

201122

WILLIAM R. ATKINSON

Geologist

P. O. Box 1142 Phone MAin 4-1673

14 West Second Street

Res. Ph. MAin 4-2257

LIBERAL, KANSAS 67901

GEOLOGICAL REPORT

Beacon Resources Corp.

DURCOIS #1

SE NE Sec. 27-34S-32W

Seward County, Kansas

by

WILLIAM R. ATKINSON

Geologist

GEOLOGICAL REPORT

Beacon Resources Corp.
#1 Dubois
C SE NE Sec. 27-34S-32W
Seward County, Kansas

Commencement Date: 10/26/69
Completion Date: 11/4/69
Elevation: 2742 K.B.
2732 G.L.
Total Depth: 4575 Driller
4572 Welox
Contractor: Sage Drilling Co., Rig #3
Electrical Surveys: Welox: Gamma-Guard and Radioactivity Logs
Casing: Surface: 13 3/8" @ 625'
8 5/8" @ 1500'
Production: None
Special Equipment: Baroid Gas Detecting Equipment from approximately 2860' to T.D. (Air/Gas intake line from trap to gas unit became pinched and did not allow free flow of air/gas while drilling from 2970 to 3070, at which time the condition was corrected.)

FORMATION TOPS AND STRUCTURAL COMPARISONS

	Beacon Resources #1 Dubois, C SE NE Sec. 27-34S-32W	Beacon Resources #1 Thompson, SW SW Sec. 26-34S-32W	Relative Position
Wreford	2962 (-220)	2968 (-225)	5' high
Council Grove	3012 (-270)	3016 (-273)	3' high
Porosity Zone	3148 (-406)	3151 (-408)	2' high
Heebner Shale	4368 (-1626)	4372 (-1629)	3' high
Toronto Limestone	4394 (-1652)	4402 (-1659)	7' high
Lansing Limestone	4534 (-1792)	4535 (-1792)	flat
Porosity Zone	4542 (-1800)	4542 (-1799)	1' low

SAMPLE DESCRIPTIONS AND DRILL STEM TESTS

Council Grove - 3012

3020-3040

Cream to light grey, very fine crystalline, slightly chalky, slightly dolomitic limestone. Probably contains fair porosity but of such small size that it is hard to evaluate visually. No shows.

3148-3164

Gray and tan, very fine crystalline, slightly dolomitic limestone. Some very small intercrystalline porosity. No shows. No fluorescence or cut. A 15 unit methane gas increase was logged from the top 6 feet of the zone which drilled soft, 5 units from the middle 4 feet which drilled hard and 6 units from the bottom 6 feet which drilled soft.

Drill Stem Test No. 1 was run on this zone.

D.S.T. #1 3148-3169 corrected to log depths.

(3152-3173 reported depths.)

Open 30 minutes with weak blow increasing to fair.

Shut In 30 minutes.

Reopened 60 minutes with fair blow increasing to good.

No gas to surface.

Shut In 45 minutes.

Recovered 1200 feet of gas in drill pipe, 240 feet of heavily gas cut mud and 180 feet of gas cut water.

Note: Due to savings in the hole, the tool opened 16 feet above bottom and slid to bottom after opening.

The pressure recorder charts indicated partial plugging of the anchor during the initial 30 minute flow period.

The 240 feet of mud described above was probably recovered as a result of the tool opening above bottom.

Chlorides of the recovered water were 52,000 p.p.m. cl.

from the middle sample and 60,000 p.p.m. cl. from the

bottom sample. Mud system filtrate water at the time

of drilling the zone contained chlorides of 32,000 p.p.m.

cl. concentration, indicating the water recovered during the test to be a combination of filtrate and formation water.

3256-3270

White to light gray, very fine crystalline limestone and tan very fine crystalline, slightly dolomitic limestone. No visible porosity, but some porosity is probably present that is of such small size that it is not visible microscopically. No shows. No gas increases.

This zone was specifically evaluated because of its favorable appearance on the log of the nearby #1 Thompson well. Drilling was suspended at 3271 and samples circulated out of the hole. Because of the complete absence of gas show from the zone, it was judged to be of no value at this location.

