



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217144
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: _____

1217144

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> <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	Larrabee 4-4
Doc ID	1217144

Tops

Name	Top	Datum
Heebner	4430'	-1889'
Toronto	4455'	-1914'
Lansing	4592'	-2051'
Marmaton	5216'	-2675'
Cherokee	5422'	-2881'
Atoka	5613'	-3072'
Morrow	5742'	-3201'
Mississippi Chester	5855'	-3314'
Ste. Genevieve	6178'	-3637'
St. Louis	6266'	-3725'

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Larrabee 4-4
Doc ID	1217144

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	6104-6124 CIBP @ 6080'	acidize w/ 12000 gal 15% HCl & 500 bbl 3% kcl wtr	perfs
2	5978-5982 RBP @ 5875'	acidize w/ 600 gals RE AXE & 3% Hcl & 500 gal 7% kcl	perfs
2	5798-5810	squeezed 5770-5810 w/ 50 sks cmt	perfs
2	5787-5790	squeezed 5770-5810 w/ 50 sks cmt	perfs
2	5770-5776	acidize w/ 2000 gals NEFE 7 1/2% HCl	perfs
		squeezed 5770-5810 w/ 50 sks cmt	



Cement Report

Customer <i>O'Brien</i>	Lease No.	Date <i>5-20-14</i>
Lease <i>Lab 2622</i>	Well # <i>4-24</i>	Service Receipt
Casing <i>8 5/8</i>	Depth <i>1497</i>	County <i>Meade</i>
Job Type <i>292 Surface</i>	Formation	Legal Description <i>41-34-29</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>8 5/8</i>	Tubing Size	Shots/Ft		Lead <i>400sk A-Cen</i>
Depth <i>1494</i>	Depth <i>5 5/8 42</i>	From	To	<i>2.95FF-512</i>
Volume <i>93613</i>	Volume	From	To	<i>18162-512 11.4#</i>
Max Press <i>1800</i>	Max Press	From	To	Tail in <i>1505k Class C</i>
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To	<i>1:34FF-512</i>
Plug Depth <i>1452</i>	Packer Depth	From	To	<i>6.3761-512 12.8#</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1300</i>					<i>Arrive On Location</i>
<i>1300</i>					<i>Safety Meeting - Rig Up</i>
<i>1200</i>					<i>Rig Pump Crew</i>
<i>1430</i>					<i>Circulate "Mud"</i>
<i>1450</i>					<i>Hookup TO BE5</i>
<i>1455</i>	<i>2000</i>		<i>1</i>	<i>1</i>	<i>Pressure Test</i>
<i>1500</i>	<i>450</i>		<i>210</i>	<i>5</i>	<i>Pump Lead out @ 11.4#</i>
<i>1530</i>	<i>300</i>		<i>36</i>	<i>5</i>	<i>Pump Tail out @ 14.8#</i>
<i>1615</i>					<i>Prep Plug - Wash up</i>
<i>1620</i>	<i>300</i>		<i>82</i>	<i>5</i>	<i>Displace</i>
<i>1640</i>	<i>700</i>		<i>10</i>	<i>2</i>	<i>Slow Pump</i>
<i>1645</i>	<i>1200</i>		<i>1</i>	<i>1</i>	<i>Lead Plug Float Held</i>
<i>1750</i>					<i>Job Complete</i>
					<i>Cement TO Surface</i>

Service Units	<i>78938</i>	<i>70991-19170</i>	<i>14355-37725</i>	<i>53021-14284</i>
Driver Names	<i>Erin</i>	<i>Sam</i>	<i>Daniel</i>	<i>Israel</i>

