



ORIGINAL

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GEOLOGICAL REPORT

BEREXCO INC. Diane #1-35

C SE/4 SW/4 SW/4 Sec. 35-28s-33w

Haskell County, Kansas

Spud date: 9-17-93

Drilling completed: 9-27-93

Elevations: 2967 KB

2965 DF

2955 GL

Comparison well: BEREXCO INC. Dennis #3-2  
SE/4 NW/4 NW/4 Sec. 2-29s-33w  
(Producing well 1/4 mile south)

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<u>Formation</u>	<u>Sample Top</u>	<u>E-Log Top</u>	<u>Datum</u>	<u>Compared to Dennis #3-2</u>
Base/Heebner	4118	4108	(-1141)	4' high
Toronto	4130	4120	(-1153)	3' high
Lansing	4161	4150	(-1183)	7' high
Lansing "B"	4205	4194	(-1227)	10' high
Lansing "C"	4260	4248	(-1281)	5' high
Lansing "D"	4286	4272	(-1305)	14' high
Lansing "E"	4334	4320	(-1353)	6' high
Lansing "F"	4368	4359	(-1392)	7' high
Lansing "G"	4447	4438	(-1471)	2' high
Lansing "H"	4485	4476	(-1509)	2' high
Lansing "I"	4531	4526	(-1559)	7' high
Kansas City "A"	4621	4612	(-1645)	9' high
Kansas City "B"	4682	4674	(-1707)	6' high
Kansas City "C"	4725	4714	(-1745)	14' high
BKC	4754	4758	(-1791)	9' high
Marmaton	4775	4770	(-1803)	4' high
Pawnee	4894	4883	(-1916)	8' high
Fort Scott	4922	4914	(-1947)	7' high
Cherokee	4934	9247	(-1957)	8' high
Morrow	5260	5251	(-2284)	13' high
Chester	5419	5406	(-2439)	13' high
St. Genevieve	5486	5475	(-2508)	20' high
St. Louis	5570	5560	(-2593)	12' high
TD	5750	5738	(-2771)	--

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**Zones of Interest and DST's**

(All measurements corrected to E-log measurements)

**Toronto 4132 - 4138**

Limestone, white, finely crystalline, fossiliferous, oolitic, chalky, good weathered pinpoint vuggy porosity. No show.

**Lansing "B" 4195 - 4208**

Limestone, finely crystalline, white to buff, dolomitic, very fossiliferous with abundant brecciated fusulinids, good intercrystal and interfossil porosity. No show.

**Lansing "D" 4278 - 4298**

Dolomite, light brown, finely crystalline, oolitic, oomoldic with variesized lined and unlined molds, good oomoldic porosity. No show.

**Lansing "F" 4360 - 4380**

Dolomite, light brown, finely crystalline, oomoldic with large unlined molds, excellent intercrystal and oomoldic porosity. No show.

**Lansing "G" 4438 - 4450**

Dolomite, buff, finely crystalline, clastic, sandy, oolitic, oomoldic with medium lined molds, good intercrystal and oomoldic porosity. No show.

**Lansing "H" 4476 - 4485**

Dolomite, light brown, finely crystalline, oomoldic, good intercrystal and oomoldic porosity. No show.

**Lansing "I" 4526 - 4538**

Limestone, gray, finely crystalline, gritty, clastic, weathered, oomoldic, good oomoldic and weathered vuggy porosity. No show.

**Kansas City "A" 4620 - 4636**

Limestone, light brown, finely crystalline, clastic, oolitic, oomoldic, good to excellent intercrystal porosity, excellent oomoldic porosity. No show.

**Kansas City "C" 4722 - 4728**

Dolomite, light buff, finely crystalline, fossiliferous, oolitic, oomoldic, clastic, good interfragment, interfossil, interoolitic and oomoldic porosity. No show.

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**Marmaton 4824 - 4833**

Limestone, brown, very finely crystalline, very fossiliferous with abundant brecciated brachiopods, fair interfossil and interfragment porosity. No show.

**Pawnee 4888 - 4896**

Limestone, white, very finely crystalline, chalky, clastic, fossiliferous, oolitic, oomoldic, good interfossil and interoolitic porosity.

**Morrow 5359 - 5366**

Limestone conglomerate, brown, very finely crystalline with abundant brecciated fossils, abundant variegated angular quartz fragments, very soft, glauconitic, poor to fair interfossil porosity. No show.

**Morrow 5372 - 5386**

Sand, clear, fine grained, calcareous, angular, clean, well sorted, poor to fair to scattered good intergrain porosity; even light to dark brown stain, greasy lustre, good show of free oil, no odor, very faint lemon yellow fluorescence, flush cut. 234 unit gas increase.

**Drill Stem Test #1 5355 - 5375 (Morrow)**

Misrun, packer failed 2 minutes. Recovered 120 feet of oil cut mud at the base of the pipe string.

**Drill Stem Test #2 5358 - 5375 (Morrow)**

Tool open 75 minutes.

Strong blow first opening, gas to surface 20 minutes into the initial shut-in period.

Gauged	20.7	mcf	gpd	10	minutes	into	2nd	opening
	20.7	"	"	20	"	"	"	"
	19.5	"	"	30	"	"	"	"
	14.5	"	"	40	"	"	"	"
	12.7	"	"	50	"	"	"	"
	12.7	"	"	60	"	"	"	"

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Recovered: 1644 feet of clean gassy oil  
90 feet of oil and gas cut mud (30% oil)

IFP	130-148	15"
ISIP	1434	30"
FFP	207-405	60"
FSIP	1434	120"
HH	2662/2613	
BHT	139 degrees	

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St. Louis "C" 5574 - 5580

Limestone, white, very finely crystalline, oolitic with very small uniform oolites in a white mudstone matrix, fair interoolitic porosity. No show.

**Remarks and Recommendations**

It was recommended that 5-1/2" production casing be set near bottom and that the well be further tested.

Charles B. Spradlin  
October 1, 1993

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