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GEOLOGIC REPORT

McNeish Oil Operations #1 Thowe "A"

W/2 E/2 E/2 2-13S-10E

Wabaunsee County, Kansas

Daily Progress:

- 3/19 Finished moving on location. Surface casing was set ahead.
300' of 8 5/8" set at 305' KB depth with 135 sacks, 3% CaCl.
- 3/20 Drilled out beneath surface casing at 9:00 a.m.
- 3/21 1288', drilling
- 3/22 1890', drilling
- 3/23 2363', drilling
- 3/24 2692', drilling
- 3/25 2945', drilling
- 3/26 3046', on bank with DST #1. Rotary Total Depth of 3120' reached
at 1:47 p.m. Ran E-Logs
- 3/27 Ran 3103' of 4 1/2" production casing to 3108' KB depth. Cemented
with 200 sacks of Class B Standard Cement, 5% Gilsonite, .2% CFR-3.
Plug down at 6:45 a.m.

Service Companies:

Drilling Contractor: White & Ellis, Rig 5
Drilling Mud: Fud Mud
Cement: Halliburton
E-Logs: Log Tech
Drill Stem Test: Western Testing

Formation Tops (E-Log Depths):

<u>Formation</u>	<u>#1 Thowe "A"</u> <u>KB 1098</u>	<u>Structural Relation to</u> <u>FSO #1 Thowe</u> <u>SE NW SE 2</u>
Lansing	1222(- 124)	Flat
Mississippi	2188(-1090)	-5
Kinderhook	2470(-1372)	+22
Hunton	2670(-1572)	+34
Maquoketa	2840(-1742)	+23
Viola	2918(-1820)	+20
Simpson Shale	3004(-1906)	+24
Simpson Sand	3037(-1939)	+25
Arbuckle	3107(-2009)	+25
Total Depth	3121(-2023)	--

Note: This well was drilled on a Farmout from Frank Small Oil. McNeish Oil Operations has a right to all zones beneath the Simpson Shale.

Shows and Drill Stem Tests:**Kansas City**

1510-16 Limestone, tan, fine grained, rounded fossilgrains, poor intergranular porosity, faint odor, slight show of free oil. E-Logs indicate this zone to be tight (maximum of 7.5% porosity) and it is of no commercial value.

Hunton

2672-82 Dolomite, white to gray and some very light tan, sandy in upper part, some gray chert, medium to coarse crystalline, euhedral rhombs, fair intercrystalline and vuggy porosity, faint odor, trace of free oil. E-Logs confirm the zone is wet and is of no commercial value.

Viola

2921-34 Dolomite, white, mostly very coarse crystalline euhedral dolomite rhombs, some fine crystalline tight matrix, very good intercrystalline and vuggy porosity, good odor, mostly brown stain with some black asphaltic stain, good show of heavy brown oil. E-Logs confirm this as a pay zone in offset wells. (Rights owned by Frank Small Oil)

Simpson Sandstone

3039-56 Sandstone, tan (oil stain), medium grained with some coarse grained, subrounded, moderately sorted, abundant loose grains, good porosity, faint odor, uniform light gold florescence and even brown stain on all clusters, fair show of free oil. E-Logs and DST results indicate this interval to be a pay zone.

DST #1 3020-3046

45-45-60-60

Weak blow increase to strong blow off bottom during both open periods.

Recovered: 720' slightly gassey oil (35° API)
 30' slightly watery heavily oil cut mud
 (55% oil, 43% mud, 2% water*)
 120' slightly watery slightly oil cut mud
 (12% oil, 81% mud, 7% water*)

* water is filtrate water

Flow Pressures: 71-183, 234-326

Shutin Pressures: 1136-1126

Hydrostatic Pressures: 1503-1503

Bottom Hole Temp.: 112° F

3056-62 Sandstone (as in 3039-56), scattered pyrite, show decreasing rapidly downward, weaker florescence in 50% of sample with fair show of free oil, slight show of dead oil and tar in rest of sample. Samples indicate this interval to be in the oil/water transition, however the E-Logs indicate it is pay.

3062-70 Sandstone, some is white, hard, some with porosity and slight show of free oil, florescence in 10% of sample, slight show of dead oil and tar. Samples indicate this interval to be in the water zone but E-Logs indicate it may be in oil/water transition zone.

Recommendations/Summary:

It is recommended that the Simpson Sandstone be perforated from 3040 to 3048 with 4 shots per foot. It is anticipated that the formation will yield sufficient fluid without stimulation.

The #1 Thowe "A" was drilled on the Frank Small Oil Farmout of the zones deeper than the Simpson Shale primarily for the Simpson Sandstone. The sandstone was encountered in the anticipated structural position and appears to contain a sufficient oil column to make it a good well. Samples indicate approximately 17 feet of pay (3039-56) while E-Logs suggest an additional 6 feet of pay (3039-3062).

Respectfully submitted,

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