

O'Brien Energy Resources, Inc.

Mary No. 1-1, Dailey Prospect

Section 1, T31S, R22W

Clark County, Kansas

December 2015

Well Summary

The O'Brien Energy Resources, Corporation, Mary No. 1-1, Daily Prospect was drilled to a total depth of 6500' in the Arbuckle Formation. The Mary No. 1-1 was drilled ½ mile to the East of the Falcon Exploration Shrauner No. 1-6. The Heebner, Brown Limestone and Lansing ran 8', 10' and 12' high relative to this offset. Formation tops from the Stark Shale to the Morrow ran 6' to 8' high. A thinner Morrow section pushed the top of the Mississippi 30' high. The Simpson Sandstone and Arbuckle came in 1' and 3' low.

A quality hydrocarbon show occurred in the Upper Mississippi(5252'-5256') and consists of a Limestone: White, finely crystalline, very soft chalky and amorphous when wet, brittle when dry, clean, fossiliferous and oolitic with occasional interparticle porosity, trace visible intercrystalline and fine vuggy porosity, bright light yellow hydrocarbon fluorescence in 12% of the samples, good streaming to slow bleeding cut, trace light mottled oil stain and live oil, slight oil odor, occasional even brown matrix oil stain, show dissipates when dry. A 100 Unit gas increase was documented. 18 percent density porosity is noted on logs.

Additional minor tight oil shows were documented in the Morrow and Cherokee limestone's.

4 ½" production casing was run on the Mary No. 1-1 on 12/20/15 to production test the Upper Mississippi.

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: Mary No. 1-1, Daily Prospect, Granger Creek Field

Location: 2277' FNL & 2262' FEL, Section 1, T31S, R22W, Clark Co., Kansas, South of Bucklin.

Elevation: Ground Level 2252', Kelly Bushing 2265'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, triple stand, Toolpusher
Emidigio Rojas, Drillers: Victor Martinez, Alejandro V., Fernando

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 12/11/15

Total Depth: 12/19/15, Driller 6500', Logger 6502', Arbuckle Formation.

Casing Program: 13 joints of 8 5/8", J55, 24Lbs/ft, set at 647'.

Mud Program: Service Mud/Mud-Co, Engineer Justin Whiting , Chemical/gel, displaced 3223'.

Wellsite Consultant: Peter Debenham 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 Adam Sill, Array Induction, Compensated Neutron/Density, Hi Res.

Status: 4 1/2" production casing run on 12/20/15 for Upper Mississippian oil production.

WELL CHRONOLOGY

6 AM

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
12/11	90'	90'	Move to location and rig up rotary tools. Pump water and mix spud mud. Drill rat hole and mouse hole. Spud in 12 ¼" surface hole to 90' (9:00 pm).
12/12	850'	760'	To 650' and circulate. Trip out and run and cement 13 joints of 8 5/8" surface casing set at 650'. Wait on cement and nipple up BOP. Trip in and pressure test to 500 psi in 15 minutes. Drill plug and cement and new 7 7/8" hole to 731'. Trip for Bit No. 3 and drill to 850'.
12/13	1794'	444'	Survey(1 deg.). Service mud pump, change out piston head and service rig. To 1794' and work on mud pump. Trip out and wait for pump.
12/14	2345'	551'	Wait for new pump. Very muddy location – doser new pump into location and change out same. Trip in and ream 1650' to 1994' Drill to 2345'.
12/15	3720'	1375'	Survey(1/2 deg.). Displace mud system at 3223'.
12/16	4950'	1230'	Work on mud pump, change piston head. Survey(1 deg.).
12/17	5625'	675'	To 5024' and circulate and short trip and break circulation. Survey(1 ¼ deg.). To 5625'.
12/18	6295'	670'	Cleans suction.
12/19	6500'TD	205'	To 6320' and trip for Bit No. 4. To 6500'TD and circulate. Short trip and circulate. Drop survey(1 deg.) and trip for logs. Run Elogs.
12/20	TD		Run Elogs. Trip in open ended and circulate. Trip out laying down and run and cement 4 ½" production casing. 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 ¼"	RR		650'	650'	8 ½
2	7 7/8"	RR		731'	81'	½
3	7 7/8"		PLT616	6320'	5589'	97 ¾
4	7 7/8"		PLT616	6500'	180'	4 ¾
Total Rotating Hours:						111 ½
Average:						58.3 Ft/hr

DEVIATION RECORD - degree

650' 1, 2653' 1, 3697' 1 ¼, 3990' 1, 4582' 1, 5532' 1 ¼, 6320' 1 ¼, 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>	
12/11	0'	Make up water							150	
12/12	650'	Make up water								
12/13	1638'	9.4	32			7.0	n/c			
12/14	1794'	9.4	31			7.0	n/c			
12/15	3222'	9.85	30	3	3	7.0	n/c	101K	Tr	
12/15	3256'	8.6	77	18	24	11.0	11.6	7.8K	1	
12/16	4387'	9.4	50	16	16	10	10.4	6.8	2 ½	
12/17	5198'	9.4	72	22	18	9.5	9.6	5.8K	3	
12/18	6076'	9.4	50	15	16	10.5	8.0	5.2K	3 ½	
12/19	6386'	9.45	48	14	16	9.5	9.2	6.1K	4	

ELECTRIC LOG FORMATION TOPS- KB Elev. 2265'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Shrauner No. 1-6</u>	
			<u>DATUM</u>	<u>POSITION</u>
Casing	647'			
Heebner	4315'	-2050'	-2058'	+8'
Lansing	4508'	-2243'	-2255'	+12'
Stark SH	4862'	-2597'	-2601'	+4'
Marmaton	5016'	-2751'	-2759'	+8'
Pawnee	5060'	-2795'	-2803'	+8'
Cherokee	5114'	-2849'	-2855'	+6'
Morrow	5218'	-2953'	-2961'	+8'
Mississippi	5240'	-2975'	-3005'	+30'
Warsaw	6090'	-3825'	-3826'	+1'
Viola	6180'	-3915'	-3918'	+3'
Simpson SS	6431'	-4166'	-4165'	-1'
Arbuckle	6446'	-4181'	-4178'	-3'
TD	5692'			

*Falcon Exploration, Shrauner No. 1-6, 1740'FNL & 330'FWL, Sec. 6 – app. 2640' to the W NW, K. b. Elev. 2187'.