Toronto - 4394
4394-4418

The top 6 feet of this interval, from 4394 to 4400, was logged as white to gray, very dense, very fine crystalline

chalky, tight limestone with no visible porosity and no shows with an obvious streak of very black, carbonaceous shale, shown by the Welox log to be at 4397-99.

The remainder of the zone was logged as white and medium gray, fine to medium crystalline, rough textured, slightly chunky, chalky limestone with no visible porosity and no shows. What was originally thought to be very small methane gas increases from this zone, were later decided, from a more careful evaluation, to be recycles of shale gas which originated from the two black carbonaceous shale at 4358 and 4376 as shown by the Gamma Ray Log.

Lansing - 4534
4534-4542

Gray and tan, dense to microcrystalline, slightly chalky, cherty limestone with no visible porosity, no oil shows and no gas increases. Some tan, dense, oolitic, fossiliferous limestone was noted in this interval. The chert was described as white and light gray, speckled, sub-opaque, sharp and unweathered.

4542-4548

Gray and tan, dense to medium crystalline, very slightly dolomitized, very chalky, oolitic limestone and tan, very fine crystalline, dolomitized limestone with much gray and tan, opaque to subtranslucent, sharp chert. No visible porosity was evident in this interval although the partially dolomitized portions are believed to contain some porosity which is not visible even under 45 power magnification. No show of oil, oil odor, fluorescence or cut was present in any of this zone. Absolutely no gas increases were present in the mud system.

Because of the complete lack of evidence of oil and lack of mud gas increases, the zone was judged to be of no value at this location.

Because of the negative results of D.S.T. #1 and lack of shows in the Toronto and Lansing, the #1 Dubois was plugged and abandoned as a dry hole.

at 4575' T.D.

Original signed by:
W. R. Atkinson

W. R. Atkinson
Geologist

Benson Resources Corp.
 Dobeis #1
 SE NE Sec. 27-34S-32W
 Seward County, Kansas

DRILLING TIME

Drilling time by 1 ft. intervals from 2600 ft. to total depth.

2600-2610	2	-	2	-	2	-	2	-	2	-	3	-	2	-	2	-	2
-2620	2	-	2	-	2	-	2	-	1	-	2	-	1 1/2	-	1 1/2	-	2
-2630	2	-	2	-	2	-	2	-	1	-	2	-	1 1/2	-	1	-	2
-2640	1	-	1	-	2	-	2	-	2	-	1	-	2	-	2	-	1
-2650	2	-	1	-	2	-	1	-	2	-	2	-	2	-	2	-	3
-2660	2	-	3	-	3	-	3	-	3	-	2	-	3	-	2	-	3
-2670	3	-	2	-	3 1/2	-	4	-	3 1/2	-	3	-	3	-	2	-	2
-2680	2	-	1	-	2	-	2	-	2	-	2	-	2	-	2	-	1
-2690	2	-	1	-	2	-	1	-	1	-	2	-	1	-	1	-	2
-2700	1	-	1	-	1	-	2	-	1	-	1	-	1	-	2	-	1
2700-2710	2	-	2	-	2	-	1	-	1	-	2	-	2	-	1	-	2
-2720	3	-	3	-	2	-	3	-	2	-	2	-	1	-	2	-	2
-2730	2	-	2	-	2	-	3	-	2	-	2	-	2	-	1	-	2
-2740	3	-	2	-	2	-	2	-	3	-	2	-	2	-	2	-	3
-2750	1	-	1	-	1	-	2	-	1	-	1	-	2	-	2	-	1
-2760	1	-	1	-	2	-	1	-	2	-	2	-	1	-	2	-	1
-2770	2	-	1	-	2	-	1	-	1	-	2	-	2	-	1	-	1
-2780	2	-	2	-	3	-	2	-	3	-	2	-	3	-	2	-	2
-2790	3	-	3	-	2	-	3	-	3	-	2	-	2	-	2	-	3
-2800	2	-	1	-	2	-	2	-	2	-	2	-	2	-	1	-	1
2800-2810	1	-	2	-	1	-	2	-	1	-	3	-	2	-	2	-	3
-2820	1	-	1	-	2	-	1	-	2	-	2	-	2	-	1	-	1
-2830	1	-	2	-	2	-	1	-	2	-	2	-	2	-	1	-	1
-2840	2	-	2	-	1	-	2	-	2	-	2	-	1	-	2	-	1
-2850	2	-	1	-	1	-	1	-	2	-	2	-	2	-	1	-	1
-2860	1	-	1	-	3	-	2	-	3	-	2	-	2	-	2	-	3
-2870	3	-	2	-	3	-	2	-	3	-	3	-	2	-	2	-	2
-2880	3	-	3	-	3	-	3	-	3	-	2	-	2	-	2	-	3
-2890	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-2900	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3
2900-2910	3	-	4	-	3	-	3	-	4	-	3	-	3	-	2	-	3
-2920	3	-	2	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-2930	3	-	4	-	4	-	4	-	4	-	3	-	3	-	3	-	3
-2940	3	-	4	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-2950	3	-	2	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-2960	3	-	4	-	4	-	4	-	4	-	3	-	3	-	3	-	3
-2970	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-2980	3	-	1	-	1	-	3	-	3	-	3	-	3	-	3	-	3
-2990	4	-	4	-	4	-	4	-	4	-	3	-	3	-	3	-	3
-3000	4	-	4	-	3	-	4	-	3	-	3	-	3	-	3	-	3

