

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	PREEDY EAST 1-10
Doc ID	1456378

Tops

Name	Top	Datum
Heebner	4462	-1819
Toronto	4490	-1847
Lansing	4564	-1921
Marmaton	5264	-2621
Cherokee	5440	-2797
Atoka	5700	-3057
Morrow	5756	-3113
Mississippi Chester	5896	-3253
Basal Chester	6106	-3463
Ste. Genevieve	6144	-2501
St. Louis	6236	-3593



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

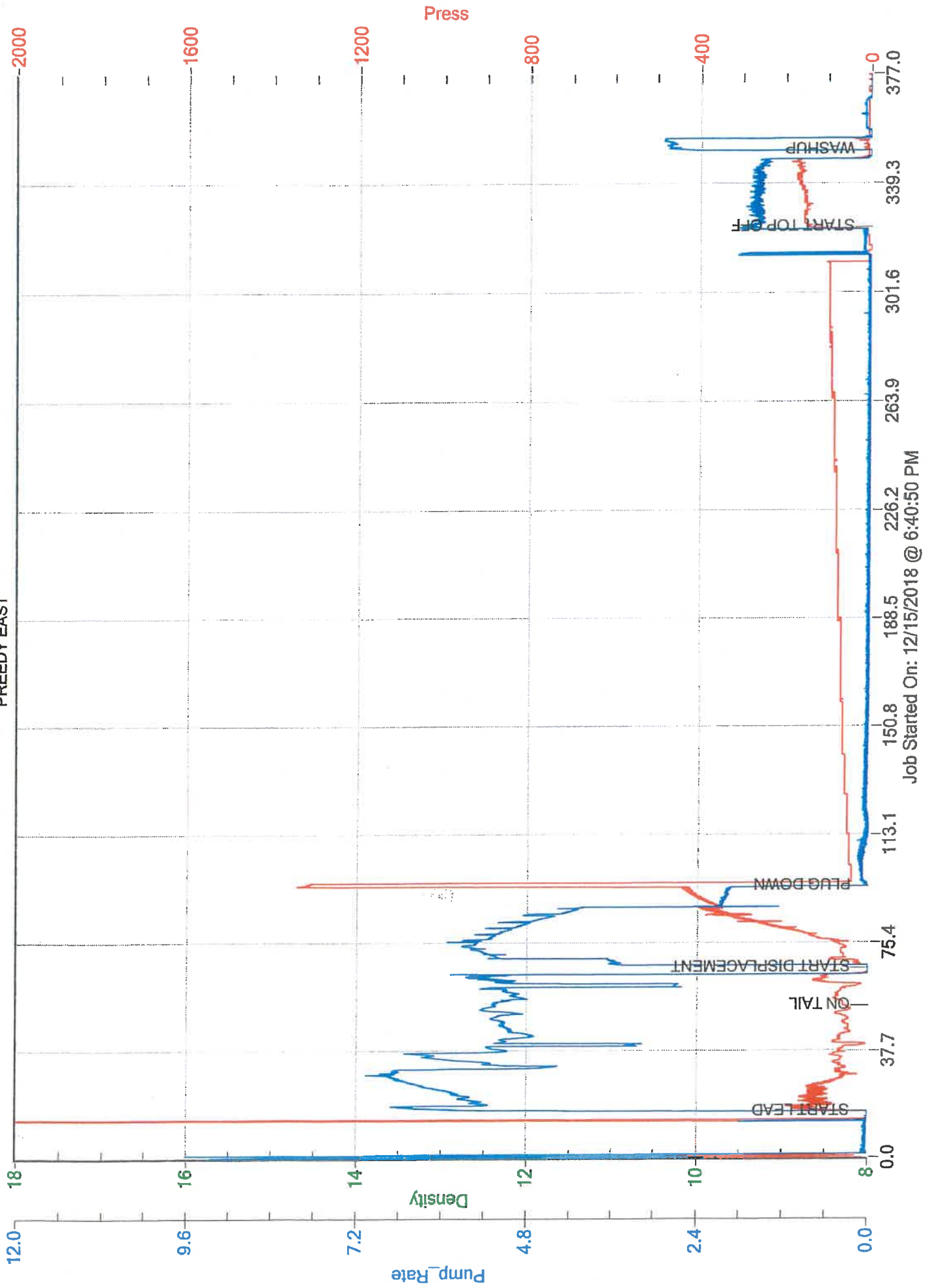
PRESSURE PUMPING Job Log

Customer:	O'Brien Energy	Cement Pump No.:	38119-19570	Operator TRK No.:	96815	
Address:	18 Congress St. Suite 207	Ticket #:	1718-17252 L	Bulk TRK No.:	30463-37547	33021-14284
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Surface Casing			
Service District:		Well Type:	OIL			
Well Name and No.:	Free by East 1-10 Roberts Unit FO 1-4	Well Location:	4,33,29	County:	Meade	State: Ks

Type of Cmt	Sacks	Additives		Truck Loaded On		
ACON	375	3%CaCl, 1/4#POLYFLAKE, .2%WCA1		30463-37547	Front Back	
PREMIUM PLUS	150	2%CaCl, 1/4# POLYFLAKE		33021-14284	Front Back	
PREMIUM PLUS	180	NEAT			Front Back	
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	11.4	2.95	18.1	1106.25	Man Hours:	
Tail:	14.8	1.34	6.33	201	# of Men on Job: 3	
Time (am/pm)	(BPM)	Volume (BBS)	Pumps		Pressure(PSI)	Description of Operation and Materials
			T	C	Tubing Casing	
17:00						ON LOC, SAFTEY MTG, R.U.
18:54					2000	TEST LINES
