



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1192362

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:

<input type="checkbox"/> New Well	<input type="checkbox"/> Re-Entry	<input type="checkbox"/> Workover	
<input type="checkbox"/> Oil	<input type="checkbox"/> WSW	<input type="checkbox"/> SWD	<input type="checkbox"/> SIOW
<input type="checkbox"/> Gas	<input type="checkbox"/> D&A	<input type="checkbox"/> ENHR	<input type="checkbox"/> SIGW
<input type="checkbox"/> OG	<input type="checkbox"/> GSW	<input type="checkbox"/> Temp. Abd.	
<input type="checkbox"/> CM <i>(Coal Bed Methane)</i>			
<input type="checkbox"/> Cathodic <input type="checkbox"/> Other <i>(Core, Expl., etc.):</i> _____			

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

<input type="checkbox"/> Deepening	<input type="checkbox"/> Re-perf.	<input type="checkbox"/> Conv. to ENHR	<input type="checkbox"/> Conv. to SWD
<input type="checkbox"/> Plug Back	<input type="checkbox"/> Conv. to GSW	<input type="checkbox"/> Conv. to Producer	
<input type="checkbox"/> Commingled	Permit #: _____		
<input type="checkbox"/> Dual Completion	Permit #: _____		
<input type="checkbox"/> SWD	Permit #: _____		
<input type="checkbox"/> ENHR	Permit #: _____		
<input type="checkbox"/> 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: _____

1192362

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Hush 1-16
Doc ID	1192362

Tops

Name	Top	Datum
Heebner	4400'	-1661'
Toronto	4418'	-1675'
Lansing	4490'	-1757'
Marmaton	5164'	-2421'
Cherokee	5338'	-2595'
Atoka	5630'	-2887'
Morrow	5690'	-2947'
Mississippi Chester	5772'	-3029'
Ste. Genevieve	6010'	-3267'
St. Louis	6186'	-5443'

Cement Report

Customer <i>O'Brien Energy</i>		Lease No.		Date <i>1-1-14</i>	
Lease <i>Hush</i>		Well # <i>1-10</i>		Service Receipt <i>4721</i>	
Casing <i>8 5/8</i>	Depth <i>1492</i>	County		State <i>K5</i>	
Job Type <i>242 Surface</i>		Formation		Legal Description <i>10-33-30</i>	
Pipe Data			Perforating Data		Cement Data
Casing size <i>8 5/8</i>	Tubing Size		Shots/Ft		Lead <i>400 slt A Con</i>
Depth <i>1492</i>	Depth <i>35 4/2</i>		From	To	<i>2.95 ft 3-5K</i>
Volume <i>92615</i>	Volume		From	To	<i>18,160 slt 11.4#</i>
Max Press <i>1500</i>	Max Press		From	To	Tail in <i>150 slt Class C</i>
Well Connection <i>8 5/8</i>	Annulus Vol.		From	To	<i>1.34 ft 2-5K</i>
Plug Depth <i>1450</i>	Packer Depth		From	To	<i>6.3360 slt 14.8#</i>
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>745</i>					<i>Arrive On Location</i>
<i>800</i>					<i>Safety Meeting - Rig Up</i>
<i>820</i>					<i>Circulate w/ Rig</i>
<i>850</i>					<i>Heave in To BES</i>
<i>900</i>	<i>1800</i>		<i>1.0</i>	<i>1.0</i>	<i>Pressure Test</i>
<i>910</i>	<i>300</i>		<i>210</i>	<i>5.5</i>	<i>Pump Lead cont @ 11.4#</i>
<i>940</i>	<i>200</i>		<i>36</i>	<i>5.0</i>	<i>Pump Tail cont @ 14.8#</i>
<i>955</i>					<i>Prep Plug - Wash Up</i>
<i>1000</i>	<i>300</i>		<i>82</i>	<i>5.0</i>	<i>Displace</i>
<i>1025</i>	<i>600</i>		<i>10</i>	<i>2.0</i>	<i>Slow Down</i>
<i>1030</i>	<i>1100</i>		<i>1</i>	<i>1</i>	<i>Hard Plug - Float Held</i>
<i>1130</i>					<i>Job Complete</i>
					<i>Cement To Surface</i>
Service Units	<i>78958</i>	<i>70897-19570</i>	<i>38111-37547</i>	<i>58117-19578</i>	
Driver Names	<i>F227</i>	<i>Sam</i>	<i>Mario</i>	<i>Cesar</i>	

Roger P

Sam Bent

F227

Customer Representative

Station Manager

Cementer

Customer	Brien Energy		Lease No.			Date	1/8/14		
Lease	Hush		Well #	1-16		Service Receipt			
Casing	4 1/2	Depth	6336		County	Meade		State	KS
Job Type	L.S.		Formation			Legal Description			

Pipe Data		Perforating Data		Cement Data
Casing size	4 1/2 10.5	Tubing Size		
Depth	6336	Depth	From	To
Volume	100	Volume	From	To
Max Press	2500	Max Press	From	To
Well Connection	P.I.C.	Annulus Vol.	From	To
Plug Depth		Packer Depth	From	To

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
06:30					on loc, spot & R.O., surface only
12:26	3000				Test Lines
12:30	4000		12	5	mod flush
12:33	400		5	5	H2O spacer
12:35					Plug Retm
12:45	240		0	4	start mixing @ 14.8#
12:56	0		47	0	Finished mixing, Drop Plug, Washup
13:01	260		0	7	Start Disp w/CC-1
13:14	580		90	3	Slow Rate
13:17	760-1380		100	0	Plug Down
13:20	0				Release Psi, float held
					Job Complete

