

RUPE OIL COMPANY, INC.

P.O. BOX 2273 • 438 OHIO, WICHITA, KANSAS 67201 • (316) 262-3748

GEOLOGICAL REPORT

Rupe Oil Company, Inc. #2-19 City of Stockton NW-NE-NW Sec. 19-7S-17W (Bottom Hole Location) 262' E of NW-NE-NW (Surface Location) February 10, 1983

Elevation: 1776 GL 1784 KB

Geologist:
Commenced:
Completed:
Contractor:
Casing Record:

James L. Crisler January 28, 1983 February 7, 1983 KANDRILCO, Ltd.

13-3/8" Conductor at 98' with 125 sx. Class 'A', 2% Gel, 3% CaCl.
8-5/8" Surface at 1237' with 250 sx. Halliburton Lite, 3% CaCl, followed by 250 sx. Class 'A' 2% Gel, 3% CaCl.
5-1/2" Production at 3379' with 150 sx. 50-50 Pozmix, 2% Gel, 18% Salt, 0.75% CFR-2, and 1/4# Flocele.

Hole Size:
Samples:
Drill Time:
Electric Log:
Drill Stem Tests:
Total Depth:

7-7/8"

10' from 2700' to RTD

1 from 2700' to RTD

GR-N, Guard, & Caliper

None

3380' (3350' TVD) RTD

3375' (3345' TVD) LTD

(TVD - True Vertical Depth)

Formation Tops and Significant Shows (All Measurements from Kelly Bushing) Adjusted Depths for Directional Hole

	Drill Time Samples	TVD	Electric Log	TVD	
Anhydrite	1223 (+561)		1219 (+565)	400 feet 400	
B/Anhydrite			1252 (+532)	-	
Topeka			2725	2717 (-933)	
Heebner	2946	2933 (-1149)	2940	2927 (-1143)	

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Toronto Lansing B/KC Marmaton Arbuckle	2969 2991 3226 3236 3296	2955 (-1171) 2977 (-1193) 3202 (-1418) 3212 (-1428) 3269 (-1485)	2963 2984 3220 3231 3294	2970 3196 3207 3267	(-1165) (-1186) (-1412) (-1423) (-1483) (-1561)
RTD	3380	3350 (-1566)	3375	3345	(-T20T)

Lansing 3082-3088 (3064-3070 TVD)

Limestone, light grey, fine grained crystalline, fossiliferous, scattered oolites with interoolitic porosity, stain, and fair show.

Hepler SS. 3226-3231 (3202-3207 TVD) Sand, clear, medium-grained, grading downward from a thin oolitic lime. Good intercrystalline porosity, gilsonite and a good show of free oil.

Arbuckle 3294-3302 (3267-3275 TVD)

Dolomite, cream, sucrosic with scattered oolites. Poor intercolitic porosity with stain, but no show.

Arbuckle 3302-3352 (3275-3323 TVD)

Dolomite, cream, fine to medium grained crystalline, scattered intercrystalline porosity with stain and a fair show of oil.

Discussion and Recommendation

The #2-19 City of Stockton is a development well which lies in the Northwest of the Riffe Pool. The well is in the midst of three producing wells. To the North is the Arbuckle producing A & M Oil Company's #1 Lowry, approximately 100' West of SW-SE-SW of Section 18-7S-17W. To the Southeast is the C C & S Oil Operations, Inc. #1 D/W/J, approximately 150' Southwest of E/2-NE-NW of Section 19-7S-17W, also a good Arbuckle producer. To the West is the Rupe Oil Company, Inc. #1-19 City of Stockton, approximately NE-NW-NW of Section 19-7S-17W, which, though it is structurally about even with the #1 D/W/J and the #2-19 on the Arbuckle is a very marginal producer in this zone.

The #2-19 City of Stockton ran even to low from the Heebner through the Marmaton section in comparison with the #1-19 and 1' low to 8' high when compared to the #1 Lowry. This gives the #2-19 a favorable structural position, but the #1-19 shows that the porosity development that is required for commercial productivity in this area is not always present.

#2-19 City of ockton 3-21-83 Page 3 The #2-19 City of Stockton had shows in the Toronto, Lansing 'G', 'I', and 'K', a basal Missourian sand, the lower most Cherokee, and the Arbuckle. No tests were run. The Toronto had only a poor show and calculated wet on the log. The Lansing 'G' had a good show, good porosity, and calculated very good on the log. This zone also is found, but not reportedly tested, in the surrounding wells. The Lansing 'I' and 'K' zones had good shows but poor porosity, poor log calculations, and were not favorably noticed in the surrounding wells. The Basal Missourian sand has had good shows through a wide spread area, but not tested and not with the most favorable log calculations. The lime in the lower Cherokee has not given up a show in any other well, but calculated well with a fair show. The Arbuckle lacked porosity through the first 8 feet, but fair to good porosity developed with good shows lower in the section. Due to the production history of the area, it is recommended that pipe be set and the Arbuckle perforated and tested. It is further recommended that the Lansing 'G' and the Basal Missourian sand be considered before abandoning the well. Respectfully submitted, Same E. Cush James L. Crisler Geologist JLC /dag