

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 Recompletion Date _____ 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	CLAYTON 6-28
Doc ID	1378795

Tops

Name	Top	Datum
Heebner	4422	-1815
Toronto	4448	-1841
Lansing	4575	-1968
Marmaton	4255	-1648
Cherokee	5446	-2839
Atoka	5640	-3033
Morrow	5773	-3166
Mississippi Chester	5861	-3254
Ste. Genevieve	6174	-3567
St. Louis	6290	-3683



BE 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.:	38117, 19919 Hrs.	Operator TRK No.:	78938
Address:	18 Congress St. Suite 207	Ticket #:		Bulk TRK No.:	33021, 14284 Willie 30463, 37547 Santiago
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Surface Casing		
Service District:	1718 - Liberal, Ks.	Well Type:	OIL		
Well Name and No.:	Clayton 6-28	Well Location:	28,33,29	County:	Meade State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Con' Blend	385	3% Calcium Chloride, 1/4# Polyflake, .2%WCA1	33021, 14284 Willie	Front	Back
Premium Plus Cement	150	2% Calcium Chloride, 1/4# Polyflake	30463, 37547 Santiago	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	1135.75	TT Man Hours:	52
Tail:	14.8	1.34	6.33	201	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
13:30							ON LOCATION & SAFETY MEETING
18:30							RIG UP
7:25 PM							RIG TO CIRCULATE
7:50 PM							RIG TO P.T.
19:55							PRESSURE TEST TO 2200PSI
19:58	6	202.2 slurry				170	PUMP LEAD @ 11.4#
8:30 PM	6.1	35.7 slurry				200	PUMP TAIL @ 14.8#
20:38							SHUTDOWN / DROP PLUG
20:40	5.3	10				40	DISPLACE
	6	20				110	
	6	30				110	37BBLs IN CEMENT RETURNS
	6	40				150	
	6	50				210	
	6	60				280	
	6	70				350	
	5.9	80				410	
21:01	6	86				450	SLOW RATE TO 2.0BPM @ 380PSI
	2	90				410	
21:09	2	96.3				440	LAND PLUG / PRESSURE UP TO 1040PSI
21:12							RELEASE BACK — FLOAT HELD
							JOB COMPLETE

Size Hole	12 1/4"	Depth		TYPE	Plug Container	
Size & Wt. Csg.	8 5/8" 24#	Depth	1557.74'	Packer	Depth	
Shoe Jt.	42.25'	Depth		Retainer	Depth	
Landing Press.	313.3psi	Type		Perfs	CIBP	

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>Daniel Beck</i>
	Date of Service:	7/25/2017



DANIEL
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 3Hrs.	Operator TRK No.:	78938
Address:	18 Congress St. Suite 207	Ticket #:	1718 14502 L	Bulk TRK No.:	30463, 37547 Angel
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Production Casing		
Service District:	1718 - Liberal, Ks.	Well Type:	OIL		
Well Name and No.:	Clayton 6-29	Well Location:		County:	Meade
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA2	280	5% W-60, 10% Salt, .6% C-15, 1/4# Defoamer, 5# Gilsonite	30463, 37547 Angel	Front	Back
AA2 (Rat & Mouse)	50	5% W-60, 10% Salt, .6% C-15, 1/4# Defoamer, 5# Gilsonite	30463, 37547	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Tail:	14.8	1.51	6.64	422.8	TT Man Hours:	37.5
Rat & Mouse:	14.8	1.51	6.64	75.5	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
12:00							ON LOCATION
12:05							SAFETY MEETING
4:55 PM							RIG TO CIRC.
6:02 PM							RIG TO P.T.
6:06 PM							PRESSURE TEST TO 3200PSI
18:08	5.4	11.9				130	PUMP 500 GALLONS MUD FLUSH
18:15		13.4 slurry					PLUG RAT & MOUSE W/ 50SX
6:50 PM	7	75.3 slurry				350	PUMP TAIL @ 14.8# 280SX
18:43							SHUTDOWN / DROP PLUG / W.P.
18:26	7.1	10				180	DISPLACE W/ 3%KCL FLUSH
	7.2	20				180	
	7.2	30				180	
	8.8	40				240	
	9	50				250	
	7.8	60				400	
	7.1	70				490	
	6	80				640	
	4.6	90				850	
19:05	4.4	91				860	SLOW RATE TO 3.4BPM @ 820PSI
	2.8	100				1030	
19:08	2.7	101.8				1060	LAND PLUG / PRESSURE UP TO 1610PSI
19:10							RELEASE BACK — FLOAT HELD
							JOB COMPLETE

