Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1139590

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 # 32211
Name: O'Brien Energy Resources Corp.
Address 1: 18 CONGRESS ST, STE 207
Address 2:
City: PORTSMOUTH State: NH Zip: 03801 + 4091
Contact Person: Joseph Forma
Phone: ( 603 ) 427-2099
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Peter Debenham
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 #:

| 04/16/2013 | 04/22/2013 | 04/22/2013 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-119-21329-00-00
Spot Description:
_ - _ - NE - NE Sec. 6 Twp. 34 S. R. 28 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
660 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Meade
Lease Name: Sneath Well #: 1-6
Field Name:
Producing Formation: NA
Elevation: Ground: 2342 Kelly Bushing: 2354
Total Vertical Depth: 6313 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1485 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: 8700 ppm Fluid volume: 1200 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: May Papay
Lease Name: Sneed License #: 34021
Quarter NW Sec. 14 Twp. 34 S. R. 30 ☐ East ☑ West
County: Meade Permit #: 15-119-20027

**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: 05/29/2013
☑ **Confidential Release Date:** 05/29/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
**ALT** ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 05/30/2013

1139590

Operator Name: O'Brien Energy Resources Corp. Lease Name: Sneath Well #: 1-6

Sec. 6 Twp. 34 S. R. 28 ☐ East ☑ West County: Meade

**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 ☐ Yes ☑ No
*(Attach Additional Sheets)*

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

INDUCTION
MICRO
NEUTRON/DENSITY

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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 |
|---|---|---|---|---|---|---|---|
| SURFACE | 12.25 | 8.625 | 24 | 1485 | AA2 | 500 | 3%CHCl, 2#floseal |
| | | | | | | | |
| | | | | | | | |

ADDITIONAL CEMENTING / SQUEEZE RECORD

| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|---|---|---|---|---|
| ___ Perforate<br>___ Protect Casing<br>___ Plug Back TD<br>___ 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 *(Amount and Kind of Material Used)* | 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: ☐ Vented ☐ Sold ☐ Used on Lease
*(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

**Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202**

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | O'Brien Energy Resources Corp. |
| Well Name | Sneath 1-6 |
| Doc ID | 1139590 |

Tops

| Name | Top | Datum |
|---|---|---|
| Chase | 2492 | -138 |
| Council Grove | 2894 | -492 |
| Hooser SH | 2991 | -637 |
| Neva | 3132 | -778 |
| Heebner | 4271 | -1917 |
| Toronto | 4310 | -1956 |
| Lansing | 4423 | -2069 |
| Stark Shale | 4898 | -2544 |
| Pleasanton Group | 5085 | -2731 |
| Marmaton | 5106 | -2752 |
| Novinger/Pawnee | 5174 | -2818 |
| Cherokee | 5270 | -2916 |
| Atoka | 5404 | -3050 |
| Morrow | 5599 | -3245 |
| Mississippi Chester | 5662 | -3308 |
| Ste. Genevieve | 6065 | 3711 |
| St. Louis | 6164 | -3810 |

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/



May 29, 2013

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

Re: ACO1
API 15-119-21329-00-00
Sneath 1-6
NE/4 Sec.06-34S-28W
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.

BASIC ENERGY SERVICES
Liberal, Kansas

# Cement Report

| | | | |
|---|---|---|---|
| Customer: O'Brien Energy | Lease No. | Date: 4-17-13 | |
| Lease: Sheath | Well #: 1-6 | Service Receipt: 4137 | |
| Casing: 8 5/8 | Depth: 1483 | County: Meade | State: KS |
| Job Type: 2-42 | Formation | Legal Description: Sec 6-34-28 | |

## Pipe Data

| | |
|---|---|
| Casing size: 8 5/8 | Tubing Size |
| Depth: 1483 - 42' Shoe Joint | Depth |
| Volume: 96 | Volume |
| Max Press: 1500 | Max Press |
| Well Connection: 8 5/8 | Annulus Vol. |
| Plug Depth | Packer Depth |

## Perforating Data

Shots/Ft

| | |
|---|---|
| From | To |
| From | To |
| From | To |
| From | To |
| From | To |