6:56 PM	5.3				90	START LEAD @ 11.4#
7:34 PM	5.2	197			60	ON TAIL @ 14.8#
7:45 PM		36				SHUT DOWN, DROP PLUG
19:48	5.2				60	START DISPLACEMENT, WASHUP
20:08	2	87			360	SLOW RATE
8:15 PM		97.5			500-1300	PLUG DOWN
20:17						RELEASE PSI, FLOAT HELD
						NO RETURNS TO PIT W.O.C.
11:30						CEMENT ON LOC, RUN 125' 1 INCH
0:05	1.7					START MIXING CEMENT@ 14.8#
0:30		42				CEMENT TO SURFACE ,SHUT DOWN, WASHUP
						JOB COMPLETE
						THANK YOU FOR YOUR BUSINESS!!!

Size Hole	12 1/4	Depth	1571'		TYPE	
Size & Wt. Csg.	8 5/8 24	Depth	1570'	New / Used	Packer	Depth
fbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP
Customer Signature:					Basic Representative:	CHAD HINZ
					Basic Signature:	
					Date of Service:	12/14/2018

OBRIEN
PREEDY EAST





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.:	38117, 19919 4.5Hrs.	Operator TRK No.:	96816	
Address:	18 Congress St. Suite 207	Ticket #:	1718 17249 L	Bulk TRK No.:	30464, 19578 Oscar	30464, 19578
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Production Casing			
Service District:	1718 - Liberal, Ks.	Well Type:	OIL			
Well Name and No.:	Preedy East 1-10	Well Location:	10,33,29	County:	Meade	State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 Poz	50		30464, 19578 Oscar	Front	Back
AA2	165	5% W-60, 10% Salt, .6%C-17, 1/4# Defoamer, 5# Gilsomite, 1/3#SK OWB	30464, 19578	Front	Back
60/40 Poz	50	Rat & Mouse		Front	Back

