

RECEIVED
 STATE CORPORATION COMMISSION
 APR 13 1994
 CONSERVATION DIVISION
 Wichita, Kansas

Base Heebner
 Lansing
 Marmaton
 Cherokee
 Morrow
 Chester
 St. Genevieve
 St. Louis
 TD

Sample
 4115
 4223
 4880
 5094
 5488
 5851
 6051
 6103
 6250

Log
 4108 - 1063
 4216 - 1171
 4880 - 1835
 5087 - 2042
 5481 - 2436
 5843 - 2798
 6060 - 3015
 6104 - 3059
 6240 ---

Log
 4112 - 1074
 4220 - 1182
 4890 - 1852
 5099 - 2061
 5500 - 2462
 5851 - 2813
 6067 - 3029
 6094 - 3056
 6246 ---

BEREXCO INC.
 #1-13 Thurrow
 C SW Section 13
 T31S-R36W
 3045 KB

McCoy Petroleum Corp
 #1-13 Vance Lahey
 NE NE SE Section 13
 T31S-R36W
 3038 KB

Tops:

Spud Date: 12-16-93
 Comp Date: 12-29-93
 Report Date: 12-31-93

Geological Report
 BEREXCO INC.
 #1-13 Thurrow
 C SW Section 13
 T31S-R36W
 Stevens County, Kansas
 API # 15-189-21594

FROM CONFIDENTIAL
 MAY 6 1996
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ORIGINAL

K C C

AUL 10 1996

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APR 12

KCC

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13-315-36W

Computer inventoried

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Sample and Gas Shows of Significance and DST's: MAY 6 1996

FROM CONFIDENTIAL TO CONFIDENTIAL

Toronto:

4126 - 4134

Lmst. trs. crm - chlk & crm, lt. tan to tan; crypto. to v. fm. xln.; sub-chlk, sub-sucro & trs. sucro; dull lt. yell. fluor, no cut; sil. trs. poor micro - pin point porosity

No Gas Increase

Lansing/Kansas City:

4244 - 4257

Lmst. crm. to lt. tan; crypto. to v. fm. xln.; v. oolitic; matrix sub-chlk, sub-sucro & sucro; lt. to brt. lt. yell. fluor; no cut; no visible porosity

No Gas Increase

4278 - 4285 and 4290 - 4294

Lmst. tan; v. fm. xln.; v. oolitic to sil. oolitic matrix sub-sucro to highly sucro; yell. to brt. yell. fluor; no cut; gd. to excell oolitic por. to fr. interxn. por in pt.

No Gas Increase

4303 - 4314

Lmst. lt. tan to tan; crypto. to v. fm. xln.; sil. oolitic to very oolitic; matrix sub-chlk, sub-sucro to sucro; dull lt. to lt. yell. fluor; no cut; trs. poor to fair oolitic porosity

No Gas Increases

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4394 - 4438 and 4445 - 4453

Lmst hvy. trs. crm. to wht. - chlk and crm. to lt. tan; trs. crypto. to v. fn. xln.; sub-
sacro to highly sacro. w/trs. sub-chlk; abn. phantom oolcasts in pt.; dull lt. to lt.
yell. fluor., no cut; abn. poor to fair micro - pin point porosity & poss. interxln. por
in pt

No Gas Increase

4503 - 4516

Lmst. tr. crm. to wht. - chlk & gryish tan to tan; crypto. to v. fn. xln.; v. oolcastic
to v. oolitic, matrix sub-chlk, sub-sacro. to sacro.; dull lt. to lt. yell. fluor.; no cut;
pr. oolcastic to micro - p.p. porosity

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No Gas Increase

MAY 6 1996

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4541 - 4550

Lmst. hvy. trs. crm. to wht. - chlk & crm. to lt. tan; crypto. to v. fn. xln.; oolitic in
pt sub-chlk, sub-sacro & tr - packstn; dull lt. to lt. yell. fluor.; no cut; no vis por

No Gas Increase

4595 - 4606

Lmst. trs. wht. to crm. chlk; gryish tan to tan; crypto. to v. fn. xln.; trs. sub-chlk,
sub-sacro. to sacro.; dull lt. to lt. yell. fluor. and yell. fluor.; no cut; trs. pr. micro -
p.p. porosity

No Gas Increase

4612 - 4629

Lmst. tan; trs. crypto. to v. fn. xln.; v. oolitic to sli. oolcastic; matrix sub-chlk,
sub-sacro. to sacro.; dull lt. to lt. yell. fluor., no cut; hvy. trs. poor oolcastic to
micro - pin point porosity

No Gas Increase

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4744 - 4756
Lmst. hvy. trs. crm. - chlk & crm. to tan; crypto. to v. fm. xln.; sub-chlk, sub-sucro
to sucro.; dull lt. to trs. brt. lt. yell. fluor.; no cut; no vis por. w/sli. tr. chert gry &
wht.; opaque

