



RUPE OIL COMPANY

February 6, 1975

GEOLOGICAL REPORT

G. N. Rupe

#1 TITUS - SW SE SW of Section 11-26S-19W
Edwards County, Kansas

Elevation: 2229' Kelly Bushing
2226' Derrick Floor
(Laughlin-Simmons)
2224' Ground Level

Commenced: January 13, 1975

Completed: January 28, 1975

Contractor: Red Tiger Drilling Company - Rig #6
Wichita, Kansas

Casing Record: Surface - 268' - 8 5/8" 27# w/175 sx. Common Cement
Production - 4787 - 5 1/2" 10.5# w/100 sx. 50-50 Pozmix 1/29/75

Hole size: 7 7/8"

Samples: 5' from 4000' - 4753' RTD

Drill Time 1' from 3200' - 4753' RTD

Gas Detector: From 2400' - 4753' RTD

Drill Stem Tests: Four - see significant shows.

Electric Logs: Petro-Log; Gamma Ray Neutron, Conductivity, Guard, and Caliper
4000' - 4754'.

Cores: None

Total Depth: 4753' RTD 4754 LTD. Drilled deeper to 4785' after logging.

FORMATION TOPS AND SIGNIFICANT SHOWS

(All measurements from Kelly Bushing)

	<u>Drill Time</u>	<u>Electric Log</u>
Anhydrite	1310' (+919')	Not picked.
Heebner	4014' (-1785')	4014' (-1785')
Brown Lime	4146' (-1917')	4147' (-1918')
Lansing	4156' (-1927')	4157' (-1928')
Base of Kansas City	4525' (-2296')	4523' (-2294')
Marmaton	4550' (-2321')	4549' (-2320')
Cherokee	4636' (-2407')	4636' (-2407')
Mississippi	4716' (-2487')	4718' (-2489')
Total Depth	4753' (-2524')	4754' (-2525')

The porous zones in the Lansing were generally oolitic with no shows of oil or gas. The Marmaton and Cherokee were generally tight with no shows of oil or gas.

Mississippian Limestone, dolc., brown, f.-md. xtn, no show of oil.
4716' - 4724' Chert, white, vitreous, sharp, fresh.
30 Unit kick on Portable Gas Detector.

DRILL STEM TEST #1 4684' - 4724' Open 60", shut in 60", open 30", shut in 60".
Gas to surface in 90"--too small to measure. Recovered 65'
gassy mud.
ISIP 1160# IFP 30# Temperature 117°
FSIP 945# FFP 50#

Mississippian
4724' - 4737' Chert, white, fresh, sharp with limestone, dolc., brown, f.-md.xtln.
No show of oil.

DRILL STEM TEST #2 4713' - 4737' Open 30", shut in 60", open 130", shut in 60". Gas to surface in 30".
Gauged 32 MCF, increased to 74 MCF in 2 hrs. 10 min.
Recovered 150' gassy mud.
ISIP 1543# IFP 40# Temperature 117°
FSIP 1533# FFP 50#

Mississippian
4737' - 4743' Chert, white, fresh, sharp with sh, dk. gry to gry-blk.
No show of oil.

DRILL STEM TEST #3 4736' - 4743' Open 30", shut in 60", open 60", shut in 60". Gas to surface in 30".
Gauged 78 MCF decreased to 12 MCF in 5" and stabilized.
Recovered 65' gas cut mud.
ISIP 1493# IFP 20# Temperature 117°
FSIP 1372# FFP 30#

Mississippian
4743' - 4753' Chert, white, fresh, shapr w/chert, tropolitic and sh, dk/ gry to gry-blk.
No show of oil.

DRILL STEM TEST #4 4737' - 4753' Open 30", shut in 60", open 30", and shut in 60". Gas to surface in 30".
Gauged 78 MCF decreased to 14 MCF in 5" and stablilized.
Recovered 65' gas cut mud and 120' gas cut muddy water.
ISIP 1422# IFP 20 - 70# Temperature 117°
FSIP 1352# FFP 50 - 80#

DISCUSSION

Subject Well ran approximately flat with #1 Taylor in Section 14, down to the Marmaton where it was 3 feet low. It was 3 feet low at Mississippian level also. Did not appear to have zone developed which tested 2.6 MMCF gas in Taylor Well, but does appear to have zone developed which is reported to make 1 MMCFGD in the O. A. Sutton #1 Boyer in Section 2-26S-19W. Recommend perforations 4730'-4736'.

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