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CONFIDENTIAL

Geological Report
BEREXCO INC.

#1-19 Fannie Jennings
S/2 NW SE Section 19
T29S-R38W
Grant County, Kansas

RPI#15-067-21214

19-295-386
ORIGINAL

CONFIDENTIAL

Spud Date: 2/14/93
Comp Date: 2/26/93
Report Date: 2/28/93

RELEASED

JUN 2 8 1995

FROM CONFIDENTIAL

Tops:

BEREXCO INC.
#1-19 Fannie Jennings
S/2 NW SE Sec. 19
T29S-R38W
KB 3157

Arco Oil & Gas Co
E. L. Johnson #3
NE NW Sec. 30
T29S-R38W
KB 3162

	Sample	Log	Log
Base Heebner	3829	3827 - 670	3809 - 647
Lansing Fm.	3927	3923 - 766	3906 - 744
Marmaton Fm.	4508	4502 - 1345	4480 - 1318
Pawnee	4684	4672 - 1515	4663 - 1501
Cherokee	4705	4698 - 1541	4686 - 1524
Atoka	5061	5054 - 1897	5045 - 1883
Morrow Fm.	5199	5192 - 2035	5177 - 2015
Lower Morrow	5441	5442 - 2285	5424 - 2262
Chester	5520	5511 - 2354	5492 - 2330
St. Genevieve	5628	5638 - 2481	5580 - 2418
St. Louis	5657	5664 - 2507	5644 - 2482
TD	5880	5887 --	6738 --

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Sample and Gas Shows of Significance and DST's:

ORIGINAL

Topeka:

3708 - 3738 and 3754 - 3768

Lmst. tr. wht. - chlk & lt. tan to lt. gryish tan; v. fn. xln. sucro to abn. sub-sucro.; dull lt. to lt. yellow fluor.; hvy. trs. poor to trs. fair to good micro - p.p. por.

No Gas Increase

3792 - 3800

Lmst. lt. tan to tan; crypto. to v. fn. xln.; sucro to sub-sucro.; trs. phantom oolites & oolitic; tr. foss frags.; dull lt. to lt. yell. fluor.; no cut, tr. pr. micro - p.p. to p.p. por.

No Gas Increase

Toronto:

There were no gas increases, shows in the samples or visible porosity in this zone.

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Lansing/Kansas City:

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4046 - 4099

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WICHITA, KS

Lmst. extremely abn. wht. - chlk & crm., lt. tan, to tan; crypto. to v. fn. xln.; sub-sucro to sucro., trs. phantom oolcasts to trs. oolitic; dull lt. to lt. yellow fluor.; no cut; tr. to hvy. trs. poor oolitic, pin point to micro - pin point por.

No Gas Increase

4111 - 4163

Lmst. extrly. abn. wht. - chlk; and lt. tan to tan; v. fn. to fn. xln.; w/trs. med. to coarse calc. xls.; sub-sucro to highly sucro.; v. sli.

oolicastic to extrly. oolicastic; lt. to brt. lt. yell. fluor.; no cut;
pr. to hvy. trs. fr., gd. to excellent oolicastic to interxln. porosity

No Gas Increase

4178 - 4192

Lmst. tan.; crypto. to v. fn. xln.; extrly. oolicastic, to abn. oolites,
sub-sucro., sucro, & tr. packstn.; tr. med. & coarse calc. xls.; tr.
foss.; brt. lt. yell. to brt. yell. fluor.; gd. to excell. oolicastic por.
& tr. poor interxln. por.

No Gas Increase

4279 - 4283 and 4286 - 4289

Lmst. tan, crypto. to v. fn. xln.; fairly oolicastic to abn. oolites;
matrix sub-sucro & packstn. w/trs. sucro.; dull lt. to lt. yellow fluor.;
no cut; pr. to trs. fr. to gd. oolicastic porosity

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No Gas Increase

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4313 - 4337

Lmst. extr. abn. crm. to wht. - chlk w/chlk oolites in pt. and lt. tan to
tan; v. fn. to fn. xln.; oolitic, oolicastic, & foss frags.; matrix chlk,
sub-chlk, sub-sucro., & sucro - totally rexized in pt. to highly sucro. to
sub-sucro.; dull lt. to brt. lt. yell. fluor.; no cut; trs. pr. oolicastic
to hvy. trs. pr. to sli. tr. fr. to good interxln. por.

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No Gas Increase

4364 - 4367 and 4370 - 4379

Lmst. trs. wht. - chlk. & crm. to lt. tan; crypto. to v. fn. xln.; abn.
phantom oolcasts & oolites - rexized to highly sucro to sub-sucro.; lt.
yell. fluor.; no cut abn. poor to trs. fr. to gd. oolicastic, micro - p.p.
& interxln. por.