## Cement Data

**Lead** yield 2.45
400sk gal/sk 18.16

**Tail in** yield 1.34
150sks gal/sk 6.33

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumbed | Rate | Service Log |
|---|---|---|---|---|---|
| 7:00 | | | | | On location |
| 7:05 | | | | | Safty Meeting & Rig up |
| 8:14 | | | | | Drop Ball Circulate |
| 8:45 | 2000 | | | | Prime up Psi Test |
| 8:49 | 50 | | 210 | 4.0 | Start Lead Cement |
| 9:36 | 50 | | 36 | 4.0 | Start Tail Cement |
| 9:48 | | | | | Shut Down Drop Plug |
| 9:49 | | | | 3.0 | Start Displacement |
| 10:07 | 150 | | 50 | 3.0 | Start Circulating Cement to Pit |
| 10:14 | 700 | | 80 | 1.0 | Slow down Rate |
| 10:20 | 700 | | 91 | | Plug landed |
| 10:22 | | | | | Released Back Float held |

| | | | | | | |
|---|---|---|---|---|---|---|
| Service Units | 39878 | 78940 | 30463 / 37547 | 38621 / 14784 | 38750 / 19847 | |
| Driver Names | Juan O | Ruben | Greg | Hector R | Hector E | |

Roger Pearson
Customer Representative

Jerry Bennett
Station Manager

J Ortiz R / Martinez
Cementer

BASIC ENERGY SERVICES
Liberal, Kansas

# Cement Report

| | | | |
|---|---|---|---|
| Customer OBrien Energy | Lease No. | Date 4/23/13 | |
| Lease Sneath | Well # 1-6 | Service Receipt | |
| Casing | Depth | County Meade | State KS |
| Job Type PTA | Formation | Legal Description 6-34-28 | |

| Pipe Data | | Perforating Data | | Cement Data |
|---|---|---|---|---|
| Casing size 4 5/8 | Tubing Size 4 1/2 D.P. | Shots/Ft | | Lead 160 SX 60/40 POZ @ 14.5# 1.26 5.68 |
| Depth | Depth | From | To | |
| Volume | Volume | From | To | |
| Max Press | Max Press | From | To | Tail in |
| Well Connection Drill Pin | Annulus Vol. | From | To | |
| Plug Depth | Packer Depth | From | To | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumbed | Rate | Service Log |
|---|---|---|---|---|---|
| 03:30 | | | | | On Loc, Spot + RU, Safety mtg |
| 04:47 | 180 | | 10 | 4 | H2O @ 1505' |
| 04:50 | 180 | | 11 | 4 | Mix 50 sx @ 14.8# |
| 04:53 | 0 | | 14 | 4 | Disp |
| | | | | | |
| 05:39 | 200 | | 10 | 5 | H2O @ 330' |
| 05:41 | 200 | | 9 | 5 | Mix 40 sx @ 14.8# |
| 05:43 | 0 | | 2 | 3 | H2O Disp |
| | | | | | |
| 06:14 | 40 | | 5 | | Plug at 60' |
| 06:19 | | | | | Plug R+M |
| 06:30 | | | | | Job Complete. |

| | | | | | | |
|---|---|---|---|---|---|---|
| Service Units | 74939 | 37223 37726 | 14355 37725 | | | |
| Driver Names | C. Hinz | R. Olds | J. Garcia | | | |

Roger Pearson
Customer Representative

Jerry Bennett
Station Manager

Chad Hinz
Cementer

Taylor Printing, Inc.

# O'Brien Energy Resources, Inc.
## Sneath No. 1-6
## Section 6, T34S, R28W
Meade County, Kansas
April, 2013

## Well Summary

The O'Brien Energy Resources, Sneath No. 1-6 wildcat was drilled to a total depth of 6315' in the St. Louis Formation without any problems. It offset the Vanderpool No. 1-5 to the NW. Formation tops ran high relative to this offset. The Chase to the Lansing came in 15' to 23' high. The Marmaton to the Atoka ran 20' to 28' high. The Morrow came in 35' high and the Mississippian Chester, Ste. Genevieve and St. Louis ran 44', 32' and 32' high respectively.

