

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	MARY 3-1
Doc ID	1405310

Tops

Name	Top	Datum
Heebner	4315	-2050
Lansing	4508	-2243
Stark SH	4862	-2597
Marmaton	5016	-2751
Pawnee	5060	-2795
Cherokee	5114	-2849
Morrow	5218	-2953
Mississippi	5240	-2975
Warsaw	6090	-3825
Viola	6180	-3915
Simpson	6431	-4166
Arbuckle	6446	-4181



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

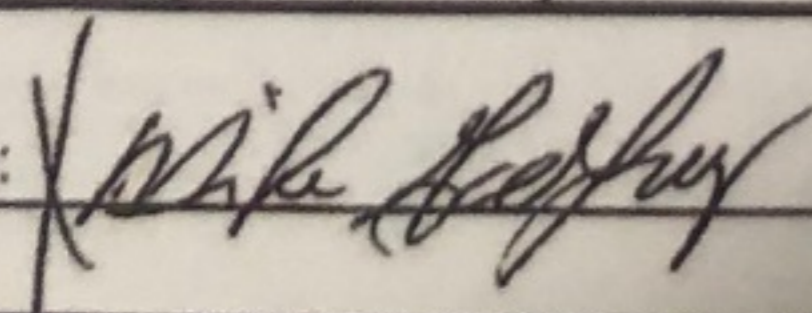
Customer:	Obrien Energy	Cement Pump No.:	38119-19570 6 HRS	Operator TRK No.:	96815
Address:	18 Congress St. Suite 207	Ticket #:	1718-15577 L	Bulk TRK No.:	14355-37724
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Surface Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Mary 3-1	Well Location:	1,21,22	County:	Clark
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON	140	3%CaCl, 1/4#POLYFLAKE, .2%WCA-1	14355-37724	Front	Back
PREMIUM PLUS	150	2%CaCl, 1/4#POLYFLAKE		Front	Back
				Front	Back

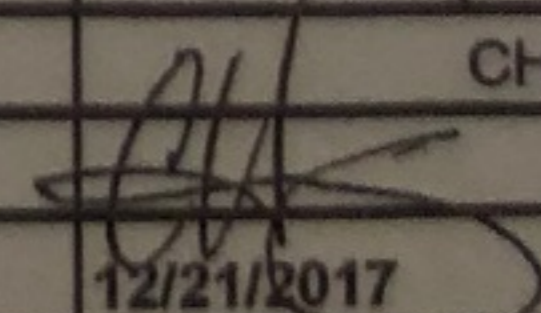
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	11.4	2.95	18.1	413	Man Hours:	44
Tail:	14.8	1.34	6.33	201	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
3:00							ON LOC, SAFTEY MTG, R.U.
12:56						1600	TEST LINES
12:58 PM	5.3					80	START LEAD @ 11.4#
1:12 PM	5.3	73.5				100	ON TAIL @ 14.8#
1:20 PM		36					SHUT DOWN, DROP PLUG
13:24	5					90	START DISPLACEMENT
13:30	2	30				130	SLOW RATE
1:37 PM		44.5				210-800	PLUG DOWN
13:39						800-0	RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

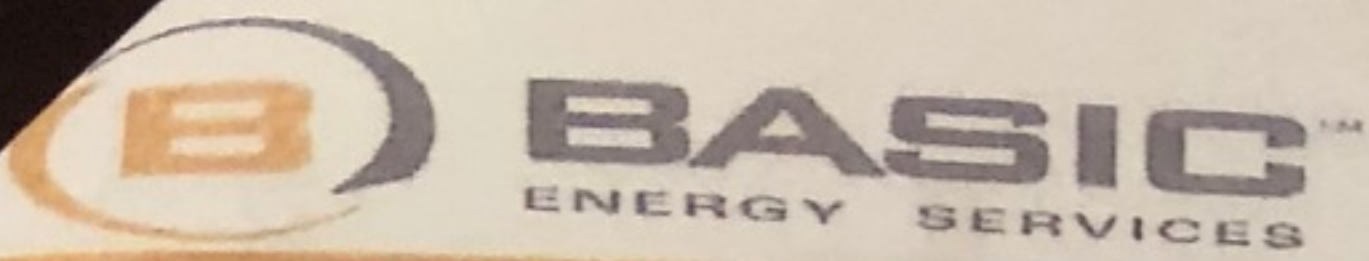
Size Hole	12 1/4	Depth	747		TYPE	
Size & Wt. Csg.	8 5/8 24	Depth	747.49	New / Used	Packer	Depth
lbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature: 

