

**O'Brien Energy Resources, Inc.**

**Roger Davis No. 1-17  
Section 17, T33S, R29W**

Meade County, Kansas

March, 2016

**Well Summary**

The O'Brien Energy Resources, Corporation, Roger Davis No. 1-17 was drilled to a total depth of 6350' in 100 rotating hours and without any problems. It was drilled 1325' south of the Roberts No. 1-8. Formation tops ran low relative to this offset. The Heebner, Toronto and Lansing formations ran 7', 9' and 11' low respectively. The Atoka and Morrow came in 21' low. The primarily objective Morrow "B" Sandstone proved tight and came in 28' low. The Mississippi Formation all came in 26' low.

The only show of quality occurred in the Morrow "C" Sandstone and consists of a sandstone in 15 % of the sample: Light to medium mottled brown, hard, dense, very fine upper to fine lower, well sorted subround grains, calcareous cement, clean to marly in part, tight to occasional trace intergranular and vuggy porosity, light speckled blue hydrocarbon fluorescence in 10% of the samples, slow light blue bleeding to streaming cut, no live oil and questionable staining. A 160 Unit gas increase was documented. This zone ran 26' low to the Roberts No. 1-8 which production tested wet.

The Roger Davis No. 1-17 was plugged and abandoned 3/9/16.

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: Roger Davis No. 1-17, Angell South Field

Location: 990' FNL & 2310' FWL, Section 17, T33S, R29W, Meade County, Kansas – Southeast of Plains.

Elevation: Ground Level 2690', Kelly Bushing 2702'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, triple stand, Toolpusher Emigdio Rajas, Drillers: Victor Martinez, Alejandro V., Fernando Jurado

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 3/1/16

Total Depth: 3/8/16, Driller 6350', Logger 6349', St. Louis Formation

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1492'.

Mud Program: Winter Mud engineer Kris McCune, displaced 2620', 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. One set dry cut sent to the KGS sample log library, Wichita, KS.

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

Status: Plugged and abandoned 3/9/16

**WELL CHRONOLOGY**

<b>6 AM</b>			
<b><u>DATE</u></b>	<b><u>DEPTH</u></b>	<b><u>FOOTAGE</u></b>	<b><u>RIG ACTIVITY</u></b>
3/1			Move to location and rig up rotary tools. Drill pipe inspection.
3/2	900'	900'	Rig up and mix spud mud. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 900'. Survey(1 deg.).
3/3	1500'	600'	To 1500' and circulate. Trip out and rig up casing crew and run and cement 35 joints of new 8 5/8", J-55 STC set at 1492' with 325 sacks Class A Con Blend tailed with 150 sacks Class C(3%cc & 1/4 lb floeal, 2% gel). Cement did circulate. Plug down 12 PM. Wait on cement. Nipple up and pressure test BOP to 500 psi/15 minutes. Drill plug and cement.
3/4	2620'	1120'	Drill 7 7/8" hole to 1590' and trip for Bit No. 3. To 2620'. Survey(1 deg.). Clean pits for displacement. To 2620' and drop survey(1 deg.) and trip for balled bit. Displace mud.
3/5	4020'	1400'	Displace and bit trip. Survey(1 deg.).
3/6	5185'	1165'	Survey(1 1/4 deg.). to 5000' and circulate and wiper trip 38 stands. To 5185'.
3/7	6025'	840'	
3/8	6350'TD	325'	To 6350'TD and circulate. Short trip and circulate. Drop survey(1 deg.) and trip out for logs. Run Elogs.
3/9	TD		Run Logs. Trip in and circulate. Trip out laying down and plu and abandon well. Rig down.

**BIT RECORD**

<b><u>NO.</u></b>	<b><u>MAKE</u></b>	<b><u>TYPE</u></b>	<b><u>SIZE</u></b>	<b><u>OUT</u></b>	<b><u>FOOTAGE</u></b>	<b><u>HOURS</u></b>
1	RR	PLT	12 1/4"	1500'	1500'	11
2	RR	PLT	7 7/8"	1590'	90'	3 1/2
3		PLT616	7 7/8"	6350'	4760'	86
Total Rotating Hours:						100 1/2
Average:						63.2 Ft/hr

**MUD PROPERTIES**

<b><u>DATE</u></b>	<b><u>DEPTH</u></b>	<b><u>WT</u></b>	<b><u>VIS</u></b>	<b><u>PV</u></b>	<b><u>YP</u></b>	<b><u>pH</u></b>	<b><u>WL</u></b>	<b><u>CL</u></b>	<b><u>LCM-LBS/BBL</u></b>
3/2	0'	Make up water							
3/3	1305'	9.0	33	7	7	7.5	nc	4.3K	18
3/4	2010'	9.4	28	4	1	9.5	nc	67K	0
3/5	3253'	9.2	41	10	25	9.5	nc	8K	3
3/6	4655'	9.1	45	16	8	10.0	12.0	5K	6
3/7	5583'	9.2	55	24	11	10.0	8.6	4.3K	6
3/8	6294'	9.2	54	26	14	10.5	6.0	3.1K	6

**DEVIATION RECORD – degree**

801' 1, 1500' ¾, 2620' 1, 3674' 1, 5597' 1 ¼, 6350' 1

**ELECTRIC LOG FORMATION TOPS- KB Elev. 2702'**

<b><u>FORMATION</u></b>	<b><u>DEPTH</u></b>	<b><u>DATUM</u></b>	<b><u>*Roberts No. 1-8</u></b>	
			<b><u>DATUM</u></b>	<b><u>POSITION</u></b>
Casing	1493'			
Heebner	4485'	-1783'	-1776'	-7'
Toronto	4507'	-1805'	-1794'	-9'
Lansing	4632'	-1930'	-1919'	-11'
Marmaton	5303'	-2601'	-2578'	-23'
Cherokee	5461'	-2759'	-2748'	-11'
Atoka	5726'	-3024'	-3004'	-20'
Morrow	5783'	-3081'	-3060'	-21'
"A" SS	5744'	-3042'	NP	
Morrow "B" SS	5810'	-3108'	-3080'	-28'
Morrow "C" SS	5842'	-3140'	-3123'	-17'
Mississippi Chester	5872'	-3170'	-3144'	-26'
Ste. Genevieve	6146'	-3444'	-3418'	-26'
St. Louis	6234'	-3532'	-3506'	-26'
TD	6350'	-3648'		

\*O'Brien Energy Resources, Roberts No 1-8, 335'FSL & 2293'FWL, Sec. 8 – 1320' to the N, K.B. Elev. 2706'.