Bit Trip @ 2786

Page 2

3000	3010	3	1	2	3	4	5	6	7	8	9	0
-3020	2	1	2	3	4	5	6	7	8	9	0	1
-3030	2	1	2	3	4	5	6	7	8	9	0	1
-3040	1	1	2	3	4	5	6	7	8	9	0	1
-3050	1	1	2	3	4	5	6	7	8	9	0	1
-3060	2	1	2	3	4	5	6	7	8	9	0	1
-3070	2	1	2	3	4	5	6	7	8	9	0	1
-3080	2	1	2	3	4	5	6	7	8	9	0	1
-3090	2	1	2	3	4	5	6	7	8	9	0	1
-3100	2	1	2	3	4	5	6	7	8	9	0	1

[illegible]

D.S.T. #1 317b

3200-3210	4	-	1	-	1	-	2	-	2	-	3	-	3	-	3
-3220	4	-	2	-	3	-	1	-	1	-	2	-	1	-	3
-3230	2	-	2	-	1	-	1	-	1	-	1	-	1	-	1
-3240	2	-	1	-	2	-	1	-	2	-	1	-	1	-	2
-3250	1	-	1	-	1	-	2	-	2	-	1	-	1	-	1
-3260	4	-	1	-	3	-	2	-	3	-	3	-	3	-	2
-3270	2	-	2	-	2	-	2	-	2	-	1	-	1	-	1
-3280	1	-	1	-	1	-	3	-	4	-	3	-	4	-	4
-3290	3	-	2	-	3	-	1	-	2	-	3	-	4	-	3
-3300	4	-	3	-	4	-	3	-	4	-	4	-	4	-	3

[illegible][illegible]

Henson Resources Corp.
Lubeis #1 Lubeis #1
SE NE Sec. 27-34S-32W
Seward County, Kansas
Drilling Time

Page 3

[illegible][illegible]

