

15-9-24W

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Wichita, Kansas 67201

September 4, 1958

Murfin Drilling Company
617 Union Center
Wichita 2, Kansas

Re: Murfin Drilling Company's
No. 1 Nickelson "B", CE $\frac{1}{2}$ SE NW
Section 15-9S-24W
Graham County, Kansas

Gentlemen:

The following is a sample analysis report of the above
captioned test well.

Samples were examined from 3400' to 4090', total depth.
The well was under geological supervision from 3760' to
total depth.

Contractor: Murfin Drilling Company - Rig #4
Commenced: 8-11-58
Completed: 8-29-58
Elevations: 2507' K.B. Casing Record:
2505'D. F. 8 5/8 @ 205' w/160 sx.
2499' G.L.

<u>FORMATION</u>	<u>DEPTH</u>	<u>SEA-LEVEL DATUM</u>
Ft. Riley	3146	- 639
Topeka	3602	-1095
Heebner	3818	-1311
Toronto	3844	-1337
Lansing-Kansas City	3860	-1353
Base Kansas City	4078	-1571
Total Depth	4090	-1583

All measurements from rotary bushing elevation.

DRILL STEM TESTS

- #1 3926-45 Open 45 minutes. Recovered 715' saltwater.
IF-80#, FF-285#, BHP 1150#/20 minutes.
- #2 3979-4040 Open 1 hour. Recovered 10' mud. IF-0#,
FF-0#, BHP 260#/20 minutes.

SCHLUMBERGER FORMATION TESTS

- #1 3152 Open 30 minutes, 10 seconds. Recovered
310 c.c. formation and filtrate water.
BHP 1080#/28 minutes, 33 seconds.

CORING RECORD

None

ELECTRICAL SURVEY

A Welex Radiation Guard Log was run from 205', surface casing seat, to 4090, total depth.

FT. RILEY

3146-55 Samples were not saved through the Ft. Riley section. However, electric log computations for the interval give very strong indications of hydrocarbons. Welex computations give the interval 3146-50, 18% porosity and 19% water saturation and the interval 3150-54, 18% porosity with 27% water saturation. A Schlumberger Formation Test was run at 3152, recovered 310 c.c. of formation and filtrate water. Not commercial.

POROUS ZONES IN THE TOPEKA

The usual porous zones were found in the Topeka. There were no shows. Not commercial.

POROUS ZONES IN THE LANSING-KANSAS CITY

- 3860-72
(Top zone) White, finely crystalline to chalky, oolitic, slightly oolitic limestone with fair vugular porosity. No shows. Not commercial.
- 3888-90
(35' zone) White, finely crystalline to dense, slightly fossiliferous, cherty limestone with very poor fossil porosity. Trace dead stain. No odor. No free oil. Not commercial.
- 3929-32
(70' zone) Cream-white, finely crystalline, fossiliferous limestone with light to asphaltic stain in fair fossil porosity. No odor. Trace free oil. This interval was included in DST #1, recovered 715' saltwater. Not commercial.
- 3935-40
(90' zone) Cream-white, finely crystalline, fossiliferous limestone with fair spotted saturation in fossil to vugular porosity. Free oil. No odor. This interval was included in DST #1, recovered 715' saltwater. Not commercial.
- 3988-90
(140' zone) Cream, finely crystalline fossiliferous limestone with scattered light watery stain in poor fossil porosity. No odor. No free oil. This zone was covered by DST #2, recovered 10' mud. Not commercial.
- 4012-18
(160' zone) Gray, dense, fossiliferous limestone. No visible porosity. No shows. The 160' zone was included in DST #2, recovered 10' mud. Not commercial.
- 4030-32
(180' zone) White, finely crystalline limestone with spotted stain in poor pinpoint porosity. No odor. No free oil. This interval was covered by DST #2, recovered 10' mud. Not commercial.

Since no zones in the No.1 Nickelson "B", warranted setting casing for further testing, it was abandoned at the total depth of 4090' (-1583').

Respectfully submitted,


BERNARD W. LOUNSBURY