



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1097469  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1097469

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	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

<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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Vail Offset 4-30
Doc ID	1097469

Tops

Name	Top	Datum
Heebner	4493'	-1809'
Toronto	4525'	-1841'
Lansing	4664'	-1980'
Marmaton	5294'	-2610'
Cherokee	5445'	-2761'
Atoka	5736'	-3052'
Morrow	5794'	-3110'
Chester	5930'	-3246'
Ste. Genevieve	6171'	-3487'
St. Louis	6268'	-3584'

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

October 15, 2012

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

Re: ACO1  
API 15-119-21322-00-00  
Vail Offset 4-30  
SE/4 Sec.30-33S-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.**  
**Vail No. Offset No. 4-30, Singley Field**  
**Section 30, T33S, R29W**  
**Meade County, Kansas**  
**August, 2012**

**Well Summary**

The O'Brien Energy Resources, Corporation, Vale Offset No.4-30 was drilled to a total depth of 6354' in the Mississippian St. Louis Formation without any problems. It ran structurally low relative to the Vale No. 1-30, approximately 2400' to the Southwest. The Toronto, Lansing and Marmaton came in 16', 19' and 13' low respectively. The Cherokee, Atoka and Morrow ran 10', 15', and 17' low. The Chester 23' low and the St. Louis, 7' low.

An excellent hydrocarbon show occurred in a Middle Morrow Sandstone from 5870' to 5878', Sandstone in 10% of the sample: Light brown, very friable, fine lower, well sorted subround grains, siliceous cement, slightly calcareous, slightly glauconitic, clean, good intergranular porosity, bright light yellow hydrocarbon fluorescence(all sandstone) excellent streaming cut, light brown matrix oil stain, gas bubbles and very light oil sheen when crushed and associated with a 130 Unit gas kick, excellent show.

Additional Morrow Sandstone shows occurred from 5858' to 5862' and 5916' to 5920' and with similar lithology type but less porosity and with a 110 Unit gas increase from the upper sand and 65 Units from the lower one.

Hydrocarbon shows with gas increases were documented in the Upper Chester and Upper Ste. Genevieve(attached mudlog).

4 ½" production casing was run on the Vail Offset No. 4-30 on 8/17/12 for the above mentioned Morrow shows and with the probability that the Middle Morrow Sandstone is oil bearing.

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: Vail Offset No. 4-30

Location: 2305' FSL & 2305' FEL, Section 30, T33S, R29W, Meade County,  
Kansas – East of Plains.

API: 15-119-21322

Elevation: Ground Level 2672', Kelly Bushing 2684'

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: 8/9/12

Total Depth: 8/16/12, Driller 5354', Logger 5358', Mississippi St. Louis

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1493'. 4 1/2" production casing to  
TD.

Mud Program: Winter Mud, engineer Adam Norris, 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 TD and 10' through zones of interest. Dry cut saved  
and sent to the KGS Sample Log Library.

Electric Logs: Weatherford, engineer Adam Sill, 1)Dual Induction 2) Compensated  
Neutron Litho Density 3) Microlog – Hi-Resolution repeat section.

Status: 4 1/2 " production casing to TD on 8/17/12.

### WELL CHRONOLOGY

<u>8 PM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	8/8			Dig cellar and ditches. Move to location and rig up rotary tools. Pump water and mix spud mud and fix stand pipe.
	8/9	850'	850'	Wait on mechanic and work on high clutch. Drill rathole and mousehole. Spud in 12 1/4" surface hole to 850'. Survey(1/2 deg.).
	8/10	1493'	643'	Surv.(1/2 deg.). To 1493' and trip for surface casing and run and cement 35 joints of 8 5/8" casing set at 1494' with 550 sacks of cement. Wait on cement.
	8/11	2445'	952'	Nipple up BOP and pressure test. Trip in and drill plug and cement and 7 7/8" hole to 2445'.
	8/12	3570'	1125'	Survey(1 deg.). Jet suction and displace hole at 2600'. Service.
	8/13	4570'	1000'	To 4570'.
	8/14	5250'	680'	Survey(1 deg.). Service rig and clean suction pit. To 5006' and circulate and run wiper trip. Drilling.
	8/15	5915'	665'	Survey(1 deg.).
	8/16	6354'TD	439'	Clean suction. To TD and circulate. Short trip 40 stands.
	8/17	TD		Short trip and circulate. Drop survey(1 deg.) and trip out for logs and run elogs. Trip to bottom and circulate. Trip out laying down and run and cement 4 1/2" production casing. Rig down.

