



# RUPE OIL COMPANY, INC.

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## GEOLOGICAL REPORT

Rupe Oil Company, Inc.  
#1 DALE HILLMAN  
SE SW NE Section 18-11S-24W  
Trego County, Kansas

June 18, 1980

Elevation: 2420' Kelly Bushing  
2415' Ground Level  
(Laughlin-Simmons)

Geologist: Martha T. Kopper  
Commenced: June 7, 1980  
Completed: June 17, 1980  
Contractor: Warrior Drilling  
Casing Record: 8-5/8" set at 253' w/150 sx.  
Hole Size: 7-7/8"  
Samples: 10' from 3400' to 3600'; 5' from 3600' to Rotary Total Depth.  
Drill Time: 1' drill time from 3400' to Rotary Total Depth.  
Electric Log: Great Guns, GR-N, Guard, Caliper  
Drill Stem Tests: Four - See Significant Shows  
Cores: None  
Total Depth: 4011' Rotary Total Depth. 4010' Log Total Depth.  
Gas Detector: None.

### FORMATION TOPS AND SIGNIFICANT SHOWS

(All measurements from Kelly Bushing)

	<u>Drill Time</u>	<u>Electric Log</u>
Topeka	3500' (-1080')	3503' (-1083')
Heebner	3726' (-1306')	3723' (-1303')
Toronto	3748' (-1328')	3746' (-1326')
Lansing	3763' (-1343')	3758' (-1338')
Base Kansas City	4004' (-1585')	3998' (-1578')

Lansing  
3800'-3815'

White to tan Limestone, slightly oolitic, fair to moderate stain, fair to moderate porosity.

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DRILL STEM TEST

#1

3787' - 3822'

Open 45"; Shut In 30"; Open 30"; Shut In 30". Very weak blow throughout first period; 2nd opening very weak, died in 18 minutes; flushed tool. Recovered 40' drilling mud with few specks oil. IHP 1948#; FHP 1927#; ISIP 599#; FSIP 588#; IF 43-43#; FF 54-54#; BHT 118°.

3902-3923'

White Limestone, slightly micritic, fair to good porosity, fair to good stain, some free oil.

DRILL STEM TEST

#2

3896' - 3940'

Open 30"; Shut In 30"; Open 10"; Shut In 30". Very weak blow 1st flow period; died in 12 minutes, No blow 2nd flow period; flushed tool. Recovered 10' drilling mud. IHP 2108#; FHP 2087#; ISIP 349#; FSIP 426#; IF 43-43#; FF 43-54#; BHT 118°.

3949' - 3970'

Tan-white limestone, oolitic, slight free oil, fair to moderate oil stain, oolitic porosity, fair to moderate.

DRILL STEM TEST

#3

3944' - 3970'

Open 30"; Shut In 45"; Open 60"; Shut In 60". Fair steady blow throughout 1st and 2nd openings. Recovered 114' GIP, 5' clean oil (30 gravity), 5' gas cut and mud cut oil; 10' slightly gas cut and oil cut mud; 52' slightly gas cut muddy water, 62' gas cut salt water, 186' salt water. IHP 2065#; FHP 2044#; ISIP 1115#; FSIP 1083#; IF 54-98#; FF 120-174#; BHT 118°.

3970 - 3994'

White to tan limestone, oolitic, and oolitic hash, good oolitic porosity, good stain, free oil.

DRILL STEM TEST

#4

3965' - 4011'

Open 30"; Shut In 45"; Open 60"; Shut In 60". Fair steady blow throughout 1st and 2nd flow periods. Recovered 278' Salt Water. IHP 2033#; FHP 2012#; ISIP 825#; FSIP 750#, IF 43-65#; FF 98-141#, BHT 90°.

DISCUSSION

This well ran 1 foot low on the Heebner and 1 foot high on the Lansing compared to the C & G Drilling Company #1 Billinger, CSW NE. It ran 5 feet high on the Heebner and 2 feet high on the Lansing compared to John Farmer #3 Scanlon, CNW SE. It also ran 4 feet low on the Heebner and 2 feet low on the Lansing when compared to John Farmer #1 Billinger, CSE NE. Oil shows were in the B, C, H, I, J, & K zones of the Lansing. According to the electric log, the zones were partially wet and tight.