Basic Representative: CHAD HINZ

Basic Signature: 

Date of Service: 12/21/2017



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

Customer:	Obrien Energy	Cement Pump No.:	38119-19570 13 HRS	Operator TRK No.:	96815
Address:	18 Congress St. Suite 207	Ticket #:	1718-15581 L	Bulk TRK No.:	14354-19578
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Plug to Abandon		
Service District:		Well Type:	OIL		
Well Name and No.:	Mary 3-1	Well Location:	1,21,22	County:	Clark
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On	
60/40 POZ	200	4%GEL	14354-19578	Front Back
				Front Back
				Front Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	13.5	1.68	8.86	336	Man Hours:	43
Tail:					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
21:30							ON LOC, SAFTEY MTG, R.U.
4:07	3	10			110		H2O SPACER
4:11 AM	3	14.96			110		MIX 50 SX@1250'
4:16 AM	3	3					H2O SPACER
4:18 AM	4	10			70		MUD
4:53	3.9	10			100		H2O SPACER
4:58	3.9	14.96			100		MIX 50SX@760'
5:03 AM	4.3	6					DISPLACE
5:45	3.9	10			70		H2O SPACER
5:48	3.9	9			70		MIX 30 SX @240'
5:50	3.9	1					DISPLACE
6:08	3	6					PLUG @ 60'
6:24		9 & 6					PLUG RH, AND MH
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!

Size Hole	Depth			TYPE	
Size & Wt. Ceg.	Depth		New / Used	Packer	Depth
lbg.	Depth			Retainer	Depth
Top Plugs	Type			Perfs	CIBP
Customer Signature:			Basic Representative: CHAD HINZ		
			Basic Signature:		
			Date of Service: 1/2/2018		

O'Brien Energy Resources, Inc.
Mary No. 3-1, Daily Prospect, Granger Creek Field
Section 1, T31S, R22W

Clark County, Kansas
December 2017

Well Summary

The O'Brien Energy Resources, Corporation, Mary No. 1-1, Daily Prospect was drilled to a total depth of 6500' in the Arbuckle Formation. The Mary No. 1-1 was drilled ½ mile to the East of the Falcon Exploration Shrauner No. 1-6. The Heebner, Brown Limestone and Lansing ran 8', 10' and 12' high relative to this offset. Formation tops from the Stark Shale to the Morrow ran 6' to 8' high. A thinner Morrow section pushed the top of the Mississippi 30' high. The Simpson Sandstone and Arbuckle came in 1' and 3' low.

A quality hydrocarbon show occurred in the Upper Mississippi(5252'-5256') and consists of a Limestone: White, finely crystalline, very soft chalky and amorphous when wet, brittle when dry, clean, fossiliferous and oolitic with occasional interparticle porosity, trace visible intercrystalline and fine vuggy porosity, bright light yellow hydrocarbon fluorescence in 12% of the samples, good streaming to slow bleeding cut, trace light mottled oil stain and live oil, slight oil odor, occasional even brown matrix oil stain, show dissipates when dry. A 100 Unit gas increase was documented. 18 percent density porosity is noted on logs.

Additional minor tight oil shows were documented in the Morrow and Cherokee limestone's.

4 ½" production casing was run on the Mary No. 1-1 on 12/20/15 to production test the Upper Mississippi.

Respectfully Submitted,

Peter Debenham

WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH
Geologist: Paul Wiemann – Denver, CO

Prospect Geologist: David Ward, Ed Schuett, Denver

Well: Mary No. 3-1, Daily Prospect, Granger Creek Field

Location: 2377' FSL & 1760' FEL, Section 1, T31S, R22W, Clark Co., Kansas,
South of Bucklin.