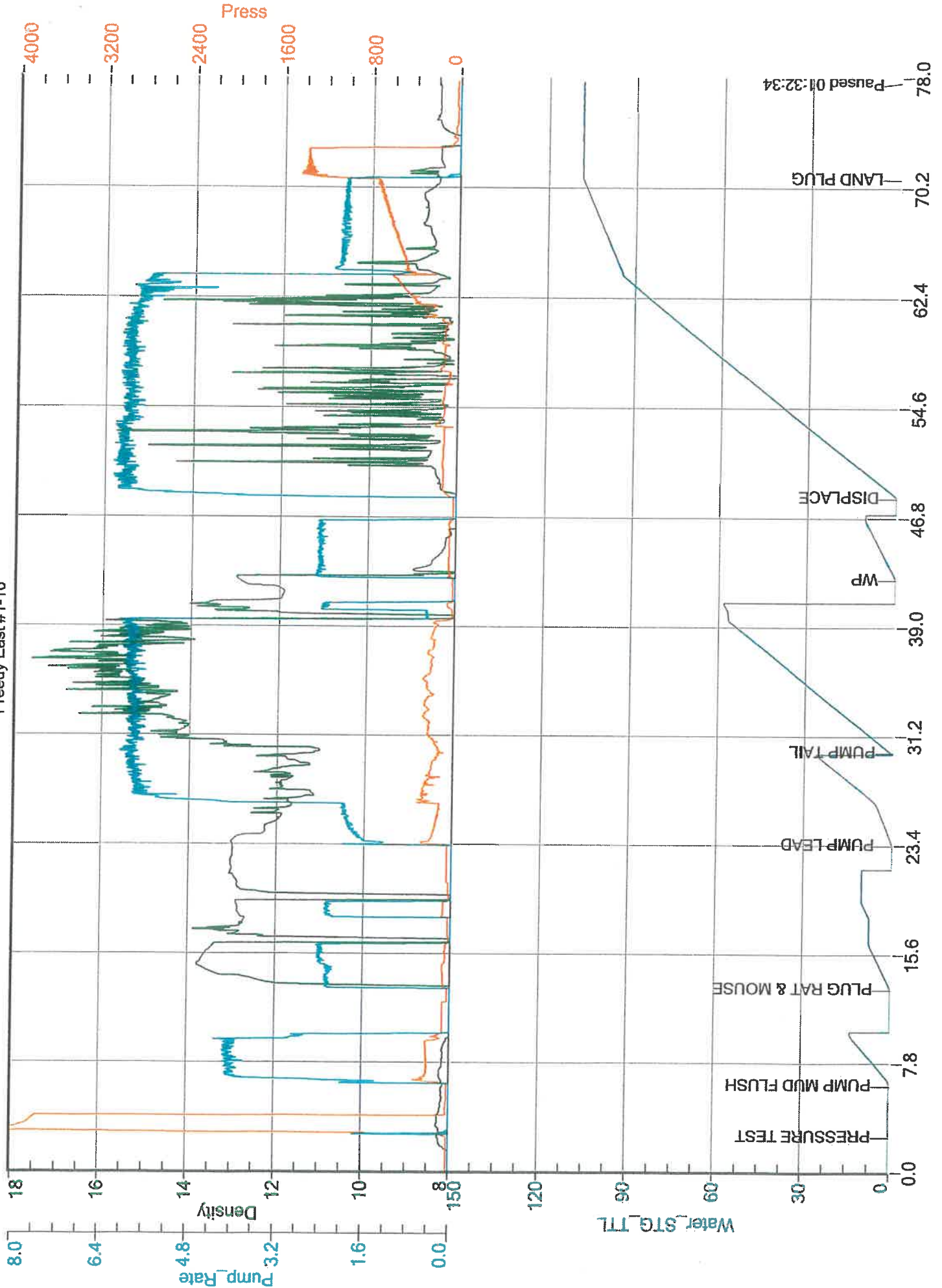
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	12	2.08	11.89	104	TT Man Hours:	29
Tail:	14.8	1.52	6.7	250.8	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
0:15							ON LOCATION & SAFETY MEETING
0:30							RIG UP
12:50 AM							RIG TO CIRCULATE
2:00 AM							RIG TO PT
2:15 AM							PRESSURE TEST TO 4260PSI
2:19	3.9	11.9				250	PUMP 500GALLONS MUD FLUSH
2:26	2.2	12.0 slurry				60	PLUG RAT & MOUSE W/ 50SX @ 14.8#
2:36 AM	6	18.5 slurry				310	PUMP 50SX LEAD @ 12#
2:43	5.9	44.6 slurry				230	PUMP 165SX TAIL @ 14.8#
2:54							SHUTDOWN / DROP PLUG / WP
3:01	6	10				120	DISPLACE W/ 7% KCL WATER
	6	20				120	
	6	30				160	
	5.9	40				130	
	5.9	50				150	
	6	60				120	
	5.9	70				150	
	5.8	80				400	
3:18	5.9	89				510	SLOW RATE TO 2.1BPM @ 480PSI
	2.1	90				490	
3:24	2	99.5				720	LAND PLUG / PRESSURE UP TO 1410PSI
3:26							RELEASE BACK — FLOAT HELD
							JOB COMPLETE

