

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

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)</i> <i>(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	SINGLEY WEST 6-29
Doc ID	1350670

Tops

Name	Top	Datum
Heebner	4446	-1826
Toronto	4486	-1866
Lansing	4616	-1996
Marmaton	5226	-2606
Cherokee	5396	-2776
Atoka	5680	-3060
Morrow	5734	-3114
Mississippi Chester	5866	-3246
Ste Genevieve	6146	-3526
St. Louis	6238	-3618

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	SINGLEY WEST 6-29
Doc ID	1350670

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	5836-5846 RBP @ 5825	acidize w/2500 gal 7% HCl	perfs
		frac w/35,000# sand & 680 bbls gelled wtr	
2	5792-5812	acidize w/3000 gal 7% HCl	perfs



BASIC
ENERGY SERVICES

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

PRESSURE PUMPING Job Log

Customer:	Obrien Energy	Cement Pump No.:	38119-19570	Operator TRK No.:	78939
Address:	18 Congress St. Suite 207	Ticket #:	1718-14230 L	Bulk TRK No.:	70897-19578
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z41 Cement Production Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Singley West 6-29	Well Location:	29,33,29	County:	Meade State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On	
AA-2	180	YES	70897-19578	Front Back
H FOR R&M	50			Front Back
				Front Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.51	6.64	271.8	Man Hours:	11
Tail:	15.6	1.18	5.22	59	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
14:00							ON LOC, SAFTEY MTG, R. U.
22:54	5	10				340	PUMP MUD FLUSH
11:04 PM	6					400	START MIXING AA-2 @ 14.8#
11:15 PM		48.5					SHUT DOWN, DROP PLUG, WASHUP
11:19 PM	6					180	START DISPLACEMENT
23:40	2	89				350	SLOW RATE
23:45		100				400-1500	PLUG DOWN
11:47 PM						1500-200	RELEASE PSI, FLOAT NOT HOLDING
23:49						200-1000	PSI UP, SURGE BACK, STILL FLOWING BACK
23:51						200-1000	PSI UP SHUT IN WELL
							RELEASE PSI
0:01							PLUG R & M
0:25							WASHUP P & L
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	7 7/8	Depth	6325		TYPE	
Size & WL Csg.	4 1/2 10.5	Depth	6322	New / Used	Packer	Depth
lbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	12/17/2016



BASIC
ENERGY SERVICES

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

PRESSURE PUMPING

Job Log

Customer:	Obrien Energy	Cement Pump No.:	38119-19570	Operator TRK No.:	78939
Address:	18 Congress St. Suite 207	Ticket #:	1718-14229 L	Bulk TRK No.:	33021-14284 14355-37724
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z41 Cement Surface Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Singley West 6-29	Well Location:	29,33,29	County:	Meade State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON	325	YES	33021-14284	Front	Back
PREMIUM PLUS	150	YES	14355-37724	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/FV/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	11.4	2.95	18.1	958.75	Man Hours:	5
Tail:	14.8	1.34	6.33	201	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
19:30							ON LOC, SAFTEY MTG, R.U.
22:45						2000	TEST LINES
10:47 PM	5	171				170	START MIXING A-CON @11.4#
11:26 PM	6	36				130	ON TAIL @ 14.8#
11:37 PM							SHUT DOWN, DROP PLUG
23:40	5					90	START DISPLACEMENT, WASHUP
23:59	2.4	70				330	SLOW RATE
12:08 AM		91				450-1080	PLUG DOWN
0:10						1080-0	RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

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

Customer Signature: <i>Chad Hinz</i>	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	12/10/2016

O'Brien Energy Resources, Inc.
Singley West No. 6-29, Singley West Field
Section 29, T33S, R29W
Meade County, Kansas
December, 2016

Well Summary

The O'Brien Energy Resources, Singley West No. 6-29 was drilled to a total depth of 6325' in the Mississippian St. Louis Formation without any problems and in 106.5 rotating hours.

