



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1190452
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: _____

1190452

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	Vail 6-30
Doc ID	1190452

Tops

Name	Top	Datum
Heebner	4482'	-1823'
Toronto	4510'	-1851
Lansing	4648'	-1989
Marmaton	5274'	-2615
Cherokee	5432'	-2773
Atoka	5722'	-3063
Morrow	5776'	-3105
Mississippi Chester	5912'	-3263
Ste. Genevieve	6169'	-3501
St. Louis	6262'	-3603

Cement Report

Customer <i>O'Brien Energy</i>	Lease No.	Date <i>12-14-13 12-15-13</i>
Lease <i>VAIL</i>	Well # <i>6-30</i>	Service Receipt <i>1717-04367 A</i>
Casing <i>8 5/8"</i>	Depth	County <i>Mcade</i>
Job Type <i>SURFACE 242</i>	Formation	State <i>KS</i>
		Legal Description <i>30 - 33 - 29</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>8 5/8"</i>	Tubing Size	Shots/Ft		Lead 400 sks 11.4ppg <i>1" Cen Blend</i> <i>3% CAB 2</i> <i>1/4" Poly flake</i> <i>.2% WCA 1</i>
Depth <i>1486'</i>	Depth	From	To	
Volume <i>91.8</i>	Volume	From	To	
Max Press <i>1500</i>	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	Tail in 150 sks 14.8ppg <i>Premium Plus cement</i> <i>2% CAB 2</i> <i>1/4" Poly flake</i>
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1900</i>					<i>Called out 12-14-13</i>
<i>2200</i>					<i>On Location</i>
<i>2210</i>					<i>Safety Meeting</i>
<i>2215</i>					<i>Set up</i>
					<i>Run casing LXX 12-15-13</i>
					<i>On Bottom Circ Rig Pumps Safety Meeting</i>
<i>0320</i>	<i>1500</i>		<i>10</i>	<i>4</i>	<i>Pump Water Spacer ahead ← Test Lines</i>
<i>0335</i>	<i>200</i>		<i>209.4</i>	<i>4</i>	<i>Mix & Pump Lead cement 1500psi</i>
					<i>11.4 ppg - 2.95 cu ft./sk</i>
<i>0420</i>	<i>200</i>		<i>35.8</i>	<i>4</i>	<i>Mix & Pump Tail cement</i>
					<i>14.8 ppg - 1.34 cu ft./sk</i>
					<i>Finished mixing cement</i>
<i>0430</i>					<i>Drop Top Plug - swedge</i>
<i>0435</i>	<i>200</i> <i>200</i>		<i>91.8</i>	<i>5</i>	<i>Displace</i>
					<i>Slow down to 2 BPM LAST 20 BBLs</i>
					<i>AND slow down to 1 BPM LAST 10 BBLs</i>
<i>0515</i>	<i>1480</i>				<i>LAID Plug 500-600psi over Diff.</i>
					<i>Released</i>
<i>0520</i>					<i>Float Held - No cement to surface</i>
					<i>Break out & load iron PWB</i>
					<i>Job Completed PWB</i>
					<i>Released PWB</i>
					<i>Thanks for this job - BASIC Services</i>

Service Units	<i>21755</i>	<i>37223-37126</i>	<i>33021-19284</i>	<i>14355-377</i>	<i>25</i>
Driver Names	<i>Roger</i>	<i>Tommy</i>	<i>Norma</i>	<i>Gabriel</i>	

Roger Pearson
Customer Representative

Jerry Bennett
Station Manager

Roy
Cementer

Owner: O'Brien Energy	Lease No.	Date: 12-23-13
Case: Vail	Well #: 6-30	Service Receipt
Casing	Depth	County: Meade State: KS

Job Type	Formation	Legal Description: 30-33-29
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Pipe Data		Perforating Data		Cement Data
Casing size: 4 1/2 10.5#	Tubing Size	Shots/Ft		Lead: 180 SK @ 14.8 PPB
Depth: 6330'	Depth	From	To	<i>5' W60, 10' Salt, br. C-15</i>
Volume: 100 bbl	Volume	From	To	1/4" Deformer, SA Gilsonite
Max Press	Max Press	From	To	AA2 Cement
Well Connection	Annulus Vol.	From	To	Tail in
Plug Depth: 6288'	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
1100					On Location - Rig up
1400					Safety Meeting
1424	2500				Pressure Test
1426			12	3	Pump 500 gallons of Mud flush
1429	300		48	3.5	Pump 180 SK @ 14.8 PPB
1447	175				Drop Plug - Wash up
1450	175			5.5	Start Displacement with 2% KCL
1500	550		80	2	Slow Rate
1507	1200		100	2	Bump Plug
1512	0				Release Pressure - float held
					Start down - Rig Down
1520	100		5	2	Plug Mouse Hole - 20 SK @ 15.4 PPB
1525	100		7	2	Plug Rat Hole - 30 SK @ 15.4 PPB
1530	0				Shut Down - Rig Down

Service Units	78940	3875019842	78940	14353 37725
Driver Names	78940	Charles	Ruben	Santiago

Roger Pearson Customer Representative
Jerry Bennett Station Manager
Ruben Martinez Cementer
Taylor Printing, Inc.

O'Brien Energy Resources, Inc.

Vail No. 6-30

Section 30, T33S, R29W

Meade County, Kansas

December, 2013

Well Summary

The O'Brien Energy Resources, Corporation, Vale No. 6-30 was drilled to a total depth of 6360' in the Mississippian St. Louis Formation without any problems. It offset the Vail Offset No. 3-30 by approximately 1000' to the South. The Cherokee and Atoka ran 2' and 4' low relative to this offset. The Morrow came in 8' high and the Morrow "B" Sandstone 3' high. The Mississippian Chester and Ste. Genevieve came in 2' low and the St. Louis 10' low. The Vail No. 6-30 ran 5' to 14' low relative to the Vale offset No. 4-30 from the Heebner to the Atoka. The Morrow came in 5' high and the Morrow "B" Sandstone, 9' high.

