Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1205679

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:

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 #:

02/28/2014	03/07/2014	03/07/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-025-21572-00-00
Spot Description:
NE - SE - SW - SE Sec. 35 Twp. 30 S. R. 24 ☐ East ☑ West
335 Feet from ☐ North / ☑ South Line of Section
1601 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: Clark
Lease Name: Ardrey Well #: 3-35
Field Name:
Producing Formation: Dryhole
Elevation: Ground: 2533 Kelly Bushing: 2545
Total Vertical Depth: 5700 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 733 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: 41000 ppm Fluid volume: 1800 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. 34 S. R. 30 ☐ 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: 05/19/2014
☑ **Confidential Release Date:** 05/18/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 05/20/2014

1205679

Operator Name: O'Brien Energy Resources Corp. Lease Name: Ardrey Well #: 3-35

Sec. 35 Twp. 30 S. R. 24 ☐ East ☑ West County: Clark

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:

Neutron
Induction

☑ 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	8.625	24	733	A-conn blend	300	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:

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	Ardrey 3-35
Doc ID	1205679

Tops

Name	Top	Datum
Heebner	4492	-1945
Toronto	4504	-1957
Lansing	4654	-2107
KC	4866	-2319
Stark	5035	-2488
Cherokee	5326	-2779
Morrow	5407	-2860
Mississippi Chester	5450	-2903

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Ardrey 3-35
Doc ID	1205679

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	733	A-conn blend	300	2%CaCl &1/4# floseal

O'Brien Energy Resources, Inc.
Ardrey No. 3-35, Ardrey Field
Section 35, T30S, R24W

Clark County, Kansas
March, 2014

Well Summary

The O'Brien Energy Resources, Corporation, Ardrey No. 3-35 was drilled to a total depth of 5700'. It offset the Ardrey No. 1-2 to the NW. Formation tops ran high to this well. The Heebner came in 1' high. Tops from the Toronto to the Chester ran consistently 9' to 14' high. Formation tops also ran high to the Ardrey No. 2-2. The Stark and Cherokee came in 18' and 24' high. The Morrow, 15' high and the Chester, 36' high.

The only hydrocarbon show with any potential occurred in the Lower Lansing(5084'-5090') and consists of a Limestone: Light brown, buff, microcrystalline, microsucrosic, firm brittle, clean, fossiliferous, chert nodules, occasional fair intercrystalline and fine vuggy porosity, trace(much less than 1% spls) light bright yellow hydrocarbon fluorescence and good streaming cut, light oil stain, no live oil. A 70 Unit gas kick occurred on the hotwire.

Additional very minor shows occurred in the Cherokee(attached mudlog).

The Ardrey No. 3-35 was plugged and abandoned 3/7/14.

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:	Ardrey No. 3-35, Ardrey Field
Location:	335' FSL & 1601' FEL, Section 35, T30S, R24W, Meade County, Kansas – Southeast of M.
Elevation:	Ground Level 2535', Kelly Bushing 2547'
Contractor:	Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Terry Sorter, Drillers: Saul Garcia, Richard TaFaya, Darryl LaRoche
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	2/28/14
Total Depth:	3/6/14, Driller 5700', Logger 5692', Mississippi
Casing Program:	17 joints of 8 5/8", J55, 24Lbs/ft, set at 750' with 175 sacks Class C(2%cc).
Mud Program:	Service Mud/Mud-Co, Engineer Terry Ison, Chemical/gel, displaced 4140'.
Wellsite Consultant:	Peter Debenham Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.
Gas Detection:	MBC Logging, Meade, and logging trailer.
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 3/7/14.

WELL CHRONOLOGY

DATE	6 AM DEPTH	FOOTAGE	RIG ACTIVITY
2/27			Move to location and rig up rotary tools.
2/28	750’	750’	Mix spud mud. Drill mouse hole and rat hole. Spud in 12 ¼” surface hole to 750’. Circulate and trip for casing and run and cement 17 joints of 8 5/8” set at 730’ – did circulate. Plug down 4:30 PM. Back off landing joint and nipple up BOP.
3/1	1660’	910’	Wait on cement. Nipple up and presure test BOP. Drill plug and cement and 7 7/8” to 950’ and trip for Bit No. 3. To 1660’. Survey(1/4 deg.) and service rig. Very cold, windy and snow.
3/2	2605’	945’	Survey(3/4 deg.). To 2605’. Thaw out lines, intense cold and high winds.
3/3	3610’	1005’	Clean and service rig and survey(3/4 deg.).
3/4	4440’	830’	Clean suction and displace mud system at 4140’.
3/5	5185’	745’	Service and drill.
3/6	5700’TD	515’	To 5700’TD and circulate and condition mud. Wiper trip and circulate. Drop survey(3/4 deg.) and trip for logs. Run elogs.
3/7	TD		Run elogs. Trip in and circulate. Trip out laying down and plug and abandone well. Rig down.