The closest offset was the Singley West No. 4-29 approximately 1200' to the East/Northeast. The Heebner came in 8' low relative to this offset. The Toronto and Lansing came in 23' and 16' low. A fault was most likely crossed in the lower Lansing as the Marmaton came in 25' high. The Cherokee, Atoka and Morrow ran 21', 32' and 25' high respectfully. The Chester came in 22' high and the Ste. Genevieve, 1' low. The St. Louis, 7' high.

Relative to the Singley West No. 1-29, approximately 1750' to the Northeast, the Heebner, Toronto and Lansing ran 19', 29' and 30' low respectively. Structure was again gained in the lower Lansing as the Marmaton came in 11' high. The Marmaton, Cherokee and Atoka ran 11', 9' and 12' high respectively. The Morrow and Mississippian Chester came in 11' and 13' high. The Ste. Genevieve came in 17' low.

Numerous Morrow Sandstones with shows and gas increases were documented. The most notable occurred from 5793' to 5802' and consists of a Sandstone in 30% of the samples: Light brown, speckled green, salt and pepper, friable, fine upper to fine lower well sorted subround grains, siliceous cement, calcareous, glauconitic, excellent intergranular porosity, occasional vuggy porosity, bright light yellow to orange hydrocarbon fluorescence in most of the sandstone, excellent fast streaming cut, light brown bleeding live oil and gas bubbles, oil odor, excellent show, show somewhat dissipated when dried. 80 Units of gas mud gas were recorded. The Sandstone interval extends to 5814' but with a less notable show.

200 Units of gas was documented from a lower Morrow interval from 5835' to 5846'. An abundance of Sandstone was noted throughout the entire Morrow interval. Initial interpretation was thought to have been an upper upper Sandstone previously drilled. All Morrow sandstone, with the exception of the above mention oil show interval, consists predominately of a Sandstone in up to 40% of the samples: Light brown, speckled green, hard to friable, fine well sorted subround grains, siliceous cement, slightly calcareous, glauconitic, excellent intergranular and occasional vuggy porosity, very light mottled pale blue hydrocarbon fluorescence in most of the sandstone, slow weak bleeding to faint streaming cut, no stain, show dissipates when dried.

A gas kick of 250 Units may have come from the upper Morrow Sandstone from 5737' to 5745'.

An additional sandstone interval occurred from 5778' to 5782'.

Additional shows occurred in the Upper Chester(5878' to 5883') along with an 80 Unit increase and some minor shows in the St. Louis.

4 ½" production casing was run to TD on the Singley West No. 6-29 on 6/17/26.

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, Denver

Well: Singley West No. 4-29

Field: Singley West

Location: 1692' FSL & 1398' FWL, Section 29, T33S, R29W, Meade County, Kansas – 15 miles SE of Meade.

Elevation: Ground Level 2608', Kelly Bushing 2620'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, double stand, Toolpusher
Emidgio Rojas, Drillers: Victor Martinez, Alejandro V., Fernando Jurado,

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 12/9/16

Total Depth: 12/16/16, Driller 6325', Logger 6319', Mississippi St. Louis

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1463'. 4 1/2" production casing to TD.

Mud Program: Mud-Co/Service Mud Inc., Engineer Justin Whiting, Type: Chemical Gel/LCM, displaced 2600'.

Wellsite Consultant: Peter Debenham, Call depth 4000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' 4000'-4700', 20' to TD. One set dry cut sent to KGS Log Library.

Electric Logs: Weatherford, engineer Ned Al Sudani, 1) Array Induction, 2) Neutron/Density, 3) Microlog , Hi-Res.

Status: 4 1/2 " production casing to TD on 12/17/16.

