



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1078908
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: _____

1078908

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 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				

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> <input type="checkbox"/> Other <i>(Specify)</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	Crooked Creek Offset 4-8
Doc ID	1078908

Tops

Name	Top	Datum
Heebner	4442	-1786
Toronto	4466	-1810
Lansing	4586	-1930
Marmaton	5248	-2592
Cherokee	5422	-2766
Atoka	5681	-3025
Morrow	5738	-3082
Morrow SS	5754	-3098
Mississippi Chester	5878	-3222
Ste. Genevieve	6110	-3454
St. Louis	6190	-3534

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 19, 2012

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

Re: ACO1
API 15-119-21309-00-00
Crooked Creek Offset 4-8
SE/4 Sec.08-33S-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,

Joe Forma
Vice President



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>O'Brien Energy</i>			Lease No.		Date <i>2-10-12</i>
Lease <i>Cranked (Frost) 20</i>			Well # <i>4.8</i>		Service Receipt
Casing <i>8" 21"</i>	Depth <i>1501'</i>		County <i>Monte</i>		State <i>KS</i>
Job Type <i>742-Surface</i>		Formation <i>11212</i>	Legal Description <i>8-33-29</i>		
Pipe Data			Perforating Data		Cement Data
Casing size <i>8 5/8" 21#</i>	Tubing Size		Shots/Ft		Lead <i>400 sk</i>
Depth <i>1501'</i>	Depth		From	To	<i>A. Con</i>
Volume <i>110-93 bbl</i>	Volume		From	To	
Max Press <i>2500#</i>	Max Press		From	To	Tail in <i>150 sk</i>
Well Connection <i>1D=1501'</i>	Annulus Vol.		From	To	<i>Premium Plus</i>
Plug Depth <i>ST-41' (1460)</i>	Packer Depth		From	To	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>4:30</i>					<i>on loc.-site assessment (start csg)</i>
<i>4:35</i>					<i>spot trucks - rig up</i>
<i>7:30</i>					<i>csg on bit break circ</i>
<i>7:50</i>					<i>safety meeting / TSA</i>
<i>1:48</i>					<i>pressure test @ 3000#</i>
<i>7:50</i>	<i>300</i>		<i>210</i>	<i>5</i>	<i>mix + pump 400 sk A-Con w/ 3% calcium chloride, 1/4# onlyflake, 2% wca-1 @ 11400 - 2.95 gals/k - 18.10 gals/k</i>
<i>8:30</i>	<i>200</i>		<i>36</i>	<i>5</i>	<i>switch to 150 sk Premium Plus w/ 2% calcium chloride, 1/4# onlyflake @ 114800 - 1.31143/k - 6.33 gals/k</i>
<i>8:45</i>	<i>0</i>		<i>0</i>	<i>5</i>	<i>drop plug, drop csg</i>
<i>8:50</i>	<i>600</i>		<i>73</i>	<i>2</i>	<i>slow rate 2 hours</i>
<i>8:55</i>	<i>500</i>		<i>83</i>	<i>6</i>	<i>slow rate 1 hour</i>
<i>9:00</i>	<i>1100</i>		<i>93</i>	<i>0</i>	<i>land plug, float held</i>
					<i>circ cut to surface</i>
					<i>job complete</i>
Service Units <i>311726 2501110010 304163-3772 19858-19883</i>					
Driver Names <i>A Rivera R Mathis S Chavez K. Baker</i>					

