

O'Brien Energy Resources, Inc.
Hush No. 1-16, Bruno Prospect
Section 16, T33S, R30W

Meade County, Kansas

January, 2014

Well Summary

The O'Brien Energy Resources, Corporation, Hush No. 1-16 was drilled to a total depth of 6360' in the Mississippian St. Louis Formation without any problems. It offset the Columbian Fuel Corp., Armentrout by approximately 1700' to the North. The Cherokee and Atoka ran 5' low relative to this offset. The Morrow came in 2' high and the Morrow "B" Sandstone, 10' high. The Morrow ran 27' low relative to the Butler No. 1-9 to the North.

An excellent hydrocarbon show was documented in the Morrow "B" Sandstone(5710'-5724') – Salt and pepper, light to medium brown, clear and translucent, very friable, fine upper to very coarse lower and conglomeritic in size, very poorly sorted subangular to angular grains, calcareous cement, clean to occasional clay infill, excellent intergranular porosity, bright light yellow to occasional pale blue hydrocarbon fluorescence in all the sand, good streaming cut, medium brown oil stain and live oil, with abundant very coarse and poorly sorted unconsolidated grains with light yellow hydrocarbon fluorescence and slow streaming cut on the individual grains. A 25 Unit gas increase occurred.

4 1/2" production casing was run on the Hush No. 1-16 on 1/8/14

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, David Ward

Well: Hush No. 1-16, Bruno Prospect

Location: 1320' FNL & 1637' FEL, Section 16, T33S, R30W, Meade County,
Kansas – Southeast of Plains.

Elevation: Ground Level 2731', Kelly Bushing 2743'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher
Terry Sorter, Drillers: Saul Garcia, Richard TaFaya, Darryl LaRoche

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 12/31/13

Total Depth: 1/7/14, Driller 5360', Logger 5356', Mississippi St. Louis

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1500'.

Mud Program: Mud Co./Service Mud Inc., Engineer Terry Ison, displaced 2644' with
Chemical Gel/LCM.

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

Samples: 20' samples, dry cut sent to the KGS log Library, Wichita.

Electric Logs: Weatherford, engineer Adam Sill, 1)Dual Induction 2) Compensated
Neutron Litho Density 3) Microlog – high res. repeat.

Status: 4 1/2" production casing set to TD on 1/8/14.

WELL CHRONOLOGY

<u>6 AM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	12/26-12/28/13			Rig down and service rig. Work on mud pump.
	12/30			Move and rig up rotary tools. Saul injured his finger. Rig up and mix spud mud.
	12/31	1143'	1143'	Service and change out swivel. Drill rathole and mousehole. Repack swivel. Spud in 12 1/4" surface hole to 1143.
	1/1/14	1530'	388'	To 1500' and circulate and condition mud. Drop survey(1 deg.) and trip for surface casing. Run and cement 35 joints of 8 5/8" casing set at 1500' – did circulate. Wait on cement. Nipple up and pressure test BOP. Trip in and drill plug and cement and 7 7/8" to 1530'.
	1/2	2535'	1005'	To 1798' and trip for Bit No. 3. Service mud lines and weld pump. To 2535'. Surveys(1 deg.).
	1/3	2735'	1200'	To 2644' and displace mud system. Service rig and survey(1/2 deg.).
	1/4	4870'	1135'	Service and survey(3/4 deg.).
	1/5	5490'	835'	Service and survey(1 deg.).
	1/6	6360'TD	35'	To 6360' and circulate and condition mud. Wiper trip and circulate and trip out for logs.
	1/7	TD		Trip for logs and run Elogs. Trip in open ended.
	1/8	TD		Trip out laying down and run and cement 4 1/2" production casing to TD. 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	J2	GA1PGC	12 ¼"	1500'	1500'	23
2	RR		7 7/8"	1798'	298'	8
3	HTC	DP506	7 7/8"	6360'	4562'	102
1/2						
				Total Rotating Hours:		117 ½
				Average:		54.12
				Ft/hr		

DEVIATION RECORD - degree

491' ¼, 254' ¼, 1299' ½, 1500' 1, 2518' 1, 3520' ¾, 4023' ¾, 4493' 1, 5560' 1, 6360' ¾

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u> <u>LCM-LBS/BBL</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>
12/31	643'	9.6	54	14	14	7.0	nc	225 3
1/2	1799'	8.8	28	1	2	7.0	nc	38.3 0
1/3	2887'	8.8	42	10	12	7.0	nc	51K 2
1/4	4563'	9.4	17	17	9.5	9.5	8.0	3.6K 3
1/5	5245'	9.4	63	16	20	10.5	6.4	3.5K 2
1/6	6046'	9.6	46	14	10	9.0	8.8	3.5K 1

ELECTRIC LOG FORMATION TOPS- KB Elev. 2679'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Armentrout No. 1</u>	
			<u>DATUM</u>	<u>POSITION</u>
Surface Casing	1495'			
Heebner	4400'	-1661'	-1659'	-2'
Toronto	4418'	-1675'	-1680'	+5'
Lansing	4490'	-1757'	-1759'	+2'
Marmaton	5164'	-2421'	-2413'	-8'
Cherokee	5338'	-2595'	-2590'	-5'
Atoka	5630'	-2887'	-2882'	-5'
Morrow	5690'	-2947'	-2949'	+2'
"B" SS	5710'	-2967'	-2977'	+10'
Mississippi Chester	5772'	-3029'		
Ste. Genevieve	6010'	-3267'		
St. Louis	6186'	-5443'		
TD	6360'			

*Columbian Fuel Corp., Armentrout No. 1, approximately 1700' to the South, KB Elevation 2745'.

