Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1072108

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32211
Name: O'Brien Energy Resources Corp.
Address 1: 18 CONGRESS ST, STE 207
Address 2:
City: PORTSMOUTH State: NH Zip: 03801 + 4091
Contact Person: Joseph Forma
Phone: (603) 427-2099
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Peter Debenham
Purchaser: DCP, NCRA

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☑ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

10/18/2011	10/23/2011	1/15/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-119-21303-00-00
Spot Description:
NW SE SE SW Sec. 8 Twp. 33 S. R. 29 ☐ East ☑ West
335 Feet from ☐ North / ☑ South Line of Section
2293 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Meade
Lease Name: Roberts Well #: 1-8
Field Name:
Producing Formation: Mississipian
Elevation: Ground: 2698 Kelly Bushing: 2706
Total Vertical Depth: 6350 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1493 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 4500 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Dillco Fluid Service
Lease Name: Sneed License #: 6652
Quarter NW Sec. 14 Twp. 34 S. R. 30 ☐ East ☑ West
County: Meade Permit #: D27876

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 01/31/2012
☑ **Confidential Release Date:** 01/30/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 02/01/2012

[redacted] 1072108

Operator Name: O'Brien Energy Resources Corp. Lease Name: Roberts Well #: 1-8

Sec. 8 Twp. 33 S. R. 29 ☐ East ☑ West County: Meade

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

array Induction
compensated neutron/density
microlog

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.6250	24	1493	ACONN/ CLASS C	550	3%CaCl, 1/4# floseal
PRODUCTION	7.8750	4.5	11.6	6320	AA2/ PREMIUM	220	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
2	6083-6096 CIBP @ 6000	acidize w/ 2000 gal NeFe 7.5% HCL	6083-6096
		frac w/ 50000# 20/40 sand, 547 bbl 65 quality foam,	6083-6096
2	5872-5882	acidize w/ 1500 gal NeFe 15% HCL	5872-5882
		acidize w/ 4000 gal NeFe 20% HCL	5872-5882

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
	2 3/8	5820	5816	☑ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 1/15/2012

Producing Method: ☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* ___

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		250			

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* ___

PRODUCTION INTERVAL:
5872-5882

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Roberts 1-8
Doc ID	1072108

Tops

Name	Top	Datum
Heebner	4482	-1776
Toronto	4500	-1794
Lansing	4625	-1919
Marmaton	5284	-2578
Cherokee	5454	-2748
Atoka	5710	-3004
Morrow	5766	-3060
Morrow “B” SS	5790	-3084
Morrow “C” SS	5829	-3123
Mississippi Chester	5850	-3144
Ste. Genevieve	6124	-3418
St. Louis	6212	-3506

O'Brien Energy Resources, Inc.
Roberts No. 1-8, Angell South Field
Section 8, T33S, R29W

Meade County, Kansas
October, 2011

Well Summary

The O'Brien Energy Resources, Corporation, Roberts No. 1-8 was drilled to a total depth of 6350' in the Mississippian St. Louis Formation without any problems and in 115' rotating hours averaging 55 ft./hr. It offset the Crooked Creek No. 3-8 by 1340' to the West. Formation tops ran high relative to this offset. The Heebner to the Atoka ran 9' to 16' high. The Morrow came in 15' high and the Morrow "B" Sandstone, 19' high. Significant thinning occurred and the Chester came in 49' high, the Ste. Genevieve and St. Louis, 23' and 27' high respectively.

Hydrocarbon shows were documented during the drilling of this test. A 280 Unit gas kick occurred in the Morrow "B" Sandstone(5786'-5790'): Medium brown to gray, hard to friable in part, very fine well sorted grains, calcareous cement, clean to argillaceous, trace to occasionally fair intergranular porosity, faint speckled greenblue hydrocarbon fluorescence, weak bleeding to milky ring cut, no stain, weak visible show.

A Morrow "C" Sandstone along with a 260 Unit gas kick occurred from 6829' to 6832' and consists of a Sandstone in 5% of the samples: Medium mottled brown to gray, occasionally light gray to tan, hard, friable in part, dense to trace intercrystalline and fine vuggy porosity, very fine well sorted subround grains, siliceous cement, slightly calcareous, dull speckled pale yellow to orange hydrocarbon fluorescence(most SS), slow streaming to bleeding cut, no stain.

An excellent show occurred in the Upper Chester(5872'-5878') and consists of a Limestone: Light mottled brown to orange, buff, biomicrite, subchalky to chalky, very brittle, clean, fossiliferous, bright speckled light blue hydrocarbon fluorescence in 15% of the samples, fair streaming cut, no stain, trace intercrystalline and fine vuggy and moldic porosity, show dissipates when dried. A 440 Unit gas kick occurred on the hotwire.