No Gas Increase

4379 - 4392

Lmst. tr. wht. to crm. - chlk & lt. tan to tan; crypto. to v. fn. xln.; sub-chlk, sub-sucro & tr. sucro.; dull lt. yell. fluor.; no cut; sli. tr. very poor micro - p.p. porosity

No Gas Increase

4411 - 4418

Lmst. lt. gry, gryish tan to tan; crypto. to v. fn. xln.; oolitic (gry. & tan); tr. oolitic; matrix tr. chlk, tr. sub-chlk, & sub-sucro; dull yell to yell fluor.; no cut; tr. pr. oolitic & micro - p.p. por

No Gas Increase

4437 - 4442

Lmst. tr. crm. - chlk.; lt. gryish tan to tan; crypto. to v. fn. xln.; oolitic in pt. (gry to tan), tr. oolitic; matrix sub-chlk, sub-sucro, & tr. sucro.; dull lt. to lt. yell. fluor.; no cut; tr. pr. oolitic to micro - p.p. porosity

No Gas Increase

Marmaton:

4527 - 4531

Lmst. tr. wht. - chlk & crm., to lt. tan; crypto. to v. fn. xln.; sub-sucro to sucro.; abn. foss. in pt. (massive corals); oolitic & pelletal in pts.; lt. yell. fluor.; no cut; trs. good interfoss. por no permeability apparent; tr. chert wht., crm. & orang; transl to opque

No Gas Increase

4550 - 4558

Lmst. abn. wht. - chlk & tan; crypto. to v. fn. xln.; extrly. oolitic to tr. oolitic; matrix sub-chlk, sub-sucro & packstn.; lt. yell. fluor.; no cut; trs. v. poor oolitic porosity

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No Gas Increase

4648 - 4652 and 4654 - 4662

Lmst. hvy. trs. wht. - chlk & crm., lt. tan to tan; oolitic; tr. foss.
matrix chlk, sub-chlk, sub-sucro. & packstn.; dull lt. to lt. yell. fluor.
mottled; no cut; no vis por., w/tr. chert wht., opq.

Gas Increase

4648 - 4652

35 Total - 20 BG = 15 Units Increase

6-C₁; 2-C₂; 3-C₃; No IC₄; No C₄

Pawnee:

4679 - 4692

Lmst. abn. wht. - chlk & gryish tan, crm., lt. tan to tan; crypto. to v.
fn. xln.; extrly. oolitic (tan); matrix sucro. to tr. sub-sucro.; lt.
yell. fluor.; no cut; hvy. tr. pr. to fr. p.p. to interxln. porosity

No Gas Increase

Cherokee:

4886 - 4892

Lmst. trs. wht. - chlk; & lt. gry., gryish tan to tan; crypto. to v. fn.
xln.; tr. phantom oolites & trs. phantom oolcasts - rexldz to sucro. &
sub-sucro.; dull lt. to lt. yell. fluor.; no cut; trs. pr. to fair p.p. to
interxln. porosity

No Gas Increase

Atoka:

There were no gas increases, other than from black shales, shows in the
samples or visible porosity in this zone.

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WICHITA, KS

Morrow:

5280 - 5286

Sdst. tanish wht. to crm.; 100% qtz. gr.; v. fn., fn. w/trs. med. gr.;
ang.; v. prly. sort.; v. sli. tr. glauc.; clay filled in pt.; sli.
dolomitic; sli. tr. pyr. in pt.; no fluor; no cut; traces poor p.p. por in
pt.; prob. no permeability

No Gas Increase

5441 - 5453

Sdst. 5 to 15% qtz. grs.; 85 to 95% lm. gr.; tr. gry. to tan; v. fr.
grding to coarse gr.; ang. to trs. sub-ang. to sub-rnded qtz. grs. clear
to frosted; sli. tr. w/tr. glauc.; trs. w/tr. pyr. dull lt. to tr. lt.
yell. fluor.; mottled; no cut; no vis. por.

No Gas Increase

5464 - 5476

Sdst. 0 to 10% qtz. grs. & 90 to 100% lm grs.; gry. grding to tan; v. fn.,
fn., med w/trs. coarse gr.; shly in pt.; tr. w/tr. glauc.; tr. w/trs.
foss.; tr. oolites in pt.; lm. gr. crypto. to v. fn. xln.; trs. w/pyrite;
dull lt. to tr. brt. lt. yell. fluor. no cut; no visible por.; sd. is ang.
& poorly sorted; qtz. grs. decrease w/depth.

