

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1245570  
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: \_\_\_\_\_

1245570

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> _____
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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> _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Angell 1-18
Doc ID	1245570

Tops

Name	Top	Datum
Heebner	4428'	-1701'
Toronto	4452'	-1725'
Lansing	4558'	-1831'
Marmaton	5148'	-2421'
Cherokee	5335'	-2608'
Atoka	5600'	-2873'
Morrow	5658'	-2931'
Chester	5744'	-3017'
Ste. Gen.	5968'	-3241'
St. Louis	6096'	-3369'
Spergen	6268'	-3541'





# Cement Report

Customer	O'Brien Energy		Lease No.			Date	12-28-14		
Lease	Angell		Well #	1-18		Service Receipt	5139		
Casing	8 5/8	Depth	1487		County	Meade		State	KS
Job Type	2-4Z		Formation	Surface		Legal Description	Sec 18 Twp-32-R30		
Pipe Data				Perforating Data			Cement Data		
Casing size	8 5/8		Tubing Size				Lead	Den 11.4	
Depth	1445		Depth	From	To		325 sks yield	2.95	
Volume	91.90		Volume	From	To		gal/sk	18.10	
Max Press	1500		Max Press	From	To		Tail in	Den 14.8	
Well Connection	8 5/8		Annulus Vol.	From	To		150 sks yield	1.34	
Plug Depth			Packer Depth	From	To		gal/sk	6.33	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log				
9:30					on location				
10:00					Safety Meeting & Rig up				
12:15	2500		1		Prime up Pci Test				
12:18	50		170	5.0	Start lead Cement				
12:48	100		36	4.0	Start Tail				
12:57	0		0		Shut Down				
12:58	0				Washup				
12:59	50		1	3.5	Start Displacement				
1:19	175		70	2.0	Slowed down Rate Circulated Cement				
1:24	250		80	1.0	Slowed down rate				
1:30	1200		92		Shut Down				
1:30	1200				Plug landed				
1:35	0				Released back				
1:35					Float Held				
1:38					Rig down				
Service Units	39878	38750	19842	30463/19566	33021/14284				
Driver Names	JUAN	Carlos		Gabriel M	Edgar				

Roger Pearson  
Customer Representative

Tyler Davis  
Station Manager

JUAN ORTIZ  
Cementer





# Cement Report

Customer <i>O'Brien Energy Resources Corp</i>	Lease No. <i>Angell-1-18</i>	Date <i>01-02-15</i>
Lease <i>Angell</i>	Well # <i>1-18</i>	Service Receipt <i>1717-05506A</i>
Casing <i>8 5/8"</i>	Depth <i>1530'-540' 60'</i>	County <i>Mende</i> State <i>KS</i>
Job Type <i>PTA</i>	Formation <i>Dry Hole</i>	Legal Description <i>18-325-29W</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>8 5/8"</i>	Tubing Size	Shots/Ft		Lead <i>170 sks</i> <i>60/40 Permox</i> <i>4% gel</i>
Depth <i>1514'</i>	Depth	From	To	
Volume	Volume	From	To	Tail in
Max Press	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	
Plug Depth <i>1530'-540' 60'</i>	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1400</i>					<i>Called Unit</i>
<i>1900</i>					<i>On Location</i>
<i>1920</i>					<i>Safety Meeting</i>
<i>1940</i>					<i>Set up</i>
					<i>1st Plug 1530'-1280'</i>
<i>1954</i>			<i>13.5</i>	<i>4</i>	<i>50 sks 60/40 Permox 4% gel - 13.5 sppg</i>
					<i>13.5 BBLs slurry - 9 BBLs mix water</i>
			<i>16 BBLs</i>	<i>4</i>	<i>Displace .01422 - 18 BBLs Displace 16 BBLs</i>
					<i>2 BBLs water - 14 BBLs mud Released - Balanced</i>
<i>2100</i>			<i>13.5</i>	<i>4</i>	<i>2nd Plug 540'-210 - TOC 330'</i>
					<i>50 sks 60/40 Permox 4% gel - 13.5 sppg</i>
					<i>13.5 BBLs slurry - 8 BBLs mix water</i>
<i>2137</i>			<i>4</i>	<i>2</i>	<i>Displace 4 BBLs water BALANCE</i>
<i>2300</i>					<i>3rd Plug 60' - Top of Surface</i>
			<i>5.4</i>		<i>20 sks 60/40 Permox 4% gel - 13.5 sppg</i>
					<i>5.4 BBLs slurry - 3.6 BBLs mix water</i>
			<i>1/2</i>		<i>Displace 1/2 BBLs</i>
<i>2310</i>			<i>8.1</i>	<i>2</i>	<i>Rathole 30 sks 8 BBLs slurry 13.5 sppg</i>
<i>2320</i>			<i>5.4</i>	<i>2</i>	<i>Mouse Hole 20 sks 5.4 BBLs slurry 13.5 sppg</i>
<i>2330</i>					<i>Finished up</i>
					<i>Rack up</i>
					<i>Job Completed</i>
					<i>Thanks</i>

Service Units	<i>89315</i>	<i>70892-19590</i>	<i>14354-19578</i>		
Driver Names	<i>Roger</i>	<i>Sam</i>	<i>NORMA</i>		

*Roger Peterson* Customer Representative     
 *Tyce Davis* Station Manager     
 *Roger Brown* Cementer

Taylor Printing, Inc.

