11-7S-23W MT Eth

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JOHN R. WILSON
3900 SOUTH MEMORIAL
TULSA, OKLAHOMA

December 22, 1955

J. A. Terteling & Sons and
Harms-Burt Drilling Company

No. 1 Hale
Section 11-7S-23W
NE NE NW
Graham County, Kansas

Elevation: 2388 K. B.
2385 D. F.
2383 G. L.

Contractor: Harms-Burt Drilling Company
Spudded: December 6, 1955
Surface Pipe: 8 5/8" casing set at 209' with 150 sacks common cement and three sacks Ca.Cl2.

GEOLOGICAL REPORT

Samples and drilling time were kept from 3300' to rotary total depth.

The following data was compiled from sample analysis, time log and electrical log interpretation and analysis and all tops and porosity zones are corrected to rotary bushing measurements.

Samples were examined from 3300' to total depth. The well was under geological supervision from 3550' to total depth.

SPECIAL NOTE: Electric log measurements indicated rotary total depth as 4' deeper than board. Check of drill pipe tally found a 4' uncorrected error at 3055' and 3697'. Therefore, all sample tops and measurements have been corrected down four feet.

Top Anhydrite 2055 + 333

OWLL

Top Topeka 3403 -1027, no shows of oil.

Top Heebner 3615 -1227, Schlumberger 3613 -1225

Top Toronto 3640 -1252, Schlumberger 3637 -1250

3637-47 Limestone, crystalline slightly vugular with slight porosity, no stain, no free oil, possible slight rainbow.

Top Lansing-Kansas City 3655 -1267, Schlumberger 3653 -1265

3653-75 Limestone, oolitic and oolicastic with fair to good porosity, no staining, no shows.
10-20

Drill Stem Test No. 1 (corrected measurements)
Total Depth: 3671; Packer set at 3640, tool open one hour with weak blow throughout. Recovered 50 feet of mud, no oil; bottom hole pressure 1220# in 30 minutes. Initial flow pressure 0#, final flow pressure 0#.

3680-90 Limestone, oolitic with fair to good vuggy porosity, staining and show of free oil, some dead oil and gilsonitic residue.
30'

3700-14 Limestone, finely crystalline tight, no show.

Drill Stem Test No. 2 (corrected measurements)
Total depth: 3709; Packer set at 3674, tool open one hour with fair weak blow throughout. Recovered 124' water cut mud, no oil. Bottom hole pressure 1235# in 30 minutes. Initial flow pressure 30#, final flow pressure 75#.

3720-30 Limestone, oolitic, oolicastic, with good porosity and staining and slight show of free oil.
70'

3732-59 Limestone, as above with slight staining and slight show of dead oil in samples.

Drill Stem Test No. 3 (corrected measurements)

Total depth: 3734. Packer set at 3710', tool open one hour with good blow throughout. Recovered 1065' muddy salt water. Bottom hole pressure 1070# in 30 minutes. Initial flow pressure 350#, final flow pressure 400#.

3773-90 Limestone, finely crystalline, good saturation, with some very black free oil in samples and much dead oil.

130'

Drill Stem Test No. 4 (corrected measurements)

Total depth: 3794. Packer set at 3758', tool open thirty minutes, weak blow for 22 minutes. Recovered 30' mud, no oil. Bottom hole pressure 1230# in 30 minutes. Initial flow pressure 0#, final flow pressure 0#.

3804-3810 Limestone, crystalline with poor inter-crystalline porosity, some fair to good porosity, show of free oil and much dead oil.

150-160

3826-45 Limestone, finely crystalline, dense tight inter-crystalline porosity, with dead oil staining and no show of free oil.

180'

Drill Stem Test No. 5 (corrected measurements)

Total depth: 3854. Packer set at 3799', tool open 35 minutes, weak blow 30 minutes, bypassed tool, weak blow 5 minutes. Recovered 20' mud, no oil. Bottom hole pressure 1060# in 30 minutes. Initial flow pressure 0#, final flow pressure 0#.

Base Kansas City Section	3847 -1459,	Schlumberger 3845 -1457
Shaley Conglomerate	3934 -1547,	Schlumberger 3931 -1543
Cherty Conglomerate	4008 -1620,	Schlumberger 4007 -1619
Top Arbuckle	4039 -1651,	Schlumberger 4039 -1651

4039-62 Dolomite, tan, pink, finely-crystalline to coarse crystalline with spotted, poor to fair porosity with included oolitic cherts, no show of oil, no staining, no odor.

Rotary Total Depth: 4062'
Well plugged, dry and abandoned on December 17, 1955 at 10:00 A. M.

Comments and Recommendations

This well was higher through the Lansing-Kansas City section than the dry holes southwest and northwest but ran lower than the dry holes north, northeast, east and southeast. Slight shows of oil were tested but no oil was recovered on drill stem tests. On the Arbuckle top, this well was flat with the dry hole southwest, higher than the dry hole northwest and lower than the dry holes north, northeast, east and southeast.

It was recommended the well be plugged and abandoned.

Sincerely,

C. H. Stinkard

C. H. Stinkard, Geologist

CHS/d