No Gas Increase

5476 - 5490

Lmst. gry; crypto. to v. fn. xln.; fragmental in pt.; trs. w/trs. glauc.;
slily to v. shly w/med. gry sh. partings in pt.; trs. foss frags; grades
to a marl; no fluor to tr. v. dull lt. yellow fluor.; no cut; no visible
por.

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Chester and St. Genevieve:

There were no gas increases, shows in the samples of any significance, or visible porosity in these zones.

St. Louis:

5714 - 5731

Lmst. hvy. tr. wht. - chlk w/chlk oolites in pt. & lt. tan; crypto. fn. to abn. med. xln.; extrly oolitic (lg. & med); matrix sucro v. sli. tr. glauc. in pt; trs. foss.; v. ft. oil oder.; sptd. tan oil stn.; gd. strming cut; pr, fr. to gd. p.p. to interxln. por & tr. fr. interoolitic por.; tr. to hvy. trs. loose oolites.

5731 - 5736

Lmst. trs. wht. - chlk & crm. to lt. tan; crypto. to v. fn. xln.; extrly oolitic (med to lg. w/hvy trs. sm.); matrix sub-sucro, to sucro.; tr foss. in pt.; v. sli. tr. slily sptd. tan oil stn., w/faint to fair strming cut tr. pr. micro - p.p. to interxln. por. in matrix and v. sli. tr. pr. to fr. interoolitic porosity questionable permeability in part

Gas Increase

5714 - 5716

54 Total - 40 BG = 14 Unit Increase

12-C₁; 8-C₂; 4-C₃; Tr-IC₄; 4-C₄

5716 - 5722

28 Total - 16 BG = 12 Unit Increase

7-C₁; 4-C₂; 2-C₃; Tr-IC₄; TR-C₄

DST #1

St. Louis "C"

5696 - 5722

I.O. weak 1/2" blow built to 9" in bucket 15 min.

F.O. surface blow to strong bottom bucket in 30 min

Rec: Total Fluid 895 feet

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175 ft. sli. oil & hvy. wtr. cut mud 4% oil; 41% wtr; 55% mud

720 ft. wtr Chl 24000 ppm

Pit Chl 900 ppm

Max Temp 146° F

IHP 2779#

IFP 57-148# in 15 min

ISIP 512# in 30 min

FFP 189-423# in 120 min

FSIP 512# in 120 min

FHP 2694#

5787 - 5798

Lmst. trs. wht. chlk. & crm. to lt. tan; crypto. to v. fn. xln. sub-chlk,
sub-sucro. to trs. sucro.; trs. oolites (sm. to med. & trs. lg.); dull lt.
yell. fluor.; no cut; tr. pr. to fr. micro - p.p. to interxln. por.;
w/abn. chert crm & tan transl. to opque

No Gas Increase

DST #2 Tail Pipe Straddle Test

St.Louis "B"

5780 - 5804

I.O. v. weak blow slowly built to 6 inches in bucket in 15 min

F.O. surface blow slowly built to bottom bucket in 64 min

Rec: 760 ft. Total Fluid

30' mud

90' sli. mud cut wtr 18% mud 82% wtr

640' wtr Chl 22,000 ppm (pit Chl 1000 ppm)

Max Temp 147° F

IHP 2836#

IFP 31 to 108# in 15 min

ISIP 1167# in 30 min

FFP 142 to 338# in 120 min

FSIP 874# in 120 min

FHP 2741#

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VICTORIA, B.C.

5841 - 5844

lmst. tan; crypto. to v. fn. xln.; v. oolitic (lg) matrix chlk to sub-chlk
tr. sub-sucro; lt. to brt. lt. yell. fluor.; no cut; no visible porosity
tr. chert wht. to crm.; transl. to opque

No Gas Increase

Remarks:

1. Sample log depths appear to be 2 to 4 feet low to E-log depths.
2. All zones warrenting a DST were tested.

Recommendation:

There appear to be no zones of economic interest in this well. It is recommended this well be plugged and abandoned.

Thank you,



Edwin H. Grieves

Geologist

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MAY 19 1963

CONSERVATION DIVISION
TOPEKA, KS

To: Mr. Robert M. Beren

From: Edwin H. Grieves

Subject: DST Lengths
BEREXCO INC.
#1-19 Fannie Jennings
S/2 NW SE Sec. 19
T29S-R38W
Grant County, Kansas

Spud Date: 2/14/93

Comp Date: 2/26/93

Memo Date: 2/28/93

DST #1 24 hrs 3 min

1. Below freezing have to drain things before tripping
2. First DST Long Short Trip
3. DST time longer than usual to get representative sample of formation fluids

DST #2 12 hrs 30 min

1. Straddle Test

Thank you,



Edwin H. Grieves

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WICHITA, KS