Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1252227

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: Joe Forma
Phone: (603) 427-2099
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Peter Debenham
Purchaser:

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 #:

02/05/2015 Spud Date or Recompletion Date
02/11/2015 Date Reached TD
02/12/2015 Completion Date or Recompletion Date

API No. 15 - 15-119-21387-00-00
Spot Description:
W2 - E2 - NW - NE Sec. 3 Twp. 33 S. R. 29 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
1820 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: Atkinson Well #: 1-3
Field Name: Borchers Northwest
Producing Formation: Dryhole
Elevation: Ground: 2628 Kelly Bushing: 2640
Total Vertical Depth: 6400 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1471 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: 10500 ppm Fluid volume: 1500 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Max Papay
Lease Name: Sneed License #: 34021
Quarter NW Sec. 14 Twp. 33 S. R. 29 ☐ East ☑ West
County: Meade Permit #: 15-119-20027

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: 05/14/2015
☑ **Confidential Release Date:** 05/13/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 05/15/2015

1252227

Operator Name: O'Brien Energy Resources Corp. Lease Name: Atkinson Well #: 1-3

Sec. 3 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:

Induction
Micro
Neutron

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

Name	Top	Datum
Attached	Attached	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	8.625	24	1482	aconn blend	550	2%CaCl & 1/4# floseal

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

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

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

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:
_____
_____

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Atkinson 1-3
Doc ID	1252227

Tops

Name	Top	Datum
Heebner	4412’	-1772
Toronto	4436’	-1796
Lansing	4550’	-1910
Marmaton	5188’	-2548
Cherokee	5364’	-2724
Atoka	5608'	-2968
Morrow	5660	-3020
Chester	5706	-3066
Ste. Genevieve	6006	-3366
St. Louis	6124'	-3484
Spergen	6362'	-3572

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Atkinson 1-3
Doc ID	1252227

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1482	aconn blend	550	2%CaCl & 1/4# floseal

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer O'Brien	Lease No.	Date 2-7-15	
Lease Atkinson	Well # 1-3	Service Receipt 05245	
Casing 8 5/8 24# Depth 1500'	County Meade	State KS	
Job Type 242 - 8 5/8 Surface Formation		Legal Description	

Pipe Data				Perforating Data		Cement Data
				Shots/Ft		
Casing size 8 5/8" 24#		Tubing Size		From	To	Lead 400 sk ACon
Depth 1500'		Depth		From	To	
Volume Disp 92 bbl		Volume		From	To	Tail in 180 sk Prem. Plus
Max Press 1000#		Max Press		From	To	
Well Connection TD-1000#		Annulus Vol.		From	To	
Plug Depth 42'		Packer Depth		From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
4:00					on loc
					spot trucks
					start csg
10:00					csg on btm, break circ
10:30					safety meeting - JSA
					pressure test 2000#
	200		210	5	mix + pump 400 sk ACon @ 11.4#
	200		36	5	Switch to tail 180 sk Class C @ 14.8#
	100		0	5	drop plug, disp csg
	500		80	2	slow rate
11:30	1000		90	0	land plug, float held

Service Units	78940	37223-37726	14355-19883	14354-19578	
Driver Names	A Olivera	G Edwards	E Mendoza	H Rutledge	

R Pearson — Customer Representative

J Davis — Station Manager

A Olivera — Cementer

Taylor Printing, Inc.

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer Obrien Energy	Lease No.	Date 2-12-15
Lease Atkinson	Well # 1-3	Service Receipt 5973
Casing 8 5/8 Depth 1520	County Meade	State KS
Job Type 242 PTA Formation		Legal Description 3-33-29

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size 4 1/2 D.P.	Shots/Ft		Lead
Depth	Depth 1520	From	To	
Volume	Volume 18.5 bls	From	To	
Max Press	Max Press 500	From	To	Tail in 170 sk 60/40 POZ
Well Connection	Annulus Vol. 80 bls	From	To	1.5 Ft3-sk
Plug Depth	Packer Depth —	From	To	7.5 Gal-sk 13.5#

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
1500					Arrive On location
1600					Safety Meeting Rig Up
1630		800	1	1	Pressure Test
1635		500	13.3	4	Pump cmt @ 13.5 # @ 1520'
1645		500	18.5	4	Displace
1720		120	13.3	4	Pump cmt @ 13.5# @ 510'
1730		120	5.4	3	Displace
1915		65	5.3	3	Pump cmt @ 13.5# @ 60'
1930		50	13.3	3	Plug Rat + Mouse Hole
2030					Job Complete

Service Units	78938	70897-19570	14354-19578			
Driver Names	Izzy	Sam	Saljo			

Customer Representative: Roger P

Station Manager: Tyca Dem

Cementer: Izzy Chavez

O'Brien Energy Resources, Inc.