Roser Customer Representative
 Ben Beth Station Manager
 Erin Cementer



BASICSM
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <u>O'Brien Energy</u>		Lease No.		Date <u>7/9/14</u>	
Lease <u>Larabee</u>		Well # <u>4-4</u>		Service Receipt <u>171705910A</u>	
Casing <u>4 1/2 10.5#</u>	Depth <u>5875</u>	County <u>Meade</u>		State <u>KS</u>	
Job Type <u>Squeeze</u>		Formation		Legal Description <u>Sec 4 / TWP 34 / Range 29</u>	
Pipe Data			Perforating Data		Cement Data
Casing size <u>4 1/2" 10.5#</u>	Tubing Size <u>2 3/8</u>	Shots/Ft		Lead <u>50 SK Premium @ 16.4 Cornov</u>	
Depth <u>5705-5770</u>	Depth <u>5705</u>	From <u>5770</u>	To <u>5810</u>	Tail in	
Volume <u>103 BBL</u>	Volume <u>22.07</u>	From	To	<u>106 1/2 SK 4.35 gal/sk</u>	
Max Press <u>2500 psi</u>	Max Press <u>2500 psi</u>	From	To		
Well Connection <u>Swage</u>	Annulus Vol. <u>59.905</u>	From	To		
Plug Depth	Packer Depth <u>5705</u>	From	To		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>12:15</u>					<u>On location / Safety Mtg / Rig up</u>
<u>13:00</u>	<u>510 psi</u>		<u>41 BBL</u>	<u>2.58</u>	<u>Load Backside</u>
<u>13:14</u>					<u>Pressure test 2600 psi</u>
<u>13:20</u>					<u>Get Injection Rate (No pressure)</u>
<u>13:35</u>	<u>0</u>		<u>10 BBL</u>	<u>3 BPM</u>	<u>Start Cementing</u>
<u>13:40</u>					<u>Washup</u>
<u>13:48</u>					<u>Start Disp.</u>
<u>13:56</u>	<u>1100</u>		<u>15.5 gone</u>		<u>Caught Pressure</u>
<u>14:00</u>	<u>2000</u>		<u>16 gone</u>		<u>Shot down</u>
<u>14:05</u>	<u>2200</u>				<u>Bump pressure up / Lock down</u>
<u>14:10</u>	<u>960</u>			<u>1.5</u>	<u>Release packer / Start Rev. Out</u>
<u>14:20</u>	<u>1000</u>		<u>10 gone</u>	<u>1.45</u>	
<u>14:24</u>			<u>15 gone</u>		<u>Flagged Cement</u>
<u>14:24</u>			<u>22 gone</u>		<u>Flagged Water</u>
					<u>Shut down</u>
					<u>Job Complete</u>
Service Units	<u>789.39</u>	<u>37223/37276</u>	<u>14354/19578</u>		
Driver Names	<u>Chris Hartz</u>	<u>Tommy Marcellus</u>	<u>Roger Brown</u>		

Roger Pearson
Customer Representative

Serry Beaufort
Station Manager

Tommy Marcellus
Cementer

O'Brien Energy Resources, Inc.

Larrabee No. 4-4

Section 4, T34S, R29W

Meade County, Kansas

May, 2014

Well Summary

The O'Brien Energy Resources, Corporation, Larrabee No. 4-4 was drilled to a total depth of 6415' in the Mississippian St. Louis. One of the closest offsets is the Larrabee No. 1-4 – approximately 1200' to the NW. The Heebner and Toronto came in 6' low relative to this offset. The Lansing ran 1' low. Thinning occurred as the Marmaton, Cherokee, Atoka and Morrow ran 10', 11', 13' and 19' high respectively. The Chester and Ste. Genevieve came in 22' low and 15' low.

Excellent hydrocarbon shows were documented in several Morrow Sandstones(5770'-5790') and consists of Sandstone in 30% of the samples – Speckled green, white to light brown, buff, friable, fine upper to very fine lower, well sorted subround grains, calcite cement, clean to slightly argillaceous, very glauconitic, carbonaceous inclusions, pyritic in part, good intergranular and occasional vuggy porosity, dull goldbrown to pale yellow hydrocarbon fluorescence in most the sandstone with a weak to excellent streaming cut, occasional good brown matrix oil staining and speckled black solid oil residue, traces of live oil and gas bubbles when crushed and with an interbedded Shale: Black, firm, fissile, carbonaceous, and with traces of a Sandstone as above and with no show documented. A 220 Unit gas increase was documented from the upper Sand and 160 Units from the lower.