BIT RECORD

NO.	SIZE	MAKE	TYPE	OUT	FOOTAGE	HOURS
1	12 ¼”	Varel	RR	733’	750’	10 ½
2	7 7/8”	htc	ha22512	950	200’	4 ¼

3	7 7/8”	HTC	DP506F	5700’	4750’	1116 ¼

Total Rotating Hours: 131
Average: 43.5 Ft/hr

DEVIATION RECORD - degree

732’ ¼, 1514’ ¼, 2201’ ¾, 2731’ ¾, 3831’ ¾, 4521’ ¾, 5368’ 1, TD ¾

MUD PROPERTIES

DATE	DEPTH	WT	VIS	PV	YP	pH	WL	CL	LCM-LBS/BBL
3/1	917’	29	29	--	--	7.0	N/C	78K	--
3/2	2300’	9.6	36	10	12	7.0	n/c	82k	--

ELECTRIC LOG FORMATION TOPS- KB Elev. 2547’

FORMATION	DEPTH	DATUM	*Ardrey No. 1-2 DATUM	POSITION
Casing	732’			
Heebner	4492’	-1945’	-1946’	+1’
Toronto	4504’	-1957’	-1966’	+9’
Lansing	4654’	-2107’	-2119’	+12’
KC	4866’	-2319’	-2331’	+12’
Stark SH	5035’	-2488’	-2499’	+11’
BKC	5146’	-2599’	-2613’	+14’
Cherokee	5326’	-2779’	-2791’	+12’
Morrow	5407’	-2860’	-2873’	+13’
Morrow SS	NA			
Mississippi Chester	5450’	-2903’	-2916’	+13’
TD	5692’			

*Obrien Energy, Ardrey No. 1-2, Sec. 2, 31S, 24W – KB 2541’, to the SE.

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer O'Brien Energy	Lease No.	Date 7-28-14	
Lease Andrews	Well # 3-35	Service Receipt 04751	
Casing 8 5/8	Depth 733	County Clark	State KS
Job Type 242	Formation	Legal Description 35-30-24	

Pipe Data		Perforating Data		Cement Data
Casing size 8 5/8	Tubing Size	Shots/Ft		Lead 150sk A-Con 2.45ft³
Depth 733	~~Depth~~ 5½ 42	From	To	
Volume 44.61 S	Volume	From	To	18.16 Gal-sk 11.4#
Max Press 1000	Max Press	From	To	Tail in Class C 150sk
Well Connection 8 5/8	Annulus Vol.	From	To	1.34ft³-sk
Plug Depth 691	Packer Depth	From	To	6.33 Gal-sk 14.8#

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
1315					Arrive On Location
1330					Safety Meeting - Rig Up
1315					Rig Running Casing
1525					Circulate w/ Rig
1530					Hook Up To BES
1535	1200		1	1	Pressure Test
1540	300		79	5	Pump Lead cmt @ 11.4#
1600	200		36	5	Pump Tail cmt @ 14.8#
1610					Drop Plug - Wash Up
1615	300		34	5	Displace
1625	500		10	2	Slow Down
1630	1000		.1	.1	Land Plug - Float Held
					Cement To Surface
					Job Complete
					Thanks For Using Basic Energy Services

Service Units	78938	70697-19570	33021-14784			
Driver Names	Izzy	Sam	Gabe E			

Roger
Customer Representative

Jerry Rentz
Station Manager

Ismael Chavez
Cementer

Taylor Printing, Inc.

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Owner O'BRIEN Energy	Lease No.	Date 03-07-14	
Lease Anadarko	Well # 3-35	Service Receipt 1117-04898A	
Casing 8 5/8"	Depth 660'	County Clark	State KS
Job Type PTA	Formation	Legal Description 35-30-24	

Pipe Data

Casing size 8 5/8"	Tubing Size DP 4 1/2"
Depth 1500'	Depth
Volume	Volume
Max Press	Max Press
Well Connection	Annulus Vol.
Plug Depth 1500-1380'	Packer Depth

Perforating Data

Shots/Ft

From	To
From	To
From	To
From	To
From	To

Cement Data

Lead

Tail in 210sks 60/40 Poz 4% total Gel 13.5ppg

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
1700					Called Out
1800					On Location
					Safety Meeting
					Set up
1815					1st Plug 50sks 1500ft-1380'
			18BBLs slurry	2	8 1/2 BBLs MW - 18BBLs slurry - 17BBLs Disp
			17BBLs Displace	3	17BBLs Displacement 13.5ppg
1900					2nd Plug 50sks 760-630'
			18BBLs slurry	2	8 1/2 BBLs MW. 18BBLs slurry 7BBLs
				2	7BBLs Displacement
1940					3rd Plug 40sks 351'-284'
			10BBLs Slurry	2	7BBLs MW 10BBLs slurry
			2BBLs Displace	2	Displace 2BBLs
2000			5 BBLs Slurry	2	4th Plug Top of Csg 60'-Surface
					20sks 3BBLs MW
			1 BBL Disp	1	Displace 1 BBL
2110			7BBLs	1	Rat Hole 30sks - 7BBLs slurry
2120			5 BBLs	1	Mouse Hole 20sks - 5BBLs slurry
2200					Finished Released

Service Units	21795	38117-19919	19615-37724			
Driver Names	Rogen	Gabriel	Norma			

Roger Pearson
Customer Representative

Jerry Peterson
Station Manager

Roger Brown
Cementer

Taylor Printing, Inc.