

O'Brien Energy Resources, Inc.

Prather No. 2-10

Section 10, T31S, R24W

Clark County, Kansas

March 2014

The O'Brien Energy Resources, Prather No. 2-10 was drill to a total depth of 5750' in the Mississippian St. Louis Formation.

One of the closest offset was the Morrow oil producer, Brown English "A" approximately 1320' to the NW. Formation tops ran relatively even to this well. The Lansing came in 2' low and the Cherokee 4' high. The Mississippi Chester ran even.

Formation tops from the Heebner to the Mississippi ran 16' to 23' low relative to the Prather No. 1-4, Approximately ½ mile to the NW. The St. Louis came in 2' high.

No significant hydrocarbon shows or gas kicks were encountered during the drilling of this test. No Morrow Sandstone development occurred and the Prather No. 2-10 was plugged and abandoned 3/3/15.

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: Prather No. 2-10

Location: 335'FNL & 660'FWL, section 10, T31S, 24W, Clark Co., KS

API No.: 15-025-21583

Elevation: Ground Level 2563', Kelly Bushing 2575'

Contractor: Duke Drilling Rig No. 9, T.P. Emidgio Rojas, Drillers Victor Martinez, Alejandro V., Fernando Juroeb, Type: Double jackknife, double stand

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 2/25/15

Total Depth: 3/2/15, Driller 5750', Logger 5751', Mississippi St. Louis Fm.

Casing Program: 17 joints of new 8 5/8", J55, 24Lbs/ft, set at 726' and cemented by Basic with 130 sacks A Con(3%cc & ¼ lbs/bbl Floseal), tail with 130 sacks Class C(2%cc).

Mud Program: Service Mud/Mud-Co, Engineer Justin Whitting, Chemical/gel, displaced 3572'.

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

Samples: 30' to 5200', 20' to TD. One dry cut sent to the KS Sample Log Library, Wichita.

Electric Logs: Weatherford, engineer Jeff Randle and Miles Wilkins, Array Induction, Compensated Neutron/Density, Microlog, Hi Res.

Status: Plugged and abandoned 3/3/15c with 50 sacks cement at 1560', 50 sacks at 750', 20 sacks at 60', 30 sacks in the mouse hole and 20 in the mouse hole.

WELL CHRONOLOGY

Midnight			
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
2/25	100'	100'	Move rig from the Clayton to the Prather location and rig up rotary tools. Pump water and mix spud mud and drill rat hole and mouse hole. Spud in 12 1/4" hole to 100'.
2/26	1000'	900'	To 730' and circulate and drop survey(1 1/4 deg.) and trip out. Run and cement 17 joints of new 8 5/8", J55, 24Lbs/ft, set at 726' and cemented by Basic with 130 sacks ACon(3%cc & 1/4 lbs/bbl Floseal), tail with 130 sacks Class C(2%cc) – did circulate. Plug down 10 AM. Clean pits and wait on cement and nipple up BOP. Trip in and test BOP to 300 PSI in 15 minutes. Drill plug and cement and 7 7/8" hole to 1000'.
2/27	2680'	1680'	Surveys(1 deg.). Work on mud pump, change seats and valve. Change fan on DW motor.
2/28	4080'	1400'	Surveys(1/2 – 1 1/2). To 3572' and clean pits and displace mud system. Service rig and work on main chain.
3/1	5080'	1000'	Clean pits and survey(1 1/2 deg.).
3/2	5710'	630'	To 5097' and drop survey(1 1/4 deg.) and trip for Bit No. 3.
3/3	5750'TD	40'	To 5750' TD and circulate. Short trip and circulate. Drop survey(1 1/4 deg.) and trip out for logs. Run Elogs. Trip to bottom and circulate. Trip out laying down and plug and abandon well. Rig down.

BIT RECORD

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>OUT</u>	<u>FOOTAGE</u>	
	<u>HOURS</u>					
1	12 1/4"		PLT516	730'	730'	6 1/2
2	7 7/8"		PLT616	5097'	4367'	51 1/2
3	7 7/8"		PLT616	5750'	653'	15 3/4
						Total Rotating Hours: 73 3/4
						Average: 78 Ft/hr

DEVIATION RECORD - degree

730' 1 1/2, 2719' 1, 3765' 1 1/2, 4868' 1 1/2, 5097', TD 1 1/4

MUD PROPERTIES

<u>DATE</u> <u>LBS/BBL</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-</u>
2/25	0'	Make up water							
2/26	730'	9.5	34	3	4	8.5	n/c	1.6K	4 ½
2/27	1904'	9.75	29	2	2	7.0	n/c	94K	0
2/28	3650'	8.6	93	24	25	10.5	10.8	8.1K	1 ½
3/1	4615'	9.25	51	17	17	9.0	12.8	9.7K	2
3/2	5329'	9.3	48	14	14	9.5	10.4	7.4	2
3/3	5750'TD	9.35	52	16	17	9.5	8.8	4.9	3

ELECTRIC LOG FORMATION TOPS- KB Elev. 2573'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Brown "D" No. 1-4</u>	
			<u>DATUM</u>	<u>POSITION</u>
Casing	729'			
Heebner	4522'	-1947'	-1945'	-2'
Toronto	4541'	-1966'	-1965'	-1'
Lansing	4700'	-2125'	-2067'	
Stark SH	5075'	-2500'	-2501'	+1'
Cherokee	5366'	-2791'	-2807'	-21'
Morrow	5447'	-2872'	-2892'	+16'
Morrow SS	NA			
Mississippi Chester	5495'	-2920'	-2967'	+47'
St. Louis	5662'	-3087'		
TD	5688'			

*Vess Oil Corp., Brown "D" No. 1-4, ½ mile to the NW, KB Elev. 2571'.