

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Hush 2-9
Doc ID	1283828

Tops

Name	Top	Datum
Heebner	4393	-1651
Toronto	4418	-1676
Lansing	4490	-1748
Marmaton	5156	-2414
Cherokee	5331	-2589
Atoka	5623	-2881
Morrow	5667	-2925
Mississippi Chester	5740	-2998
Ste. Genevieve	6013	-3271
St. Louis	6178	-3436

O'Brien Energy Resources, Inc.
Hush No. 2-9, Bruno NE Prospect
Section 9, T33S, R30W

Meade County, Kansas
October, 2015

Well Summary

The O'Brien Energy Resources, Corporation, Hush No. 2-9, Bruno NE Prospect, was drilled to a total depth of 6400' in the Mississippian St. Louis Formation without any problems. It offset the Hush No. 1-16 by approximately 2000' to the Northeast. The Heebner came in 10' high relative to this offset. The Lansing, Marmaton and Cherokee ran 7', 8', and 9' high respectively. The Morrow came in 8' high and some structure was gained as the Chester came in 13'.

An excellent hydrocarbon show occurred in the Upper Chester from 5754' to 5766' and consists of Limestone: Medium brown, biomicrite, microcrystalline, microsugrosic to sugrosic in part, brittle, clean, subchalky in part, fossiliferous, sandy, occasionally good interparticle porosity, intercrystalline porosity, even light brown matrix oil stain, bright light yellow hydrocarbon fluorescence in 20% of the samples, excellent streaming cut, abundant live bleeding oil and gas bubbles, oil odor, excellent show, dissipates somewhat when dried. A 600 Unit gas kick occurred on the hotwire.

No Morrow 'B' Sandstone was encountered however an upper Morrow Sandstone with show was documented from 5674' to 5676' and consisting of a very fine Sandstone to Siltstone, Medium to dark brown to gray, hard, very fine well sorted grains, calcareous cement, no fluorescence, slow bleeding cut. A trace of formation gas was recorded.

Typical shows and of low quality were documented in the Basil Chester/Ste. Genevieve (attached mudlog).

4 1/2" production casing was run on the Hush No. 2-16 on 11/3/15 to production test the Upper Chester.

Respectfully Submitted,

Peter Debenham

WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH
Geologist: Paul Wiemann – Denver, CO

Prospect Geologist: Ed Schuett, David Ward

Well: Hush No. 2-9, Bruno NE Prospect

Location: 100' FSL & 660' FEL, Section 9, T33S, R30W, Meade County, Kansas – 5 miles South of Plains.

Elevation: Ground Level 2729', Kelly Bushing 2742'

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: 10/28/15

Total Depth: 1/7/14, Driller 5360', Logger 5356', Mississippi St. Louis

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1495'.

Mud Program: Winter Mud, engineer Kris McCune, displaced 2600' with Chemical Gel/LCM.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' samples, dry cut sent to the KGS log Library, Wichita.

Electric Logs: Weatherford, engineer Adam Sill, 1) Dual Induction 2) Compensated Neutron Litho Density 3) Microlog – high res. repeat.

Status: 4 1/2" production casing run on the Hush No. 2-9 on 11/3/15.

WELL CHRONOLOGY

<u>DATE</u>	<u>Midnight DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
10/28	1495'	1495'	Rig on location and rigged up – dry watch. Mix spud mud. Drill rat hole and mouse hole. Spud in 12 ¼” to 1495’ and circulate. Survey(1 deg.). Wiper trip and circulate. Drop survey(3/4 deg.) and trip out and rig up casing crew.
10/29	2250'	755'	Run and cement 35 joints of 8 5/8” casing set at 1495’. Wait on cement – did circulate. Clean pits and nipple up BOP. Drill plug and cement and 7 7/8” to 1650’ and trip for bit no. 3. To 2250’.
10/30	3900'	1650'	Clean pits and surveys(1 deg.). Displace mud system at 2600’.
10/31	4970'	1070'	To 4545’ and circulate and wait on Geologist. Survey(1 deg.). To 4970’ and drilling.
11/1	5990'	1020'	To 5024’ and circulate. Wiper trip 54 stands and break circulation. To 5990’. Work on mud pump, change piston head.
11/2	6400’TD	410'	To 6400’TD and circulate. Wiper trip and circulate. Drop survey(1 deg.) and trip for logs and run Elogs.
11/3	TD		Run Elogs. Trip in and circulate. Trip out laying down and run and cement 4 ½” production casing to TD. Rig down.