**BIT RECORD**

<b><u>NO.</u></b>	<b><u>MAKE</u> <u>HOURS</u></b>	<b><u>TYPE</u></b>	<b><u>SIZE</u></b>	<b><u>OUT</u></b>	<b><u>FOOTAGE</u></b>	
1	STC	MXC1	12 ¼"	1493'	1493'	24 ¾
2	HTC	F27I	7 7/8"	1689'	196'	5 ¼
3	STC	MI616	7 7/8"	6354'	4665'	123
Total Rotating Hours:						153
Average:						41.53
Ft/hr						

**DEVIATION RECORD - degree**

563' ½, 1060' ½, 1493' 1 ¼, 2595' 1, 2971' 1, 4850' 1, 5666' 1, TD 1

**MUD PROPERTIES**

<b><u>DATE</u> <u>LBS/BBL</u></b>	<b><u>DEPTH</u></b>	<b><u>WT</u></b>	<b><u>VIS</u></b>	<b><u>PV</u></b>	<b><u>YP</u></b>	<b><u>pH</u></b>	<b><u>WL</u></b>	<b><u>CL</u></b>	<b><u>LCM-</u></b>
8/10	1369'	9.5	32	7	13	--	nc	4K	6
8/11	1689'	8.7	26	--	--	12.0	nc	48K	--
8/12	2659'	8.8	39	15	17	8.0	nc	9.5K	4
8/13	3911'	8.9	46	11	18	11.0	31.0	7K	5
8/14	4978'	9.0	54	17	19	11.5	11.5	4.5K	6
8/15	5539'	9.1	63	24	20	10.5	6.8	4K	6
8/16	6210'	9.0	65	24	20	12.0	7.0	3.5K	6



**ELECTRIC LOG FORMATION TOPS-** KB Elev. 2684'

<b><u>FORMATION</u></b>	<b><u>DEPTH</u></b>	<b><u>DATUM</u></b>	<b><u>*Vale No. 1-30</u></b> <b><u>DATUM</u></b>	<b><u>POSITION</u></b>
Heebner	4493'	-1809'	-1805'	-5'
Toronto	4525'	-1841'	-1805'	-16'
Lansing	4664'	-1980'	-1961'	-19'
Marmaton	5294'	-2610'	-2597'	-13'
Cherokee	5445'	-2761'	-2751'	-10'
Atoka	5736'	-3052'	-3037'	-15'
Morrow	5794'	-3110'	-3093'	-17'
Mississippi Chester	5930'	-3246'	-3223'	-23'
Ste. Genevieve	6171'	-3487'	-3485'	-2'
St. Louis	6268'	-3584'	-3577'	-7'
TD	6354'	-2670'		

\*Vale No. 1-30, 760'FSL & 1320'FWL, Sec. 30 – approximately 2400' to the SW, K.B. Elev. 2679'.



# Cement Report

Customer <i>Obrion Energy</i>		Lease No.		Date <i>8-10-12</i>		
Lease <i>Vail Offset</i>		Well # <i>4-30</i>		Service Receipt <i>03589</i>		
Casing <i>8 5/8</i>	Depth <i>1494</i>	County <i>Meade</i>		State <i>KS</i>		
Job Type <i>742</i>		Formation		Legal Description <i>30-33-29</i>		
<b>Pipe Data</b>			<b>Perforating Data</b>		<b>Cement Data</b>	
Casing size <i>8 5/8 24#</i>		Tubing Size		Shots/Ft		
Depth <i>1494</i>		Depth		From	To	
Volume <i>93515</i>		Volume		From	To	
Max Press <i>1800</i>		Max Press		From	To	
Well Connection <i>8 5/8</i>		Annulus Vol.		From	To	
Plug Depth <i>1452</i>		Packer Depth		From	To	
Lead <i>400 slt Alon</i>						
2.95 FT 3-SLK						
18.1 Gal-slk 11.4#						
Tail in 150 slt Class C						
1.34 FT 3-SLK						
6.55 Gal-slk 14.8#						
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log	
<i>1300</i>					<i>Arrive On Location</i>	
<i>1320</i>					<i>Safety Meet - Rig Up</i>	
<i>1310</i>					<i>Rig Running Casing</i>	
<i>1445</i>					<i>Circulate w/ Rig</i>	
<i>1515</i>					<i>Hook Up To BES</i>	
<i>1520</i>	<i>1500</i>		<i>1.0</i>	<i>1.0</i>	<i>Pressure Test</i>	
<i>1530</i>	<i>250</i>		<i>210</i>	<i>6.0</i>	<i>Pump Lead cement @ 11.4#</i>	
<i>1615</i>	<i>100</i>		<i>34</i>	<i>4.0</i>	<i>Pump Tail cement @ 14.8#</i>	
<i>1635</i>					<i>Drop Plug - Wash Up</i>	
<i>1640</i>	<i>200</i>		<i>83</i>	<i>5.5</i>	<i>Displace</i>	
<i>1705</i>	<i>500</i>		<i>10</i>	<i>2.0</i>	<i>Slow Down - Displace</i>	
<i>1710</i>	<i>1000</i>		<i>.1</i>	<i>.1</i>	<i>Land Plug - Float Held</i>	
					<i>Cement To Surface</i>	
					<i>Job Complete</i>	
<i>Thanks For Using Basic Energy Services</i>						
Service Units	<i>19820</i>	<i>38111-19919</i>	<i>14354-19578</i>	<i>14355-14284</i>		
Driver Names	<i>Cobbe</i>	<i>Ebbert</i>	<i>Abrina - Rene</i>	<i>Sullivan</i>		

*Roger*  
Customer Representative

*Tony Bennett*  
Station Manager

*Samuel Chavez*  
Cementer

