

RUPE OIL COMPANY, INC.

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GEOLOGICAL REPORT

Rupe Oil Company, Inc.
#3-18 City of Stockton
NW-SW-SW Sec. 18-7S-17W
Rooks County, Kansas

March 21, 1983

Elevation: 1815 GL
1823 KB

Geologist: James L. Crisler
Commenced: February 9, 1983
Completed: February 18, 1983
Contractor: KANDRILCO, Inc.
Casing Record: 13-3/8" Conductor at 96' with 125 sx.
Class 'A', 3% CaCl and 1/4# Flocele.
8-5/8" Surface at 1260' with 250 sx.
Halliburton Light, 3% CaCl and 1/4#
Flocele, followed by 250 sx. Class
'A' with 2% Gel and 3% CaCl.
5-1/2" Production at 3336' with 500
gal. Flocek 21 and 150 sx. Regular
Portland with 2% Gel and 3% CaCl. A DV
tool was set 200 sx. 50-50 Pozmix with 2%
Gel at 1359'.
Hole Size: 7-7/8"
Samples: 10' from 2700' to RTD
Drill Time: 1' from 2700' to RTD
Electric Log: GR-N and Guard over Anhydrite only
Drill Stem Tests: Two - see significant shows
Total Depth: 3347' RTD; 3336' PBTD

Formation Tops and Significant Shows (All Measurements from Kelly Bushing)

	<u>Drill Time/Samples</u>	<u>Electric Log</u>
Anhydrite	1251 (+572)	1253 (+570)
B/Anhydrite		1288 (+535)
Topeka	2754 (-931)	No log below
Heebner	2966 (-1143)	Anhydrite due to
Toronto	2990 (-1167)	hole conditions.
Lansing	3011 (-1188)	
B/KC	3232 (-1409)	
Marmaton	3242 (-1419)	
Arbuckle	3298 (-1475)	
RTD	3347 (-1524)	

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Lansing
3103-3111

Limestone, light grey, sucrosic, fossiliferous, oolitic with inter-oolitic porosity, gilsonite, stain, and poor show.

Drill Stem Test
#1
3088-3110

30-90-60-90. First opening weak blow. Second opening flushed tool no blow. ISIP 1182#; IFP 18-53#; FSIP 1164#; FFP 53-88#. Recovered 140' of watery mud with few oil spots.

Heppler SS
3232-3234

Sand, clear, scattered good friability with gilsonite and scattered fair show.

Drill Stem Test
#2
3223-3246

30-30-30=30. No blows. Flushed tool second opening no blow. ISIP 881#; IFP 18-18#; FSIP 793#; FFP 18-18#. Recovered 4' of oil cut mud.

Arbuckle
3298-3335

Dolomite, tan, fine to medium grained crystalline, scattered oolites poor to good porosity excellent odor and show.

Arbuckle
3305-33

Dolomite, light tan, crystalline, grainular, no porosity or stain.

Arbuckle
3333-3347

Dolomite, light tan, crystalline, grainular, well developed clear crystal rhombs, possible indication of fracture. Excellent porosity from fracture and good show with crystal rhombs.

Discussion and Recommendation

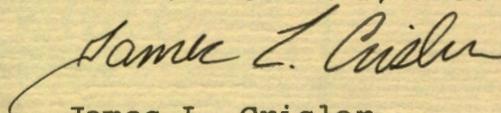
The #3-18 City of Stockton is a development well extending the Riffe Pool Northwest. The well is a 10-acre offset to the West of the Rupe Oil Company, Inc. #1-18 City of Stockton, bottom hole location NE-SW-SW of Section 18, Township 7S, Range 17W. The #3-18 ran from 1' to 3' low from the Topeka through the base of the Kansas City. At the Arbuckle horizon the #3-18 ran flat, all relative to the #1-18.

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The #3-18 had shows in the Topeka, Toronto, Lansing 'A', 'B', 'F', 'G', and 'I' zones, the Hepler Sand, and the Arbuckle. Tests were run covering the Lansing 'G' and the Hepler Sand. These tests showed the zones have little porosity in this well. Relative to these two tests only the Arbuckle showed a significant improvement in the porosity of the reservoir rock and oil show; for this reason no other zones were tested and recommendation was made to set production casing to the Arbuckle.

Respectfully submitted,

RUPE OIL COMPANY, INC.



James L. Crisler
Geologist

JLC/dag