



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1155930  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

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       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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1155930

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

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				

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 <i>(Amount and Kind of Material Used)</i>	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
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Clayton 2-28
Doc ID	1155930

Tops

Name	Top	Datum
Heebner	4441'	-1838
Toronto	4466'	-1863
Lansing	4588'	-1985
Marmaton	5259'	-2656
Cherokee	5445'	-2842
Atoka	5636'	-3033
Morrow	5767'	-3164
Mississippi Chester	5850'	-3247
Ste. Genevieve	6232'	-3629
St. Louis	6302'	-3699

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 21, 2013

Joseph Forma  
O'Brien Energy Resources Corp.  
18 CONGRESS ST, STE 207  
PORTSMOUTH, NH 03801-4091

Re: ACO1  
API 15-119-21346-00-00  
Clayton 2-28  
SW/4 Sec.28-33S-29W  
Meade County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,

Joseph Forma  
Vice President  
O'Brien Energy Resources Corp.

**O'Brien Energy Resources, Inc.**

**Clayton No. 2-28**

**Section 28, T33S, R29W**

Meade County, Kansas

July, 2013

**Well Summary**

The Clayton no. 2-28 was drilled to a total depth of 6400' in the St. Louis Formation without any problems. The closest offsets was the Clayton No. 1-33, to the Southeast. Formation tops ran high relative to this well. The Heebner, Toronto and Lansing ran 13', 20' and 26' high respectively. The Cherokee, Atoka and Morrow came in 18' to 21' high and the Chester 24' high. The Ste Genevieve and St. Louis ran 38' and 34' high.

A primary objective Chester Sandstone(5992'-5999') contained an excellent show and came in 23' high relative to the Clayton No. 1-33. It consists of a Sandstone in 12% of the samples – Medium to dark brown with oil staining, friable to firm, fine well sorted subround grains, occasionally fine to medium and moderately sorted, calcite cement, clean, good intergranular and occasional vuggy porosity, dull gold brown hydrocarbon fluorescence in all the Sandstone, excellent streaming to explosive cut, abundant live oil and oil stain. A 400 Unit gas kick was documented.

Additional minor shows occurred in the Atoka, Morrow and Chester.

4 ½" production casing was run on the Clayton No. 2-28 on 7/25/13.

Appreciation to Duke Rig 6 hands. They do good work.

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. 2-28, Mohler Field

API No.: 15-119-21346

Location: 335' FSL & 2281' FWL, Section 28, T33S, R29W, Meade County,  
Kansas – South of Meade.

Elevation: Ground Level 2591', Kelly Bushing 2603'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher  
Jose Gonzalez, Drillers: Danny White, Saul Garcia, Darryl LaRoche

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 7/18/13

Total Depth: 7/24/2013, Driller 6400', Logger 6395', St. Louis Fm.

Casing Program: 34 joints of 8 5/8", J55, 24Lbs/ft, set at 1451'. 4 1/2" production casing to  
TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, mud up 2600'.

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

Samples: 30' to 4700', 20' to 5700', 10' to TD.

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

Status: 4 1/2" production casing to TD on 7/25/2013.

## WELL CHRONOLOGY

<u>10 PM</u> <u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
7/17			Run casing on the Meyer No. 1-21. Nipple down and rig down.
7/18	195'	195'	Clean pits and rig down – rig released 2am. Move to and rig up rotary tools. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 195'.
7/19	1451'	1256'	Survey(1/4 deg.). Safety meeting and pick up drill collars. Service rig and drill Glorietta SS to 1451' and circulate. Drop survey(3/4 deg.) and trip for surface casing and run 8 5/8" casing.
7/20	2500'	1050'	Run and cement 34 joints of 8 5/8" surface casing set at 1451' – plug down 1:15 am – did circulate. Wait on cement and back off landing joint. Nipple up BOP and trip in and test blind and pipe rams to 500 psi. Drill plug and cement and 8 5/8" hole to 2500'. Surveys(3/4 deg.) and service.
7/21	4180'	1680'	Displace hole at 2600'. Service rig and survey(1/2 deg.).
7/22	5120'	940'	Function test BOP. To 4994' and and circulate and wiper trip 27 stands. To 5120'.
7/23	5840'	720'	
7/24	6400' TD	560'	To 6400' TD and circulate and condition mud. Short trip 41 stands and circulate. Drop survey(3/4 deg.) and trip out for Elogs and run same. Trip to bottom and circulate. Trip out laying down and run 4 1/2" production casing.
7/25	TD		Run and cement 4 1/2" 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	RR	J2 1PGC	12 ¼"	1451'	1451'	16
2	Milelle	Mi616	7 7/8"	6400'	4949'	94 ¾
					Total Rotating Hours:	110 ¾
					Average:	57.8
					ft/hr	

