

O'Brien Energy Resources, Inc.

Atkinson No. 1-3

Section 3, T33S, R29W

Meade County, Kansas

February 2015

Well Summary

The O'Brien Energy Resources, Atkinson No. 1-3 was drilled to a total depth of 6400' in the Mississippian Spergen Formation. It offset the Borchers No. 1-34 by approximately 1200' to the Southwest. The Heebner, Toronto and Lansing ran 2' high relative to this offset. The Marmaton, Cherokee and Atoka came in 8', 7' and 10' low respectively. The Morrow 19' low and the Chester and Ste. Genevieve 8' and 10' low. Just minor hydrocarbon shows were documented in the upper Chester and Basal Chester. The St. Louis porosity zone was not developed nor was a Morrow reservoir sandstone. The Atkinson No. 1-3 was plugged and abandoned on 2/11/15.

Respectfully Submitted,

Peter Debenham

WELL DATA

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

Prospect Geologist: David Ward, Ed Schuett, Denver

Well: Atkinson No. 1-3, Borchers Northwest Field

API: 15-119-21387

Location: 660' FNL & 1820' FEL, Section 3, T33S, R29W, Meade County, Kansas
– Southeast of Plains.

Elevation: Ground Level 2628', Kelly Bushing 2640'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, double stand, Toolpusher
Emidgio Rojas, Drillers: Victor Martinez, Alejandro V., Fernando Juroeb

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 2/5/15

Total Depth: 2/11/15, Driller 6400', Logger 6402', Spergen Formation

Casing Program: 35 joints of new 8 5/8", J-55, 24Lbs/ft, set at 1483' with 400 sacks A Com
Blend(3% cc, ¼ lb Floseal) and 150 sacks tail. Plug down 11:45 AM
2/7/15.

Mud Program: Service Mud/MudCo. Engineer Brad Bortz, displaced 2800', Chem.
gel/LCM.

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

Samples: 30' to 5700', 20' to TD.

Electric Logs: Weatherford, engineer Ben Weldin , Array Induction, Compensated
Neutron/Density, Microlog, Hi Res.

Status: Plugged and abandoned 2/12/15.

WELL CHRONOLOGY

<u>6 AM</u>			
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
2/5	335'	335'	move Rig and rig up rotary tools. Pump water and mix spud mud. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 335'.
2/6	1232'	997'	To 1183' and lost circulation. Trip out and mix mud and LCM. Trip in and circulate and ream 90' to 1183' and work on trash pump.
2/7	1520'	288'	Clean mud pump and suction pit. To 1490' and circulate and trip out and run and cement 35 joints of new 8 5/8" 24 Lbs/ft J55 set at 1483 by Basic with 400 sacks of A-Com(3% cc, 1/4#/bbl floseal) tailed with 150 sacks Class A. Plug down 11:45 am – did circulate. Wait on cement. Nipple up BOP and trip in with Bit No. 2 and pressure test BOP to 300 PSI/15 min. Drill plug and cement and new hole to 1520'.
2/8	2997'	1477'	Service rig and hold safety meeting. Displace mudsystem at 2997'. Survey(1 deg.).
2/9	4750'	1753'	Surveys(1 1/4 - 1 deg.).
2/10	5730'	980'	To 5021' and circulate and wiper trip 55 stands.
2/11	6400'TD	670'	To 6400'TD and circulate and short trip 60 stands. Drop survey(1 3/4 deg.) and trip out for logs and run Elogs. Trip in and circulate and trip out laying down and plug and abandon well. Rig down.

BIT RECORD

<u>NO.</u>	<u>MAKE</u> <u>HOURS</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	
1	STC	PH616	12 1/4"	1490'	1490'	18
2	HTC	PLT616	7 7/8"	6400'	4910'	67 1/2
						Total Rotating Hours:
						Average:
						Ft/hr

DEVIATION RECORD - degree

2524' 1, 3536' 1 ¼, 4578' 1, 6400' 1 ¾

MUD PROPERTIES

<u>DATE</u> <u>LBS/BBL</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	<u>LCM-</u>
2/6	1205'	9.0	42	Water					
2/7	1490'	Water							
2/8	2101'	9.1	28			7.0	nc	48K	tr
2/9	3950'	9.1	50	15	15	11.0	8.8	5K	2
2/10	5140'	9.2	64	16	17	11.5	8.8	3K	4
2/11	6155'	9.4	55	15	16	11.5	8.8	3k	5

ELECTRIC LOG FORMATION TOPS- KB Elev. 2640'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Borchers No. 1-34</u> <u>DATUM</u>	<u>POSITION</u>
Casing	1483'			
Heebner	4412'	-1772'	-1774'	+2'
Toronto	4436'	-1796'	-1796'	0'
Lansing	4550'	-1910'	-1912'	+2'
Marmaton	5188'	-2548'	-2540'	-8'
Cherokee	5364'	-2724'	-2717'	-7'
Atoka	5608'	-2968'	-2958'	-10'
Morrow	5660'	-3020'	-3001'	-19'
Mississippi Chester	5706'	-3066'	-3058'	-8'
Ste. Genevieve	6006'	-3366'	-3356'	-10'
St. Louis	6124'	-3484'		
Spergen	6362'	-3572'		
TD	6400'			

*O'Brien Energy Resources, Boarchers No. 1-34, 300'FSL & 1110'FEL, Sec. 34 – app. 1200' to the NE, K.B. Elev. 2654'.