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GEOLOGICAL REPORT

Beacon Resources Corp.,

Lee Banks

W. R. Atkinson

No. 1-12 March

150' S.S.W. NW NE Sec. 12-33S-34W

Seward County, Kansas

by

William R. Atkinson

Geologist

GEOLOGICAL REPORT

Beacon Resources Corporation, Lee Banks & W. R. Atkinson
March No. 1-12
150' SSW of NW/4 NE/4 Sec. 12-338-34W
Seward County, Kansas

Commencement Date: 12-15-70
Completion Date: 12-24-70 Production casing set
Elevation: 2880 K.B.
2870 G.L.
Total Depth: 4410 Driller
4411 Welex
Contractor: Sage Drilling Co. Rig #3
Electrical Surveys: Welex: SP, Gamma-Guard Log and Neutron, Av.
& Caliper Log
Casing: Surface 8 5/8" @ 1604 Driller
1606 Welex
Special Equipment: Baroid Gas Detecting Equipment in operation
from approximately 3150 feet to total depth

FORMATION TOPS AND STRUCTURAL COMPARISONS

	Lee Banks, W. R. Atkinson, Beacon Resources Corp. 150' SSW of NW/4 NE/4 Sec. 12-338- 34W. #1-12 March	Banks, Atkinson Beacon Resources C W/2 SE NE Sec. 12-338-34W #1-12 Lee	Relative Position
Winfield	2665 (+215)	2666 (+225)	10' Low
Wreford	2878 (+2)	2880 (+11)	9' Low
Topeka Zone	4131 (-1251)	4132 (-1241)	10' Low
Heebner Shale	4188 (-1308)	4189 (-1298)	10' Low
Toronto	4211 (-1331)	4212 (-1321)	10' Low
Lansing	4332 (-1452)	4338 (-1447)	5' Low
Lansing "B" Zone	4350 (-1470)	4356 (-1465)	5' Low
Lansing "C" Zone	4383 (-1503)	4384 (-1493)	10' Low
Lansing "C" Zone Porosity	4392 (-1512)	4392 (-1501)	11' Low
Total Depth	4411 (-1531)	5070 (-2179)	

SAMPLE DESCRIPTIONS

Topeka Zone 4131 (-1251)
4131-4144

White to tannish, very fine crystalline to smooth slightly chalkey limestone. Some fair intercrystalline and oolitic porosity. Some slight fluorescence with very poor cut in this interval. A maximum mud gas increase of 47 units of methane gas was logged from this interval. Considering the relatively low position compared to the Lee #1-12 and the 77 unit maximum mud gas show logged in the #1-12 Lee, the opportunity of drillstem testing the zone was passed. Prior to the abandonment of this well, this zone should be perforated and tested if none of the nearby higher structurally positioned wells have been condemnably tested. The nearby structurally controlled Lee #1-12 well tested a maximum of 275 Mcf pd on a drillstem test of the interval. The result of comparing the structural position of the Topeka zone in this well also to the No. 1-7 Fitzgerald dryhole in SW SW Sec. 7-33-33W, confirms the possibility of this zone in this well being gas productive. Methane Mud Gas readings from the zone were logged as follows:

4134-36 - Increase to maximum reading of 25 units.

4136-38 - Decrease to minimum reading of 10 units.

4138-44 - Increase to maximum reading of 47 units.

Toronto 4211 (-1331)
4211-4230

Gray, fine crystalline, vuggy limestone with slight to poor crystalline porosity. Very slight fluorescence and cut in carbontetrachloride. No apparent show of oil in wet or dry samples.

4230-4237

Limestone as above, but with some brown, very slight crystalline slightly porous limestone with fair to slightly good fluorescence and cut in carbontetrachloride in wet samples. Some slight oil stain in dry samples.

In the above described intervals, three distinctively different gas kicks were recorded by the Faroid Gas Detector Unit. The gas unit was adjusted to measure the effect of total gas during the drilling of these intervals:

4215-4220 - Increase to maximum readings
Methane Gas 23 units
Wet gas 2 1/2 units.

4220-4223 - Decrease to minimum readings
Methane gas 5 units
Wet gas Zero

4223-4228 - Increase to maximum readings
Methane gas 58 units
Wet gas 3 units

4228-4230 - Decrease to minimum readings
Methane gas 9 units
Wet gas Zero

4230-4237
T.T.D. - Increase to maximum readings
Methane gas 27 units
Wet gas 27 units.