R. Pearson
Customer Representative

J. Bennett
Station Manager

A. Rivera
Cementer



BASIC™
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>Cherokee Energy</i>			Lease No.		Date <i>2/7/12</i>
Lease <i>Cherokee Energy</i>			Well # <i>4-8</i>		Service Receipt <i>7595</i>
Casing <i>4 1/2 10.5</i>	Depth <i>6313</i>		County <i>Alfalfa</i>		State <i>115</i>
Job Type <i>247 10.5</i>		Formation		Legal Description <i>8 37 39</i>	
Pipe Data			Perforating Data		Cement Data
Casing size <i>4 1/2 10.5</i>		Tubing Size		Shots/Ft	
Depth <i>6315</i>		Depth		From	To
Volume <i>10045</i>		Volume		From	To
Max Press <i>1800</i>		Max Press		From	To
Well Connection <i>4 1/2</i>		Annulus Vol.		From	To
Plug Depth <i>6793</i>		Packer Depth		From	To
Tail in <i>17058 112</i>					
Lead <i>5000 6010</i>					
				<i>11957 54 102</i>	
				<i>73761 54 1750</i>	
				<i>15157 54 out</i>	
				<i>66460 54 149#</i>	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log <i>Yard 100 AM</i>
<i>730</i>					<i>Arrive On location</i>
<i>745</i>					<i>Settle Water - 100</i>
<i>730</i>					<i>As Pump in casing</i>
<i>1110</i>					<i>Exhibit #1105</i>
<i>510</i>					<i>Hold up to 305</i>
<i>5:5</i>	<i>1800</i>		<i>10</i>	<i>10</i>	<i>Pressure Test</i>
<i>5:20</i>	<i>420</i>		<i>5</i>	<i>40</i>	<i>Run Water Sweep</i>
<i>5:25</i>	<i>400</i>		<i>17</i>	<i>40</i>	<i>Run Mud Wash</i>
<i>5:30</i>	<i>375</i>		<i>#5</i>	<i>40</i>	<i>Run Water Sweep</i>
<i>5:35</i>	<i>350</i>		<i>46</i>	<i>5.5</i>	<i>Run out @ 11:8 #</i>
<i>5:50</i>					<i>Run Plug Wash 00</i>
<i>5:55</i>	<i>400</i>		<i>90</i>	<i>6.5</i>	<i>Displacement</i>
<i>6:10</i>	<i>1000</i>		<i>10</i>	<i>20</i>	<i>Stand down Pressure</i>
<i>6:15</i>	<i>1500</i>		<i>1</i>	<i>1</i>	<i>Load Plug - Plug Wash</i>
					<i>Job Complete</i>
					<i>Pls Print Mass 16#</i>
					<i>7:40 PM #, 1000 Energy 3000 #</i>
Service Units <i>19820</i>		<i>27062</i>		<i>10012 10883</i>	
Driver Names <i>F. Moore</i>		<i>Shane</i>		<i>Scott</i>	

Rever P
Customer Representative

Sam Booth
Station Manager

Samuel Moore
Cementer

O'Brien Energy Resources, Inc.
Crooked Creek Offset No. 4-8, Angell South Field
Section 8, T33S, R29W
Meade County, Kansas
February, 2012

Well Summary

The O'Brien Energy Resources, Crooked Creek Offset No. 4-8 was drilled to a total depth of 6323' in the Mississippian St. Louis Formation. It offset the Crooked Creek No. 2-8 by 1940' to the North. Formation tops ran slightly high relative to this offset. The Marmaton, Cherokee and Atoka ran even and 2' and 3' high respectively. The Morrow came in 5' high and the Morrow "B" Sandstone, 6' high. The Chester, Ste. Genevieve and St. Louis ran 4', 5' and 8' high respectively.

The "B" Sandstone(5766'-5798') consists of a Sandstone in 20% of the samples: Speckled green, light gray, occasionally clear to translucent, hard to friable, very fine well sorted subround grains, siliceous cement, calcareous, very glauconitic in part, pale blue to yellow hydrocarbon fluorescence, slow streaming cut, trace light brown oil stain. A 240 Unit gas kick was noted.

An oil show occurred in the Lower "B" Sandstone(5778'-5798) with an associated 130 to 240 Unit gas kick: Light brown, friable, very fine upper to fine lower well sorted grains, siliceous cement, calcareous, clean, slightly glauconitic, good intergranular and fine vuggy porosity, bright light yellow hydrocarbon fluorescence in 30% of the sample, light brown matrix oil stain and trace light live oil(few pieces), fair streaming cut, gas bubbles and good oil odor when crushed.

A "D" Sandstone (5824'-5833') contained a 90 to 60 Unit gas increase and consists of a Sandstone in less than 5% of the samples: Light to medium mottled gray to brown, light brown to buff, friable, very fine well sorted grains, siliceous and calcareous, slightly glauconitic, carbonaceous inclusions, fair intergranular and vuggy porosity, mottled pale blue hydrocarbon fluorescence, slow streaming cut, no visible stain.

4 1/2" production casing was run on the Crooked Creek Offset No. 4-8 for the above mentioned show intervals.

Respectfully Submitted,

Peter Debenham

WELL DATA

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

Prospect Geologist: David Ward, Ed Schuett, Denver

Well: Crooked Creek No. 4-8, Angell South Field

Location: 2271' FSL & 526' FEL, Section 8, T33S, R29W, Meade County, Kansas – Southeast of Plains.

