

15-055-21176
Computer inventoried

ORIGINAL

19-235-34w

Geological Report
BEREXCO INC.
#1-19 Isabelle
NW SW NE Sec. 19
T23S-R34W
Finney County, Kansas

RECEIVED
KANSAS CORPORATION COMMISSION

Spud Date: 1/25/93
Comp Date: 2/6/93
Report Date: 2/7/93

MAY 25 1993

CONSERVATION DIVISION
WICHITA, KS

Tops:

BEREXCO INC.
#1-19 Isabelle
NW SW NE Sec. 19
T23S-R34W
2990 KB

UPRC
#4-19 Foster
4950' FSL & 2970' FEL
Sec. 19-T23S-R34W
2990 KB

	Sample	Log	Log
Base Heebner	3775	3775 - 785	3784 - 794
Toronto	3796	3793 - 803	3797 - 807
Lansing/Kansas City	3828	3838 - 848	3836 - 846
Marmaton Fm	4318	4321 - 1331	4326 - 1336
Pawnee	4401	4396 - 1406	4402 - 1412
Ft. Scott	4435	4431 - 1441	4437 - 1447
Cherokee Fm.	4452	4448 - 1458	4454 - 1464
Morrow Fm.	4675	4672 - 1682	4677 - 1687
Morrow Sdst.	4731	4726 - 1736	4758 - 1768
Morrow Sdst.	4788	4783 - 1748	?? - ??
St. Louis	4802	4817 - 1827	4808 - 1818
TD	5000	4994 --	5003 --

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JUN 28 1995
FROM CONFIDENTIAL

Sample and Gas Shows of Significance and DST's:

Topeka:

3708 - 3772

Lmst. crm., lt. tan to lt. gryish tan; v. fn. xln., highly sucro. to trs. sub-sucro.; dull lt. to lt. yellow fluor.; no cut; abn. pr. to trs. fr. micro - pin point porosity w/trs. chert wht., gry to tan; opque

No Gas Increase

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Toronto:

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3791 - 3820

Lmst. abn. wht. to crm. - chlk & crm. to lt. tan; v. fn. xln.; highly sucro., sucro & trs. sub-sucro.; lt. to brt. lt. yell. fluor.; no cut; abn. pr. to trs. fr. to gd. micro - pin point porosity w/trs. chert wht., gry to tan; transl. to opque

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No Gas Increase

Lansing/Kansas City:

3878 - 3888

Lmst. lt. tan to tan; v. fn. w/trs. fn. xln.; extr. sucro. to trs. sub-sucro.; brt. lt. lemmon yellow fluor.; no cut; pr. w/abn. fr. to gd. micro - p.p. to interxln. porosity

No Gas Increase

3904 - 3907

Lmst. tr. wht. chlk & crm. to lt. tan & tan; v. fn. to trs. fn. & med. xln.; sucro. to sub-sucro.; trs. phantom oolcasts; trs. med. to coarse calc. xls.; brt. lemon yell. fluor.; no cut; pr. w/abn. fr. to gd. micro - p.p. to interxln. por. & sli. tr. v. pr. vug. to oolcastic por., sli. tr. chert wht. to gry.; opque

No Gas Increase

3939 - 3948

Lmst. trs. wht. - chlk & crm. to lt. tan; crypto. to v. fn. xln.; sucro. to sub-sucro. w/abn. phantom oolites - oolites rexlzed to sub-sucro.; brt. lt. yell. fluor.; no cut; tr. pr. tr. sli. trs. fr. micro - pin point por. in pt. w/sli. trs. chert. wht., crm. to gry.; opque

No Gas Increase

3967 - 3980

Lmst. hvy. tr. to abn. wht. to crm. - chlk & crm. to lt. tan; crypto. to v. fn. xln.; sub-chlk, sub-sucro to sucro.; sli. tr. phantom oolites & foss. frags.; tr. dull lt. lt. to brt. lt. yell. fluor.; no cut; hvy. tr. to abn. pr. micro - p.p. porosity

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4000 - 4020

Lmst. trs. wht. - chlk and crm. to lt. tan; v. fn. to trs. fn. xln.; highly sucro. to sucro. & trs. sub-sucro.; trs. phantom oolites - rexlzed to v. v. fn. sucro.; lt. to brt. lt. yell. fluor.; no cut; trs. pr. to fr. w/abn. gd. to excell. micro - p.p. to interxln. por.; w/sli. trs. chert gry.; opque

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No Gas Increase

4100 - 4144 and 4171 - 4180

Lmst. tan; crypto. to v. fn. xln.; extrly. oolitic to oolitic; matrix highly sucro., sucro to sub-sucro & trs. packstn.; lt. yell. yell. to brt. yell. fluor. - mottled; no cut; poor to very abn. fair, good to excellent oolitic porosity & trs. poor micro - p.p. to interxln. porosity; questionable permeability

No Gas Increase

4205 - 4208

Lmst. lt. tan to tan; crypto. to trs. med. xln.; sucro., to sub-sucro.; oolitic in pt.; lt. yell., yell. to brt. yell. fluor.; no cut; pr. w/trs. fr. to gd. oolitic porosity

No Gas Increase

4216 - 4220; 4224 - 4231 and 4233 - 4240

Lmst. lt. tan to tan; crypto. to v. fn. xln.; sub-sucro to sucro & packstn.; sli. to very oolitic in pt.; sli. to frly oolitic in pts.; lt. yell., yell. to brt. yellow fluor.; no cut; trs. pr. to sli. trs. fr., gd. to excell. oolitic porosity questionable permeability for most part chert trs. to abn.; crm., gry to tan; opque

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No Gas Increase

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4274 - 4291

Lmst. tan; v. fn. xln.; sucro. to sub-sucro.; dull lt. to brt. yellow fluor.; no cut; hvy. trs. poor micro - p.p. por & poss. trs. pr. interxln. por.; trs. chert gray to tan; opque

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There were no zones of interest in the Marmaton Fm.

