

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

**Rickers Ranch No. 8-17**

**Section 17, T33S, R29W**

Meade County, Kansas

September, 2013

**Well Summary**

The O'Brien Energy Resources, Corporation, Rickers Ranch No. 8-17 was drilled to a total depth of 6215' in the St. Louis without any problems. The Rickers Ranch Offset No. 5-20 was drilled 2700' to the South. The Heebner, Toronto and Lansing ran essentially even with this offset. Structure was gained and the Marmaton came in 19' high. The Cherokee, Atoka and Morrow came in 13' high and the Chester, 17' high.

Excellent hydrocarbon shows occurred in the Morrow. A two foot "A" Sandstone(5756'-5758') consists of a Sandstone in 5% of the samples: Salt and pepper, speckled green, light brown, friable, fine lower well sorted subround grains, siliceous cement, clean, very glauconitic, good intgranular porosity, bright light yellow hydrocarbon fluorescence, excellent streaming cut, light brown matrix oil stain, light bleeding live oil and gas bubbles when crushed, slight oil odor. A 140 Unit gas increase occurred on the hotwire.

The "B" Sandstone(5774'-5786') contained Sandstone in 25% of the samples: Light brown, salt and pepper, friable, fine lower well sorted subround grains, siliceous cement, clean to argillaceous, glauconitic, slightly arkosic, good to excellent intgranular porosity, mottled pale bluegreen hydrocarbon fluorescence in most the sandstone, trace light brown matrix oil stain and live oil, slow bleeding to weak streaming cut. A 220 Unit gas increase was documented.

A "C" Sandstone was documented from 5824' to 5840' and associated with a 240 Unit gas increase. Sandstone(10% spl): light brown, friable, medium lower to fine lower, well to moderately sorted subround grains, siliceous cement, slightly calcareous, clean, good intergranular porosity, bright yellow hydrocarbon fluorescence in most the sandstone, excellent streaming cut, light brown matrix oil stain, trace live oil and gas bubbles when crushed, slight odor, excellent show.

The characteristic lower Chester hydrocarbon show occurred from 6064' to 6076' and associated with a 300 Unit gas kick(attached mudlog).

4 ½" production casing was run on the Rickers Ranch No. 8-17 to evaluate the above mentioned shows.

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: Rickers Ranch No. 8-17

Location: 1980' FSL & 1780' FEL, Section 17, T33S, R29W, Meade County, Kansas – Southeast of Plains.

Elevation: Ground Level 2663', Kelly Bushing 2675'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher Danny White, Drillers: Richard Tafoya, Saul Garcia, Darryl LaRache

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 9/07/13

Total Depth: 9/13/09, Driller 6315', Logger 6315', Mississippi St. Louis

Casing Program: 38 joints of 8 5/8", J55, 24Lbs/ft, set at 1490'. 4 1/2" production casing to TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, displaced 2500'.

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 and one set dry cut sent to KGS Sample Log Library, Wichita.

Electric Logs: Weatherford, Engineer Rob Hoffman, 1)Dual Induction 2) Compensated Neutron Density 3) Microlog & high res. repeat.

Status: 4 1/2 " production casing to TD on 9/14/13.

## WELL CHRONOLOGY

<u>6 AM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	9/6			Move to location and rig up rotary tools. Dig ditches.
	9/7	1491'	1491'	Rig up. Mix spud mud and drill rathole and mousehole. Spud in 12 1/4" surface hole and drill to 1491' and circulate.
	9/8	2180'	689'	Drop survey(1 deg.) and run and cement 36 joints of 8 5/8" surface casing set at 1490' with 400 sacks A-Con Blend(3%cc, 1/4 lbs floeal, 2% WCA-1) and 150 sacks Prem Plus – 2% cc & 1/4 Lbs PF) – did circulate. Plug down 10:45 PM. Nipple up and pressure test BOP. Service rig. Drill plug and cement and new 7 7/8" hole to 2180'. Survey(1 deg.).
	9/9	3135'	955'	Displace mud system at 2500'. Service and survey(1 deg.).
	9/10	4720'	1585'	Survey(1 deg.) and service rig and clean suction.
	9/11	5380'	660'	To 5000' and circulate and wiper trip to 2500' and drill to 5380'.
	9/12	6130'	750'	Lost circulation at 5450' – 60 bbls.
	9/13	6315'TD	185'	To 6315'TD and circulate and condition mud. Wiper trip and circulate. Drop survey(1 deg.) and trip out for logs.
	9/14	TD		Run Elogs and wait on orders. Trip in and circulate. 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	RR	JZ	12 1/4"	1491'	1491'	24 1/4
2	Logic	PLT51653	7 7/8"	5315'	3824'	116
Total Rotating Hours:						140 1/4
Average:						45 Ft/hr

## DEVIATION RECORD - degree

495' 1/4, 960' 1/4, 1491' 3/4, 2493' 1, 4028' 1, TD 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>
9/5	0'	make up water							
9/7	1206'	9.4	34	3	4	7.0	n/c	1700	5
9/8	1728'	9.1	28	1	2	7.0	n/c	70K	0
9/9	2774'	8.9	33	3	4	7.0	n/c	17.8K	2
9/10	4218'	9.2	66	20	25	10.2	11.2	6.8K	3
9/11	5023'	9.1	52	17	21	9.5	8.8	5.4K	8
9/12	5751'	9.1	63	20	24	10.0	8.8	2.4K	8
9/13	6296'	9.2	53	16	18	9.5	8.8	3.6K	6

**ELECTRIC LOG FORMATION TOPS- KB Elev. 2675'**

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<b><u>*Rickers Ranch No. 5-20</u></b>	
			<u>DATUM</u>	<u>POSITION</u>
Heebner	4450'	-1775'	-1774'	-1'
Toronto	4471'	-1796'	-1798'	+2'
Lansing	4600'	-1925'	-1922'	-3'
Marmaton	5240'	-2565'	-2584'	+19'
Cherokee	5428'	-2753'	-2765'	+12'
Atoka	5688'	-3013'	-3025'	+12'
Morrow	5730'	-3055'	-3068'	+13'
"A" SS		-3081'		
"B"	5774'	-3099'		
"C"	5824'	-3149'		
Mississippi Chester	5854'	-3179'	-3196'	+17'
Ste. Genevieve	6116'	-3441'		
St. Louis	6188'	-3513'		
TD	6315'			

\*Rickers Ranch Offset No. 5-20, 660' FNL & 1500' FWL, Section 20, KB 2692' – app. 2700' to the South.