Size Hole	7 7/8"	Depth		TYPE		Plug Container	
Size & Wt. Csg.	4 1/2" 10.5#	Depth	6302.00'	New / Used		Depth	
Landing Press.	659.9psi	Depth				Depth	
Shoe Jt.	43.45'	Type				CIBP	

Customer Signature:		Basic Representative:	Daniel Beck
		Basic Signature:	
		Date of Service:	12/22/2018

O'Brien Energy Preedy East #1-10



O'Brien Energy Resources, Inc.

**Preedy East No. 1-10
Section 10, T33S, R29W**

Meade County, Kansas

December 2018

Well Summary

The O'Brien Energy Resources, Preedy East No. 1-10 was drilled to a total depth of 6315' in the Mississippian St. Louis Formation. It was drilled approximately 2000' to the Northeast of the Patrick, No. 1 Cottrell. The Atoka and Morrow ran 13' high relative to this offset. A Morrow "B" Sandstone came in 2' high, the Chester, 13' low.

A Morrow "A" Sandstone (5782'-5804') noted consists of a Sandstone in 30% of the samples: Light to medium brown, friable, fine lower to very fine upper, well sorted subround grains, siliceous cement, slightly calcareous and glauconitic, clean, excellent intergranular and fine vuggy porosity, light to medium even brown oil stain with live oil and gas bubbles when crushed, dull gold brown hydrocarbon fluorescence (most sandstone), excellent streaming cut, good oil odor, excellent show. A gas kick was noted. This sand was not present in the No. 1 Cottrell.

A Morrow "B" Sandstone(5810'-5816') was noted in a small percentage of samples(2%): White, translucent, clear, friable, fine well sorted grains, excellent intergranular porosity, no visible show although a slight mud gas increase was noted through this interval.

4 ½ production casing was run on the Preedy East No. 1-10 on 12/12/18.

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: Preedy East No. 1-10

API: 15-119-21428

Location: NW SE SW NW, 2250' FNL & 800' FWL, Section 10, T33S, R29W,
Meade County, Kansas – Southeast of Plains.

Elevation: Ground Level 2630', Kelly Bushing 2643'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, double stand,
Toolpusher Emidgio Rojas & Victor Martinez, Drillers: Jose Cervantes,
Alejandro V., Fernando Jurado

Company Man: Dana Greathouse

Spud Date: 12/15/18

Total Depth: 12/21/18, Driller 6315', Logger 6320', St. Louis Formation

Casing Program: 39 joints of 8 5/8", J-55 STC 24Lbs/ft, set at 1571', Plug down 7:45 pm
12/17/18. 4 1/2" production casing set to TD.

Mud Program: Winter Mud, engineer Paul White, displaced 2582'.