Excellent reservoir conditions were noted in the Morrow "B" Sandstone in samples and on logs(5846'5858') – Sandstone in up to 40% of the samples: Light brown with matrix oil staining, Salt and pepper, speckled green, hard to very friable in part, very fine upper to fine lower, well sorted subround grains, siliceous cement, slightly calcareous, glauconitic, pyritic, tight to excellent intergranular porosity, vuggy porosity, bright light yellow hydrocarbon fluorescence(all Sandstone), good streaming cut, light live oil and oil odor when crushed, good even light oil stain, some light gray to green clay infill and inclusions, excellent show. A 360 Unit gas increase occurred on the hotwire.

An additional characteristic hydrocarbon show occurred in the Lower Chester(attached mudlog) and with an additional 320 Unit gas increase.

4 ½ production casing was run on the Vale No. 6-30 for Morrow "B" Sandstone oil production. Appreciation to Duke Rig 6 hands.

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. 6-30, Singley Field

Location: 1976' FSL & 681' FEL, Section 30, T33S, R29W, Meade County, Kansas
– Southeast of Plains.

Elevation: Ground Level 2647', Kelly Bushing 2659'

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

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 12/13/13

Total Depth: 12/22/13, Driller 5360', Logger 5356', Mississippi St. Louis

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1474'. 4 1/2" production casing to
TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, Terry Ison, displaced
2600' with Chemical Gel/LCM.

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

Samples: 20' to 4700', 10' to TD. Zones of interest saved.

Electric Logs: Weatherford, engineer D. Cole, 1)Dual Induction 2) Compensated
Neutron Litho Density 3) Microlog – high res. repeat.

Status: 4 1/2" production casing set to TD on 12/13/13.

WELL CHRONOLOGY

<u>6 AM</u> <u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
12/11			Move to rig up rotary tools. Set in sub and derrick.
12/12			Rig up and service. Change out clutch on 1 and 2. Service floor motor.
12/13	280'	280'	Mix spud mud. Finish rig up and install cathead boom. Drill rat and mouse holes. Drill 12 1/4" surface hole to 280'.
12/14	1486'	1206'	Trip for plugged bit at 280' and 979'. To 1486' and clean suction and mix mud and LCM and trip out for surface casing.
12/15	1690'	204'	Run and cement 35 joints of 8 5/8" casing set at 1474' and wait on cement. Rig up 1" line and tap off cement with 177 sacks cement(250') and wait on cement. Nipple up BOP and test blind rams. Trip in and test pipe rams. Drill plug and cement and 7 7/8" to 1690'.
12/16	2950'	1260'	To 1698' and trip for Bit No. 3. Displace hole at 2541. To 2950'.
12/17	4060'	1110'	Service rig and survey(3/4 deg.).
12/18	4465'	405'	Survey(3/4 deg.).
12/19	5560'	1095'	To 5024' and run 28 stand wiper trip. To 5560'.
12/20	6110'	550'	Survey(1 deg.) and drill.
12/21	6360'TD	250'	To 6360'TD and circulate and condition mud. Cold, windy and snowing.
12/22	TD		Circulate. Run 42 stand wiper trip and circulate and condition mud. Cold and 5" of snow. Circulate on bottom and wait on Weatherford for logs. Run logs. Trip in and circulate.

12/23 TD
casing to TD and rig down.

Trip out laying down. Runand cement 4 1/2" production

BIT RECORD

<u>NO.</u>	<u>MAKE</u> <u>HOURS</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	
1	J2	GA1PGC	12 1/4"	1486'	1486'	21 1/4
2	J2	GX-20	7 7/8"	1698'	212'	5
3	Logic	PLT516	7 7/8"	6360'	4662	131 1/4
Total Rotating Hours:						157 1/2
Average:						40.4
Ft/hr						

DEVIATION RECORD - degree

252' 1/4, 730' 1/4, 979' 1/4, 1486' 1, 2541' 1, 3012' 1, 4013' 3/4, 5619' 1,

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>
12/14	979'	10.0	32			7.0	--	110 2
12/16	2376'	9.5	29			7.0	--	90k 0
12/17	3536'	9.15	47	14	15	8.5	16.8	12k 2
12/18	4564'	9.3	40	14	15	8.5	12.4	8.8k 2.5
12/19	5326'	9.3	66	22	24	11.0	7.2	2.4K 2
12/20	5797'	9.3	46	14	15	10.5	8.0	3.8K 1
12/21	6291'	9.2	47	14	14	10.0	7.2	1.4K 3 1/2

ELECTRIC LOG FORMATION TOPS- KB Elev. 2679'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Singley West No. 3-30</u> <u>DATUM</u>	<u>POSITION</u>
Surface Casing	1485'			
Heebner	4482'	-1823'	-1811'	-12'
Toronto	4510'	-1851'	-1841'	-10'
Lansing	4648'	-1989'	-1969'	-20'
Marmaton	5274'	-2615'	-1615'	0'
Cherokee	5432'	-2773'	-2771'	-2'

Atoka	5722'	-3063'	-3059'	-4'
Morrow	5776'	-3105'	-3113'	+8'
"B" SS	5846'	-3187'	-3190'	+3'
Mississippi Chester	5912'	-3263'	-3261'	-2'
Ste. Genevieve	6169'	-3501'	-3499'	-2'
St. Louis	6262'	-3603'	-3593'	-10'
TD	6360'			

*Singley West No. 3-30, 2308'FNL & 335'FEL, Sec. 30 – approximately 1000' to the South. .