WELL CHRONOLOGY

<u>6 AM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	12/9			Move to location and rig up rotary tools.
	12/10	1475'	1475'	Rig up. Pump water and mix spud mud. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 1475' and circulate. Drop survey(1 1/4 deg.) and trip out and run and cement 8 5/8" surface casing.
	12/11	2155'	680'	Cement surface casing set at - did circulate. Break down landing joint and nipple up BOP. Trip in and pressure test BOP to 300 PSI /15 minutes. Drill plug and cement and 7 7/8" hole to 1560' and trip for Bit No. 3. To 2155'.
	12/12	3870'	1715'	Surveys(1/2 – 1 1/4 deg.). Clean pits and displace mud system at 2600'.
	12/13	5010'	1140'	Surveys(1 1/4 deg). To 5010' and circulate and wiper trip.
	12/14	5520'	510'	Wiper trip and drill.
	12/15	6165'	645'	
	12/16	6325'TD	160'	Circulate and short trip and circulate. Unload 4 1/2" production casing. Very cold and snow. Trip out for logs.
	12/17	TD		Run ELogs. Trip in and circulate. Trip out laying down and run and cement 4 1/2" 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		S516D	12 1/4"	1475'	1475'	5
2		HA 28-Q	7 7/8"	1560'	85'	1 3/4
3		PLT616	7 7/8"	6325'	4765'	99 3/4
Total Rotating Hours:						106.5
Average:						59.4 Ft/hr

DEVIATION RECORD – degrees

1475' 1 1/4, 2603' 1, 3130' 1/2, 3555' 1 1/4, 4607' 1 1/4

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>
12/10	641'	10.4	60	15	18	7.0	nc	100	5
12/11	1475'	8.4	27	1	2	7.0	nc	600	0
12/12	2827'	8.7	35	4	6	8.0	nc	6.1K	2
12/13	4459'	9.1	48	16	17	11.0	8.4	2.4K	.5
12/14	5199'	9.3	64	18	21	10.0	6.8	2.4K	3.5
12/15	5725'	9.2	55	17	18	9.5	8.4	2K	3
12/16	6261'	8.9	55	17	18	10.0	6.8	2K	2.5

ELECTRIC LOG FORMATION TOPS- KB Elev. 2609'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Singley West No. 4-29</u>	
			<u>DATUM</u>	<u>POSITION</u>
Heebner	4446'	-1826'	-1818'	-8'
Toronto	4486'	-1866'	-1843'	-23'
Lansing	4616'	-1996'	-1980'	-16'
Marmaton	5226'	-2606'	-2631'	+25'
Cherokee	5396'	-2776'	-2797'	+21'
Atoka	5680'	-3060'	-3083'	+32'
Morrow	5734'	-3114'	-3139'	+25'
Mississippi Chester	5866'	-3246'	-3268'	+22'
Ste Genevieve	6146'	-3526'	-3527'	-1'
St. Louis	6238'	-3618'	-3625'	+7'
TD	6325'	-3705'		

*O'Brien Energy Corp., Singley West No. 4-29, 1980'FSL & 2300'FWL, Sec. 29 – approximately 1200' to the E/NE. KB Elev. 2609'.

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Singley West No. 1-29</u>	
			<u>DATUM</u>	<u>POSITION</u>
Heebner	4446'	-1826'	-1807'	-19'
Toronto	4486'	-1866'	-1837'	-29'
Lansing	4616'	-1996'	-1966'	-30'
Marmaton	5226'	-2606'	-2617'	+11'
Cherokee	5396'	-2776'	-2785'	+9'
Atoka	5680'	-3060'	-3072'	+12'
Morrow	5734'	-3114'	-3125'	+11'
Mississippi Chester	5866'	-3246'	-3259'	+13'
Ste Genevieve	6146'	-3526'	-3509'	-17'
St. Louis	6238'	-3618'	NDE	
TD	6325'	-3705'		

*O'Brien Energy Corp., Singley West No. 1-29, 1980'FNL & 2310'FWL, Sec. 29 – approximately 1750' to the NE. Elev. 2633'.