Pawnee:

4402 - 4410

Lmst. crm. to lt. tan; crypto. to v. fn. xln.; oolitic w/abn. oolites; oolites rexlzcd to sucro &/or xln. lumps; matrix sub-sucro to sucro.; fr. oil oder; brn. oil stn. in pt., w/golden yell. fluor. & excell. cut; pr. w/abn. fr. to gd. oolitic por. & hvy. tr. pr. to fr. micro - p.p. to interxln. por.; questionable permeability

Gas Increase

4402 to 4408

21 Total - 10 BG - 11 Unit Increase

3-C₁; 2-C₂; 1-C₃

DST #1 Pawnee
4392 - 4408
I.O. weak 3/4 inch
F.O. no blow
Rec: 20' mud w/few oil specks in top tool
Max Temp. 108° F
IHP 2122#
IFP 50-50# in 15 min
ISIP 1203# in 30 min
FFP 60-60# in 30 min
FSIP 1203# in 60 min
FHP 2112#

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There were no zones of interest in the Ft. Scott and Cherokee Formations.

Morrow Fm.:

4718 - 4726

Sdst. 100% qtz., tan from oil stn.; silty, v. fn. to sli. tr. fn. gr.; ang.; v. prly sorted; tr. w/trs. glauc.; faint oil oder, satur. brn. oil stn.; lt. greenish yell. & golden yell. fluor.; good slow strming cut; no visible porosity

Gas Increase

4718 - 4726

59 Total - 19 BG = 40 Unit Increase

5-C₁; 3-C₂; 4-C₃

4726 - 4733

Sdst. 100% qtz. gr.; tan to lt. brn. from oil stn.; v. fn. gr. w/sli. trs. fn. & sli. tr. med. gr.; ang.; v. prly. sort.; faint oil oder; brn. satur oil stn.; golden yell. fluor.; flush to excell. strming cut; trs. pr. to sli. trs. fr. to gd. micro - p.p. to intergr. por.; abn. sm. clusters - friable; quest. perm.

4733 - 4740

Sdst. similar to 4726 to 4733 becoming more calc & w/thin beds siltstn.
lt. green

Gas Increase

4726 - 4740

105 Total - 20 BG = 85 Unit Increase

8-C₁; 4-C₂; 6-C₃; 1/2-IC₄; 1 1/2-C₄

DST #2

Morrow Sdst

4729 - 4750

I.O. weak 1 1/2 inches

F.O. weak to strg. bottom bucket 40 min

Rec: 495' GIP

113' OCM 45% oil, 55% mud

32 gravity @ 60° F

Max Temp. 116° F

IHP 2280#

IFP 40-40# in 15 min

ISIP 500# in 30 min

FFP 50-80# in 120 min

FSIP 539# in 120 min

FHP 2270#

4781 - 4791 and 4793 - 4794

Sdst. gryish tan to lt. brn. from oil; v. fn., fn. w/tr. med. gr.; ang. to sub-rnded; prly. sort.; sli. calc. faint oil oder; satur. oil stn.; greenish yell. fluor. to golden yell. fluor.; flush to gd. to excellent strming cut; trs. fr. to gd. micro - p.p. to intergr. por. mostly in sm. pieces, sm pieces very friable; questionable permeability

Gas Increase

4782 - 4790

96 Total - 36 BG = 60 Unit Increase

7-C₁; 4-C₂; 5 1/2-C₃; 1-IC₄; 2-C₄

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DST #3

4785 - 4796

I.O. weak 1 1/4 inch

F.O. weak to strg. bottom bucket 45 min

Rec: 520' GIP

120' OCM 45% oil, 55% mud

30 gravity @ 60° F

Max Temp. 119° F

IHP 2290#

IFP 50-50# in 15 min

ISIP 1025# in 30 min

FFP 60-80# in 120 min

FSIP 1035# in 120 min

FHP 2280#

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St. Louis:

4926 - 4937

Lmst. tan; crypto. to v. fn. xln.; extr. oolitic (lg. to med.); matrix
chlk, sub-chlk & tr. sub-sucro.; & tr. sucro.; lt. yell. fluor.; no cut;
trs. poor p.p. top interoolitic por.; trs. loose oolites

No Gas Increase

Remarks:

1. Sample log depths appear to be 3 to 5 feet low to E-log depths.
2. All zones of interest that warranted a DST were tested.

Recommendation:

There appear to be two zones of probable economic interest in this well:

Morrow Sdst	4726 - 4740
Morrow Sdst	4781 - 4800

It is recommended production casing be run so as to be able to production test the above two mentioned zones.

Thank you,



Edwin H. Grieves

Geologist

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