

ORIGINAL

KCC

JAN 15

CONFIDENTIAL

Geological Report
BEREXCO INC.
#2-30 Stonestreet
4290 FSL & 2970 FEL
Sec. 30-T31S-R32W
Seward County, Kansas

15-175-21574

CONFIDENTIAL

Spud Date: 10/27/96
Comp Date: 11/9/96
Report Date: 11/12/96

Tops:

BEREXCO INC.
#2-30 Stonestreet
4290 FSL & 2970 FEL
Sec. 30-T31S-R32W
KB 2879

BEREXCO INC.
#1-30 Stonestreet
S/2 SW SW
Sec. 30-T31S-R32W
KB 2875

	Sample	Log	Log
Base Heebner	4182	4180 - 1301	4219 - 1344
Toronto	4190	4189 - 1310	4229 - 1354
Lansing Fm	4283	4281 - 1402	4322 - 1447
Marmaton	4901	4898 - 2019	4930 - 2055
Pawnee	5029	5028 - 2149	5051 - 2176
Ft. Scott	5070	5067 - 2188	5090 - 2216
Cherokee Fm.	5092	5088 - 2209	5110 - 2235
Atoka	5302	5298 - 2419	5322 - 2447
Morrow Fm	5413	5420 - 2541	5433 - 2558
Chester	5548	5544 - 2665	5598 - 2723
St. Genevieve	5712	5679 - 2800	5729 - 2854
St. Louis	5740	5745 - 2866	5753 - 2878
TD	5930	5929 - --	5982 - --

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Sample and Gas Shows of Significance and DST's:

Toronto:

4198 - 4209 and 4212 - 4223

Lm. abn. wht. to crm. - chlk. & lt. tan to tan; v. v. fn. to v. fn. xln.; sub-sucro to sucro; dull lt. to abn. lt. yel. fluor.; no cut abn. poor micro - p.p. por

No Gas Increases

Lansing Fm.:

4282 - 4300

Lm. lt. tan w/tan oil stn. IP's; v. faint oil oder; v. fn. to fn. xln.; sub-sucro to sucro trs. foss. abn. pale lt. grnish yel. fluor to yel. fluor; flush to gd. strming cuts abn. pr. to fr. w/trs. gd. micro - p.p. to interxln. porosity

Gas Increase

4282 - 4290

57 Total - 8 BG = 49 U. Increase

14 - C₁; 10 - C₂; 3 - C₃

DST #1 Lansing Fm. 4286 - 4298 Straddle

I.O. weak surface blow

F.O. no blow

Rec: 120 wtry mud, chl 12000 ppm
pit Chl 2800 ppm

IHP 2081#

IFP 31 - 31# in 30 min

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ISIP 1181# in 60 min
FFP 52 - 52# in 30 min
FSIP 1150# in 60 min
FHP 2049#

4304 - 4320

Lm. tan.; v. v. fn. xln.; sub-sucro to sucro; dul lt. yel mineral fluor w/trs. lt. grnish
yel. fluor w/flush to gd. strming cut; poss. from above; abn. pr. to trs. fr. to gd.
micro - p.p. to interxln. por

No Gas Increase

4327 - 4338

Lm. abn. crm. - chlk & tan; crypto. to v. fn. xln.; sub-chlk, sub-sucro & packstn.;
abn. foss; dul lt. to lt. yel. fluor.; no cut; abn. poor micro - p.p. por.

No Gas Increase

4374 - 4394

Lm. abn. wht. to crm. - chlk & lt. tan to tan; crypto. to v. fn. xln.; abn. phantom
oolites; dul lt. to lt. yel. fluor.; no cut; trs. v. poor micro - p.p. porosity

No Gas Increase

4425 - 4463

Lm. hvy. trs. to extrly abn. wht. to crm. - chlk & crm., lt. tan to tan; crypto. to v.
fn. xln.; sub-chlk, sub-sucro to v. sucro; dul lt. yel. to trs. lt. yel. fluor.; no cut; trs.
very poor micro - p.p. por

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Sli Gas Increase

4425 - 4441

10 Total - 4 BG = 6 U. Increase

3 to 4 - C₁ & tr to hvy. trs. C₂

4486 - 4503

Lm. wht. to crm. - chlk w/trs. crm. to lt. tan; crypto. to v. fn. xln.; sub-chlk sub-sucro to v. sucro; dul lt. to lt. yel. fluor.; no cut; abn. pr. to trs. fr. to gd. micro - p.p. to interxln. por

No Gas Increase

4508 - 4580

Lm. hvy. trs. wht. to crm. - chlk & lt. tan to tan; crypto. to v. fn. xln.; sub-chlk, sub-sucro to v. sucro; dul yel fluor.; no cut; abn. poor micro - p.p. por.

46. No Gas Increase

4601 - 4606

Lm. v. abn. wht. to crm. - chlk & sub-chlk & crm. to tan, abn. gryish; crypto. to v. fn. xln.; sub-chlk, sub-sucro & packstn. dul lt. yel to yel. fluor.; no cut; no vis por

No Gas Increase

4681 - 4693

Lm. hvy. trs. to abn. crm. - chlk; lt. tan to tan; crypto. to v. fn. xln.; abn. to trs. oolitic to oolitic; matrix sub-chlk, sub-sucro, packstn. & trs. spar; dul yel fluor; no cut hvy. trs. pr. to gd. oolitic por; trs. chert gry to tan; opaque to transl.

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4701 - 4709 and 4704 - 4740

Lm. v. to extrly. abn. wht. to crm. chlk & crm. to tan. gryish IP's; crypto. to v. fn. xln.; sub-chlk, sub-sucro & packstn.; sli. to v. oolitic IP's, (tan & gry); dul. lt. to trs. lt. yel. fluor.; no cut, no vis por.

