

15-101-21916 24-195-29W

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KCC  
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CONFIDENTIAL

**GEOLOGICAL REPORT**

RECEIVED  
KANSAS CORPORATION COMMISSION  
JUL 25 2006  
CONSERVATION DIVISION  
WICHITA, KS

Larson Operating Company  
Perkins-Martin No. 1-24  
2500' FSL & 1310 FNL Sec. 24-19S-29W  
Lane County, Kansas

CONTRACTOR: Berentz Drilling Company Rig #6

SPUDDED: March 30, 2006

DRILLING COMPLETED: April 10, 2006

SURFACE CASING: 8 5/8" @ 256' KBM/170 sx.

ELECTRIC LOGS: Log-Tech, DIL, BHCS, CNL, CDL, MEL,

ELEVATIONS: 2806 KB 2801 GL

**FORMATION TOPS (Electric Log)**

Anhydrite	2144 (+ 662)
Base Anhydrite	2173 (+ 633)
Heebner Shale	3965 (-1159)
Toronto Limestone	3980 (-1174)
Lansing-Kansas City Group	4007 (-1201)
Muncie Creek Shale	4184 (-1378)
Stark Shale	4291 (-1485)
Hushpuckney Shale	4331 (-1525)
Base Kansas City	4374 (-1568)
Marmaton	4398 (-1592)
Altamont	4420 (-1614)
Altamont "B"	4452 (-1646)
Pawnee	4493 (-1687)
Myrick Station	4514 (-1708)
Fort Scott	4543 (-1737)
Cherokee	4565 (-1759)
Johnson Zone	4603 (-1797)
Mississippian	4649 (-1843)
Electric Log Total Depth	4696 (-1890)

Samples were examined microscopically from 3900 feet to rotary total depth. Samples were examined wet and dry and all zones exhibiting shows of oil or gas were examined under a fluoroscope and checked for oil cut. Zones exhibiting shows of oil or gas were drill stem tested where such shows and the attending porosity were of sufficient quality to warrant testing. Following is a description of zones of interest, shows of oil, drill stem tests, etc.

Lansing-Kansas City Zones:

4015-4024 (A Zone)

Limestone, buff to tan, dense to finely crystalline, zone is mostly tight with no shows of oil, some white to light gray, opaque chert. Lower portion has some Limestone, cream to buff, finely crystalline and slightly fossiliferous with trace of very poor intercrystalline porosity, no show of oil, much gray, opaque chert as above.

4048-4052 (B Zone)

Limestone, buff, some tan, finely crystalline, and slightly fossiliferous, some cherty, trace of very poor intercrystalline porosity, no show of oil.

4068-4074 (C/D Zone)

Limestone, cream to buff, finely crystalline and chalky, some soft and friable, scattered poor intercrystalline porosity, no show of oil.

4093-4098 (E Zone)

Limestone, buff, dense to finely crystalline and chalky, scattered very poor intercrystalline porosity, no show of oil.

4100-4107 (F Zone)

Limestone, buff to tan, dense to finely crystalline, scattered poor vugular porosity with poor intercrystalline porosity, trace of dead oil stain, no show of live oil.

4128-4143 (G Zone)

Limestone, buff, finely crystalline and oolitic, fair to good ooliticastic porosity, trace of dead oil stain, no show of live oil.

4209-4213 (H Zone)

Limestone, buff to tan, some brown, trace of mottled, zone mostly tight, no show of oil.

4237-4240 (I Zone)

Limestone, buff, finely crystalline to dense, much cream chalky, zone appears mostly tight with trace of scattered poor “edge” porosity with trace of very poor vugular porosity, no show of oil.

4263-4280 (J Zone)

Limestone, buff, finely crystalline and oolitic, poor ooliticastic porosity, some poor intercrystalline porosity, porosity is 99% barren with two or three pieces with poor spotted stain, faint, fleeting odor, no fluorescence, no cut.

4300-4306 (K Zone)

Limestone, buff, dense to finely crystalline, some cream chalky, scattered poor intercrystalline porosity, no show of oil.

4334-4338 (Middle Creek Zone)

Limestone, buff, dense to finely crystalline, partly chalky, zone is mostly tight, no show of oil.

4346-4349 (L Zone)

Limestone, buff to tan, dense to finely crystalline and chalky, scattered poor intercrystalline porosity, some poor vugular porosity, no show of oil.