Minor hydrocarbon shows were documented in the Council Grove with several gas increases of up to 16 Units. Slight gas increases were noted in the Wabaunsee with no samples shows documented. Very minor shows were noted in the Lansing, Cherokee and Atoka Formations(attached mudlog).

Several excellent Morrow reservoir sands are noted on logs and in samples. The upper interval(5630'-5640') consist of a Sandstone in 5% of the samples: Salt and pepper, speckled green, hard to friable, very fine well sorted subround grains, clean, siliceous cement, slightly calcareous, glauconitic, pyritic in part, good intgranular porosity, no florescense, no stain or cut. A 60 Unit gas increase may have come from this interval or from the shale directly above it. The lower Sandstone(5650' – 5655') consists of a similar sandstone as above and did contain a very dull goldbrown fluorescence when dried and a very weak slow bleeding residual ring cut. It contained traces of solid black residue or gilsonite inclusions and traces of oil staining. No live oil or oil fluorescence was noted.

Several additional minor shows and gas increases were documented in the Chester.

Respectfully Submitted,

Peter Debenham

# WELL DATA

| | |
|---|---|
| Operator: | O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH<br>Geologist: Paul Wiemann – Denver, CO |
| Well: | Sneath No. 1-6, wildcat |
| API No.: | 15-119-21329 |
| Location: | NE NE, Section 6, T34S, R28W, Meade County, Kansas – 10 miles SW of Meade |
| Elevation: | Ground Level 2342', Kelly Bushing 2354' |
| Contractor: | Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Darrly LaRoche, Danny White, Saul Garcia |
| Company Man: | Roger Pearson – Liberal, Kansas |
| Spud Date: | 4/16/13 |
| Total Depth: | 4/22/13, Driller 6315', Logger 6316', Mississippian St. Louis |
| Casing Program: | 36 joints of 8 5/8", J55, 24Lbs/ft, set at 1485'. |
| Mud Program: | Mud Co./Service Mud Inc., Engineer Justin Whiting, mud up 2500'. |
| Wellsite Consultant: | Peter Debenham with mudlogging trailer, Call depth 2500', Box 350, Drake, CO 80515, 720/220-4860. |
| Samples: | 30' to 5600', 20' to TD. One set dry cut sent to KGS sample log library. |
| Electric Logs: | Weatherford, Engineer Rob Hoffman, Derek Carter, 1) Array Induction, 2) Neutron/Density, 3) Microlog, 4) High Res. |
| Status: | Plugged and abandoned 4/23/13. |

## WELL CHRONOLOGY

| DATE | 8 PM DEPTH | FOOTAGE | RIG ACTIVITY |
|---|---|---|---|
| 4/13 | | | Sey plugs on the Ardrey No. 2-2. Rig down and release rig. |
| 4/14 | | | Clean tanks and work on pumps and rig repairs. Change valves and weld on pits. |
| 4/15 | | | Move to location and rig up rotary tools. Mix spud mud and slip and cut drill line. |
| 4/16 | 1185’ | 1185’ | Mix spud mud. Blow down mouse and rat hole. Spud in 12 ¼” surface hole to 1185’. Service and survey(1/4 deg.). |
| 4/17 | 1680’ | 495’ | To 1485’ and circulate and trip for surface casing and run and cement 8 5/8” to 1485’ and wait on cement, did circulate. Nipple up BOP and test blind ram to 800 PSI. Trip in and test pipe rams to 800 PSI. Drill plug and cement and 7 7/8” to 1680’ |
| 4/18 | 3070’ | 1390’ | service And survey(3/4 deg.). Clean suction and displace mud system at 2500’. |
| 4/19 | 3900’ | 830’ | To 3170’ and trip for Bit No. 3. Safety meeting. To 3563’ and trip out and install nozzils in bit and trip in and drill to 3900’. |
| 4/20 | 5175’ | 1875’ | Safety meeting. To 5175’ and circulate and circulate and 20 stand wiper trip. |
| 4/21 | 6240’ | 1065’ | |
| 4/22 | 6315’TD | 75’ | To 6315’TD and circulate. Wiper trip 40 stands and circulate. Drop survey(1 deg.) and trip out for logs and run eLogs. Trip in. |
| 4/23 | TD | | Trip out laying down and plug and abandon well. |

