

GEOLOGICAL REPORT

W. A. Sidwell, Jr. & Energy Minerals Corp. #1 Downing
 SE/4 NW/4 Section 5, T 3 S, R 56 W
 Washington County, Colorado



Miscellaneous Data

RECEIVED

Commenced April 25, 1970
 Completed 4-30-70
 Status D & A
 Surface Casing 8-5/8" @ 140' with 100 sacks
 Elevation 4748 Gr.; 4754 K.B.
 Cores None
 Drill Stem Tests 2: "J" Sand
 Logs Schlumberger: I-ES and Microlog
 Contractor Allison Drilling Co.

MAY - 8 1970

COLO. OIL & GAS CONS. COMM.

Formation Tops - Electric Log

Niobrara 4310
 Ft. Hays 4654
 Carlile 4702
 Bentonite 5009
 "D" Sand 5098 (-344)
 "J" Sand 5146 (-392)
 Total Depth 5254 (Driller 5250)

MR	
FP	
FSI	
Hyd	
JID	

Bit Record

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>From</u>	<u>To</u>
1	7-7/8	HTC	OSC3	140	2565
2	7-7/8	Security	S3	2565	4010
3	7-7/8	HTC	OSC3	4010	4930
4	7-7/8	HTC	OSC-1G	4930	5181
5	7-7/8	Security	S-6	5181	5250

Drill Stem Tests

- DST #1 5181-86. Open 1-1/2 hrs, weak blow for 40 min., fair remainder of test. Recovered 40' free oil, 10' OCM, 180' fresh water, 800' gas in D.P. FP: 35-106#; 30-min. FSI: 788, Hyd: 2824-2812#; Pressure below bottom packer bled to 1225#. Resist. of water - 3.7 @ 66°.
- DST #2 5197-5203. Open 1-1/4 hrs., weak blow for 50 min., decreasing last 25 min. of test. Recovered 290' water with scum of oil on top. FP: 24-129#; 30-min. FSI: 824#; Hyd: 2830-2821; pressure below bottom packer bled to 1300#. Resist. of water - 3.2 @ 70°.

Formation Description

- 5050 - 5098 Shale, black, fissile.
 5098 - 5118 Sandstone, siltstone and shale stringers; sandstone is light gray, very fine-grained, silty, tight, no shows.
 5118 - 5146 Shale, black, fissile.
 5146 - 5154 Sandstone, light gray, fine-grained, silty, tight, no shows.
 5154 - 5158 Shale, black.
 5158 - 5176 Sandstone, light gray, fine- and medium-grained, clay-filled, dark minerals, poor permeability, no shows.
 5176 - 5180 Shale, black, silty.

- 5180 - 5186 Cavings from trip for D. B.
5186 - 5194 Sandstone, light gray, fine-grained, clay-filled, tight, no shows.
5194 - 5196 Shale, black, fissile.
5196 - 5204 Sandstone, fine-grained, clay-filled, with minor amount of white, clean, fine-grained, permeable, no stain, yellow fluorescence.
5204 - 5208 Siltstone, dark gray.
5208 - 5218 Sandstone, light gray, fine-grained, some clay-filling, poor to fair permeability, no shows.
5218 - 5244 Shale and siltstone, with clay-filled, sandstone member from 5230-34, no shows.
5244 - T. D. Sandstone, light gray, fine-grained, partially clay-filled, no shows.

Remarks

Two "J" Sand members that appeared prospective were drill stem tested in this well. Only limited amounts of fluid were recovered, indicating barrier conditions in each zone. Since the well was high structurally, it is felt that the prospect has not been condemned, and an additional exploratory well should be considered.

N. M. Tobison

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May 4, 1970