KOLAR Document ID: 1308554

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
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
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

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

3/1/2016	3/8/2016	3/9/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-119-21394-00-00
Spot Description:
__ - SE - NE - NW Sec. 17 Twp. 33 S. R. 29 ☐ East ☑ West
990 Feet from ☑ North / ☐ South Line of Section
2310 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: Roger Davis Well #: 1-17
Field Name:
Producing Formation: Dry Hole
Elevation: Ground: 2690 Kelly Bushing: 2702
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: 2300 ppm Fluid volume: 3279 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Max Papay
Lease Name: Sneed 2-14 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: 06/06/2016
☑ **Confidential Release Date:** 06/06/2018
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 06/06/2016

Operator Name: O'Brien Energy Resources Corp. Lease Name: Roger Davis Well #: 1-17

Sec. 17 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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

Neutron
Micro
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	1493	aconn	475	3% CC & 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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Roger Davis 1-17
Doc ID	1308554

Tops

Name	Top	Datum
Heebner	4485	-1783
Toronto	4507	-1805
Lansing	4632	-1930
Marmaton	5303	-2601
Cherokee	5461	-2759
Atoka	5726	-3024
Morrow	5783	-3081
Mississippi	5872	-3170
Ste. Genevieve	6146	-3444
St. Louis	6234	-3532

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Roger Davis 1-17
Doc ID	1308554

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	1493	aconn	475	3% CC & 1/4# FLOSEAL

BASIC ENERGY SERVICES

PRESSURE PUMPING

Job Log

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Customer:	Obrien Energy	Cement Pump No.:	19919	Operator TRK No.:	21884		
Address:		Ticket #:	1718-13177L	Bulk TRK No.:	19808-37724		
City, State, Zip:		Job Type:	Z42 Cement Surface Casing				
Service District:	1718 - LIBERAL	Well Type:	OIL				
Well Name and No.:	Roger Davis 1-17	Well Location:	17,33,29	County:	Meade	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON CLASS C	325	3% CC, 1/4# POLYFLAKE,.2% WCA-1	37724	Front	Back
CLASS C	150	2% CC, 1/4# POLYFLAKE	19827-19808	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	11.4	2.95	18.1	958.75	Man Hours:	
Tail:	14.8	1.34	6.33	201	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps T	Pumps C	Pressure(PSI) Tubing	Pressure(PSI) Casing	Description of Operation and Materials
430							CALLED OUT FOR JOB
830							ON LOC RIG RIGGING UP CASERS
845							START 8 5/8 CASING
1028							CASING ON BOTTOM HOOK UP PC & CIRC IRON
1035							BREAK CIRC WITH RIG
1038							CIRC TO PIT
1048							THRU CIRC HOOK IRON TO PT
1051						2500	PSI TEST LINES
1054	6	171		X		150	PUMP 325SX A-CON @ 11.4#
1124	6	36		X		100	PUMP 150SX CLASS C @ 14.8#
1130							SHUT DOWN DROP PLUG
1131	6	92.2		X		100	PUMP DISPLACEMENT
1138	6	92.2		X		130	40 BBLS IN CEMENT TO SURFACE
1145	2	92.2		X		200	72 BBLS IN SLOW RATE
1155	2	92.2		X		300-1000	LAND PLUG
1157				X		1000-0	RELEASE FLOAT — HELD
1200							JOB OVER
							THANKS FOR CALLING BASIC
							TYCE DANIEL JOSE

Size Hole	12 1/4	Depth				TYPE			
Size & Wt. Csg.	8 5/8 24#	Depth	1492	New / Used	NEW	Packer		Depth	
tbg.		Depth				Retainer		Depth	
Top Plugs		Type				Perfs		CIBP	

Customer Signature: Roger Lawson	Basic Representative:
	Basic Signature:
	Date of Service:

BASIC ENERGY SERVICES

PRESSURE PUMPING

Job Log

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Customer:	Obrien Energy	Cement Pump No.:	19919	Operator TRK No.:	21884		
Address:		Ticket #:		Bulk TRK No.:	19808		
City, State, Zip:		Job Type:	Z42 Plug To Abandon				
Service District:		Well Type:	OIL				
Well Name and No.:	Roger Davis 1-17	Well Location:	17,33,29	County:	Meade	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 POZ	175	4% TOTAL GEL	19827-19808		Back
				Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	13.5	1.5	7.5	262.5	Man Hours:	
Tail:					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps T	Pumps C	Pressure(PSI) Tubing	Pressure(PSI) Casing	Description of Operation and Materials
12:30							CALLED OUT FOR JOB
13:25							ON LOC.
							1ST PLUG 50SX @ 1520
2:07 PM	5	20	X		90		PUMP H20 SPACER
2:12 PM	5	13.3	X		130		PUMP CEMENT
14:14	5	7	X				PUMP H20 SPACER
14:16	5	10	X		100		PUMP MUD DISP.
2:18 PM							SHUT DOWN PULL DRILL PIPE
							2ND PLUG 50SX @ 540
14:57	5	20	X		30		PUMP H20 SPACER
15:02	5	13	X		50		PUMP CEMENT
15:05	5	4	X				DISPLACE
15:06			X				SHUT DOWN
							3RD PLUG 20SX @ 60FT
15:40		5	X				PUMP H20 SPACER
15:45		5	X				PUMP CEMENT
15:47:00			X				SHUT DOWN
15:50		5	X				PLUG RAT HOLE
15:55		8	X				PLUG MOUSE HOLE
16:00							JOB OVER
							THANKS FOR CALLING BES
							TYCE, DANIEL, JOSE

Size Hole	7 7/8	Depth				TYPE		
Size & Wt. Csg.	8 5/8 24#	Depth	1492	New / Used		Packer		Depth
tbg.	4 1/2	Depth	1520			Retainer		Depth
Top Plugs		Type				Perfs		CIBP

Customer Signature:	Basic Representative:	
	Basic Signature:	
	Date of Service:	

O'Brien Energy Resources, Inc.

Roger Davis No. 1-17

Section 17, T33S, R29W

Meade County, Kansas

March, 2016

Well Summary

The O'Brien Energy Resources, Corporation, Roger Davis No. 1-17 was drilled to a total depth of 6350' in 100 rotating hours and without any problems. It was drilled 1325' south of the Roberts No. 1-8. Formation tops ran low relative to this offset. The Heebner, Toronto and Lansing formations ran 7', 9' and 11' low respectively. The Atoka and Morrow came in 21' low. The primarily objective Morrow "B" Sandstone proved tight and came in 28' low. The Mississippi Formation all came in 26' low.

The only show of quality occurred in the Morrow "C" Sandstone and consists of a sandstone in 15 % of the sample: Light to medium mottled brown, hard, dense, very fine upper to fine lower, well sorted subround grains, calcareous cement, clean to marly in part, tight to occasional trace intergranular and vuggy porosity, light speckled blue hydrocarbon fluorescence in 10% of the samples, slow light blue bleeding to streaming cut, no live oil and questionable staining. A 160 Unit gas increase was documented. This zone ran 26' low to the Roberts No. 1-8 which production tested wet.

The Roger Davis No. 1-17 was plugged and abandoned 3/9/16.

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:	Roger Davis No. 1-17, Angell South Field
Location:	990' FNL & 2310' FWL, Section 17, T33S, R29W, Meade County, Kansas – Southeast of Plains.
Elevation:	Ground Level 2690', Kelly Bushing 2702'
Contractor:	Duke Drilling Rig No. 9, Type: Double jacknife, triple stand, Toolpusher Emigdio Rajas, Drillers: Victor Martinez, Alejandro V., Fernando Jurado
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	3/1/16
Total Depth:	3/8/16, Driller 6350', Logger 6349', St. Louis Formation
Casing Program:	35 joints of 8 5/8", J55, 24Lbs/ft, set at 1492'.
Mud Program:	Winter Mud engineer Kris McCune, displaced 2620', 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. One set dry cut sent to the KGS sample log library, Wichita, KS.
Electric Logs:	Weatherford, engineer Adam Sill , Array Induction, Compensated Neutron/Density, Microlog, Hi Res.
Status:	Plugged and abandoned 3/9/16