Atkinson No. 1-3

Section 3, T33S, R29W

Meade County, Kansas

February 2015

Well Summary

The O'Brien Energy Resources, Atkinson No. 1-3 was drilled to a total depth of 6400' in the Mississippian Spergen Formation. It offset the Borchers No. 1-34 by approximately 1200' to the Southwest. The Heebner, Toronto and Lansing ran 2' high relative to this offset. The Marmaton, Cherokee and Atoka came in 8', 7' and 10' low respectively. The Morrow 19' low and the Chester and Ste. Genevieve 8' and 10' low. Just minor hydrocarbon shows were documented in the upper Chester and Basal Chester. The St. Louis porosity zone was not developed nor was a Morrow reservoir sandstone. The Atkinson No. 1-3 was plugged and abandoned on 2/11/15.

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:	Atkinson No. 1-3, Borchers Northwest Field
API:	15-119-21387
Location:	660' FNL & 1820' FEL, Section 3, T33S, R29W, Meade County, Kansas – Southeast of Plains.
Elevation:	Ground Level 2628', Kelly Bushing 2640'
Contractor:	Duke Drilling Rig No. 9, Type: Double jacknife, double stand, Toolpusher Emidgio Rojas, Drillers: Victor Martinez, Alejandro V., Fernando Juroeb
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	2/5/15
Total Depth:	2/11/15, Driller 6400', Logger 6402', Spergen Formation
Casing Program:	35 joints of new 8 5/8", J-55, 24Lbs/ft, set at 1483' with 400 sacks A Com Blend(3% cc, ¼ lb Floseal) and 150 sacks tail. Plug down 11:45 AM 2/7/15.
Mud Program:	Service Mud/MudcCo. Engineer Brad Bortz, displaced 2800', Chem. gel/LCM.
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.
Samples:	30' to 5700', 20' to TD.
Electric Logs:	Weatherford, engineer Ben Weldin , Array Induction, Compensated Neutron/Density, Microlog, Hi Res.
Status:	Plugged and abandoned 2/12/15.

WELL CHRONOLOGY

DATE	6 AM DEPTH	FOOTAGE	RIG ACTIVITY
2/5	335’	335’	move Rig and rig up rotary tools. Pump water and mix spud mud. Drill rat hole and mouse hole. Spud in 12 ¼” surface hole to 335’.
2/6	1232’	997’	To 1183’ and lost circulation. Trip out and mix mud and LCM. Trip in and circulate and ream 90’ to 1183’ and work on trash pump.
2/7	1520’	288’	Clean mud pump and suction pit. To 1490’ and circulate and trip out and run and cement 35 joints of new 8 5/8” 24 Lbs/ft J55 set at 1483 by Basic with 400 sacks of A-Com(3%cc, ¼#/bbl floseal) tailed with 150 sacks Class A. Plug down 11:45 am – did circulate. Wait on cement. Nipple up BOP and trip in with Bit No. 2 and pressure test BOP to 300 PSI/15 min. Drill plug and cement and new hole to 1520’.
2/8	2997’	1477’	Service rig and hold safety meeting. Displace mudsystem at 2997’. Survey(1 deg.).
2/9	4750’	1753’	Surveys(1 ¼ - 1 deg.).
2/10	5730’	980’	To 5021’ and circulate and wiper trip 55 stands.
2/11	6400’TD	670’	To 6400’TD and circulate and short trip 60 stands. Drop survey(1 ¾ deg.) and trip out for logs and run Elogs. Trip in and circulate and trip out laying down and plug and abandon well. Rig down.

BIT RECORD

NO.	MAKE	TYPE	SIZE	OUT	FOOTAGE	HOURS
1	STC	PH616	12 ¼”	1490’	1490’	18
2	HTC	PLT616	7 7/8”	6400’	4910’	67 ½
				Total Rotating Hours:		85 ½
				Average: Ft/hr		94.8

DEVIATION RECORD - degree

2524’ 1, 3536’ 1 ¼, 4578’ 1, 6400’ 1 ¾

MUD PROPERTIES

DATE	DEPTH	WT	VIS	PV	YP	pH	WL	CL	LCM-LBS/BBL
2/6	1205’	9.0	42	Water					
2/7	1490’	Water							
2/8	2101’	9.1	28			7.0	nc	48K	tr
2/9	3950’	9.1	50	15	15	11.0	8.8	5K	2
2/10	5140’	9.2	64	16	17	11.5	8.8	3K	4
2/11	6155’	9.4	55	15	16	11.5	8.8	3k	5

ELECTRIC LOG FORMATION TOPS- KB Elev. 2640’

			*Borchers No. 1-34	
FORMATION	DEPTH	DATUM	DATUM	POSITION
Casing	1483’			
Heebner	4412’	-1772’	-1774’	+2’
Toronto	4436’	-1796’	-1796’	0’
Lansing	4550’	-1910’	-1912’	+2’
Marmaton	5188’	-2548’	-2540’	-8’
Cherokee	5364’	-2724’	-2717’	-7’
Atoka	5608’	-2968’	-2958’	-10’
Morrow	5660’	-3020’	-3001’	-19’
Mississippi Chester	5706’	-3066’	-3058’	-8’
Ste. Genevieve	6006’	-3366’	-3356’	-10’
St. Louis	6124’	-3484’		
Spergen	6362’	-3572-’		
TD	6400’			

*O’Brien Energy Resources, Boarchers No. 1-34, 300’FSL & 1110’FEL, Sec. 34 – app. 1200’ to the NE, K.B. Elev. 2654’.