## BIT RECORD

| NO. | MAKE | TYPE | SIZE | OUT | FOOTAGE | HOURS |
|---|---|---|---|---|---|---|
| 1 | HTC | RR J-2 | 12 ¼” | 1485’ | 1485’ | 22 |
| 2 | SM | Mi616 | 7 7/8” | 3170’ | 1685’ | 25 |
| 3 | SM | Mi616 | 7 7/8” | 6315’ | 3145’ | 61 ½ |
| | | | | Total Rotating Hours: | | 108 ½ |
| | | | | Average: | | 58.2 Ft/hr |

## DEVIATION RECORD - degree

989’ ¼, 1485’ ½, 2020’ ¾, TD 1

## MUD PROPERTIES

| DATE | DEPTH | WT | VIS | PV | YP | pH | WL | CL | LCM-LBS/BBL |
|---|---|---|---|---|---|---|---|---|---|
| 4/17 | 1485’ | 9.2 | 35 | 4 | 6 | 7.0 | n/c | 46K | 5 |
| 4/18 | 2614’ | 8.5 | 42 | 11 | 13 | 8.0 | n/c | 6K | 2 |
| 4/19 | 3453’ | 9.1 | 41 | 13 | 13 | 8.0 | n/c | 16.8K | 4 |
| 4/20 | 4750’ | 9.4 | 44 | 14 | 15 | 9.0 | 15.6 | 9.6K | 3 |

## ELECTRIC LOG FORMATION TOPS- KB Elev. 2354’

| | | | *Vanderpool No. 1-5 | |
|---|---|---|---|---|
| FORMATION | DEPTH | DATUM | DATUM | POSITION |
| Surface casing | 1482’ | | | |
| Chase | 2492’ | -138’ | -155’ | +17’ |
| Odell SH | 2603’ | -249’ | -264’ | +15’ |
| Gage SH | 2655’ | -301’ | -319’ | +18’ |
| Towanda LS | 2688’ | -334’ | -351’ | +17’ |
| Wreford LS | 2864’ | -492’ | -508’ | +16’ |
| Council Grove | 2894’ | -540’ | -558’ | +18’ |
| Hooser SH | 2991’ | -637’ | -656’ | +19’ |
| Cottonwood LS | 3062’ | -708’ | -731’ | +23’ |
| Neva | 3132’ | -778’ | -792’ | +14’ |
| Penn. Wabaunsee | 3356’ | -1002’ | -1020’ | +18’ |
| Heebner | 4271’ | -1917’ | -1930’ | +13’ |
| Toronto | 4310’ | -1956’ | -1976’ | +20’ |
| Lansing | 4423’ | -2069’ | -2086’ | +17’ |
| Dewey LS | 4728’ | -2374’ | -2390’ | +16’ |
| Stark Shale | 4898’ | -2544’ | -2566’ | +22’ |
| Swope LS | 4903’ | -2549’ | -2570’ | +21’ |
| Hushpuckney SH | 5000’ | -2646’ | -2652’ | +6’ |
| Hertha LS | 5028’ | -2674’ | -2679’ | +5’ |
| Pleasanton Group | 5085’ | -2731’ | -2753’ | +22’ |
| Marmaton | 5106’ | -2752’ | -2772’ | +20’ |
| Novinger/Pawnee | 5174’ | -2818’ | -2840’ | +22’ |
| Ft. Scott | 5234’ | -2880’ | -2904’ | +24’ |
| Cherokee | 5270’ | -2916’ | -2941’ | +25’ |
| Atoka | 5404’ | -3050’ | -3078’ | +28’ |
| Morrow | 5599’ | -3245’ | -3280’ | +35’ |
| Mississippi Chester | 5662’ | -3308’ | -3352’ | +44’ |
| Ste. Genevieve | 6065’ | -3711’ | -3752’ | +32’ |
| St. Louis | 6164’ | -3810’ | -3848’ | +32’ |
| TD | 6315’ | | | |

*Vanderpool No. 1-5, 2041’FSL & 2060’FWL, sec. 5 – to the SE, K.B. Elev. 2368’.