Characteristic shows were documented in the Lower Chester(6083'-6096') and associated with a 280 Unit gas kick - Limestone: Medium to dark mottled brown, oomicrite, finely crystalline, brittle, clean, sandy, oolitic and fossiliferous with excellent oomoldic porosity, dark mottled brown to pale gold hydrocarbon fluorescence(15% samples), excellent fast streaming cut, dark brown matrix oil stain and live oil.

Interesting log characteristics with gas crossover occurred from a three foot Sandstone interval from 5988' to 5991'. A trace of formation gas was documented but no sandstone noted in samples.

4 ½" production casing was run on the Roberts No. 1-8 on 10/24/11 to production test 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:	David Ward, Ed Schuett, Denver
Well:	Roberts No. 1-8, Angell South Field
Location:	335' FSL & 2293' FWL, Section 8, T33S, R29W, Meade County, Kansas – Southeast of Plains.
Elevation:	Ground Level 2694', Kelly Bushing 2706'
Contractor:	Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Terry Sorter, Danny White, Saul Garcia
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	10/18/11
Total Depth:	10/23/11, Driller 6350', Logger 6345', St. Louis Formation
Casing Program:	33 joints of 8 5/8", J55, 24Lbs/ft, set at 1493'. 4 ½ production casing to TD.
Mud Program:	Winter Mud, engineer KL Rice, displaced 2600', Chem. gel/LCM.
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.
Samples:	30' to 5800', 20' to TD and 10' through zones of interest.
Electric Logs:	Weatherford, engineer Lynn Scott & F. Martins, Array Induction, Compensated Neutron/Density, Microlog, Hi Res.
Status:	4 ½" production casing set to TD on 10/24/11.

WELL CHRONOLOGY

DATE	6 AM DEPTH	FOOTAGE	RIG ACTIVITY
10/17			Move to and rig up rotary tools.
10/18	1320’	1320’	Rig up. Pump water and mix spud mud. Blow down mousehole and rathole. Spud in 12 ¼” surface hole to 1320’. Surveys(1/2 deg.).
10/19	1805’	485’	Ro 1506’ and circulate. Drop survey(1/2 deg.) and trip out for surface casing and run and cement 33 joints of 8 5/8” set at 1493’. Wait on cement. Nipple up and pressure test BOP. Trip in and drill plug and cement and 7 7/8” to 1805’
10/20	3130’	1325’	To 1819’ and trip for Bit No. 3. Surveys(1/2 deg.). Clean suction and service rig. Displace mud system at 2600’.
10/21	4615’	1485’	
10/22	5385’	770’	Clean suction and service rig. To 5019’ and wiper trip.
10/23	6310’	925’	
10/24	6350’TD	40’	To 6350’TD and circulate. Short trip 40 stands and circulate. Trip out for logs and run elogs. Trip to bottom and circulate. Trip out laying down and run and cement 4 ½” production casing to TD. Rig down.

BIT RECORD

NO.	MAKE	TYPE	SIZE	OUT	FOOTAGE	HOURS
1	HTC	CH1GJMS	12 ¼”	1506’	1506’	19
2	RR		7 7/8”	1819’	313’	6
3	HTC	Q506F	7 7/8”	6350’	4531’	90 1/2
				Total Rotating Hours:		115 1/2
				Average:		55 Ft/hr

DEVIATION RECORD - degree

503’ ½, 1032’ ½, 1506’ ½, 1819’ 1, 4704’ 1, TD ¾

MUD PROPERTIES

DATE	DEPTH	WT	VIS	PV	YP	pH	WL	CL	LCM-LBS/BBL
10/18	400’	9.4	48	20	5	9.0	8.0	300	6
10/19	1497’	9.4	48						
10/20	2428’	9.7	30	2	6	8.5	n/c	95K	4
10/21	3805’	9.2	38	10	10	8.5	37	8.5K	8
10/21	4406’	9.3	38	6	9	8.0	38	7K	4
10/22	5004’	9.2	48	22	8	11.0	9.0	4.5K	8
10/23	5944’	9.3	50	23	12	11.0	7.0	3K	8

ELECTRIC LOG FORMATION TOPS- KB Elev. 2699’

			*Crooked Creek No. 3-8	
FORMATION	DEPTH	DATUM	DATUM	POSITION
Casing	1493’			
Heebner	4482’	-1776’	-1785’	+9’
Toronto	4500’	-1794’	-1810’	+16’
Lansing	4625’	-1919’	-1935’	+16’
Marmaton	5284’	-2578’	-2579’	+1’
Cherokee	5454’	-2748’	-2758’	+10’
Atoka	5710’	-3004’	-3017’	+13’
Morrow	5766’	-3060’	-3075’	+15’
Morrow “B” SS	5786’	-3080’	-3099’	+19’
Base Morrow “B” SS	5790’	-3084’	-3133’	+49’
Morrow “C” SS	5829’	-3123’	na	
Base Morrow “C” SS	5832’	-3126’	na	
Mississippi Chester	5850’	-3144’	-3191’	+47’
Ste. Genevieve	6124’	-3418’	-3441’	+23’
St. Louis	6212	-3506’	-3533’	+27’
TD	6350’			

*O’Brien Energy Resources, Crooked Creek No. 3-8, 660’FSL & 1650’FEL, Sec. 8 – app. 1340’ to the East, K.B. Elev. 2699’.