Drill Stem test No. 1 was run to evaluate the above described shows.

Drillstem Test No. 1 4215-4237 corrected to log depths (4213-4235 reported depths)

Tool open 30 minutes with gas to surface in 5 minutes.

Gas gauged 175 Mcfpd at 10 minutes

Gas gauged 317 Mcfpd at 20 minutes

Gas gauged 398 Mcfpd at 30 minutes

Shut-in 30 minutes.

Tool re-opened for 90 minutes.

Gas gauged 552 Mcfpd at 10 minutes

Gas gauged 564 Mcfpd at 20 minutes

Gas gauged 564 Mcfpd at 30 minutes

Gas gauged 577 Mcfpd at 40 minutes

Gas gauged 590 Mcfpd at 50 minutes

Gas gauged 590 Mcfpd at 60 minutes

Gas gauged 603 Mcfpd at 70 minutes

Gas gauged 603 Mcfpd at 80 minutes

Gas gauged 610 Mcfpd at 90 minutes.

Recovered 170 feet of very slightly gas cut, very muddy water.

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Shut-in 45 minutes.

IFP 63-116

ISIP 1109 in 30 minutes

FFP 137-158

PSIP 1075 in 45 minutes.

(None of the pressure readings have been office corrected.)

Evaluation of the recovered water on this DST, and on the following DST #2, indicates the presents of only a particle inclusion of formation salt water in the first DST. Pre-test drilling mud:

30,000 p.p.m. NaCl

Recovered water at top of interval: 38,000 ppm

Recovered water at bottom of interval:

86,000 p.p.m.

The following seven foot interval was drilled prior to DST #2.

Toronto (Lower Portion)

4237-4244

Limestone as described in interval 4230-37 with slightly poorer visable porosity, fluorescence and carbontetrachloride cut.

Baroid Gas Detector Unit:

4237-4244 - Increase to maximum reading

Methane gas 17 units

Wet gas 11 units.

Due to the failing result of not recovering production oil on DST #1, DST #2 was conducted:

DST #2 - 4230-4244 corrected to log depths.
(4228-4242 reported depths)

Tool open 30 minutes with gas to surface in 7 minutes.

Gas gauged 17 Mcfpd at 15 minutes

Gas gauged 20 Mcfpd at 30 minutes

Shut-in 30 minutes

Tool re-opened 60 minutes.

Gas gauged 30 Mcfpd at 10 minutes.

Gas gauged 15 Mcfpd at 20 minutes.

Gas gauged 13 Mcfpd at 30 minutes.

Gas gauged 13 Mcfpd at 40 minutes.

Gas gauged 13 Mcfpd at 50 minutes.

Gas gauged 12½ Mcfpd at 60 minutes.

Total fluid recovery was 1160 feet of oil (43° gravity at 66 F.) and 240 ft.

of salt water.

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Pre-test drilling mud: 32,000 p.p.m. NaCl
Recovered salt water at bottom of interval:
139,000 p.p.m. NaCl
Shut-in 45 minutes.
ISIP 1064 in 30 minutes.
IFP 120-298
FFP 355-520
FSIP 1064 in 45 minutes

Lansing 4332 (-1452)
4332-4344

White to lite grayish, slightly tannish
white limestone with scattered slight
crystalline porosity and scattered
fossilcasts. Very slight fluorescence
and very slight carbontetrachloride
out. (No Methane or total gas recorded,
gas detector was not operating properly.)

Lansing "B" Zone 4350 (-1470)
4350-4364

Limestone as above with a very slight
increase of porosity. Very slight
fluorescence and out as above.

Lansing "C" Zone 4383 (-1503)

Lansing "C" Zone
Porosity Zone 4392 (-1512)
4392-4402

Light grayish slightly tannish, very
fine crystalline, slightly calcitic
limestone. Some fair, but mostly
poor crystalline porosity. Some
scattered oolite casts and some visible
fractures. Very poor fluorescence
and slight out in scattered pieces.
Some scattered pieces displayed de-
layed carbontetrachloride out and
fluorescence of a fair amount.

Due to the relatively low structural
positions of the Lansing zones, no
drill stem tests on these zones were
conducted.

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Based on the results of Drillstem Test No. 2, 5 1/2"
casing was run and cemented at 4409' for a completion attempt
in the Toronto.

A handwritten signature in cursive script, reading "W. R. Atkinson". The signature is written in dark ink and is positioned above the typed name.

W. R. Atkinson,
Geologist