Elevation: Ground Level 2252', Kelly Bushing 2264'

Contractor: Duke Drilling Rig No. 1, Type: Double jackknife, triple stand, Toolpusher:
Mike Godfrey, Drillers: Carlos Harcia, Saul Garcia, Henry Diaz

Company Man: Dana Greathouse

Spud Date: 12/21/17

Total Depth: 2/20/17, Driller ', Logger ', Mississippi.

Casing Program: 13 joints of 8 5/8", J55, 24Lbs/ft, set at 647'.

Mud Program: Winter Mud, Engineer Drew Smith, Chemical/gel, displaced 3200'.

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

Samples: 30' to 5200', 20' to TD. One dry cut sent to the KS Sample Log Library, Wichita.

Electric Logs: Weatherford, engineer Adam Sill, Array Induction, Compensated Neutron/Density, Hi Res.

Status: 4 1/2" production casing run on 12/20/15 for Upper Mississippian oil production.

WELL CHRONOLOGY

6 AM			
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
2/20	70'	7'	Move to location and rig up rotary tools. Slip and cut 115' of drill line. Mix spud mud. Drill rathole and mouse hole and spud in 12 1/4" surface hole to 70'.
2/21	747'	677'	To 747' and circulate and wiper trip. Drop survey(1/2 deg.) and trip for surface casing. Run and cement 17 joints of 8 5/8" casing set at 732' with 140 sacks H-Con(3%cc, 1/4 lb/ft fs, tail 150 sacks Prem Plus(2%cc & 1/4 fs). Plug down 1:45 pm – did circulate. Wait on cement and drain rig and shut down for XMass.
2/27	1587'	840'	Fire up rig. Trip in and drill plug and cement and new 7 7/8" hole to 1587'. Survey(3/4 deg.).
2/28	3030'	1443'	Surveys(3/4 deg.).
2/29	3922'	892'	Displace mud system at 3200'. Surveys(3/4 – 1 deg.).

BIT RECORD

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>OUT</u>	<u>FOOTAGE</u>	
	<u>HOURS</u>					
1	12 1/4"	PLS 516-D7		747'	747'	7
2	7 7/8"	PLT 616-S6				
						Total Rotating Hours: 111 1/2
						Average: 58.3
						Ft/hr

DEVIATION RECORD - degree

747' 1/2, 1334' 3/4, 1840' 1, 2249' 3/4, 2786' 3/4, 3229' 1, 3734' 1, 4239' 3/4, 4742' 1,

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-</u>
12/21	747'	9.8	42	10	27	7.5	n/c	3.5K	6
12/22	747'	Down for XMass							
12/28	2344'	9.5	29	5	4	7.5	n/c	82.5K	--
12/29	3360'	8.6	45	10	28	10.0	12.0	11.4K	3
12/30	4405'	9.2	40	12	6	11.5	9.5	11.5K	

ELECTRIC LOG FORMATION TOPS- KB Elev. 2265'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Shrauner No. 1-6 DATUM</u>	<u>POSITION</u>
Casing	647'			
Heebner	4315'	-2050'	-2058'	+8'
Lansing	4508'	-2243'	-2255'	+12'
Stark SH	4862'	-2597'	-2601'	+4'
Marmaton	5016'	-2751'	-2759'	+8'
Pawnee	5060'	-2795'	-2803'	+8'
Cherokee	5114'	-2849'	-2855'	+6'
Morrow	5218'	-2953'	-2961'	+8'
Mississippi	5240'	-2975'	-3005'	+30'
Warsaw	6090'	-3825'	-3826'	+1'
Viola	6180'	-3915'	-3918'	+3'
Simpson SS	6431'	-4166'	-4165'	-1'
Arbuckle	6446'	-4181'	-4178'	-3'
TD	5692'			

*Falcon Exploration, Shrauner No. 1-6, 1740'FNL & 330'FWL, Sec. 6 – app. 2640' to the W
NW, K.

b. Elev. 2187'.