

12-16-13w
State Geological Survey

CONTRACTOR: Emphasis Oil Operations
 COMMENCED: 3-8-82
 COMPLETED: 3-17-82
 ELEVATIONS: 1920' K.B., 1917' D.F., 1912' G.L.
 CASING PROGRAM: Surface: 8 5/8' @ 308'
 Production: 5½" @ 3500'
 MEASUREMENTS: All depths measured from the Kelly Bushing
 DRILLING TIME: One (1) foot drilling time recorded by geologist surface to the R.T.D.
 SAMPLES: Samples saved 2700' to the R.T.D.
 ELECTRIC LOG: None
 FORMATION TESTING: None

WICHITA, BRANCH

<u>FORMATION</u>	<u>SAMPLE DEPTH</u>	<u>SUB-SEA DATUM</u>
Anhydrite (driller)	869	+1051
Heebner	3034	-1114
Toronto	3051	-1131
Douglas	3065	-1145
BrownLime	3122	-1202
Lansing	3134	-1214
Base Kansas City	3364	-1444
Conglomerate	3375	-1455
Arbuckle	3388	-1468
Quartz	3570	-1650
Rotary Total Depth	3590	-1670

(All tops and zone determinations were made from a correlation of a drilling time log and sample analysis.)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TORONTO SECTION
 3052-3056 Limestone, grey (dolomitic) granular, poor intercrystalline porosity, good stain and and saturation (100%). Show of free oil and no odor in fresh samples. Perforate.

LANSING SECTION
 3161-3167 Limestone, grey, finely crystalline, oocastic, fair oocastic porosity (barren). No shows of oil.

3206-3210 Limestone, white, finely crystalline, highly chalky. No shows of oil.

3256-3260 Limestone, cream, suboocastic, poor oocastic porosity, chalky. No shows of oil.

3282-3286 Limestone, buff, cherty, fossiliferous to oolitic, poor porosity, trace of spotty stain. Very slight show of free oil and no odor in fresh samples.

ARBUCKLE SECTION
 3389-3398 Dolomite, grey, medium crystalline, to dense, poor intercrystalline porosity, trace of poor spotty stain. No show of free oil or odor in fresh samples.

Thomason Oil Company
 Cain #1
 100'N SW NW SE, Section 12-16S-13W
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3398-3404

Dolomite, grey, medium crystalline, good intercrystalline porosity, slight scattered stain and saturation. Very weak show of free oil and faint odor in fresh samples. Perforate.

3410-3415

Dolomite grey to white, medium crystalline, good intercrystalline porosity, slight stain and saturation, abundant white chalk. Slight show of oil and no odor in fresh samples.

3420-3500

Dolomite, buff, medium to coarse crystalline, good intercrystalline porosity plus thin streaks of green shale. No shows of oil.

3510-3550

Dolomite pink to light grey, medium crystalline with irregular coarse grain quartz inclusions, plus clear quartz grain clusters. No shows of oil.

3550-3570

Dolomite and quartz as above. No shows of oil.

QUARTZ SECTION
 3570-3590

Quartz, clear, loose, unconsolidated, angular, plus abundant green shale. No shows of oil.

ROTARY TOTAL DEPTH 3590 (-1670)

RECOMMENDATIONS: It was recommended that 5½" casing be set and cemented at 3500', 90' off bottom and the following zones to be tested before completion is made for a saltwater disposal well.

1. Arbuckle Perforate according to electric log engineer's recommendations and measurements.
2. Toronto Perforate according to electric log engineer's recommendations and measurements.

Respectfully submitted,



Brad Hutchison

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