Size Hole	7 7/8"	Depth	6450'		TYPE	Plug Container	
Size & Wt. Csg.	4 1/2" 10.5#	Depth	6450.36'	New / Used	Packer	Depth	
Landing Press.	819.4psi	Depth			Retainer	Depth	
Top Plugs		Type			Perfs	CIBP	

Customer Signature: *[Signature]* 10-4-17

Basic Representative: Daniel Beck

Basic Signature: *[Signature]*

Date of Service: 10/4/2017

O'Brien Energy Resources, Inc.

Clayton No. 6

Section 28, T33S, R29W

Meade County, Kansas

September, 2017

Well Summary

The Clayton No. 6 was drilled to a total depth of 6450' in the Mississippian St. Louis. It offset the Clayton No. 2-28 by approximately 1200' to the Northwest. Formation tops ran 11' to 23' high from the Heebner to the Marmaton relative to this offset. The Cherokee, Atoka and Morrow ran 6', 3' and 1' high respectively. The primary objective Chester Rickers Ranch Sandstone did occur and came in 1' high. This 4' Sandstone(5998'-5992') consists of a Sandstone in 6% of the sample: Medium to dark brown with matrix oil stain, friable, fine lower to fine upper, well sorted subround grains, siliceous cement, slightly calcareous, good to excellent intergranular porosity, dull goldbrown hydrocarbon fluorescence(all sandstone), excellent fast streaming cut, medium brown matrix oil stain, traces live oil, oil odor. A 220 Unit gas kick was recorded, and with calcareous Siltstone with hydrocarbon fluorescence and cut.

The Upper Morrow contained sketchy shows from 5806' to 5828', Sandstone(10% spl): Medium to dark speckled green, salt and pepper, mottled gray to brown, hard to friable in part, very fine well sorted subround grains, siliceous cement, calcareous, very glauconitic, argillaceous to marly, poor visible porosity, mottled pale blueyellow hydrocarbon fluorescence, fair streaming cut, trace light mottled oil stain, weak show. 60 to 80 Unit gas increase was documented.

4 1/2" production casing was run on the Clayton No. 6 on 10/4/17 to production test the Rickers Ranch Sandstone.

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 and Dave Ward

Well: Clayton No. 6, Singley Field

API No.: 15-119-21412

Location: 1450'FSL & 1450'FWL, SW SW NE SW, Section 28, 33S, R29W, Meade Co., KS – South of Meade.

Elevation: Ground Level 2594', Kelly Bushing 2607'

Contractor: Duke Drilling Rig No. 7, Type: Double jackknife, triple stand, Toolpusher Galen Roach, Drillers: Todd Elsen, Scott Edwards, Steven Green

Company Man: Keith Clumsky, Liberal, KS

Spud Date: 9/23/17

Total Depth: 10/1/2017, Driller 6450', Logger 6452', St. Louis Fm.

Casing Program: 37 joints of 8 5/8", J55, 24Lbs/ft, set at 1572' with 385 sacks A-conblend(3%cc, ¼ lb Poly Flake), tail with 150 sacks Premium Plus(2%cc & ¼ lb PF) – did circulate. 4 ½" production casing to TD.

Mud Program: Sevice Mud engineer Justin Whiting

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

Samples: 30' to 4700', 20' to TD. Dry sample cut sent to KGS Sample Log Library – Wichita, kS.

Electric Logs: Weatherford, engineer Nicholas Rupert, 1)Array Induction, 2) Density/Neurton, 3) Microlog – High Res. repeat section.

Status: 4 1/2 " production casing to TD on 10/4/2017.

