

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1241805
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: _____

1241805

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

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	Vail 7-31
Doc ID	1241805

Tops

Name	Top	Datum
Heebner	4487'	-1804'
Toronto	4518'	-1840
Lansing	4651'	-1973
Marmaton	5292'	-2614
Cherokee	5545'	-2773
Atoka	5734'	-3056
Morrow	5784'	-3106
Chester	5920'	-3242
Ste. Genevieve	6192'	-3514
St. Louis	6296'	-3618



Cement Report

Customer <i>Observed Energy</i>	Lease No. <i>Vail-7-31</i>	Date <i>10-30-14</i>
Lease <i>Vail</i>	Well # <i>7-31</i>	Service Receipt <i>1717-5204-A</i>
Casing <i>8 5/8"</i>	Depth <i>1488'</i>	County <i>Mende</i> State <i>KS</i>
Job Type <i>8 5/8" Surface</i>	Formation	Legal Description <i>31-33-29</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>8 5/8" Lsg</i>	Tubing Size	Shots/Ft		Lead <i>300sls</i> <i>Alcon Blend .2%</i> <i>3% CAC L² WCA-1</i> <i>1/4" Polyflake</i> Tail in <i>150sls</i> <i>Premium Plus Cement</i> <i>2% CAC L²</i> <i>1/4" Polyflake</i>
Depth <i>1488'</i>	Depth	From	To	
Volume	Volume	From	To	
Max Press	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	
Plug Depth <i>1446'</i>	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>10-29-14</i>
<i>2000</i>					<i>Called Dnt</i>
					<i>10-30-14</i>
<i>0045</i>					<i>On Location Safety Meeting</i>
<i>0820</i>					<i>Make up Iron - Circulate</i>
<i>0840</i>					<i>Test Line to Floor</i>
<i>0900</i>					<i>Pump spacer 200sls water</i>
<i>0905</i>	<i>100</i>		<i>157.6</i>	<i>8-10</i>	<i>Mix Pump Lead Cement</i>
					<i>300sls 11.4ppg</i>
<i>0920</i>	<i>100</i>		<i>35.8</i>	<i>5-6</i>	<i>Mix Pump Tail Cement</i>
					<i>150sls 14.8ppg</i>
<i>0930</i>	<i>1000</i> <i>1200</i>		<i>92</i>	<i>1-7</i>	<i>Drop Plug</i>
					<i>Displace</i>
<i>1002</i>	<i>1200</i>				<i>Anchor Plug 1200psi</i>
					<i>Released</i>
					<i>Float Held</i>
					<i>Job Completed</i>
					<i>THANKS FOR</i>
					<i>YOUR BUSINESS</i>

Service Units	<i>89315</i>	<i>70897-19520</i>	<i>30464-37724</i>	<i>33021-44284</i>
Driver Names	<i>Roger</i>	<i>Sam</i>	<i>Ricky</i>	<i>Hector</i>

Roger Comson
Customer Representative

Terry Bennett
Station Manager

Roger Brown
Cementer



Cement Report

Customer <i>O'Brien Energy</i>	Lease No. <i>Vail 7-31</i>	Date <i>11-6-14</i>
Lease <i>Vail</i>	Well # <i>7-31</i>	Service Receipt <i>1717-05207-A</i>
Casing <i>4 1/2"</i>	Depth <i>6459'</i>	County <i>Meade</i> State <i>KS</i>
Job Type <i>4 1/2" LS 2 stage</i>	Formation	Legal Description <i>31-33-29</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>4 1/2"</i>	Tubing Size	Shots/Ft		Lead <i>1st Stage</i>
Depth <i>6459'</i>	Depth	From	To	<i>225 sks 14.8ppg</i>
Volume <i>103</i>	Volume	From	To	<i>.5% W-60, 10% Sntt</i>
Max Press	Max Press	From	To	<i>.6% C-15 5# Gilsomite</i>
Well Connection	Annulus Vol.	From	To	<i>1/4# Deformax</i>
Plug Depth <i>6420' - 4570'</i>	Packer Depth	From	To	Fail in <i>2nd Stage</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0600					Called Out
0830					On Location Safety Meeting
1100					Setup
					On Bottom - Circulate
1440					Test Lines to Rig Floor 3000psi
1445	100		12	3	Pump 500gals Mud Flush
1449	100		60.5	6	Mix Pump Cement 14.8ppg
					Finished mixing cement
1510			29	6	Drop Plug and Displace with
			73	6	water & Mud
1525	1400				Latch Baffle Released Held
					Second Stage
1600					Drop opening tool open DV Collar
1830	100		12	4	Pump 500gals Mud Flush
1840	200		27	4	Mix and Pump Cement 14.8ppg
					Release Closing Plug
			73		Pump Displacement
1910	1500				Land Closing Plug - close DV Tool
					Released Held
					Job Completed
					5 hours

Service Units	<i>89315</i>	<i>70897-19570</i>	<i>30463-19566</i>		
Driver Names	<i>Roger</i>	<i>SAM</i>	<i>Rohaleo</i>		

Roger Pearson

Jeram Bennett

Rodan Brown

O'Brien Energy Resources, Inc.

Vail No. 7-31

Section 31, T33S, R29W

Meade County, Kansas

November, 2014

Well Summary

The O'Brien Energy Resources, Corporation, Vail No. 7-31 was drilled to a total depth of 6500' in the Mississippian St. Louis Formation. One of the closest offset was the Vail No. 5-31, 1750' to the North. Formation tops ran relatively even with this well. The Heebner and Lansing, 10' high, the Lansing and Cherokee came in flat, the Morrow, 3' high and the Morrow "C" Sandstone, 7' high, the Chester came in 5' high.