**O'Brien Energy Resources, Inc.**

**Angell No. 1-18**

**Section 18, T32S, R29W**

Meade County, Kansas

December, 2014

**Well Summary**

The O'Brien Energy Resources, Corporation, Angell No. 1-18 was drilled to a total depth of 6402' in the Spergen Formation. Its location is 1 ¾ miles to the NE of the Angell No. 2-13. The Heebner, Toronto and Lansing ran 11', 9' and 13' low relative to this offset. The Atoka and Morrow came in 10' and 15' high. Further structure was gained as the Chester ran in 37' high. The Ste. Genevieve, St. Louis and Spergen, 30', 27' and 6' high respectively. Just minor hydrocarbon shows and gas increases occurred in the Basal Chester and St. Louis Formation (attached mudlog).

A tight 6' Morrow Sandstone (5672'-5678') was noted in a very small percentage of samples (few clusters) after logs were run and with no associated hydrocarbon show. No mud gas increase was noted on gas detection.

The Angell No. 1-18 was plugged and abandoned 1/2/15.

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: Angell No. 1-18

Location: 2308' FNL & 335' FEL, Section 18, T32S, R29W, Meade County, Kansas – 3 miles east of Plains.

Elevation: Ground Level 2715', Kelly Bushing 2727'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, triple stand, Toolpusher Emidgio Rojas, Drillers: Victor Martinez, Alejandro V., Feraindo Juroeb

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 12 /27/14

Total Depth: 1/2/15, Driller 6402', Logger 6396', Mississippian St. Louis/Spergen.

Casing Program: 35 joints of 8 5/8", J55, 24Lbs/ft, set at 1487'.

Mud Program: Winter Mud, engineer Kris McCane, displace at 3585'.

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

Mudlogging Trailer: MBC Logging and Leasing, Meade, KS.

Samples: 30' to 5600', 20' to TD. One set dry cut sent to KGS Sample Log Library.

Electric Logs: Weatherford, engineer Derrek Carter, 1)Dual Induction 2) Compensated Neutron Litho Density 3) Microlog 4) High Res.

Status: Plugged and abandoned 1/2/15.



**WELL CHRONOLOGY**

<b><u>DATE</u></b>	<b><u>DEPTH</u></b>	<b><u>FOOTAGE</u></b>	<b><u>RIG ACTIVITY</u></b>
12/23			Move to location and rig up. Down for Xmas.
12/27	765'	765'	Rig up rotary tools. Pump water and mix spud mud. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 765'.
12/28	1505'	740'	Survey(1 deg.). To 1505' and circulate. Drop survey(1 deg.) and out and run and cement 35 joints of 8 5/8" set at 1487'. Plug down 1:30 PM, did circulate to surface. Wait on cement. Nipple up BOP.
12/29	3000'	1495'	Nipple up and pressure test BOP. Drill plug and cement and 7 7/8" to 1612' and trip for Bit No. 3. Clean pits. To 3000'.
12/30	4635'	1635'	Displace mud at 3585'. Survey(1 1/4 deg.).
12/31	5550'	915'	Service rig and survey(1 1/4 deg.). To 5022' and circulate and wiper trip 45 stands. To 5550'.
1/1	6402'TD	852'	Clean pits. To 6402'TD and circulate. Short trip and circulate and trip out for logs.
1/2	TD		Run ELogs. Trip in and circulate. Out laying down and plug and abandon well. Rig down.

**BIT RECORD**

<b><u>NO.</u></b>	<b><u>MAKE</u></b>	<b><u>TYPE</u></b>	<b><u>SIZE</u></b>	<b><u>OUT</u></b>	<b><u>FOOTAGE</u></b>	<b><u>HOURS</u></b>
1	HTC	PH-1c	12 1/4'	1505'	1505'	13
2	But. Bit	HA2516	7 7/8"	1612'	107'	1
3	PDC	PLT616'	7 7/8"	6402'	4790'	63
Total Rotating Hours:						77
Average:						83.1 Ft/hr

**DEVIATION RECORD – degree**

all recorded between 1 and 1 3/4 deg.

### 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>
5									
12/27	151'	8.7	33	12	7	7.5	100	700	
12/28	1505'	9.9	32	10	6	8	100	200	8
12/29	1928'	8.7	30	5	3	7.5	100	2100	--
12/30	3879'	9.2	45	17	13	9	13	5800	4
12/31	5022'	9.4	61	33	19	10		4200	8
1/1	6100'	9.3	52	26	16	11	5.6	4000	4

### ELECTRIC LOG FORMATION TOPS- KB Elev. 2727'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Angell No. 2-13</u>	
			<u>DATUM</u>	<u>POSITION</u>
Heebner	4428'	-1701'	-1690'	-11'
Toronto	4452'	-1725'	-1716'	-9'
Lansing	4558'	-1831'	-1818'	-13'
Marmaton	5148'	-2421'	-2395'	+21'
Cherokee	5335'	-2608'	-2606'	-2'
Atoka	5600'	-2873'	-2884'	+10'
Morrow	5658'	-2931'	-2946'	+15'
Chester	5744'	-3017'	-3049'	+37'
Ste. Gen.	5968'	-3241'	-3271'	+30'
St. Louis	6096'	-3369'	-3396'	+27'
Spergen	6268'	-3541'	-3547'	+6'
TD	6402'			

\*O'Brien Energy Resources, Angell No. 2-23 – 1 ½+ miles to the SW, KB Elev. 2735'.