

O'Brien Energy Resources, Inc.
Stoltzfus No. 1-34
Section 34, T33S, R29W
Meade County, Kansas
August, 2015

Well Summary

The Stoltzfus No. 1-34 was drilled to a total depth on 6400' in the St. Louis Formation in 115 rotating hours. It was drilled approximately 2200' to the East of the Clayton No. 1-33. The Heebner, Toronto and Lansing ran 9', 5' and 13' low relative to this offset. The Marmaton and Cherokee came in 7' low. The Morrow 2' low and the Ste. Genevieve and St. Louis 16' and 6' high.

Minor hydrocarbon shows were documented in the Morrow. An Upper Morrow Sandstone(5736'-5748') consists of a Sandstone in 10% of the samples: White, light brown to buff, Hard To friable in part, very fine upper, well sorted, subround grains, siliceous and clay cement, slightly calcareous, clean to marly in part, tight to occasionally fair intergranular porosity, some clay infill, light mottled pale blue hydrocarbon fluorescence in all the sandstone, slow streaming to bleeding cut, no stain, show dissipates and interbedded with Shale. A 320 Unit gas increase was documented.

A 260 Unit gas increase was documented from a lower Morrow Sandstone from 5810' to 5818' and with similar lithology type as above but with no hydrocarbon show noted.

Minor shows were documented in the Chester, Basal Chester and St. Louis Formation.

The Stoltzfus No. 1-34 was plugged and abandoned 9/3/15.

Respectfully Submitted,

Peter Debenham

WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH
Geologist: Paul Wiemann – Denver, CO

Prospect Geologist: Ed Schuett and Dave Ward

Well: Stoltzfus No. 1-34, Mohler Field

API No.: 15-119-21392

Location: 660' FNL & 660' FWL, Section 34, T33S, R29W, Meade County, Kansas – South of Meade.

Elevation: Ground Level 2539', Kelly Bushing 2552'

Contractor: Duke Drilling Rig No. 7, Type: Double jackknife, double stand, Toolpusher Gaylen Roach, Drillers: Jeremy Adelhard, Craig Mertens, Steven Green

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 8/25/15

Total Depth: 9/2/2015, Driller 6400', Logger 6399', St. Louis Fm.

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1496'.

Mud Program: Winter Mud, engineer Kris McCure

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' to 4700', 20' to 5200', 10' to TD. Dry sample cut sent to KGS Sample Log Library – Wichita, kS.

Electric Logs: Weatherford, engineer Miles Wilkins, 1)Array Induction, 2)Photo Density/Neurton, 3) Microlog – High Res. repeat section.

Status: Plugged and abandoned 9/2/15.

WELL CHRONOLOGY

<u>10 PM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	8/25	100'	100'	Move to location and rig up rotary tools. Mix spud mud. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 100'.
	8/26	1250'	1150'	Surveys(1/4 – 1 deg.). Service rig and mix mud and jet pits.
	8/27	1496'	246'	To 1496' and circulate. Trip out and run and cement 35 joints of new 8 5/8" casing set at 1496' with 350 sacks A-con(3%cc & 1/4 lb floeal) and 150 sacks tail – did circulate. Plug down 3 pm. Wait on cement. Jet cellar and mix mud.
	8/28	2360'	864'	Wait on cement. Nipple up and pressure test BOP(250 lbs/30 min.). Drill plug and cement and 7 7/8" hole to 1695' and trip for Bit No. 3. Tighten BOP chains and repack swivel packing. Trip in. Tap off cement and drill to 2360'.
	8/29	3600'	1240'	Clean suction. Displace mud system at 2600'. Surveys(1/2 – 3/4 deg.).
	8/30	4880'	1280'	Surveys(1 1/2 - 1/4 deg.).
	8/31	5533'	653'	To 5025' and circulate and wiper trip 40 stands and circulate. Surveys(1 1/4 – 3/4 deg.). Work on pump – replace valve and seat.
	9/1	6320'	787'	Survey(1/4 deg.) and service rig and adjust breaks.
	9/2	6400'TD	80'	Drill to 6400'TD and circulate. Short trip 63 stands and circulate. Trip out for logs and run elogs. Trip in and circulate. Trip out laying down and plug and abandon well.
	9/3	TD		Plug and abandon and rig down.

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	HTC	DP506F	12 1/4"	1496'	1496'	29 1/4
2	HTC	DP506	7 7/8"	1695'	199'	3 1/4
3	HTC	DP506	7 7/8"	6400'	4705'	83
Total Rotating Hours:						115.5
Average:						55.4 ft/hr

DEVIATION RECORD - degree

192' 1/4, 715' 1, 1188' 1 1/4, 1496' 3/4, 2013' 1/2, 2491' 1/4, 2998' 3/4, 3502' 1/2, 4006' 1/4, 4515' 1 1/2, 4706' 1 1/4, 4898' 1 1/4, 5120' 1 1/4, 6105' 1/4

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>WL</u>	<u>pH</u>	<u>CL</u>	<u>LCM-LBS/BBL</u>
8/26	638'	9.6	38	10	22	nc	7.0	800	8
8/27	1496'	9.8	38	12	24	nc	7.0	39K	12
8/28	1759'	8.5	40	6	21	nc	7.0	29K	tr
8/29	2921'	8.3	49	18	9	12.4	9.5	8.3K	4
8/30	4198'	9.3	34	9	6	18.4	9.0	6.1K	2
8/31	5056'	9.4	48	17	13	9.0	11.5	4.1K	5
9/1	5961'	9.5	46	17	12	8.4	11.5	4.3K	8
9/2	6400'	9.1	71	30	18	7.4	11.5	3.9K	10

ELECTRIC LOG FORMATION TOPS- KB Elev. 2552'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Clayton No. 1-33</u>	
			<u>DATUM</u>	<u>POSITION</u>
Surface casing	1493'			
Heebner	4412'	-1860'	-1851'	-9'
Toronto	4440'	-1888'	-1883'	-5'
Lansing	4476'	-1924'		
Marmaton	5215'	-2663'	-2669'	+6'
Cherokee	5408'	-2856'	-2863'	+7'
Atoka	5602'	-3050'	-3053'	+3'
Morrow	5736'	-3184'	-3182'	-2'
Mississippi Chester	5829'	-3277'	-3271'	-6'
Ste. Genevieve	6133'	-3581'	-3597'	+16'
St. Louis	6249'	-3697'	-3703'	+6'
TD	6400'			

*O'Brien Energy, Clayton No. 1-33, 990'FNL & 1650'FEL, Section 33, 33S, 29W, K.B. Elevation 2578', app. 2200' to the West, K.B. Elev. 2575'.