An excellent hydrocarbon show occurred in the Morrow "C" Sandstone(5836'-5860'): Speckled green, salt & pepper, light brown to gray, gray green, translucent, friable to hard, fine lower well sorted subround grains, siliceous cement, calcareous, clean to argillaceous in part, very glauconitic, predominantly good visible intergranular porosity, mottled pale blue hydrocarbon fluorescence in all the sand, slow bleeding cut, no stain. The show dissipates when dried. A 340 Unit gas kick occurred.

Additional minor shows with gas increases occurred in the Chester and St. Louis(mudlog).

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 No. 7-31, Novinger East Field

Location: 2210' FSL & 1320' FWL, Section 31, T33S, R29W, Meade County, Kansas – 10 miles South and east of Plains.

Elevation: Ground Level 2666', Kelly Bushing 2678'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, triple stand, Toolpusher Allan Cain, Drillers: Saul Garcia, Jack Cargle, Paul(Pollywag) Burns

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 10/29/14

Total Depth: 11/5/14, Driller 6500', Logger 6495', Mississippi St. Louis

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1488' with 300 sacks Con A(3%cc & ¼ lb Cello Flake) and 150 sacks Class C(2% & ¼).

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, displaced 2582' with Chemical Gel/LCM.

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

Samples: 30' to 4800', 10' to TD. One set dry cut sent to KGS sample log library.

Electric Logs: Weatherford, engineer Ben Weldin, 1) Dual Induction 2) Compensated Neutron Litho Density 3) Microlog, high resolution.

Status: 4 1/2 " production casing to TD on 11/6/14.

WELL CHRONOLOGY

<u>6 AM</u>	<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
	10/28			Rig down and move to and rig up rotary tools.
	10/29	1423'	1423'	Rig up rotary tools and dig ditches and mix spud mud. Drill mouse hole and rat ole. Spud in 12 1/4" surface hole to 1423'.
	10/30	1525'	102'	To 1492' and circulate and wiper trip and trip out. Rig up casing crew and run and cement 35 joints of 8 5/8" set at 1488' with 360 sacks A com(3% cc and 1/4 lb/bbl floseal and 180 sacks Class C(2% cc). Plug sdown 10am – did circulate. Nipple up BOP and trip in and pressure test BOP. Drill plug and cement and new hole to 1525'.
	10/31	2514'	989'	To 1702' and circulate and trip out for Bit no. 3. Service rig and work with welder. To 1983' and drop survey(MR) and trip for plugged bit. To 25` 2514'.
	11/1	3538'	1024'	Clean suction and mud up at 2600'. Survey(0.3 deg.) and work on pump and swab.
	11/2	4715'	1177'	Survey(.02.) and service rig. Change out valve line.
	11/3	5302'	587'	To 5002' and circulate and trip for Bit No. 4. Replace alternator on motor 1 and 2. Trip in and service and survey and function test BOP.
	11/4	6390'	1088'	Service. Circulate samples at 5873'.
	11/5	6500'TD	110'	To TD and circulate and wiper trip 43 stands and conditon mud. Trap out for logs and run eLogs. Unload casing on racks. Trip in and circulate.
	11/6	TD		Trip out laying down and run and cement 4 1/2" production casing to RD. 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	HC	D605F	12 1/4"	1492'	1492'	16
2	HC	RR	7 7/8"	1702'	210'	2 1/2
3	HC	DP506	7 7/8"	5002'	3300'	64
4	HC	DP506	7 7/8"	6500'	1498'	32 3/4
Total Rotating Hours:						115
Average:						56.5 Ft/hr

DEVIATION RECORD - degree

527' 0.1, 1492' 0.1, 1983'- MR, 2514' 0.6, 3166' 0.2, 3974' 0, 5002', 6500' 0.6

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>
11/28	0'	Make up water							
11/29	315'	9.3	39	4	6	8.0	n/c	100	5
11/31	637'	9.45	29	2	2	7.0	n/c	83K	0
11/01	3087'	8.9	34	4	4	8.0	n/c	9K	2
11/02	4086'	9.4	44	13	14	9.0	14.4	7.8K	3
11/03	5002'	9.3	49	16	17	11.0	8.8	4.7K	4
11/04	5873'	9.35	58	16	18	9.5	9.6	4.1K	3 ½
11/05	6500'	9.35	56	17	18	10.0	8.8	3.9K	5

ELECTRIC LOG FORMATION TOPS- KB Elev. 2678'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Vail No. 5-31</u>	
			<u>DATUM</u>	<u>POSITION</u>
Heebner	4487'	-1804'	-1814'	+10'
Toronto	4518'	-1840'	-1851'	+11'
Lansing	4651'	-1973'	-1973'	0'
Marmaton	5292'	-2614'	-2611'	-3'
Cherokee	5545'	-2773'	-2773'	0'
Atoka	5734'	-3056'	-3051'	-5'
Morrow	5784'	-3106'	-3109'	+3'
"B"/"C" SS	5836'	-3158'	-3165'	+7'
Mississippi Chester	5920'	-3242'	-3247'	+5'
Chester SS	Not present		-3109'	
Ste. Genevieve	6192'	-3514'	-3509'	-5'
St. Louis	6296'	-3618'	-3593'	-25'
TD	6500'			

*Vail No. 5-31, 1320'FNL & 1320'FWL, section 31 – 1750' to the North, K.B. Elevation 2683'.