3600-3610	3	-	4	-	4	-	5	-	3	-	3	-	2	-	2	-	3	-	2
-3620	1	-	1	-	2	-	1	-	1 $\frac{1}{2}$	-	1 $\frac{1}{2}$	-	1 $\frac{1}{2}$	-	2	-	2	-	2
-3630	3	-	4	-	4	-	4	-	3	-	2	-	2	-	1 $\frac{1}{2}$	-	1 $\frac{1}{2}$	-	1
-3640	1	-	1	-	2	-	2	-	3	-	1	-	3/4	-	3/4	-	1 $\frac{1}{2}$	-	1 $\frac{1}{2}$
-3650	1 $\frac{1}{2}$	-	2	-	2	-	2 $\frac{1}{2}$	-	2 $\frac{1}{2}$	-	2 $\frac{1}{2}$	-	2	-	1 $\frac{1}{2}$	-	2	-	2
-3660	2	-	1 $\frac{1}{2}$	-	1 $\frac{1}{2}$	-	1	-	2	-	2	-	2	-	2	-	2	-	2
-3670	2	-	2	-	2 $\frac{1}{2}$	-	2 $\frac{1}{2}$	-	2 $\frac{1}{2}$	-	2 $\frac{1}{2}$	-	4	-	4	-	4	-	4
-3680	5	-	3 $\frac{1}{2}$	-	3 $\frac{1}{2}$	-	4	-	3 $\frac{1}{2}$	-	4	-	4 $\frac{1}{2}$	-	4	-	3 $\frac{1}{2}$	-	3
-3690	4	-	4	-	4	-	4 $\frac{1}{2}$	-	4 $\frac{1}{2}$	-	4	-	4	-	3	-	3	-	3
-3700	3	-	3	-	3	-	3	-	3	-	2	-	3	-	3	-	3	-	2

3700-3710	2	2	1	1	2	2	3	2	2	2
-3720	2	2	1	2	2	2	2	2	2	2
-3730	2	3	2	3	3	3	3	3	3	3
-3740	3	3	3	3	3	2	3	3	3	3
-3750	2	2	2	3	3	3	2	3	3	3
-3760	3	3	1	1	2	1	2	1	2	1
-3770	2	1	1	1	2	1	1	2	1	1
-3780	1	2	1	1	2	1	1	1	2	1
-3790	1	1	2	1	1	2	1	1	2	1
-3800	1	2	1	1	1	2	1	1	1	1

3600-3810	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
-3820	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 2
-3830	1 - 1 - 1 - 1 - 1 - 1 - 2 - 1 - 1 - 1 - 1
-3840	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 2 - 1 - 1
-3850	1 - 2 - 1 - 2 - 2 - 1 - 1 - 2 - 1 - 1 - 1
-3860	2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
-3870	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
-3880	1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
-3890	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
-3900	1 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 1 - 1 - 1

Trip # 3751

Bescon Resources Corp.
 Dubois #1
 SE NE Sec. 27-34S-32W
 Seward County, Kansas
 Drilling Time

Page 4

3900-3910	1 1/2	1	1	3	2	2 1/2	1 1/2	2	2	2
-3920	1 1/2	2 1/2	2	1	2 1/2	2 1/2	2 1/2	2	1 1/2	2
-3930	1 1/2	2	2	1	2 1/2	2	3	3	3	2 1/2
-3940	3 1/2	3	1 1/2	2	2	2	2	1 1/2	2	2
-3950	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	1 1/2	2	2	2
-3960	1	1	2	1 1/2	2	1 1/2	2 1/2	2 1/2	2	2 1/2
-3970	2	3	2	3	3	2	2	2	1	3
-3980	4	3	1	1	3	3	1	2	2	2
-3990	2	2	2	1	2	2	2	2	2	2
-4000	2	2	1	2	2	2	2	2	2	2
4000-4010	1	2	2	2	2	2	2	2	3	2
-4020	3	2	2	2	2	2	2	2	2	2
-4030	2	3	2	2	2	2	2	2	2	2
-4040	1	2	2	2	2	2	2	1	2	2
-4050	2	2	2	2	2	2	2	2	3	2
-4060	3	3	2	2	2	2	2	2	2	2
-4070	2	3	2	2	2	2	2	1	2	2
-4080	1	2	2	1	2	2	2	2	2	2
-4090	2	1	3	2	2	2	2	2	2	2
-4100	3	2	3	2	2	2	2	2	2	2
4100-4110	2	2	2	1	2	2	2	2	4	4
-4120	6	3	4	3	3	2	1	2	2	2
-4130	1	1	2	1	1	2	2	1 1/2	1 1/2	1
-4140	1	1	1	1 1/2	1 1/2	1	1 1/2	1 1/2	1	1
-4150	1	1	1	1	1	1 1/2	1 1/2	1	1	1
-4160	1	1	1	1 1/2	1 1/2	1	1	1	1 1/2	1
-4170	1	1	1	1	1	1	1	1	1	1 1/2
-4180	1	1 1/2	1	1	1	1	1	2	1 1/2	2 1/2
-4190	1 1/2	1	1 1/2	1 1/2	1 1/2	1	1 1/2	1 1/2	1 1/2	1
-4200	1	1 1/2	2	1	1 1/2	1	1 1/2	1	1	1
4200-4210	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2	1	1 1/2	1
-4220	1	1 1/2	1	1 1/2	1 1/2	1	1	1	1	1
-4230	1 1/2	1 1/2	1 1/2	1 1/2	1	1	1	1	1 1/2	1 1/2
-4240	1	1	1	1	1	1	1 1/2	1	1 1/2	1
-4250	1 1/2	1 1/2	1 1/2	2	1 1/2	1	1 1/2	1	1 1/2	1
-4260	1 1/2	1 1/2	1 1/2	1	1	1 1/2	1 1/2	2	1 1/2	1 1/2
-4270	1 1/2	1 1/2	1 1/2	1	1 1/2	1 1/2	1	1	1	1
-4280	1	1 1/2	1	1	1	1	1 1/2	1 1/2	1	1
-4290	1 1/2	1 1/2	1	1	1	1	1	2	1 1/2	1
-4300	1	1	1 1/2	1 1/2	1	1 1/2	1	1 1/2	1 1/2	1
4300-4310	1 1/2	1	1	1	1	1 1/2	1 1/2	1	1	1
-4320	1 1/2	1 1/2	1	1	1 1/2	1 1/2	1 1/2	1 1/2	1	1
-4330	1 1/2	1 1/2	1	1	1	1	1 1/2	1	1	1
-4340	1	1	1	1	1	1	1	1	1 1/2	1 1/2
-4350	2	2	2	2	2	1	1 1/2	2	2 1/2	2 1/2

