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15-007-21627

26-31-15W

State Geological Survey
WICHITA BRANCH

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GEOLOGICAL REPORT

LUFF EXPLORATION COMPANY

L-26 BRAY

C NW SW Sec 26-31S-15W
BARBER COUNTY, KANSAS

26-31-15W^{PL}



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GEOLOGICAL REPORT

Luff Exploration Company
L-26 Bray
C NW SW Sec 26-31S-15W
BARBER COUNTY, KANSAS

760FNL +
660FWL, SW/4

ELEVATIONS: 1896 Kelly Bushing
1884 Ground Level

CONTRACTOR: H-30 Drilling, Inc., Rig #77

COMMENCED: July 2, 1983
COMPLETED: July 16, 1983

ROTARY TOTAL DEPTH: 4850 feet
LOGGED TOTAL DEPTH: 4852 feet

SURFACE PIPE: 13 Jts new 8 5/8" 24#, tally 524.86,
€ 537' w/200 sx Lite & 100 sx Class H,
3% cc, 2% Gel, Cement did circ. plug
down € 1515, 7-2-83.

PRODUCTION PIPE: D & A

LOGS: Welex
1. DIGL
2. DSH-DEN
3. CAL

DAILY PENETRATION RATE:

July 3, 1983	0700	885 feet, Drlg.
July 4, 1983	"	1575 feet, Drlg.
July 5, 1983	"	2470 feet, Drlg.
July 6, 1983	"	2875 feet, Drlg.
July 7, 1983	"	3515 feet, Drlg.
July 8, 1983	"	3920 feet, Swivel Repair
July 9, 1983	"	4045 feet, Drlg.
July 10, 1983	"	4457 feet, Drlg.

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July 11, 1983	0700	4621 feet, DST #1
July 12, 1983	"	4621 feet, Draw Works Repair
July 13, 1983	"	4621 feet, Draw Works Repair
July 14, 1983	"	4720 feet, CFS
July 15, 1983	"	4850 feet, Trip out for Logs
July 16, 1983	"	4850 feet, F & A

REMARKS:

All measurements are from Kelly Bushing (1896). RTD was 4850, ITD was 4852 (-2956).

One foot drilling time was plotted from 3800 to TD. Thirty foot samples were saved from 1200 to 3000 and ten foot samples were saved from 3000 to TD.

One drill stem test was taken, that covering the Marmaton.

Circulation was lost while drilling at 4085.

FORMATIONS:

The following are the depths and datums of formation tops encountered as determined by sample and electrical/nuclear log analysis.

<u>Formation</u>	<u>Sample</u>	<u>Log</u>	<u>Datum</u>
Chase	-	2247	- 351
Council Grove	-	2605	- 709
Cnaga Shale	-	3036	-1140
Howard	-	3474	-1578
Heebner	3952	3954	-2058
Lansing	4113	4115	-2219
Base/Kansas City	4566	4571	-2675
Marmaton	4590	4592	-2696
Cherokee Shale	4658	4663	-2767
Rew, Mississippian	4747	4751	-2855
Sol. Mississippian	4758	4762	-2866
Kinderhook Shale	4800	4803	-2907
TD	4850	4852	-2956

DRILL STEM TESTS:

A geological log is included with this report and is considered a part of it. Refer to it for sample descriptions. The following are drill stem test results.

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Marmaton

DST NO. 1
4550-4621 feet

Open 15 minutes, very weak blow died in 10 minutes. Shut-in 60 minutes. Open 90 minutes, intermittent very weak blow through-out. Shut-in 120 minutes. Recovered 20' very slightly oil cut mud.

Initial Hydrostatic Head 2292 psi
Initial Flow Pressure 52-31 psi
Initial Shut-in Pressure 72 psi
Final Flow Pressure 52-52 psi
Final Shut-in Pressure 62 psi
Final Hydrostatic Head 2240 psi
Temperature 126°

RECOMMENDATIONS AND CONCLUSIONS:

The following is a structural comparison of the L-26 Bray to the NCKA No. 1 Skinner, C NW NW Sec 35-31S-15W.

<u>Formation</u>	<u>L-26 Bray</u>	<u>No. 1 Skinner</u>
Heebner	-2058	-2049
Lansing	-2219	-2230
Base/Kansas City	-2675	-2662
Marmaton	-2696	-2684
Cherokee Shale	-2767	-2747
Rew. Mississippian	-2855	--
Sol. Mississippian	-2866	-2750
Kinderhook Shale	-2907	--
TD	-2956	-2800

At a rotary total depth of 4850, the L-26 Bray was logged by Welox. Due to low structural position, lack of zone development, and lack of shows, it was recommended that this test be plugged and abandoned.

Respectfully submitted,

Raymond E. Palmer

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August 20, 1983