No Gas Increase

4778 - 4785

Lm. abn. wht. to crm.; chlk & tan; crypto. to v. fn. xln. v. oolitic to frly oolitic, matrix sub-chlk, sub sucro & packstn.; dul yel. fluor no cut; pr. to fr. oolitic por.

No Gas Increase

4800 - 4810 and 4820 - 4826

Lm. trs. wht. to crm. - chlk & tan; cyrpto. to v. fn. xln.; v. oolitic to v. oolitic;
matrix sub-chlk, sub-sucro & packstn. dul yel to dul gldn yel fluor.; no cut; abn. pr.
to fr. oolitic por

No Gas Increase

Marmaton:

4918 - 4934

Lm. sli. trs. crm - chlk & tan; crypto to v. fn. xln.; extrly. oolitic to extrly oolitic; matrix sub-sucro, sucro, packstn & trs. spar; strng oil oder; w/trs. live brn oil; grnish yel. fluor w/flush to gd strming cuts; pr. to abn. excel. oolitic por.; trs. micro - p.p. to poss interxln. por. quest perm.

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Gas Increase

4919 - 4923

143 Total - 14 BG = 129 U. Increase

Chromatograph did not catch, too short a time

4925 - 4934

555 Total - 84 BG = 471 U. Increases

192 - C₁; 120 - C₂; 65 - C₃; 20 - IC₄; 20 - C₄

DST #2 Marmaton Fm. 491~~8~~ - 493~~5~~

I.O. strong bottom bucket in 1 min

F.O. strong bottom bucket in 16 min

Rec. 990 ft. GIP

91 ft. G&OCM 50% G, 10% O, 40% M

91 ft mud

427 ft. saltwtr Chl 85,000 ppm Pit Chl 2700 ppm

Max Temp 142°F

IHP 2114#

IFP 83 - 135# in 30 min

ISIP 1452# in 60 min

FFP 188 - 282# in 60 min

FSIP 1493# in 120 min

FHP 2393#

4986 - 5007

Lm. extrly abn. wht. to crm. - chlk & tan; crypto. to fn. xln.; extrly oolitic to oolitic.; matrix sub-sucro to sucro & packstn. w/trs. spar; dul lt. to lt. yel fluor.; no cut; abn. pr to excel oolitic por & trs. pr. to fr. micro - p.p. to interxln. porosity

No Gas Increase

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Pawnee:

5029 - 5043

Lm. hvy. trs. wht. to crm. - chlk & tan, crypto. to v. fn. xln.; extrly oolitic to trs. sli. oolitic; matrix sub-sucro. packstn. & spar; v. sli. trs. drk tan oil stn., trs. sptd. brt. yel. fluor. w/sli. trs. fr. to gd. strming cuts; trs. v. pr. to pr. oolitic por.; prob no perm

No Gas Increase

There appear to be no zone of interest in the Cherokee and Atoka Formations

Morrow Fm.:

5421 - 5463

Morrow shales w/interbeds

Lm. lt. tan w/sptd. to satur tan oil stn.; v. v. fn. xln.; sub-sucro to v. sucro; v. silty & trs. v. v. fn. gr. qtz. grs.; sli. to v. micro - micacious; abn. gry. to blk sh &/or carb. speck; fr. oil oder; brt. grnish yel. fluor.; gd. strming cuts; w/hvy. trs. sli. to highly weathered chert tan to lt. brn from oil stn.; brt. lemon yel. fluor; fnt to gd. strming cuts; no vis por.; w/interbeds lm med gry extrly shly grding to extrly calc shale

Sli. Gas Increases

5463 - 5505

Morrow Shales w/interbeds

Sdst. 80% plus lm. grs. - 0 to 20% qtz. grs. tan; v. fn. to coarse grs. & foss frags; ang.; prly sorted; trs. w/sli. trs. clorite &/or glauc.; trs. brt. lt. yel. fluor w/slow fnt

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to fr strming cuts; no vis por w/trs. lt. green qtz. sds; v. v. fn. gr. to fn. gr.; ang.
prly sorted v. glauc.; no fluor; no cut no vis por

There appear to be no zones of interest in the Chester and St. Genevieve Formation

St. Louis:

5832 - 5838

Lm. hvy. trs. wht. - chlk w/chlk oolites IP's & tan; crypto. to v. fn. xln.; extrly
oolitic (med & lg); matrix tr. chlk, trs. sub-chlk, sub-sucro to sucro; fr. oil oder.;
trs. sptd. brn oil stn. w/yel to gldn yel. fluor.; fr. strming to faint ring cuts; trs. v.
pr. micro pin point por in clusters abn. loose oolites; quest perm in clusters

Gas Increase

5832 - 5838

40 Total - 7 BG = 33 U. Increase

13 - C₁; 4 - C₂; 2 - C₃

DST #3 St. Louis 5826 - 5841

I.O. Strong blow bottom bucket in 5 min

F.O. strong blow bottom bucket throughout

Rec: 1556 ft. gip

1 foot mud

Max Temp 122°F

IHP 2845#

IFP 37 - 41# in 30 min

ISIP 1763# in 60 min

FFP 30 - 20# in 60 min

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FSIP 1772# in 120 min
FHP 2764#

Remarks:

1. Sample log depths appear to be 2 to 4 feet low to E-log depths

Recommendation:

There appear to be no zones of economic interest in this well, therefore it is recommended the well be plugged and abandoned.

Thank you,



Edwin H. Grieves
Geologist

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