



35-28s-33w

ORIGINAL

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GEOLOGIST

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API #15-081-20827

GEOLOGICAL REPORT

BEREXCO INC. Diane #3-35

100' north of C NE/4 SE/4 SW/4 Sec. 35-28s-33w

Haskell County, Kansas

Spud date: 12-21-93

Drilling completed: 12-29-93

Elevations: 2964 KB
2962 DF
2952 GL

Comparison well: BEREXCO INC. Diane #1-35
C SE/4 SW/4 SW/4 Sec. 35-28s-33w
(Producing well 1660' southwest)

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<u>Formation</u>	<u>Sample Top</u>	<u>E-Log Top</u>	<u>Datum</u>	<u>Compared to Diane #1-35</u>
Base/Heebner	4110	4111	(-1147)	6' low
Toronto	4122	4122	(-1158)	5' low
Lansing	4152	4152	(-1188)	5' low
Lansing "B"	4196	4195	(-1231)	4' low
Lansing "D"	4274	4272	(-1308)	3' low
Lansing "F"	4360	4361	(-1397)	5' low
Lansing "G"	4440	4440	(-1476)	5' low
Lansing "H"	4476	4476	(-1512)	3' low
Lansing "I"	4526	4526	(-1562)	3' low
Kansas City "A"	4622	4622	(-1658)	13' low
Kansas City "B"	4682	4682	(-1718)	11' low
Kansas City "C"	4722	4724	(-1760)	15' low
BKC	4758	4755	(-1791)	flat
Marmaton	4771	4775	(-1811)	8' low
Pawnee	4888	4886	(-1922)	6' low
Fort Scott	4922	4921	(-1947)	flat
Cherokee	4932	4930	(-1956)	1' high
Morrow	5248	5247	(-2283)	1' high
Chester	5414	5397	(-2433)	6' high
St. Genevieve	5486	5486	(-2522)	14' low
St. Louis	5573	5574	(-2610)	17' low
TD	5750	5746	(-2782)	--

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Zones of Interest and DST's
(All measurements corrected to E-log measurements)

Lansing "B" 4196 - 4212

Limestone, white, very finely crystalline, very fossiliferous with abundant brecciated fossils, very chalky, very soft, good interfossil porosity. No show.

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Lansing "D" 4284 - 4300

Dolomite, buff to brown, finely crystalline, micro-oomoldic, good intercrystal, oomoldic and vuggy porosity. No show.

Lansing "F" 4362 - 4382

Dolomite, white to buff, finely crystalline, oomoldic with big lined and unlined molds, excellent intercrystal and oomoldic porosity. No show.

Lansing "G" 4440 - 4452

Dolomite, buff, finely crystalline, oomoldic with variesized lined and unlined molds, good intercrystal and oomoldic porosity. No show.

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Lansing "H" 4482 - 4492

Dolomite, light brown, finely crystalline, micro-oomoldic, weathered, chalky, incompetent, good intercrystal and oomoldic porosity. No show.

Lansing "I" 4560 - 4576

Limestone, gray, finely crystalline, clastic, oomoldic with big unlined molds, good interfragment, intercrystal and oomoldic porosity. No show.

Kansas City "A" 4630 - 4648

Limestone, light buff to brown, finely crystalline, oolitic with small thinly coated oolites, oomoldic with small lined and unlined molds, fossiliferous, good interoolitic, oomoldic and fossilmold porosity. No show.

Kansas City "B" 4692 - 4700

Limestone, gray, very finely crystalline, oolitic, slightly oomoldic, fair to good interoolitic porosity, scattered good oomoldic porosity. No show.

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Pawnee 4892 - 4898

Limestone, white, very finely crystalline, clastic, fossiliferous, oolitic, slightly oomoldic, poor interoolitic and oomoldic porosity. No show.

Morrow 5256 - 5266

Shale, black, very pyritic.

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Morrow 5266 - 5294

Shale, gray to black with abundant limestone

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Morrow 5294 - 5310

Shale, gray, sporaceous.

Morrow 5310 - 5319

Limestone, white, very finely crystalline, arenaceous, very glauconitic, fossiliferous with abundant crinoid fragments, very hard, very tight; dark brown dead staining on a few pieces only. No other show.

Morrow 5319 - 5340

Shale, light green, silty, pyritic.

Morrow 5340 - 5344

Limestone, white, very finely crystalline, fossiliferous, very tight, no show.

Morrow 5344 - 5358

Shale, gray to black, calcareous, fossiliferous with abundant brecciated fossils.

Morrow 5358 - 5364

Limestone, gray, very finely crystalline, fossiliferous with fragments of coral, ostracods, brachiopod valves, fish fins, very tight. No show.

Morrow 5364 - 5370

Shale, dark gray to black, calcareous.

Morrow 5370 - 5375

Sand, clear, fine to medium grained, angular to sub-angular, ill sorted, calcareous, slightly micaceous, compact but easily crushed, poor to fair intergrain porosity; even dark brown stain,

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good show of free oil, faint odor, dull gold fluorescence, flush cut. 53 unit gas increase.

Morrow 5375 - 5396

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Shale, gray, clean, smooth.

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Drill Stem Test #1 5342 - 5386 (Morrow)

Tool open 135 minutes.

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Gas to surface 70 minutes into second opening, TSTM.

Recovered: 1150 feet of muddy gassy oil

IFP	176-176	15"
ISIP	1121	30"
FFP	203-350	120"
FSIP	1297	120"
HH	2593/2554	
BHT	126 degrees	

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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
January 11, 1994