

July 21, 1964

Murfin Drilling Company
617 Union Center
Wichita, Kansas

Re: Murfin Drilling Company &
Patton Oil Co.
#1 Newcomer, SW NW SE
Section 12-13S-21W
Trego County, Kansas

Gentlemen:

The following is a sample analysis report of the above captioned test. Samples were examined from 3100' to 3845', total depth. The well was under geological supervision from 3140' to total depth.

COMMENCED: 6-23-64
COMPLETED: 7-3-64
CONTRACTOR: Murfin Drilling Co.-Rig #11
CASING RECORD: 8 5/8" @ 196' w/150 sx.
ELEVATIONS: 2150' K.B.
2147' D.F.
2145' G.L.

<u>FORMATION</u>	<u>DEPTH</u>	<u>SEA LEVEL DATUM</u>
Anhydrite	1500'	+650'
Topeka	3174'	-1024'
Heebner	3408'	-1258'
Toronto	3429'	-1279'
Lansing-Kansas City	3446'	-1296'
Base Kansas City	3686'	-1536'
Marnaton	3748'	-1598'
Conglomerate	3802'	-1652'
Arbuckle	3838'	-1688'
Total Depth	3845'	-1695'

All measurements from rotary bushing elevation.

DRILL STEM TESTS:

- #1 3192-3212 Open 30 minutes. Recovered 12^o mud. IF 29#, FF 29#, BHP 979# /20 minutes.
- #2 3438-50 Open 30 minutes. Recovered 5^o mud. IF 22#, FF 22#, BHP 57# /20 minutes.
- #3 3470-90 Open 2 hours. Recovered 490^o muddy saltwater. IBHP 658# /30 minutes, IF 33#, FF 232#, FBHP 616# /30 minutes.
- #4 3518-35 Open 2 hours. Recovered 570^o muddy saltwater. IBHP 1163# /30 minutes, IF 40#, FF 291#, FBHP 842# /30 min.
- #5 3742-85 Misrun
- #6 3721-85 Misrun
- #7 3762-85 Open 30 minutes. Recovered 15^o oil specked mud. IF 31#, FF 52#, BHP 1019# /20 minutes.
- #8 3792-3830 Open 30 minutes. Recovered 15^o mud. IF 43#, FF 43#, BHP 64# /20 minutes.
- #9 3840-45 Open 1 hour. Recovered 80^o watery mud. IF 22#, FF 54#, BHP 609# /20 minutes.

ELECTRICAL SURVEY: NoneCORING RECORD: NonePOROUS ZONES IN THE TOPEKA:

- 3204-09 Cream, finely crystalline, suboolitic and suboolicastic limestone with light even saturation in fair suboolicastic porosity. Good odor. Free oil. This interval was tested by DSE #1, recovered 12^o mud. Not commercial.
- 3255-77 Cream, sucrose dolomitic-limestone with good intergranular porosity. No odor. No visible shows. Not commercial.
- 3305-08 Gray, finely crystalline fossiliferous, slightly oolitic limestone with trace of light spotted stain in poor fossil to vug porosity. No odor. Rare trace free oil. Not commercial.

3349-52 Light-gray, finely crystalline, fossiliferous, cherty limestone with a very rare trace of stain in poor fossil porosity. No odor. No free oil. Not commercial.

POROUS ZONES IN THE LANSING-KANSAS CITY:

The Lansing-Kansas City was picked at 3446' (-1296'). This is 1' lower than the Birmingham-Bartlett #1 Egger, a producer two locations west.

3446-50 Cream, dense, slightly fossiliferous limestone with dark saturation in fair fractured to pin-point porosity. Free oil. No odor. This interval was tested by DST #2, recovered 5' mud. Not commercial.

3475-84 Cream, finely crystalline, fossiliferous limestone with fair fossil porosity and light spotted stain. No odor. Free oil. This zone was tested by DST #3, recovered 490' muddy salt water. Not commercial.

3501-04 Gray, finely crystalline to dense, slightly oolitic limestone with scattered light stain in poor fossil to vug porosity. No odor. Rare trace free oil. Not commercial.

3513-17 Gray, finely crystalline, fossiliferous limestone with dark to gilsonite stain in fair fossil porosity. No odor. Trace heavy free oil. Not commercial.

3521-24 Green, finely crystalline, fossiliferous, slightly oolitic and oolitic limestone with light live saturation in fair oolitic and vug porosity. Odor. Free oil. This zone was tested by DST #4, recovered 570' muddy salt water. Not commercial.

3540-43 White, finely crystalline to chalky, fossiliferous limestone with gilsonite stain in good vug porosity. No free oil. Odor. Not commercial.

3582-82 Green, finely crystalline, fossiliferous limestone with light saturation in poor fossil porosity. No odor. No free oil. Not commercial.

3604-08 Green, dense to finely crystalline, fossiliferous limestone with scattered light stain in fair to poor fossil porosity. No odor. No free oil. Not commercial.

- 3626-28 Light-gray, dense to chalky, slightly fossiliferous limestone with spotted light stain in poor fossil porosity. No odor. No free oil. Not commercial.
- 3644-46 White, finely crystalline to chalky, slightly oolitic limestone with asphaltic to gilsonitic stain in poor vug porosity. No odor. No free oil. Not commercial.
- 3669-71 Cream, finely crystalline, fossiliferous, sub-oolitic and suboolicastic limestone with light spotted stain in fair oolitic to vug porosity. Trace free oil. No odor. Not commercial.

MARMATON:

- 3748-60 Gray, granular dolomitic limestone with dark saturation in poor intergranular porosity. Heavy free oil. No odor. Not commercial.
- 3760-92 Gray, granular, very cherty dolomitic limestone with light saturation. Free oil. Odor. This zone was tested by DST #7, recovered 15' oil specked mud. Not commercial.

CONGLOMERATE:

- 3802-07 White, medium to coarse, dolomitic, quartzitic sandstone with a trace of spotted stain. No odor. No free oil. This interval was included in DST #8, recovered 15' mud. Not commercial.
- 3807-30 Gray-red-green shale with streaks of fine to medium, angular to subrounded, clear quartz sandstone with dark saturation; loose drilling sand grains and limestone nodules with asphaltic stain. Heavy free oil. No odor. This interval was included in DST #8, recovered 15' mud. Not commercial.

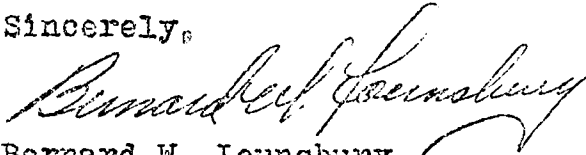
ARBUCKLE:

The Arbuckle was found at 3838' (~1683'). This is 10' lower than the Birmingham-Bartlett #1 Egger, a producer at 2 locations west, and 5' lower than a dry hole 2 locations south.

- 3838-45 White, medium, compact rhombohedral crystalline, cherty dolomite with light live saturation to trace gilsonite stain. Odor. Free oil. The Arbuckle was tested by DST #9, recovered 8' watery mud. Not commercial.

Since no zones in the #1 Newcomer warranted setting casing for further testing, plugging orders were secured and the test was abandoned in the Arbuckle at the total depth of 3845' (-1695').

Sincerely,



Bernard W. Lounsbury

BWL:ml