**DEVIATION RECORD - degree**

495' ¼, 1019' ¼, 1451' ¾, 2262' ¾, 4013' ½, 4713' ½, TD ¾

**MUD PROPERTIES**

<u>DATE</u>	<u>DEPTH</u> <u>LCM-LBS/BBL</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>WL</u>	<u>pH</u>	<u>CL</u>
7/18	0'	Make up water						
7/19	972'	9.5	34	3	4	n/c	7.0	900 3
7/21	3492'	9.4	37	8	11	n/c	8.0	16.7K 1
7/22	4915'	9.4	43	13	13	14.0	9.5	7.9K 2
7/23	5514'	9.3	47	14	15	10.4	10.0	4.8K 2
7/24	6255'	9.3	60	20	20	8.4	9.5	3.4K 2

**ELECTRIC LOG FORMATION TOPS- KB Elev. 2603'**

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Clayton No. 1-33</u> <u>DATUM</u>	<u>POSITION</u>
Surface casing	1450'			
Heebner	4441'	-1838'	-1851'	+13'
Toronto	4466'	-1863'	-1883'	+20'
Lansing	4588'	-1985'	-2011'	+26'
Marmaton	5259'	-2656'	-2669'	+13'
Cherokee	5445'	-2842'	-2683'	+21'
Atoka	5636'	-3033'	-3053'	+20'
Morrow	5767'	-3164'	-3182'	+18'
Morrow "C" SS	5832'	-3229'		
Mississippi Chester	5850'	-3247'	-3271'	+24'



Chester SS	5990'	-3387'	-3410'	+23'
Ste. Genevieve	6232'	-3629'	-3667'	+38'
St. Louis	6302'	-3699'	-3733'	+34'
TD	6400'	-3797'		

\*O'Brien Energy, Clayton No. 1-33, 900'FNL & 1650'FEL, Section 33, 33S, 29W, K.B.  
Elevation 2575', to the SE.

### Cement Report

Customer <i>O'Brien Energy</i>		Lease No.		Date <i>7-19-13</i>				
Lease <i>Clayton</i>		Well # <i>2-28</i>		Service Receipt <i>4179</i>				
Casing <i>8 5/8</i>	Depth <i>1442</i>	County <i>Maize</i>		State <i>KS</i>				
Job Type <i>2 1/2" SURFACE</i>		Formation		Legal Description <i>28-33-29</i>				
Pipe Data			Perforating Data			Cement Data		
Casing size <i>8 5/8 24#</i>			Tubing Size			Lead <i>400 sk A-Con</i>		
Depth <i>1451</i>			Depth <i>55.42</i>			From		
Volume <i>89.615</i>			Volume			To		
Max Press <i>1800</i>			Max Press			From		
Well Connection <i>8 5/8</i>			Annulus Vol.			To		
Plug Depth <i>1409</i>			Packer Depth			From		
						To		
						Lead <i>2.95 ft 3 sk</i>		
						From		
						To		
						Lead <i>18.16 sk 11.4#</i>		
						From		
						To		
						Tail in <i>150 sk Class C</i>		
						From		
						To		
						Lead <i>1.34 ft 3 sk</i>		
						From		
						To		
						Lead <i>6.36 sk 14.8#</i>		
						From		
						To		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log			
<i>1930</i>					<i>Arrive On Location</i>			
<i>1935</i>					<i>Safety Meeting - Rig Up</i>			
<i>1930</i>					<i>Rig Running Comm</i>			
<i>2300</i>					<i>Circulate w/ rig</i>			
<i>2320</i>					<i>Hook Up To BLS</i>			
<i>2325</i>		<i>1900</i>	<i>1.0</i>	<i>1.0</i>	<i>Pressure Test</i>			
<i>2330</i>	<i>300</i>		<i>210</i>	<i>5.3</i>	<i>Pump Lead cmt @ 11.4#</i>			
<i>1230</i>	<i>200</i>		<i>36</i>	<i>4.5</i>	<i>Pump Tail cmt @ 14.8#</i>			
<i>1245</i>					<i>Prep Plug - Wash Up</i>			
<i>1250</i>	<i>400</i>		<i>79</i>	<i>5.0</i>	<i>Displace</i>			
<i>110</i>	<i>600</i>		<i>20</i>	<i>2.0</i>	<i>Slow Down</i>			
<i>115</i>	<i>1100</i>		<i>1</i>	<i>1</i>	<i>Level Plug - Float Held</i>			
<i>215</i>					<i>Cement To Surface</i>			
					<i>Job Complete</i>			
					<i>Thanks For Using Basic Energy Services</i>			
Service Units		<i>78938</i>	<i>70897-19570</i>	<i>30463-37547</i>	<i>14334-19578</i>			
Driver Names		<i>J. Chavez</i>	<i>Sam</i>	<i>Victor</i>	<i>Cesar</i>			

