

**O'Brien Energy Resources, Inc.**  
**Preedy No. 7-4, Angell South Field**  
**Section 4, T33S, R29W**

Meade County, Kansas

September, 2019

**Well Summary**

The Preedy No. 7-4 was drilled to a total depth of 6250' in the St. Louis Formation. The primary objective St. Louis(6114') came in low relative to the Keystone 5-4, approximately 1980' to the NW. The Heebner, Toronto and Lansing ran 0', 3' and 2' high relative to this offset. Thickening occurred and as the Cherokee, Atoka and Morrow came in 13' low. The Basal Chester and Ste. Genevieve came in 11' and 12' low. The St. Louis, 6' low.

The Heebner through the Atoka ran 22' to 25' high relative to the Preedy No. 5-9, 1980' to the SW. Structure from the Morrow to the St. Louis came in 25' to 35' high.

Only minor hydrocarbon shows with traces of formation gas occurred in the St. Louis and prove very tight on logs.

The Preedy no. 7-4 was plugged and abandoned 9/14/19.

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: Preedy No. 7-4, Angell South Field

API: 15-119-21427

Location: 808'FSL & 1980'FEL, Section 4, 33S, R29W, Meade Co. Kansas – Southeast of Plains.

Elevation: Ground Level 2642', Kelly Bushing 2651'

Contractor: Duke Drilling Rig No. 4, T.P. Hector Torres, Drillers Javier Ramirez, Jose Torres, Gurtaro Flosey

Company Man: Dana Geathouse

Spud Date: 9/3/19, 10 pm.

Total Depth: 9/13/19, 4:45 AM, Driller 6250', Logger 6242', St. Louis Formation

Casing Program: 37 joints of 8 5/8", J-55, 24Lbs/ft, set at 1571' with 375 sacks A-Con blend(3%cc & ¼ lb flake) tail with 150 sacks Pem Plus(2%cc, ¼ bl Poly Flake), cement did circulate, services by Basic.

Mud Program: Winter Mud, engineer Paul White, Rayford Bratcher displaced 2588', Chemical gel/LCM.

Wellsite Consultant: Peter Debenham, Call depth 4000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' to 5600', 20' to TD.

Electric Logs: Weatherford, engineer Bandar Binosfur, 1) Array Induction, 2)Neutron/Density, 3)Microlog, high res

Status: Plugged and abandoned 9/14/19.

## WELL CHRONOLOGY

<b>AM Report</b>				
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>	
8/26			Surface casing washed out for the Cottrell No. 1 reentry, decided to redrill.	
8/27-			Build location and wait on rain.	
9/3			Move to location and rig up rotary tools with Duke Rig 4.	
9/4	441'	441'	Rig up and wait on water and mix spud mud. Drill rat hole. Drill 12 1/4" surface hole to 441' and wait on water.	
9/5	1586'	1145'	Repair water line. To 1586' and circulate and wiper trip.	
9/6	1586'	0'	Wiper trip and work tight spots and circulate. Drop survey(1 deg.) and trip for surface casing and run and cement 37 joints of 8 5/8" set at 1571' – cement did circulate. Nipple up and pressure test BOP – did not hold. Nipple down BOP and send in for repairs.	
9/7	2540'	954'	Nipple up BOP and pressure test. Drill float and cement and 7 7/8" hole to 2540'	
9/8	2945'	406'	Work bit and drop flag for possible washout. Trip out and work on mud pump and air out same.	
9/9	3994'	1049'	Service rotary chain and mud up.	
9/10	4773'	779'	Service mud pump and rotary chain and low clutch in draw works.	
9/11	4849'	76'	Work on stuck pipe and service low clutch. Work on weight indicator and replace pilot aut driller motor and trip in with Bit No. 3.	
7/12	5770'	921'	Trip in and circulate and drill.	
7/13	6250'TD	480'	Service and repair rig. To 6250' TD(4:45 AM) and circulate. Wiper trip.	
7/14	TD		Wiper trip and circulate and trip for logs and run Elogs. Trip out laying down and plug and abandon well. Rig down.	

<b><u>BIT RECORD</u></b>						
<b><u>NO.</u></b>	<b><u>MAKE HOURS</u></b>	<b><u>TYPE</u></b>	<b><u>SIZE</u></b>	<b><u>OUT</u></b>	<b><u>FOOTAGE</u></b>	
1	Varel		12 ¼"	1586'	1586'	10 ½
2	Varel	V516PX	7 7/8"	4849'	3263'	63 ¾
3	Varel	4010500	7 7/8"	6250'TD	1401'	34 ¾
Total Rotating Hours:						109
Average:						57.34 Ft/hr

**DEVIATION RECORD - degree**

745' 0, 1586' 1, 1958' 1, 2456' ¾, 2958' ¼, 3522' ¾, 4052' ¼, 4849' ¼

**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>WL</u></b>	<b><u>pH</u></b>	<b><u>CL</u></b>	<b><u>LCMBBLS</u></b>
9/4	441'	8.55	34	7	9	100	9.5	2K	4
9/4	1024'	9	33	8	12	100	8.5	4K	7
9/5	1586'	9.1	37	11	10	100	9.5	25K	8
9/6	1586'	8.35	26	1	1	100	8.5	1500	--
9/7	2600'	8.65	35	9	7	18	9	9k	--
9/8	2958'	8.8	45	10	35	40	8.5	15k	6
9/9	4052'	9	55	18	17	18	9.5	7k	6
9/10	4773'	9.2	45	19	14	10	9.5	7k	4
9/11	4849'	9.1	47	19	14	10	9	10k	8
9/12	5809'	9.3	45	19	14	8	10	6k	6

**ELECTRIC LOG FORMATION TOPS- KB Elev. 2651'**

<b><u>FORMATION</u></b>	<b><u>DEPTH</u></b>	<b><u>DATUM</u></b>	<b><u>*Keystone No. 5-4</u></b>	
			<b><u>DATUM</u></b>	<b><u>POSITION</u></b>
Casing	1571'			
Heebner	4422'	-1771'	-1771'	0'
Toronto	4447'	-1796'	-1799'	+3'
Lansing	4567'	-1916'	-1918'	+2'
Marmaton	5212'	-2561'	-2569'	+8'
Cherokee	5380'	-2729'	-2716'	-13'
Atoka	5628'	-2977'	-2964'	-13'
Morrow	5682'	-3031'	-3018'	-13'
Mississippi Chester	5776'	-3125'	-3121'	-4'
Basal Chester	5988'	-3337'	-3326'	-11'
Ste. Genevieve	6034'	-3383'	-3371'	-12'
St. Louis	6114'	-3463'	-3457'	-6'
TD	6242'			

\*O'Brien Energy Resources, Keystone No. 5-4, 1350' FSL & 1320'' FWL, Section 4, 33 S, 29W – app. 1980' to the NW., K.B. Elev. 2598'.