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	PDC	12 ¼”	12 ¼”	1495’	1495’	6 3/4
2	RR HA28Q		7 7/8”	1650’	155’	3/4
3	PLT 616		7 7/8”	6400’	4750’	60 1/4
Total Rotating Hours:						67
Average:						95.5 Ft/hr

DEVIATION RECORD - degree

825’ ¾, 1495’ ¾, 3606’ 1, 2596’ 1, 6400’ 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>
10/29	1495’	8.3							
10/30	2976’	8.8	46	16	12	9.0	18.8	7.2K	4
11/1	5295’	9.3	44	17	9	10.0	8.8	4.8K	6

11/2 6327' 9.2 62 26 19 9.5 8.6 3.7K 6

ELECTRIC LOG FORMATION TOPS - KB Elev. 2742'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	*Hush No. 1-16	
			<u>DATUM</u>	<u>POSITION</u>
Surface Casing	1492'			
Heebner	4393'	-1651'	-1661'	+10'
Toronto	4418'	-1676'	-1675'	-1'
Lansing	4490'	-1748'	-1757'	+9'
Marmaton	5156'	-2414'	-2421'	+7'
Cherokee	5331'	-2589'	-2595'	+8'
Atoka	5623'	-2881'	-2887'	+6'
Morrow	5667'	-2925'	-2933'	+8'
"B" SS	NP		-2967'	
Mississippi Chester	5740'	-2998'	-3011'	+13'
Ste. Genevieve	6013'	-3271'	-3267'	-4'
St. Louis	6178'	-3436'	-3435'	-1'
TD	6399'	-3657'		

*Hush No. 1-16, 1320' FNL & 1637' FEL, sec. 16 – app. 2000' to the SW, KB Elev. 2743'.

Cement Report

Customer	O'Brien Energy	Lease No.		Date	10-29-15
Lease	Hush	Well #	2-9	Service Receipt	06633
Casing	8 5/8" 24# 1500'	County	Meade	State	KS
Job Type	242-85/8 Surface	Formation		Legal Description	9-33-30

Pipe Data		Perforating Data		Cement Data	
Casing size	8 5/8" 24#	Tubing Size		Lead 350 sk	
Depth	1500'	Depth	From To	ALen	
Volume	93 bbl	Volume	From To	Tail in 100 sk	
Max Press	1000#	Max Press	From To	Premium Plus	
Well Connection	TD-1500'	Annulus Vol.	From To		
Plug Depth	ST-481	Packer Depth	From To		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
9:00					on loc-site assessment
					spot trucks rig up
10:00					start csg & float equip
12:00					csg on bit break circ
12:15					safety meeting - JSA
12:45					pressure test 01500#
1:00	100		184	5	mix & pump 350 sk ALen @ 11.4#
1:40	150		36	5	switch tail 150 sk Premium Plus @ 14.8# - 1.84 ft
1:55	100		0	5	drop plug - disp csg
2:10	500		80	2	slow rate
2:15	1000		92	0	land plug - float held circ cured to surface
					job complete

Service Units	78940	3819-19570	14355-19078	19831-14284
Driver Names	A Quera	J Martinez	R Esqueda	M Cuarez

R Pearson
Customer Representative

J Davis
Station Manager

A Quera
Cementer



Cement Report

Customer	O'Brien Energy	Lease No.		Date	10-3-15
Lease	Hush	Well #	2-9	Service Receipt	06635
Casing	4 1/2" 10.5#	Depth	6383	County	Meade
Job Type	242-4 1/2" Production	State	KS	Legal Description	9-33-30

Pipe Data		Perforating Data		Cement Data
Casing size	4 1/2" 10.5#	Tubing Size		Lead
Depth	6383'	Depth	From To	
Volume	Disp- 101 bbl	Volume	From To	
Max Press	2500#	Max Press	From To	Tail in 175 sk
Well Connection		Annulus Vol.	From To	AA2
Plug Depth	ST-42'	Packer Depth	From To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:30					on loc-side assessment
10:00					spot + trees - rly up
3:30					start csg + float equip
3:30					csg on obtm, break circ
4:00					safety meeting - ISA
4:10	200		5	4	pressure test @ 2000#
4:15	200		12	4	pump 5 bbl H2O spacer
4:20	200		5	4	pump 12 bbl mud flush
4:30			13	3	pump 5 bbl H2O spacer
4:45	200		47	5	plug rat + mouse hole w/ 50 sk 60/40 fo2 @ 13.5#
5:05					mix + pump 175 sk AA2 @ 14.5#
5:10	100		0	6	wash pumping lines
5:25	700		90	2	drop plug, disp csg
6:30	1300		101	0	slow rate land plug, float held

Service Units	78940	93419-19842	70897-37724		
Driver Names	A Dueran	E Madora	M Bozquez		

R Pearson
Customer Representative
T Davis
Station Manager
A Dueran
Cementer
Taylor Printing, Inc.