, black.
4729 - 4732	Sandstone as from 4724-26'.
4732 - 4748	Sandstone, light gray, fine-grained, silty and clay-filled, tight, no shows; carbonaceous partings.
4748 - 4782	Shale, black; silty in lower portion.
4782 - 4788	Sandstone, light gray, silty, clay-filled, fine-grained, tight, no shows; shale stringers.
4788 - 4801	Sandstone, light gray, medium-grained, clay-filling, angular, poor permeability, no shows.
4801 - 4813	Sandstone and shale stringers; sand is light gray, fine-grained, silty, tight, no shows.
4813 - 4817	Sandstone, tan to brown, medium-grained, angular, clay-filled, tight, no shows.
4817 - 4839	Shale, black, silty.
4839 - 4865	Sandstone, white, medium-grained, some clay-filling, indicated fair permeability, no shows; abundant free sand grains.

[redacted]

Remarks

Shows were present in samples of two stringers of indicated permeable sand in the "D" sand; their thickness was felt to be non-commercial and no drill stem tests were run. No shows were found in samples of the "J" Sand. The well was plugged with 10 sacks of cement in the top and 15 sacks in the base of the surface casing; 20 sacks were set across the "D" Sand.

N. M. Tobison

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