

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

**Prather No. 1-4**

**Section 4, T31S, R24W**

Clark County, Kansas

March, 2014

The O'Brien Energy Resources, Prather No. 1-4 was drilled to a total depth of 5688' in the Mississippian St. Louis Formation in 99 rotating hours for an average of 57.6 feet/hour and with no rig problems.

The closest offset was the Vess Oil Corporation, Brown "D" No. 1-4 – 1520' to the east. The Heebner and Toronto came in 15' high to this offset. Thinning was noted as the Stark Shale, Cherokee and Morrow ran 22', 37' and 39' high respectively.

Two minor hydrocarbon shows were documented in the Lower Lansing at 5135'-5140' and 5218'-5226' (drill time depths) and with an associated trace of light blue hydrocarbon fluorescence (<<1% of the samples), slow streaming cut, trace oil stain and with traces of moldic, fenestral and intercrystalline porosity. A 5 Unit gas increase was recorded on the hotwire from both zones.

No Morrow or Chester Sandstones were noted in samples. A very tight two foot Morrow Sandstone (5460'-5462') is noted on logs. No Chester Sandstones were developed and the Prather No. 1-4 was plugged and abandoned 3/17/14.

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. 1-4

Location: 1980'FSL & 1980'FEL, section 4, T31S, 24W, Clark Co., KS

API No.: 1502521573

Elevation: Ground Level 2563', Kelly Bushing 2575'

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

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 3/10/14

Total Depth: 3/17/14, Driller 5700', Logger 5688', Mississippi

Casing Program: 17 joints of 8 5/8", J55, 24Lbs/ft, set at 723' with 175 sacks Class C(2%cc).

Mud Program: Service Mud/Mud-Co, Engineer Terry Ison, Chemical/gel, displaced 3180'.

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

Gas Detection: MBC Logging, Meade.

Samples: 30' to 4400', 10' to TD. One dry cut sent to the KS Sample Log Library, Wichita.

Electric Logs: Weatherford, engineer Derek Carter, Array Induction, Compensated Neutron/Density, Hi Res.

Status: Plugged and abandoned 3/17/14.

**WELL CHRONOLOGY**

<b>6 AM</b>			
<b><u>DATE</u></b>	<b><u>DEPTH</u></b>	<b><u>FOOTAGE</u></b>	<b><u>RIG ACTIVITY</u></b>
3/10			Move to location and rig up rotary tools.
3/11	734'	734'	Mix spud mud. Drill mouse hole and rat hole. Spud in 12 1/4" surface hole to 734'. Circulate and trip for casing and run and cement 17 joints of 8 5/8" set at 723' – did circulate. Plug down 3 PM. Back off landing joint and nipple up BOP.
3/12	2045'	1311'	Nipple up and pressure test BOP. Trip in and drill plug and cement and 7 7/8" hole to 984' and trip for Bit No. 3. Change out wash pipe, run survey(3/4 deg.) and drill to 2045'.
3/13	3530'	1485'	Service rig – clean suction and grease swivel. Survey(3/4 deg.). Change out draw works clutch. Clean suction and sisplace hole at 3180'.
3/14	4770'	1240'	Survey(3/4 deg.) and service.
3/15	5600'	830'	Work on clutch.
3/16	5700TD	100'	To TD and circulate. Wiper trip 36 stands and circulate and condition mud. Trip for and run elogs. Trip to bottom and circulate. Trip out laying down.
3/17	TD		Trip out and plug and abandon well. Rig down.

**BIT RECORD**

<b><u>NO.</u></b>	<b><u>SIZE</u></b>	<b><u>MAKE</u></b>	<b><u>TYPE</u></b>	<b><u>OUT</u></b>	<b><u>FOOTAGE</u></b>	
	<b><u>HOURS</u></b>					
1	12 1/4"	Varel	RR	733'	734'	10
2	7 7/8"	htc	ha22512	1580'	846'	4 1/4
3	7 7/8"	HTC	DP506F	5700'	4120'	1116 1/4

Total Rotating Hours:	99
Average:	57.6
Ft/hr	

**DEVIATION RECORD - degree**

526' ¼, 734' ¼, 1486' ¼, 2143' ¼, 2707' 1, 3588' ½, 4185' 1, TD 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>	
3/12	1557'	9.9	32	--	--	7.0	NC	95K	--
3/13	2811'	9.6	33	--	--	7.0	NC	81K	--
3/14	4247'	9.2	58	16	26	8.5	12.0	8K	2
3/15	5073'	9.4	52	16	20	10.5	9.6	6K	1
3/16	5700'	9.4	45	16	18	9.5	8.8	6K	2

**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	732'			
Heebner	4504'	-1931'	-1945'	+14'
Toronto	4522'	-1949'	-1965'	+16'
Lansing	4674'	-2101'	-2067'	+34'
Stark SH	5052'	-2479'	-2501'	+22'
Cherokee	5343'	-2770'	-2807'	+37'
Morrow	5426'	-2853'	-2892'	+39'
Morrow SS	NA			
Mississippi Chester	5470'	-2897'	-2967'	+70'
St. Louis	5662'	-3089'		
TD	5688'			

\*Vess Oil Corp., Brown "D" No. 1-4, 1520' to the East, KB Elev. 2571'.