Service Units	74939	3722337726	3046319566		
Driver Names	Chinz	C. Marcellus	G. Fehavaria		

Roger Pearson
Customer Representative
Jerry Bennett
Station Manager
Chad Hraz
Cementer

O'Brien Energy Resources, Inc.
Hush No. 1-16, Bruno Prospect
Section 16, T33S, R30W

Meade County, Kansas

January, 2014

Well Summary

The O'Brien Energy Resources, Corporation, Hush No. 1-16 was drilled to a total depth of 6360' in the Mississippian St. Louis Formation without any problems. It offset the Columbian Fuel Corp., Armentrout by approximately 1700' to the North. The Cherokee and Atoka ran 5' low relative to this offset. The Morrow came in 2' high and the Morrow "B" Sandstone, 10' high. The Morrow ran 27' low relative to the Butler No. 1-9 to the North.

An excellent hydrocarbon show was documented in the Morrow "B" Sandstone(5710'-5724') – Salt and pepper, light to medium brown, clear and translucent, very friable, fine upper to very coarse lower and conglomeritic in size, very poorly sorted subangular to angular grains, calcareous cement, clean to occasional clay infill, excellent intergranular porosity, bright light yellow to occasional pale blue hydrocarbon fluorescence in all the sand, good streaming cut, medium brown oil stain and live oil, with abundant very coarse and poorly sorted unconsolidated grains with light yellow hydrocarbon fluorescence and slow streaming cut on the individual grains. A 25 Unit gas increase occurred.

4 1/2" production casing was run on the Hush No. 1-16 on 1/8/14

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. 1-16, Bruno Prospect

Location: 1320' FNL & 1637' FEL, Section 16, T33S, R30W, Meade County,
Kansas – Southeast of Plains.

Elevation: Ground Level 2731', Kelly Bushing 2743'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher
Terry Sorter, Drillers: Saul Garcia, Richard TaFaya, Darryl LaRoche

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 12/31/13

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 1500'.

Mud Program: Mud Co./Service Mud Inc., Engineer Terry Ison, displaced 2644' with
Chemical Gel/LCM.

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

Samples: 20' 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 set to TD on 1/8/14.

WELL CHRONOLOGY

<u>6 AM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	12/26-12/28/13			Rig down and service rig. Work on mud pump.
	12/30			Move and rig up rotary tools. Saul injured his finger. Rig up and mix spud mud.
	12/31	1143'	1143'	Service and change out swivel. Drill rathole and mousehole. Repack swivel. Spud in 12 1/4" surface hole to 1143.
	1/1/14	1530'	388'	To 1500' and circulate and condition mud. Drop survey(1 deg.) and trip for surface casing. Run and cement 35 joints of 8 5/8" casing set at 1500' – did circulate. Wait on cement. Nipple up and pressure test BOP. Trip in and drill plug and cement and 7 7/8" to 1530'.
	1/2	2535'	1005'	To 1798' and trip for Bit No. 3. Service mud lines and weld pump. To 2535'. Surveys(1 deg.).
	1/3	2735'	1200'	To 2644' and displace mud system. Service rig and survey(1/2 deg.).
	1/4	4870'	1135'	Service and survey(3/4 deg.).
	1/5	5490'	835'	Service and survey(1 deg.).
	1/6	6360'TD	35'	To 6360' and circulate and condition mud. Wiper trip and circulate and trip out for logs.
	1/7	TD		Trip for logs and run Elogs. Trip in open ended.
	1/8	TD		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	J2	GA1PGC	12 ¼"	1500'	1500'	23
2	RR		7 7/8"	1798'	298'	8
3	HTC	DP506	7 7/8"	6360'	4562'	102
1/2						
				Total Rotating Hours:		117 ½
				Average:		54.12
				Ft/hr		

DEVIATION RECORD - degree

491' ¼, 254' ¼, 1299' ½, 1500' 1, 2518' 1, 3520' ¾, 4023' ¾, 4493' 1, 5560' 1, 6360' 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>pH</u>	<u>WL</u>	<u>CL</u>
12/31	643'	9.6	54	14	14	7.0	nc	225 3
1/2	1799'	8.8	28	1	2	7.0	nc	38.3 0
1/3	2887'	8.8	42	10	12	7.0	nc	51K 2
1/4	4563'	9.4	17	17	9.5	9.5	8.0	3.6K 3
1/5	5245'	9.4	63	16	20	10.5	6.4	3.5K 2
1/6	6046'	9.6	46	14	10	9.0	8.8	3.5K 1

ELECTRIC LOG FORMATION TOPS- KB Elev. 2679'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Armentrout No. 1</u>	
			<u>DATUM</u>	<u>POSITION</u>
Surface Casing	1495'			
Heebner	4400'	-1661'	-1659'	-2'
Toronto	4418'	-1675'	-1680'	+5'
Lansing	4490'	-1757'	-1759'	+2'
Marmaton	5164'	-2421'	-2413'	-8'
Cherokee	5338'	-2595'	-2590'	-5'
Atoka	5630'	-2887'	-2882'	-5'
Morrow	5690'	-2947'	-2949'	+2'
"B" SS	5710'	-2967'	-2977'	+10'
Mississippi Chester	5772'	-3029'		
Ste. Genevieve	6010'	-3267'		
St. Louis	6186'	-5443'		
TD	6360'			

*Columbian Fuel Corp., Armentrout No. 1, approximately 1700' to the South, KB Elevation 2745'.

