

ORIGINAL

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JULY 24, 2001

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RECEIVED  
STATE CORPORATION COMMISSION

JAN 29 2002

CONSERVATION DIVISION  
Topeka, Kansas

GEOLOGICAL REPORT  
Friedley No. 1  
2310' FSL & 2070' FEL  
Section 22-T18S-R9W  
Rice County, Kansas

22-18-7W Friedley No. 1

CONTRACTOR	Sterling Drilling Co.
DATE COMMENCED	July 15, 2001
DATE ROTARY COMPLETED	July 21, 2001
TOTAL DEPTH	3320
SURFACE CASING	213' of 8 5/8"
PRODUCTION CASING	4 1/2" @ 2209'
ELEVATIONS	1724 Ground: 1733 Kelly Bushing
MEASUREMENT ZERO	Kelly Bushing
SAMPLES AND DRILLING TIME TOGGED	1800' to T.D.
OTHER LOGS	Gas Detector and Log-Tech Density Neutron and Dual Induction

## GEOLOGICAL FORMATION TOPS

Formation	Drilling Time Depth	Electric Log Depth	Sub-Sea Depth Electric Log
Brownville	2004	2006	- 273
Tarkio	2168	2168	-435
Topeka	2479	N/A	-746
Heebner	2755	2754	-1021
Brown	2878	2880	-1147
Lansing	2905	2908	-1175
Simpson	3256	3257	-1524
Arbuckle	3280	3278	-1545

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INTERVALS OF INTEREST, ELECTRIC LOG

## BROWNVILLE

2008-14

White oolitic limestone, (gas detector was not operating.)  
Electric logs indicate gas – and 20% porosity.

## SIMPSON

Clear, fine grained sand, with light stain and trace of free  
Oil. Gas detector logged 20 units. Electric logs –  
Calculated 16% porosity.

## ARBUCKLE

3278 – 3320

White medium crystalline dolomite.  
No gas logged on the detector.  
Electric log porosity – 12%.  
No shows in the samples.

## DRILL STEM TEST NO. 1

3230 – 3270

Packer failed – Mis-run.

## DRILL STEM TEST NO. 2 Straddle Test

3225 – 3282

Test covered Simpson Sand and upper 4 feet of Arbuckle.

## Testing Time Periods

Open 30 min. – closed 30 min.

Open 30 min. – closed 30 min.

There was a strong blow thru out.

The recovery was 2295' of muddy water pressures

I..F.P. 447/883

F.F.P. 885/1040

I.C.I.P. 1040

F.C.I.P. 1096

## SUMMARY

STRUCTURAL COMPARISON	THIS WELL	KERN NO. 2 Simpson Sand well 3/8 mile South
Lansing	-1175	-1160
Simpson Sand	-1524	-1517
Arbuckle	-1545	-1535

The formations were structurally lower than oil producers in the field. Casing was set to test the gas show indicated by the gas detector in the Brownville limestone. This show ~~correlates~~ with a good gas show, logged in a cable tool well drilled in 1930, approximately 1/4 mile Southeast.

REPORTED BY

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