Pleasanton Zones:

4376-4391

Limestone, buff, dense to finely crystalline, scattered poor to fair intercrystalline porosity, fractured with fair to good spotted stain on fractured faces, fair odor, slight to fair show of free oil, trace of fluorescence, fair cut, some “edge” porosity with fair spotted stain.

Marmaton Zones:

4398-4406

Limestone, buff to tan, dense to finely crystalline, scattered fair vugular porosity, trace of scattered fair spotted stain, very slight show of free oil, faint odor, trace of “edge” porosity with poor spotted stain, trace of fluorescence, fair cut.

Altamont Zones:

4420-4422

Limestone, buff to tan, dense to finely crystalline, slightly fossiliferous, fair vugular porosity, fair scattered light spotted stain, slight show of free oil, some "edge" porosity with fair stain, fair odor, trace of fluorescence, poor to fair cut.

Drill Stem Test No. 1                      4370-4440 (depths should be corrected uphole 4 feet).  
Open 15 minutes; shut in 30 minutes; open 30 minutes; shut in 60 minutes; weak surface blow throughout first flow period, blow did not return on second flow period; recovered 30 feet of drilling mud; ISIP 131# FSIP 205# IFP 30-31# FFP 31-32# IHP 2253#  
FHP 2126# BHT 118 degrees F

Altamont "B" Zones:

4452-4453

Limestone, buff to tan, dense, some finely crystalline, zone is mostly tight with a trace of dead oil stain, no shows of live oil.

The lower portion of the Altamont "B" consisted of limestone, buff to tan, dense to finely crystalline with cream chalky, trace of poor to very poor intercrystalline porosity, no show of oil.

Pawnee Zones:

4494-4496

The upper portion of the Pawnee section consisted of limestone, buff to tan, some brown, dense to sub-lithographic, partly fossiliferous, some finely crystalline, mostly tight, no show of oil.

4514-4535

The lower Pawnee (Myrick Station) consisted of limestone, buff to tan, dense to finely crystalline, tight, no show of oil.

Fort Scott Zones:

4543-4554

Limestone, brown, dense, some dense oolitic with dark oolites, zone is mostly tight with no shows of oil.

4558-4565

Limestone, tan to brown, dense, no visible porosity and no show of oil.

Cherokee Zones:

4565-4603

The Cherokee section above the Johnson zone consisted of tan to brown to mottled, dense to sub-lithographic limestones. No visible porosity was observed in the section and no shows of oil were present.

Johnson Zone:

4603-4618

Limestone, tan to brown, dense to finely crystalline, mostly tight with some scattered poor intercrystalline porosity with trace of light spotted stain, no odor, very slight show of free oil, no fluorescence, and no cut.

Mississippian Zones:

4649-4675

Limestone, buff to tan, finely crystalline and chalky, some friable and soft, fossiliferous in part, mostly tight with no shows of oil.

4682-4696

Dolomite, buff to tan, finely crystalline, poor to fair scattered vugular and intercrystalline porosity with some kaolinite infilling, no shows of oil.

Recommendations:

Sample examination, drill stem testing, and electric logging revealed no zones capable of commercial production of oil or gas. It was recommended that the Perkins-Martin No. 1-24 be plugged and abandoned.

Respectfully submitted,

Robert C. Lewellyn  
Petroleum Geologist

RCL:me

STATE <b>KANSAS</b>		COMPANY <b>LARSON OPERATING CO.</b>	
COUNTY <b>NESS</b>	FARM <b>PERKINS-MARTIN 1-24</b>	WELL NO. <b>2500 FSL &amp; 1310 FEL</b>	
BLOCK	SURVEY		
SEC. <b>24</b>			
T <b>195</b>	R. <b>29 W</b>	TOTAL DEPTH <b>4700</b>	
CONTRACTOR <b>BERENTZ DRILLING #2</b>		COMMENCED <b>3-30-06</b>	
COMPLETED <b>4-10-06</b>		REMARKS	
ALTITUDE <b>2806 KB</b>		PRODUCTION <b>DFA</b>	
REMARKS <b>Robert C. Lewellyn - Geol</b>			

# CASING RECORD

**8 5/8" @ 256' KBM/170 SX**

SHOT QUARTS BETWEEN

TIME RATE SCALE: 1 1/10" = MINUTES

450-A TULSA OKLAHOMA 74101 PRINTED IN U.S.A.