No Gas Increase

4797 - 4808
Lmst. gryish tan to tan; crypto. to v. fm. xln.; v. oolitic; matrix chlk, sub-chlk &
sub-sucro.; dull lt. to lt. yell. fluor.; no cut; no visible porosity

No Gas Increase

Marmaton:

4904 - 4926
Lmst. trs. wht - chlk and tan; v. fm. xln.; extrly oolitic to oolitic; matrix sub-
sucro. to sucro.; brt. golden yell. to brt. yell. fluor.; no cut; excel. oolitic por to
pr to fr interxn. porosity

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No Gas Increase

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5031 - 5035
Lmst. trs. crm. - chlk & lt. gryish tan to tan; crypto. to v. fm. xln.; sub-chlk, sub-
sucro & packstn.; hvy. trs. w/tr. to abn. oolites; dull lt. to lt. yell. & yellow fluor.;
no cut; no visible porosity

Gas Increase

24 Total - 5 BG = 19 U. Increase

18-C1; 5-C3

The Cherokee and Atoka Formation had no visible porosity or shows of hydrocarbon.

Morrow:

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5567 - 5602
Sdst 100% qtz. gr.; lt. tan to lt. tanish gry; med to coarse gr.; pr to gd sort.; ang.
to trs. sub-ang to sub-mdd; abn. clay filling in pt.; sli. to well cemented w
dolomite; hvy trs. v. dull golden yell fluor. w/faint ring cut; trs pr intergr. por.;
friable in pt; v. abn. loose sd grs.

Gas Increase
5567 - 5578
80 Total - 33 BG = 47 U. Increase

48-C1; 17-C2; 2-C3

DST #2 Saddle Test

Upper Morrow Sandstone

5458 - 5590

I.O. strong blow bottom bucket 1 min

GTS 5 min

F.O. Strong blow

Rec: 510 ft Gas Cut Mud

6% gas and 94% mud

Max Temp. 132° F

IHP 2844#

IHP 576 to 588# in 15 min

ISIP 601# in 30 min

FHP 597 to 599# in 60 min

FSIP 606# in 120 min

FHP 2836#

Flow Info GTS 5 min

Min

PSI

Office Size

10

8

1 1/2

1,123

MCRFPD

15

16

1 1/2

1,694

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FF	10	18	1 1/2	1,824
	20	20	1 1/2	1,949
	30	24	1 1/2	2,200
	40	24	1 1/2	2,200
	50	24	1 1/2	2,200
	60	24	1 1/2	2,200

5805 - 5817
 Sdst 100% qtz gr.; lt. gry.; v. fn. to fn. w/hvy tr. med. gr.; ang. to sub-ang.; fr. to
 gd. sort.; tr. sh. grs. in pt.; trs. sli. glauc.; v. sli. calc in pt. 35 to 40% has gmish -
 yell. fluor w/fr. to gd. strming cut; 50% w/por.; pr w/v. abn. fr. to gd. & tr. excell.
 p.p. to intergr. por.
 Gas Increase
 5805 - 5817
 160 Total - 70 BG = 90 U. Increase
 96-C1; 24-C2; 2-C3

DST #1

Lower Morrow Sandstone
 5807 - 5819

I. O. No Blow flushed

tool 10 min into

dropped 1 ft

weak surface blow

F. O. weak surface blow

Rec: 100 mud cut wtr

30% mud 70% wtr

Chl 30,000 ppm

Pit Chl 1000 ppm

Max Temp 138° F

IHP 2996#

IHP 35-39# in 15 min

ISIP 1721# in 30 min

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FFP 49-70# in 60 min
FSIP 1779# in 120 min
FHP 2989#

Chester:

5943 - 5949

Sdst. trs. lt. grn rest tan to brn from oil stn.; v. fn. to fn. gr.; ang; pr to trs. ft. sort.;
hvy. trs. clay filling - lt. gm.; tr. sh grs. in pt.; brt. gmish yellow fluor. w/flush to
excell string cut; hvy. trs. pr. p.p. por and poss intergr por.

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Gas Increase
5943 - 5949

200 Total - 52 BG = 148 U. Increase
90-C1; 20-C2; 2-C3

The St. Genevieve and St. Louis had no visible porosity and no shows of hydrocarbon

Remarks:

1. Sample log depth appear to be 7 to 10 feet low to E-log depths
2. Sample quality was very poor above 5400 feet and poor to fair at time below 5400 feet

Recommendation:

The Upper Morrow Sandstone (5567-5602) is of economic interest.

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It is therefore recommended, production casing be run so as to be able to
production test the Upper Morrow Sdst. from 5567 - 5602)

Thank you,



Edwin H. Grieves

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