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

Samples: 30' to 5700', 20' to TD. Sample cut sent to KGS sample log library.

Electric Logs: Weatherford, engineer Bandar Bin Osfur, Array Induction, Compensated
Neutron/Density, Microlog, Hi Res.

Status: 4 1/2" production casing run to TD on 12/21/18.

WELL CHRONOLOGY

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
12/13			Move to location and rig up. Mix spud mud and spud in 12 1/4" surface hole(7:45 pm).
12/14	985'	985'	Surveys(1/2 deg.).
12/15	1577'	592'	To 1577' and circulate and trip for surface casing and 39 joints of 8 5/8", 24 Lbs/ft J-55 STC casing set at 1571'. Cement did not circulate to surface. Run in with 1" and pump 180 sacks to surface. Wait on cement and nipple up BOP. Drill plug and cement.
12/16	2988'	1411'	Drill 7 7/8" to 2988'. Surveys(1/2 deg.). Displace mud system at 2582'.
12/17	3924'	936'	To 3898' and trip for bailed bit.
12/18	4620'	696'	Condition mud and service rig, change out clutch chain.
12/19	5230'	610'	To 4996' and circulate and wiper trip 30 stands. Survey(3/4 deg.).
12/20	5657'	427'	To 5602' and trip for Bit No. 3 – bit bailed up and missing cutters.
12/21	6315'TD	658'	6315'TD and circulate and wiper trip to 5000' and circulate. Drop survey(1 deg.) and trip for Elogs.
12/22	TD		Run Elogs. Trip in and circulate. Trip out laying down and run and cement 4 1/2" production casing to TD. Rig down.

BIT RECORD

<u>NO.</u>	<u>MAKE HOURS</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	
1	PLT 616		12 1/4"	1577'	1577'	12 1/2
2	PLT 616		7 7/8"	5602'	4025'	84 1/4
3	T506		7 7/8"	6315'	713'	12 1/2
Total Rotating Hours:						109 1/4
Average:						57.8 Ft/hr

DEVIATION RECORD - degree

761' ½, 1577' ¾, 2015' ½, 2582' ½, 3082' ½, 3554' ¼, 3898' ½, 4400' ½, 4691' ¾,
4902' ¾, 6315' 1

MUD PROPERTIES

<u>DATE</u> <u>LBS/BBL</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>
12/14	1264'	9.3	35	9	7	8.5	--	3k	8
12/15	1877'	8.5	28	2	3	8.5	--	3k	--
12/16	3059'	8.9	35	7	15	9.5	--	320k	4
12/17	3924'	8.9	42	11	27	10	40	130k	4
12/17	4018'	8.9	44	11	25	10	20	8k	4
12/18	4677'	9.1	48	16	14	10	8	6k	6
12/19	5270'	9	53	25	15	10.5	5	4K	6
12/20	5824'	8.9	55	62	23	10	5	5K	5

ELECTRIC LOG FORMATION TOPS- KB Elev. 2643'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*No. 1 Cottrell</u>	
			<u>DATUM</u>	<u>POSITION</u>
Casing	1571'			
Heebner	4462'	-1819'		
Toronto	4490'	-1847'		
Lansing	4564'	-1921'		
Marmaton	5264'	-2621'		
Cherokee	5440'	-2797'		
Atoka	5700'	-3057'	-3070'	+13'
Morrow	5756'	-3113'	-3126'	+13'
Morrow "A" SS	5782'	-3139'	NP	
Morrow "B" SS	5810'	-3167'	-3169'	+2'
Mississippi Chester	5896'	-3253'	-3240'	-13'
Basal Chester	6106'	-3463'		
Ste. Genevieve	6144'	-2501'		
St. Louis	6236'	-3593'		
TD	6320'			

*Patrick, No. 1 Cottrell, C E/2 SE, Sec. 9, 33S, 29W, app. 2000' to the SW, KB 2576'.