

Look at 4-35-32
33 1/2 34-34-32

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GEOLOGICAL REPORT

Reason Resources Corporation

51 Thompson
NW SW Section 26-34S-32W
Seward County, Kansas

by

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Beacon Resources Corp.
#1 Thompson

NW SW Sec. 26-34S-32W
Seward County, Kansas

Commencement Date:	4/1/68	Casing:	
Completion Date:	4/18/68	Surface:	8 5/8" @ 1508'
Elevation:	2743 K.B. (Datum)	Production:	none
	2732 B.L. (Nixon & Seaman)	Special Equipment:	
Total Depth:		Baroid Gas Detecting	
Driller	6440	Unit from approx. 3800' to	
Schlumberger	6444	T.D.	
Contractor:	Zenith Drilling Corp., Inc.	Production:	D&A
Electrical Surveys:	Schlumberger		
	Dual Induction- Laterolog and		
	BHC Zonic-Gamma		
	Ray-Caliper		

Drilling of this hole was witnessed from approximately 4300' to total depth.

FORMATION TOPS AND STRUCTURAL COMPARISONS

	Beacon Resources Corp. #1 Thompson NW SW Sec. 26-34S-32W	Ambassador Oil Corp. #1 Lancaster SW SE Sec. 27-34S-32W	Relative Position
	(2743 K.B.)	(2747 K.B.)	
Toronto Limestone	4402 (-1659)	4404 (-1657)	2' low
Lansing	4535 (-1792)	4540 (-1793)	1' high
Kansas City	4835 (-2092)	4828 (-2081)	11' low
Marmaton	5229 (-2486)	5230 (-2483)	3' low
Cherokee	5474 (-2731)	5469 (-2722)	9' low
Morrow Shale	5833 (-3090)	5824 (-3077)	13' low
Lower Morrow Sand	5980 (-3237)	5982 (-3235)	2' low
Mississippian			
Chester-	6063 (-3320)	6076 (-3329)	9' high
Ste. Genevieve	6432 (-3689)	-----	-----

SAMPLE DESCRIPTIONS

Toronto Limestone

4402-4428 White to medium gray, crystalline to lithographic, fossiliferous, chalky limestone. Some vugular porosity. No shows. No mud gas increases.

4442-4506 White to light gray, crystalline, chalky, fossiliferous limestone. Fair crystalline and vug porosity 4464 to 78. no shows.

Lansing

4535-4554

Gray, very fine crystalline, oolitic and oolitic, slightly dolomitic limestone. Fair fluorescence, very slight cut in carbontetrachloride, no free oil and very slight stain in part. Good visible porosity. Forty unit methane gas increase from 4542 to 4555 and 10 units methane from 4555 to 4559. This zone, which did not have porosity developed in the Ambassador Oil #1 Lancaster in SW SE Sec. 27, was covered by drill stem test #1.

D.S.T. #1 4541 to 4561 (corrected to log depths)
Open 30 min, shutin 30 min, open 45 min, shutin 45 min. Strong blow initially, decreasing to week at end.

OTS/30 min. T.S.T.M.

Res. 850' total fluid, which was 270' gassy, slightly mud out oil, 150' oil and gas out mud and 430' gas and slightly oil out salt water.

Oil gravity = 42° at 52° F.

Rw = .06 @ 76° F.

ISIP- 1026/30 min. field reading, 1028 office reading.

PSIP- 1039/45 min. field reading, 1042 office reading.

FP- 71-159 and 275-329 field reading, 278-331 office reading.

NH- 2143-2140 field reading, 2145-2142 office reading

BHT- 128° F

4554-4594

Light to dark gray, dense non-porous limestone with gray and black sharp chert. Streaks of dark gray to black micaceous shale. No shows.

4594-4614

Medium gray fine crystalline very chalky slightly fossiliferous limestone. Fair, fine crystalline porosity. No shows.

4614-4646

Medium to dark gray, crystalline to dense, very chalky, cherty, fossiliferous limestones with streaks of vuggy and crystalline porosity. No shows or mud gas increases.

4646-4832

Gray crystalline to dense, fossiliferous, cherty, chalky limestones as above with streaks of vug, crystalline and some oolitic porosity interbedded with streaks of very fine crystalline brown dolomite and dolomitic lime. No shows.

Kansas City

4835-4866

White to light gray, fine to medium chrystalline oolitic, fossiliferous, slightly chalky limestone. Fair to good crystalline and oolitic porosity from 4846-4858. No shows. Gray and white, oolitic, opeque chert.

4866-4940

Dull gray to white, chalky, cherty, dense to medium crystalline, fossiliferous limestones with streaks of crystalline and fossiliferous porosity. No shows. Interbedded dark gray and black shale. Sample quality poor.

4940-5000

Sample quality through this interval was very poor. The interval is believed to consist of medium gray, very fine crystalline, fossiliferous, slightly chalky limestones with small vug and fossiliferous porosity and gray very fine crystalline finely oolitic and oolitic, chalky limestones. No shows.

5000-5048

Medium gray and tan, chalky, slightly cherty limestone with streaks of oolites and interbedded dark gray and black shale.

5048-5072

Cuttings representative of this zone were never present in the samples. From the rapid rate of penetration through this zone, less than 1/2 minute per foot, and knowledge based on experience in the area, this zone is believed to consist of very fine crystalline oolitic and oolitic limestone. A 3 unit methane gas increase was logged from 5048-5061. At this depth the #1 Thompson is 16 feet structurally low to the #1 Lancaster in Sec. 27 where this particular zone drill stem tested slightly gas out salt water. Because of the relatively low structural position and small gas show from the zone, no drill stem test was conducted on the #1 Thompson.