WELL CHRONOLOGY

<u>10 PM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	9/23	45'	45'	Move to location and rig up rotary tools. Cut 80' drilling line. Mix spud mud and rig up. Spud in 12 ¼" surface hole(10 pm).
	9/24	1180'	1135'	Surveys(1/2 – 1 deg.). Repair rotary chain and drill to 1180'.
	9/25	1575'	395'	To 1445' and pump flag and check valve in pump and trip for Bit No. 2. To 1575' and circulate and trip out and lay down 8" drill collars. Rig up and run 37 joints of 8 5/8", J55, 24Lbs/ft, set at 1572' with 385 sacks A-conblend(3%cc, ¼ lb Poly Flake), tail with 150 sacks Premium Plus(2%cc & ¼ lb PF) – did circulate. Wait on cement.
	9/26	1985'	410'	Wait on cement. Trip in and pressure test BOP. Drill plug and cement and 7 7/8" hole to 1985'.
	9/27	3145'	1160'	Surveys(1/2 – 1 deg.) and service rig. Clean pump screens.
	9/28	4180'	1035'	Surveys(3/4 deg.). Drilling ahead.
	9/29	5115'	935'	Survey(1 deg.) Circulate for samples at 5013' and wiper trip to casing and circulate. To 5115'.
	9/30	6225'	1110'	Work on mud pump, rod oilers.
	10/1	6450'TD	225'	To 6450'TD and circulate. Wiper trip(tight) and circulate on bottom. Trip for logs, stuck pipe at 5363'. Spot 40 bbls of oil at 11:45 pm and wait on oil. Wait on spotted oil and work pipe. Still stuck. Rig up jarring or slam hammer joint and jar pipe.
	10/3	TD		Jar loose and trip out tight. Mix and condition mud and circulate. Trip out and run ELogs. Logging tool stuck logging up at 3735'. Wait on fishing tools and fish out tool.
	10/4/17			Fish out tool and 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 HOURS</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	
1	Varel	RR RT	12 ¼"	1545'	1545'	28
2	Varel	J-2	12 ¼"	1575'	30'	¾
3	Varel	RR	7 7/8"	1904'	329'	4 ¾
4	HTC	DP 506	7 7/8"	6450'	4546'	74 1/4
Total Rotating Hours:						107
3/4						
Average:						59.8
ft/hr						

DEVIATION RECORD - degree

300' ½, 600' ½, 900' 1, 1500' 1, 2000' 1, 2500' 1, 3000' ½, 3500' ¾, 4000' ¾, 4500' 1, 5000' ¾,

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-</u>
<u>LBS/BBL</u>									
9/24	618'	10.1	43	8	10	7.5	nc	400	5
9/25	1473'	9.9	34	7	9	7.5	nc	750	6
9/26	1575'	Water							
9/27	2448'	9.6	31	2	3	7.0	nc	60.8K	0
9/28	3622'	9.0	53	14	18	11.6	9.5	4.8K	3
9/29	4730'	9.3	48	14	15	9.2	9.5	2.4K	2
9/30	5618'	9.6	55	17	17	7.6	9.5	3.6K	3
10/1	6450'	9.4	51	16	17	8.0	10.5	2.2K	4
10/2	6450'	8.9	68	16	22	9.5	10.0	7.7K	2
10/2	6450'	8.9	64	16	21	9.0	8.8	7.2K	4

ELECTRIC LOG FORMATION TOPS- KB Elev. 2607'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Clayton No. 2-28 DATUM</u>	<u>POSITION</u>
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Surface casing	1571'			
Heebner	4422'	-1815'	-1838'	+23'
Toronto	4448'	-1841'	-1863'	+22'
Lansing	4575'	-1968'	-1985'	+17'
Marmaton	4255'	-1648'	-2656'	+11'
Cherokee	5446'	-2839'	-2842'	+6'
Atoka	5640'	-3033'	-3033'	+3'
Morrow	5773'	-3166'	-3164'	+1'
Mississippi Chester	5861'	-3254'	-3271'	-7'
Richers Ranch SS	5998'	-3391'	-3392'	+1'
Ste. Genevieve	6174'	-3567'	-3575'	+8'
St. Louis	6290'	-3683'	-3668'	-16'
TD	6452			

*O'Brien Energy, Clayton No. 2-28, 335'FNL & 2281'FWL, Section 28, 33S, 29W, K.B.
Elevation 2603', app. 1200' to the SE.