WELL CHRONOLOGY

DATE	6 AM DEPTH	FOOTAGE	RIG ACTIVITY
3/1			Move to location and rig up rotary tools. Drill pipe inspection.
3/2	900’	900’	Rig up and mix spud mud. Drill rat hole and mouse hole. Spud in 12 ¼” surface hole to 900’. Survey(1 deg.).
3/3	1500’	600’	To 1500’ and circulate. Trip out and rig up casing crew and run and cement 35 joints of new 8 5/8”, J-55 STC set at 1492’ with 325 sacks Class A Con Blend tailed with 150 sacks Class C(3%cc & ¼ lb floseal, 2% gel). Cement did circulate. Plug down 12 PM. Wait on cement. Nipple up and pressure test BOP to 500 psi/15 minutes. Drill plug and cement.
3/4	2620’	1120’	Drill 7 7/8” hole to 1590’ and trip for Bit No. 3. To 2620’. Survey(1 deg.). Clean pits for displacement. To 2620’ and drop survey(1 deg.) and trip for balled bit. Displace mud.
3/5	4020’	1400’	Displace and bit trip. Survey(1 deg.).
3/6	5185’	1165’	Survey(1 ¼ deg.). to 5000’ and circulate and wiper trip 38 stands. To 5185’.
3/7	6025’	840’	
3/8	6350’TD	325’	To 6350’TD and circulate. Short trip and circulate. Drop survey(1 deg.) and trip out for logs. Run Elogs.
3/9	TD		Run Logs. Trip in and circulate. Trip out laying down and plu and abandon well. Rig down.

BIT RECORD

NO.	MAKE	TYPE	SIZE	OUT	FOOTAGE	HOURS
1	RR	PLT	12 ¼”	1500’	1500’	11
2	RR	PLT	7 7/8”	1590’	90’	3 1/2
3		PLT616	7 7/8”	6350’	4760’	86
				Total Rotating Hours:		100 1/2
				Average:		63.2 Ft/hr

MUD PROPERTIES

DATE	DEPTH	WT	VIS	PV	YP	pH	WL	CL	LCM-LBS/BBL
3/2	0’	Make up water							
3/3	1305’	9.0	33	7	7	7.5	nc	4.3K	18
3/4	2010’	9.4	28	4	1	9.5	nc	67K	0
3/5	3253’	9.2	41	10	25	9.5	nc	8K	3
3/6	4655’	9.1	45	16	8	10.0	12.0	5K	6
3/7	5583’	9.2	55	24	11	10.0	8.6	4.3K	6
3/8	6294’	9.2	54	26	14	10.5	6.0	3.1K	6

DEVIATION RECORD – degree

801’ 1, 1500’ ¾, 2620’ 1, 3674’ 1, 5597’ 1 ¼, 6350’ 1

ELECTRIC LOG FORMATION TOPS- KB Elev. 2702’

			*Roberts No. 1-8	
FORMATION	**DEPTH**	**DATUM**	**DATUM**	**POSITION**
Casing	1493’			
Heebner	4485’	-1783’	-1776’	-7’
Toronto	4507’	-1805’	-1794’	-9’
Lansing	4632’	-1930’	-1919’	-11’
Marmaton	5303’	-2601’	-2578’	-23’
Cherokee	5461’	-2759’	-2748’	-11’
Atoka	5726’	-3024’	-3004’	-20’
Morrow	5783’	-3081’	-3060’	-21’
“A” SS	5744’	-3042’	NP	
Morrow “B” SS	5810’	-3108’	-3080’	-28’
Morrow “C” SS	5842’	-3140’	-3123’	-17’
Mississippi Chester	5872’	-3170’	-3144’	-26’
Ste. Genevieve	6146’	-3444’	-3418’	-26’
St. Louis	6234’	-3532’	-3506’	-26’
TD	6350’	-3648’		

*O’Brien Energy Resources, Roberts No 1-8, 335’FSL & 2293’FWL, Sec. 8 – 1320’ to the N, K.B. Elev. 2706’.