Elevation: Ground Level 2644', Kelly Bushing 2656'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Terry Sorter, Danny White, Saul Garcia

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 2/9/12

Total Depth: 2/16/12, Driller 6323', Logger 6323', St. Louis Formation

Casing Program: 40 joints of 8 5/8", J-2, 24Lbs/ft, set at 1501'.

Mud Program: Winter Mud, engineer K.L. Rice, displaced 2800', Chem. gel/LCM.

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

Samples: 30' to 5800', 20' to TD and 10' through zones of interest.

Electric Logs: Weatherford, engineer Andy Giambalvo , Array Induction, Compensated Neutron/Density, Microlog, Hi Res.

Status: 4 1/2" production casing run 2/17/2012.

WELL CHRONOLOGY

<u>6 AM</u> <u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
2/8			Move to and rig up rotary tools and tarps.
2/9	1100'	1100'	Mix spud mud and blow down mouse hole and rat hole. Wait on mud truck. Spud in 12 1/4" to 1100'. Survey(1/4 deg.).
2/10	1501'	401'	To 1233' and lost circulation(300 bbls). Mix mud and 30 Lbs/bbl LCM mud pill and pump same. Trip out and fill hole. Ream to bottom and pump LCM pill and drill with returns to 1501' with 24 Lbs/bbl LCM mud. Circulate and trip out and rig up casing crew and run and cement 40 joints of 8 5/8" set at 1501' – did circulate. Wait on cement.
2/11	1945'	444'	Wait on cement. Back off casing and nipple up and pressure test BOP. Trip in and drill plug and cement and new 7 7/8" hole to 1726' and trip for Bit No. 3.
2/12	3275'	1330'	Surveys(3/4 deg.) and rig service. Clean suction and displace mud system at 2800'.
2/13	4610'	1335'	
2/14	5555'	945'	To 5010' and circulate and run wiper trip and circulate. To 5555'.
2/15	6290'	735'	Repair drum chain and drill.
2/16	6323'TD	33'	To TD and circulate and condition mud. Short trip 42 stands and circulate and condition mud. Drop survey(1 deg.) and trip for logs and run e-logs. Trip to bottom and circulate.
2/17	TD		Trip out laying down. Run and cement 4 1/2" production casing to TD. Rig down.

LOST CIRCULATION

1233' 300+ bbls

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	STC	MXCL	12 1/4"	1501'	1501'	25 1/4
2	HTC	F27I RR	7 7/8"	1726'	225'	4 1/2
3	HTC	Q506F	7 7/8"	6323'	4597'	98 1/4
Total Rotating Hours:						128
Average:						49.4 Ft/hr

DEVIATION RECORD - degree

508' ¼, 2008' ¾, 2572' ¾, 6323' 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>
2/8/12		8.3							
2/9	750'	9.8	35						2
2/10	1470'	9.1	32						15
2/11	1501'	Water							
2/12	2700'	8.6	62	15	20	9.0	30.0	10K	4
2/13	4020'	9.0	41	11	10	10.0	24.0	8K	6
2/14	5165'	9.0	58	20	20	10.5	8.0	3K	8
2/15	6010'	9.0	58	20	20	10.5	8.0	3K	8

ELECTRIC LOG FORMATION TOPS- KB Elev. 2656'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Crooked Creek No. 2-8 DATUM</u>	<u>POSITION</u>
Casing	1501'			
Heebner	4442'	-1786'	-1785'	+1'
Toronto	4466'	-1810'	-1810'	0'
Lansing	4586'	-1930'	-1935'	0'
Marmaton	5248'	-2592'	-2592'	0'
Cherokee	5422'	-2766'	-2768'	+2'
Atoka	5681'	-3025'	-3028'	+3'
Morrow	5738'	-3082'	-3087'	+5'
"A" SS	5754'	-3098'		
"B" SS	5766'	-3110'	-3116'	+6'
"C" SS	5805'	-3149'		
"D" SS	5824'	-3168'		
Mississippi Chester	5878'	-3222'	-3226'	+4'
Ste. Genevieve	6110'	-3454'	-3459'	+5'
St. Louis	6190'	-3534'	-3542'	+8'
TD	6323'			

*O'Brien Energy Resources, Crooked Creek No. 2-8, 330'FSL & 660'FEL, Sec. 8 – app. 1941' to the South, K.B. Elev. 2680'.