*Roger*  
 Customer Representative

*Ben Bentz*  
 Station Manager

*Jerry Chavez*  
 Cementer



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
Liberal, Kansas

### Cement Report

Customer <u>O'Brien Energy</u>		Lease No.		Date <u>7-26-13</u>	
Lease <u>Clayton</u>		Well # <u>2-28</u>		Service Receipt	
Casing	Depth	County	State		
		<u>Meade</u>	<u>KS</u>		
Job Type		Formation	Legal Description <u>28 33 29</u>		
<b>Pipe Data</b>			<b>Perforating Data</b>		<b>Cement Data</b>
Casing size <u>4 1/2</u>	Tubing Size	Shots/Ft		Lead <u>270 SKS @ 14.8 PPG</u>	
Depth <u>6376'</u>	Depth	From	To	51. W-60/10r. Salt, br. C-15	
Volume <u>100 bbl</u>	Volume	From	To	<u>14# Deframer, 5# Gilsomite</u>	
Max Press	Max Press	From	To	<u>AA2 Cement</u>	
Well Connection	Annulus Vol.	From	To	Tail in	
Plug Depth <u>6334'</u>	Packer Depth	From	To		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>2100</u>					<u>On Location Rig up</u>
<u>0230</u>					<u>Safety Meeting</u>
<u>0300</u>	<u>2500</u>				<u>Pressure Test</u>
<u>0302</u>	<u>200</u>		<u>5</u>	<u>5</u>	<u>Pump Spacer - Water</u>
<u>0307</u>	<u>200</u>		<u>10</u>	<u>5</u>	<u>pump super flush</u>
					<u>Pump 220 SKS @ 14.8 PPG</u>
					<u>Drop Plug Wash up</u>
<u>0310</u>	<u>200</u>		<u>5</u>	<u>5</u>	<u>Pump Spacer - Water</u>
<u>0314</u>	<u>200</u>		<u>59</u>	<u>6</u>	<u>Pump 220 SKS @ 14.8 PPG</u>
<u>0324</u>					<u>Drop Plug - Wash up</u>
<u>0328</u>	<u>0</u>			<u>6</u>	<u>Start Displacement</u>
<u>0337</u>	<u>250</u>		<u>67</u>	<u>6</u>	<u>Catch cement</u>
<u>0343</u>	<u>350</u>		<u>75</u>	<u>2</u>	<u>Slow Rate</u>
<u>0350</u>	<u>1250</u>		<u>100</u>	<u>2</u>	<u>Plug landed - float held</u>
<u>0354</u>	<u>0</u>				<u>Release Pressure</u>
<u>0430</u>					<u>Plug RH &amp; MH</u>
Service Units	<u>78940</u>	<u>3875019842</u>	<u>1982719883</u>		
Driver Names	<u>Ruben</u>	<u>Tommy</u>	<u>Daniel</u>		

Roger Pearson  
Customer Representative

Jerry Bennett  
Station Manager

Ruben H. ...  
Cementer