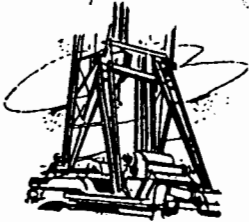


20-23s-32w

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316-683-9026

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GEOLOGICAL REPORT
BEREXCO INC. R.L. Walker #9-20
C NW/4 SW/4 Sec. 20-23s-32w -
Finney County, Kansas

API #15-055-21257

AUG 6 1996

Spud date: 11-27-93
Drilling completed: 12-5-93

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Elevations: 2854 KB
2852 DF
2842 GL

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Comparison well: BEREXCO INC. R.L. Walker #5-20
C SE/4 SW/4 Sec. 20-23s-32w
(Producing well 2800' southeast)

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Formation	Sample Top	E-Log Top	Datum	Compared to R.L. Walker #5-20
Base/Heebner	3823	3822	(-968)	3' low
Toronto	3833	3834	(-980)	5' low
Lansing	3878	3880	(-1026)	1' low
Lansing "B"	3903	3909	(-1050)	7' low
Lansing "C"	3934	3932	(-1078)	1' high
Lansing "D"	3982	3980	(-1126)	1' low
Lansing "E"	4010	4008	(-1154)	3' high
Lansing "F"	4044	4040	(-1186)	1' high
Lansing "G"	4094	4094	(-1240)	3' low
Lansing "H"	4124	4124	(-1270)	2' low
Lansing "I"	4148	4146	(-1292)	5' high
Kansas City "A"	4222	4220	(-1366)	2' high
Kansas City "B"	4263	4260	(-1406)	2' high
Kansas City "C"	4313	4312	(-1458)	4' low
BKC	4360	4358	(-1504)	1' high
Marmaton	4388	4384	(-1530)	1' high
Pawnee	4458	4460	(-1604)	1' high
Fort Scott	4494	4490	(-1636)	2' high
Cherokee	4507	4503	(-1649)	2' high
Morrow	4679	4682	(-1828)	9' low
Mississippian	4743	4733	(-1879)	--
St. Louis "C"	4793	4788	(-1934)	7' high
TD	4900	4896	(-2042)	--

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

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Toronto 3836 - 3846

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Dolomite, white, fine to medium crystalline, very fossiliferous with abundant brecciated fusulinids, good interfossil and intercrystal porosity. No show.

Lansing "B" 3905 - 3924

Dolomite, buff, fine to medium crystalline, fossiliferous, weathered, good interfossil and weathered vuggy porosity. No show.

Lansing "D" 3980 - 3992

Limestone, white, finely crystalline, fossiliferous, weathered, good intercrystal and weathered vuggy porosity. No show.

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Lansing "E" 4012 - 4022

Dolomite, white to buff, finely crystalline, oomoldic with uniform medium sized unlined molds, excellent intercrystal and oomoldic porosity. No show.

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Lansing "F" 4045 - 4054

Dolomite, light buff, very fine to finely crystalline, oolitic with thin shelled oolites, oomoldic with medium to large lined molds, excellent intercrystal, interoolitic and oomoldic porosity. No show.

Lansing "G" 4094 - 4100

Limestone, buff, finely crystalline, fossiliferous, oolitic, oomoldic, good interfossil, interoolitic and oomoldic porosity. No show.

Lansing "H" 4130 - 4138

Limestone, gray, very fine to finely crystalline, chalky, fossiliferous, oolitic with variesized thin coated oolites, good interoolitic porosity. No show.

Lansing "I" 4148 - 4158

Dolomite, buff to brown, finely crystalline, oomoldic with uniform small lined molds, excellent intercrystal and oomoldic porosity. No show.

Lansing "I" 4174 - 4198

Dolomite, light buff, finely crystalline, clastic, fossiliferous,

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oolitic with thinly coated oolites and thinly lined molds, good interoolitic and oomoldic porosity; slight discolor on a few pieces only, no other show.

Kansas City "A" 4230 - 4236

Dolomite, light brown, very finely crystalline, fossiliferous, oomoldic, chalky, good interfossil and oomoldic porosity. No show.

Kansas City "C" 4312 - 4332

Dolomite, light brown, very finely crystalline, fossiliferous, chalky, oomoldic with variesized unlined molds, good jagged oomoldic porosity. No show.

Marmaton 4440 - 4444

Limestone, white, very fine to finely crystalline, gritty, fossiliferous, clastic, good intercrystal porosity. No show.

Pawnee 4462 - 4474

Limestone, snow white, dolomitic, finely crystalline, fossiliferous, clastic, good intercrystal and interfossil porosity. No show.

Atoka 4601 - 4609

Limestone, brown, finely crystalline, fossiliferous, clastic, gritty, fair to good intercrystal and interfossil porosity; dark brown stain, fair show of free oil, good odor, no fluorescence or cut. 46 unit gas increase.

Morrow 4720 - 4730

Sand, clear, fine to medium grained, sub-rounded to well rounded, mostly clean, slightly pyritic, slightly calcareous, soft and friable, good intergrain porosity; even light brown stain, good show of free oil, no odor, faint lemon yellow fluorescence, flush cut. 16 unit gas increase.

Drill Stem Test #1 4674 - 4750 (Morrow)

Tool open 75 minutes.

Recovered: 510 feet of gas in pipe
480 feet of gassy oil cut mud

IFP	104-135	15"
ISIP	270	30"
FFP	207-240	60"
FSIP	291	120"
HH	2273/2253	
BHT	123 degrees	

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Mississippian 4734 - 4750

Limestone, white, very finely crystalline, arenaceous with clear, fair to medium grained sand inclusions, chalky, oolitic, poor to fair sand mold porosity; scattered light brown staining, no other show.

St. Louis 4790 - 4804

Limestone, snow white, very finely crystalline, polished lustre, siliceous, clastic with angular quartz inclusions, fossiliferous with abundant brecciated fossils, oolitic, poor to fair interoolitic and interfragment porosity; fair to good weathered vuggy porosity; spotted to even light brown stain, good show of free oil, mild odor, faint golden fluorescence, flush cut. 48 unit gas increase.

Drill Stem Test #2 4789 - 4807 (St. Louis "C")
Tool open 75 minutes.

Recovered: 40 feet of mud, very slight show of oil in the tool

IFP	31-41	15"
ISIP	859	30"
FFP	62-62	60"
FSIP	889	120"
HH	2343/2333	
BHT	125 degrees	

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
December 7, 1993

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