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer O'Brien Energy	Lease No.	Date	10-19-11
Lease Roberts	Well # 1-9	Service Receipt	02167
Casing 5½" 21#	Depth 1493'	County Meade	State KS
Job Type 7 1/2 - 5 5/8" Surface	Formation	Legal Description	S-33-29

Pipe Data

Casing size 5½" 21#	Tubing Size
Depth 1493'	Depth
Volume Disp - 92 bbl	Volume
Max Press 2500#	Max Press
Well Connection D-1500'	Annulus Vol.
Plug Depth SC-45' (1448')	Packer Depth

Perforating Data

Shots/Ft		
	From	To
	From	To
	From	To
	From	To
	From	To

Cement Data

Lead 400 sk A Con w/ 3% CC ¼# PF, 2% WR-1

Tail in 150 sk Prem. Plus -/2% CC ¼# PF

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
2:30					on loc - site assessment (tiger unit)
5:35					spot tanks - rig up
3:30					start csg - Plat equip.
5:00					csg on btm, break circ 30 min
5:20					safety meeting / TSA
5:30					pressure test @ 2500#
5:35	200		210	5	mix pump 400 sk A Con w/ 3% CC ¼# of 2% WR-1 @ 11.4 ppg 395 ft³
6:30	150		30	5	mix pump 150 sk prem plus w/ 2% CC ¼# of @ 14.8 ppg 1.31 ft³/sk, 6.33 gal/sk
10:30	0		0	5	drop plug, disp csg
10:45	100		72	2	slow rate to last 20 bbl of disp
10:50	700		82	1	slow rate last 10 bbl of disp
7:00	1200		92	0	land plug, shut in well
					circ cmt to surface
					Job complete

Service Units	31726	35711-19911	19938-19883	13556 14711		
Driver Names	D Olivera	A Martinez	D Cunaday	J Mendez		

R. Pearson — Customer Representative

J. Bennett — Station Manager

A Rivera — Cementer

Taylor Printing, Inc.

BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer Oxbow Energy	Lease No.	Date 10 25 11	
Lease Roberts	Well # 1-8	Service Receipt 2179	
Casing 4½ 11.6	Depth 6350	County Meade	State KS
Job Type 4½ Long String	Formation	Legal Description S 35-29	

Pipe Data		Perforating Data		Cement Data
Casing size 4½ 11.6#	Tubing Size	Shots/Ft		Lead 50sx 60/40
Depth 6320	Depth 55 32'	From	To	1/4#/sk FL-160
Volume 65.45	Volume	From	To	2% gel 1/4# flo
Max Press 2000	Max Press	From	To	Tail in 700sx AA2
Well Connection 11.6	Annulus Vol.	From	To	1/4#/sk FL-160 5# gilsonite
Plug Depth 6278	Packer Depth	From	To	1/4#/sk flo

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1000					Arrive @ Location
1115					Safety Meeting - Rig Up
1130					Rig Up Complete
1315					Circulate W/ Rig
1355					Hook up to 4½ csg
1400	1500		10	10	Break Test
1403	375		5	40	Mud Flush Spacer
1410	350		17	40	Cement Head Start
1420	375		5	40	Fresh Water Spacer
1425	300		46	40	Pump and Drop Plug #5
1435					Drop Plug Wash Up
1440	300		111	6.3	Displace
1505	1000		10	2.0	Slow Rate Bump
1515	1100		1	1	Land Plug Float Held
					Plug Rat & Mouse Holes
					Tear Down
					Thanks For Using Trico Energy Services

Service Units	19620	30417 19813	19827 19566			
Driver Names	C Chase	Doug	David			

Customer Representative

Station Manager

Cementer

Taylor Printing, Inc.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 31, 2012

Joseph Forma
O'Brien Energy Resources Corp.
18 CONGRESS ST, STE 207
PORTSMOUTH, NH 03801-4091

Re: ACO1
API 15-119-21303-00-00
Roberts 1-8
SW/4 Sec.08-33S-29W
Meade County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Joseph Forma