

6-12-22E

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GEOLOGICAL REPORT

John P. Jennings

#1 Dove

SE-NE-NE Sec. 6-12S-22E

Leavenworth County, Kansas

Elevations: GL 982
KB 987
Measurements from KB

Contractor: Brandt Drilling Company

Spud: 1/3/80

Completed: 1/9/80

RTD/LTD: 1879/1875(1877 1/2)-LTD was 2 1/2 feet
off bottom, log was run through drill pipe.

Surface Casing: 8 5/8" @ 150'

Hole Size: 7 7/8" from 150' to TD

Mud up: 600'

Drill time: 1' drill time from 150' to TD

Samples: 10' samples from 150' to TD

Geological supervision: 150' to TD

Drill Stem Tests: One-Halliburton

Electric Log Surveys: Johnson Jet-Gamma Ray-Neutron

Mud Service: Fud Mud

Bits Run: 150-975 FP 52J
975-1539 S 86F
1539-1879 FP 52J

Sample Quality: 150-800 poor
800-1100 fair
1100-1879 good

Pipe Strapped: 975-Strap was 1/2' short to board

MORNING DRILLING REPORTS:

1/4 240, drilling
 1/5 975, conditioning hole for DST #1
 1/6 1165, drilling
 1/7 1479, drilling
 1/8 1539, coming out of hole with fish; twisted off 3 1/2 joints
 above drill collars at 1:06 p.m., 1/7/80
 1/9 1710, drilling

FORMATION TOPS:

Formation	Jennings #1 Dove		Roxana #1 Fisher		Relation of Jennings to Roxana Well
	SE-NE-NE 6-12S-22E		CNL-SE-NE 19-11S-22E		
	Sample	E-Log	Tops estimated from drillers logs		
Base Kansas City	448	450 (+537)	345	(+535)	+2
Cherokee	708	707 (+280)	576	(+304) ?	-24 ?
U. Squirrel SS	716	724 (+263)	625	(+255) ?	+8 ?
L. Squirrel SS	760	741 (+246)			
Conglomerate	1133	1140 (-153)			
Mississippi	1154	1150 (-163)	1062	(-183)	+20
Kinderhook	1560	1560 (-573)	1445	(-565)	-8
Hunton	1607	1607 (-620)	1490	(-610)	-10
Viola	1689	1686 (-699)		?	
Simpson SS	1793	1794 (-807)			
Arbuckle	1854	1840 (-853)			
Total Depth	1879	1877 1/2	1630		

SHOWS AND DRILL STEM TESTS:

U. Squirrel SS

Smp1 716-40

E-Log 724-30

Sandstone, light tan, fine-grained, quartzose, minor silica cement, fair to good intergranular porosity, show of gas (bubbles), good fluorescence, very slight show of free oil in lower part.

This interval was not tested as it was depleted by gas field development in the 1920's.

L. Squirrel SS

Smp1 760-85

E-Log 741-62

Sandstone, gray to tan, fine-grained, quartzose, micaceous, carbonaceous material, slightly shaley, fair intergranular porosity, fair show of free oil, fair fluorescence, fair cut; shalier towards base.

Sandstone

Smp1 785-816

E-Log 788-813

Interbedded sandstone and shale. Sandstone is as above with similar show. Shale is gray, micaceous, sandy. (E-log indicated sandstone for this entire interval)

DST #1 740-819 (straddle test-156' of tail pipe)
 30-30-45-60

Strong blow throughout

Gas to surface on second open, too small to measure

Recovered 300' gas cut mud

Flow pressures: 15-114, 103-279
Shut in pressures: 197-207
Hydrostatic pressures: 337-394

There were no other shows of free oil or gas.

WELL STATUS

The only shows of free oil or gas in this well were in the Squirrel Sandstone section. The Upper Squirrel Sandstone (724-30) had a show of gas but was not tested because it is a depleted gas reservoir. Other sandstones (741-62 and 788-813) had shows of oil and were tested, recovering noncommercial quantities of gas.

No commercial quantities of oil or gas were found in the John P. Jennings Dove #1. All rights to the well were given to the landowner, Mr. Dove, by the operator, Mr. Jennings. A completion attempt will be made in the Squirrel Sandstones by the landowner for his personal use.

Respectfully submitted,

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