

O'Brien Energy Resources, Inc.

Vail No. 8-30

Section 30, T33S, R29W

Meade County, Kansas

October, 2014

Well Summary

The O'Brien Energy Resources, Corporation, Vale No. 8-30 was drilled to a total depth of 6420' in the Mississippian St. Louis Formation. It is located 1655' to the North of the Vale No. 4-30 in the Singly Field. Formation tops ran high relative to this offset. The Heebner to the Chester ran 7' to 13' high. The Ste. Genevieve came in 2' high and the St. Louis, 2' low. Note all depths are sample picks as no logs were run due to hole conditions, 300' of surface casing parted and fell down hole.

An excellent hydrocarbon show was noted in the Morrow (5846'-5852') and consists of a Sandstone in 10% of the samples. Specked green, salt and pepper, light brown, translucent, hard to friable, very fine well sorted subround grains, siliceous cement, calcareous, clean, glauconitic, fair to good intergranular porosity, vuggy porosity, bright light orange hydrocarbon fluorescence and dissipates to a blue fluorescence when dried, good bleeding to streaming cut, gas bubbles when crushed, no stain or free oil. A 140 Unit gas kick was noted.

An additional show and gas increase occurred in the Lower Chester.

Production casing was run on the Vale No. 8-30 for Morrow Sandstone gas and or oil production.

A cased GR and porosity log will be run prior to perforating for depth corrections.

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: Vail No. 8-30, Singley Field

Location: 1320' FNL & 2305' FEL, Section 30, T33S, R29W, Meade County, Kansas – Southeast of Plains.

Elevation: Ground Level 2667', Kelly Bushing 2679'

Contractor: Duke Drilling Rig No. 10, Type: Double jackknife, triple stand, Toolpusher Alex Ordonez, Drillers: Mario Chavez, Miguel Molina, Chad Hallmark

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 10/8/14

Total Depth: 10/15/14, Driller 6420', Logger – no logs run, Mississippi St. Louis.

Casing Program: 35 joints of new 8 5/8", J55, 24Lbs/ft, set at 1479'. 4 1/2" production casing to TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, displaced 2600' with Chemical Gel/LCM.

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

Samples: 30' to 4700', 20' to TD. Zones of interest saved.

Electric Logs: No logs were run due to hole conditions, 300' of surface casing parted and fell downhole. A cased GR and porosity log will be run.

Status: 4 1/2" production casing set to TD on 10/17/14.

WELL CHRONOLOGY

6 AM			
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
10/7			Move to location and rig up rotary tools.
10/8	1500'	1500'	Rig up and dig ditches. Mix spud mud. Drill rat hole and mouse hole and spud in 12 1/4"(7 am). To 1500' and circulate. Drop survey(1/2 deg.) and run and cement 35 joints of new 8 5/8" 24 lbs/ft set at 1479'.
10/9	1857'	357'	Cement and wait on cement. 7 7/8" to 1857' with button bit and trip for bit no. 3, PDC. Repair rotary chain and service rig.
10/10	2814'	957'	Work on pump and clean suction. Displace mud system at 2594'.
10/11	4296'	1482'	Work on rotary chain. Clean suction. Premix in at 3650'.
10/12	4958'	662'	To 4845' and circulate and trip for Bit No. 4. To 4958'.
10/13	5307'	349'	To 4990' and trip out and wait on kelly hose and work on stand pipe and hose. To 5307'.
10/14	5995'	688'	Service rig and pump premix. Circulate for samples at 5844', 5856' and 5876'.
10/15	6420'TD	425'	Service rotary chain. To 6420'TD and circulate. Wiper trip 42 stands and circulate. Drop survey(1 Deg.) and trip out for logs.
10/16	TD		Rig up loggers and run in, hit bridge at 1111'(bottom of surface casing). Trip in with bit and hit bridge. Trip out and in open ended and bridged out. Wait on orders.
10/17	TD		Run in with and impression block and tag fish. 300' of surface casing fell downhole and remained straight. Run and cement 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	PDC	12 1/4"	1500'	1500'	7 1/4
2	J2	But bit	7 7/8"	1857'	357'	1
3	J2	PDC	7 7/8"	4845'	2988'	42 3/4
4	J2	PDC	7 7/8"	6420'	1575'	44 3/4
Total Rotating Hours:						95 3/4
Average:						67 Ft/hr

DEVIATION RECORD - degree

1500' 1/2, 6420' 1

MUD PROPERTIES

<u>DATE</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-LBS/BBL</u>	
10/7	0'	Make Up Water						100		
10/8	807'	10.5	42	10	10	8.5	n/c	100	3	
10/10	2281'	9.4	29	2	2	7.0	n/c	56K	0	
10/11	3499'	9.15	43	10	13	8.0	19.6	5.8K	2	
10/12	4844'	9.45	46	14	16	9.0	11.6	4.8	2	
10/13	5014'	9.3	42	12	14	9.0	11.6	6.2K	2	
10/14	5645'	9.25	49	16	17	10.5	8.4	3.1K	2	
10/15	6278'	9.25	57	18	21	10.5	8.8	2.3K	2	
10/16	6420'	9.0	47	14	15	9.5	9.2	3.1K	5 ½	

SAMPLE PICK FORMATION TOPS- KB Elev. 2679'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Vale No. 4-30</u>	
			<u>DATUM</u>	<u>POSITION</u>
Surface Casing	1479'			
Heebner	4481'	-1802'	-1809'	+7'
Toronto	4508'	-1829'	-1841'	+12'
Lansing	4596'	-1917'	-1930'	+13'
Marmaton	5278'	-2599'	-2610'	+11'
Cherokee	5429'	-2750'	-2761'	+11'
Atoka	5718'	-3039'	-3052'	+13'
Morrow	5780'	-3101'	-3110'	+9'
"A,B?" SS	5846'-5852'	-3167'		
Mississippi Chester	5910'	-3231'	-3246'	+15'
Ste. Genevieve	6164'	-3485'	-3487'	+2'
St. Louis	6265'	-3586'	-3487'	-2'
TD	6420'			

*Vale No. 4-30, 2305' FSL & 2305' FEL, Section 30 – 1655' to the South, K.B. Elevation 2684'.