Trip @ 4111

Ed 1122

Beacon Resources Corp.
 Dubois #1
 SE NE Sec. 27-34N-32W
 Seward County, Kansas
 Drilling Time

Page 5

4350-4360	1 1/2	1 1/2	1 1/2	1 1/2	1	1	1	1	1 1/2	1
-4370	1	1	1	1	2	1 1/2	2 1/2	1	2	2
-4380	2	2	2	2	1 1/2	1 1/2	1	1	1	1
-4390	1	1	1	2	2 1/2	2	2 1/2	2 1/2	1 1/2	1 1/2
-4400	1 1/2	1 1/2	1 1/2	2	1 1/2	1 1/2	2	2	2 1/2	2 1/2
4400-4410	2	1 1/2	2	1 1/2	2	2	2	2 1/2	2	2 1/2
-4420	2	2	2	1 1/2	2	2	2 1/2	2 1/2	2 1/2	4
-4430	3	2 1/2	2 1/2	2	3	2	2	1 1/2	1 1/2	2
-4440	1	1 1/2	1 1/2	2	1	1 1/2	1 1/2	1	2	2
-4450	2	2	2	3	2 1/2	2 1/2	2	2	3	4
-4460	3	2 1/2	3 1/2	3	3	3	3	3 1/2	3 1/2	3 1/2
-4470	4	2 1/2	3	3 1/2	4	2	3	3	2 1/2	2 1/2
-4480	3	2	2 1/2	2 1/2	2 1/2	2 1/2	3	3 1/2	4 1/2	4
-4490	3 1/2	3 1/2	3	3	3	2	2 1/2	2 1/2	4	3
-4500	3	3	2	3	3	3	3	3	3	2
4500-4510	3	2	3	2	3	3	3	3	2	2
-4520	3	2	2	2	2	2	2	2	2	2
-4530	2	2	2 1/2	2	2	2	2 1/2	2	3	2
-4540	3	3	3	4	3	3	2 1/2	3	3 1/2	3 1/2
-4550	4	4	4	3 1/2	5	2	2	2 1/2	2	2
-4560	2 1/2	3	5	6	6	6	7	6	6	8
-4570	9	7	7	9	6	5 1/2	7	7 1/2	7 1/2	8 1/2
-4575	7	8	10 1/2	11	10 1/2					

Trip @ 4488

T.D. 4575