5072-5229

Medium to dark gray, fine crystalline to dense, slightly chalky, cherty limestones interbedded with gray to light tan fine crystalline oolitic limestones with some small vug and oolitic porosity with no shows. Much interbedded gray shale throughout the interval. Streaks of slightly dolomitic lime were noted.

Marston

5229-5300

Dark gray and brown, fossiliferous limestone with some brownish-black chert interbedded with white to medium gray very fine crystalline coarsely oolitic limestone with large white shelled oolites. Some scattered oolites. Slightly chalky throughout. No shows. Interbedded dark

gray and black shale. Some light gray, sublithographic, nonoolitic lime.

5300-5312 Ten very fine crystalline limestone with large white shelled oolites. Trace of small intercrystalline porosity in part. Slightly chalky. 6 unit methane gas increase from 5304 to 5308. Very slight questionable fluorescence in part. No show of oil or staining.

5312-5474 Light gray, dense sublithographic, cherty, chalky limestone interbedded with white to light gray, oolitic, crystalline, very chalky limestones and gray, chalky shales. No visible porosity, no shows.

Cherokee (& Atoka)

5474-5633 Dark gray and brownish, dense sublithographic and coarse crystalline, very cherty, very chalky, partly fossiliferous limestones interbedded with gray chalky shales and black carbonaceous shales below 5650. No visible porosity was noted in any of the limestones and methane gas increases attributable to lime zones were impossible to detect because of the high gas readings caused by the black shales.

Morrow

5633-5922 Dark gray and black fissile shales with streaks of dirty, silty very fine grained quartz sand and gray, brown and black, chalky, dense lime and slightly sandy brown dense lime.

Forty to 50 units of methane gas were carried in the mud system throughout this interval. Although no clean Upper Morrow type sands were noted in the samples, drill stem test #2 was run in order to positively condemn the interval.

D.S.T. #2 5828 to 5919 (log depths)

open 10 min, shutin 30 min, open 20 min, shutin 30 min. Weak blow for 22 min. and died.

Rec. 15' mud with no shows.

ISIP-40/30 min. field reading, 43/30 min office reading.

FSIP- 33/30 min. field reading, 30/30 min office reading.

FP-33-33 field reading, 30-30 office reading.

NH- 2968-2946 field reading, 2970-2949 office reading.

BHT- 131° F

Middle Morrow

5922-5944 Dirty dark gray shaley, sandy limestone and a trace of white to gray, fine grained very limey, slightly glauconitic quartz sand interbedded with much gray and black shale. Because a drilling break and 10 unit methane gas

increase correlatable to 5944 to 5950 was mistakenly thought to be caused by the presence of sand as described above, drill stem test no. 3 was run.

D.S.T. #3 5944-5964 (log depths)

Open 10 min, shutin 20 min, open 10 min, shutin 20 min.

Very weak blow for 10 min.

Recovered 15' mud with no shows.

ISIP- 18/20 min, field readings, 20/20 min. office readings.

PSIP- 18/20 min, field readings, 20/20 min. office readings.

FP- 18-18 field readings, 20-20 office readings.

HH- 3057-3035 field readings, 3059-3037 office readings.

BHT- 133° F

Lower Morrow
5980-6032

Gray, limey, fine grained, glauconitic, quartz sand interbedded with streaks of brown to tan coarse crystalline, fossiliferous, sandy, slightly chalky limestone and interbedded black shale streaks. Poor to fair visible porosity and very slight faint fluorescence in cleaner pieces of sand. Methane gas increases of from 35 units to 75 units were present through the interval.

Irregular drilling rate and gas increases were indicative of streaks of relatively low porosity. Drill stem test no. 4 was run to test this interval.

D.S.T. #4 5994-6064 (log depths)

Open 10 min, shutin 30 min, open 60 min, shutin 45 min.

Strong blow throughout.

OTS/20 min. (10 min. after 2nd opening)

Gas gauged 2 MCF in 15 min.

Gas gauged 3 MCF in 20 min.

Gas gauged 18 MCF in 25 min.

Gas gauged 16 MCF in 30 min.

Gas gauged 15 MCF in 35 & 40 min.

Gas gauged 17 MCF in 45 min.

Gas gauged 19 MCF in 50 min.

Gas gauged 18 MCF in 55 & 60 min.

ISIP- 583/30 min. field reading, 581/30 min. office reading.

PSIP- 1813/45 min. field reading, 1813/45 min. office reading.

FP- 110-114 & 154-176 field reading, 105-108 & 154-176 office reading.

HH- 3147-3069 field reading, 3149-3072 office reading.

BHT- 132° F

Mississippian
Chester
6063-6432

Tan, coarse crystalline to dense very, very chalky, faintly oolitic, fossiliferous, slightly cherty limestones interbedded with gray and black shales and gray claystones. No sandstones were developed in the lower

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Chester interval from 6350 to 6432 as expected. Due to extremely high gas contamination of the mud system during D.S.T. #4, no valid gas readings were possible between 6034 and approximately 6200 feet. However, no effective porosity is present in this interval because of the exceptionally high chalk content of the limestones.

Ste. Genevieve
6432-6444 T.D.

Medium gray, tight, very hard, fine sandy limestone.
No shows.

Due to the low quality porosity and low permeability developed in the Lower Morrow Sand and high water content in the Lansing A zone, the #1 Thompson was abandoned as noncommercial.

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G.S.D.

CASH

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