A lower Morrow Sandstone(5798'-5812') consists of a sandstone in 40% of the samples – Medium to light brown, salt and pepper, speckled green with glauconite, firm to friable. very fine well sorted subround to round grains, calcareous cement, good to excellent visible intergranular porosity, dull to bright gold hydrocarbon fluorescence and brown matrix oil stain with live oil and gas bubbles when crushed, black speckled gilsonite inclusions. 140 to 160 Units of gas were recorded.

An excellent show was noted in the Rickers Ranch sand equivalent - Sandstone(5977'-5982'), Medium to dark brown, gray, graygreen, hard to friable, very fine upper, well sorted subround grains, calcite cement, good intergranular porosity, medium orange to pale blue hydrocarbon fluorescence(15% spl), excellent streaming cut, dark brown oil stain and trace live black oil and gas bubbles. A 320 Unit gas kick occurred on the hotwire.

Additional shows occurred in the lower Basal Chester(6103-6150') and with associated 640 to 340 Unit gas increases: Limestone-Mottled brown to redbrown, dark speckled brown, graygreen, mottled brown with oil staining, microsucrosic to sucrosic, brittle, argillaceous to marly in part, sandy, very fine isolated vugs and oomoldic porosity and with abundant live oil, stain and excellent cut, dull goldbrown hydrocarbon fluorescence.

Additional shows were documented in the Marmaton(5320'-5344') attached mudlog and in several Chester Limestones.

4 ½" production casing was set to TD on 5/26/14.

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: Larrabee No. 4-4, Mohler Field

Location: 1220' FNL & 335' FEL, Section 4, T34S, R29W, Meade County, Kansas
– South of Meade.

Elevation: Ground Level 2530', Kelly Bushing 2541'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, T.P. Allen
Cain, Drillers Richard TaFaya, Saul Garcia, Darryl LaRoche,

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 5/19/14

Total Depth: 5/26/14, Driller 6415', Logger 6408', St. Louis

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1479'. 4 1/2" production casing to
TD.

Mud Program: Winter Mud, engineer Nate Agee, Type WBM, displaced 2614'.

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

Samples: 30' to 4700', 20' to 6000' and 10' to TD. Dry sample cut sent to KGS
Sample log library, Wichita.

Electric Logs: Weatherford, engineer Derek Carter, 1)High Resolution Repeat, 2) Photo
Density/Neutron, 3) Array Induction, 4) Microlog

Status: 4 1/2 " production casing to TD on 5/27/14.

Average: 47.5
Ft/hr

DEVIATION RECORD – deg.

522' ¼, 1206' ¼, 1494' 2, 1707' 1 ¼, 2614' 1, 4274' 1, 4997' 1, 5591' 1, TD 1

MUD PROPERTIES

<u>DATE</u> <u>LBS/BBL</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>
5/19	120'	9.3	46	15	10	nc	7.0	1500	12
5/20	1401'	9.7	30	5	7	nc	7.0	29K	6
5/21	1745'	8.7	30	4	2	nc	7.0	29K	0
5/22	3117'	8.9	54	20	11	11.2	10.0	3.7K	4
5/23	4274'	9.2	48	15	10	12.0	11.0	3.2K	6
5/24	5005'	9.4	40	15	5	6.0	10.0	3.0K	4
5/25	5961'	9.3	57	22	16	8.4	11.0	6.0K	6
5/26	6414'	9.4	60	30	22	8.0	9.0	2.0K	14

ELECTRIC LOG FORMATION TOPS- KB Elev. 2550'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Larrabee No. 1-4</u>	
			<u>DATUM</u>	<u>POSITION</u>
Casing	1492'			
Heebner	4430'	-1889'	-1882'	-7'
Toronto	4455'	-1914'	-1908'	-7'
Lansing	4592'	-2051'	-2050'	-1
Marmaton	5216'	-2675'	-2682'	+10'
Cherokee	5422'	-2881'	-2892'	+11'
Atoka	5613'	-3072'	-3085'	+13'
Morrow	5742'	-3201'	-3220'	+13'
Mississippi Chester	5855'	-3314'	-3219'	-22'
Ste. Genevieve	6178'	-3637'	-3622'	-15'
St. Louis	6266'	-3725'		
TD	6415			

*O'Brien Energy, Larrabee No. 1-4, 330'FNL & 1320'FEL, Sec. 4 – Approximately 1200' the SE, K.B. Elevation 2550'.