

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	PREEDY 2-8
Doc ID	1409495

Tops

Name	Top	Datum
Heebner	4436	-1766
Toronto	4462	-1792
Lansing	4582	-1912
Marmaton	5233	-2563
Cherokee	5402	-2732
Atoka	5655	-2985
Morrow	5714	-3044
Mississippi Chester	5822	-3152
Basal Chester	6020	-3350
Ste. Genevieve	6054	-3384
St. Louis	6164	-3494



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.:	70897-19570 4 HRS	Operator TRK No.:	98815
Address:	18 Congress St. Suite 207	Ticket #:	1718-15645 L	Bulk TRK No.:	14354-19578 30464-37724
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Surface Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Preedy 2-8	Well Location:	8-33-29	County:	Meade State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON BLEND	375	3%CaCl, 1/4#POLYFLAKE, .2%WCA-1	14354-19578	Front	Back
PREMIUM PLUS	150	2%CaCl, 1/4#POLYFLAKE	30464-37724	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	1106.25	Man Hours:	36
Tail:	14.8	1.34	6.33	201	# of Men on Job:	4

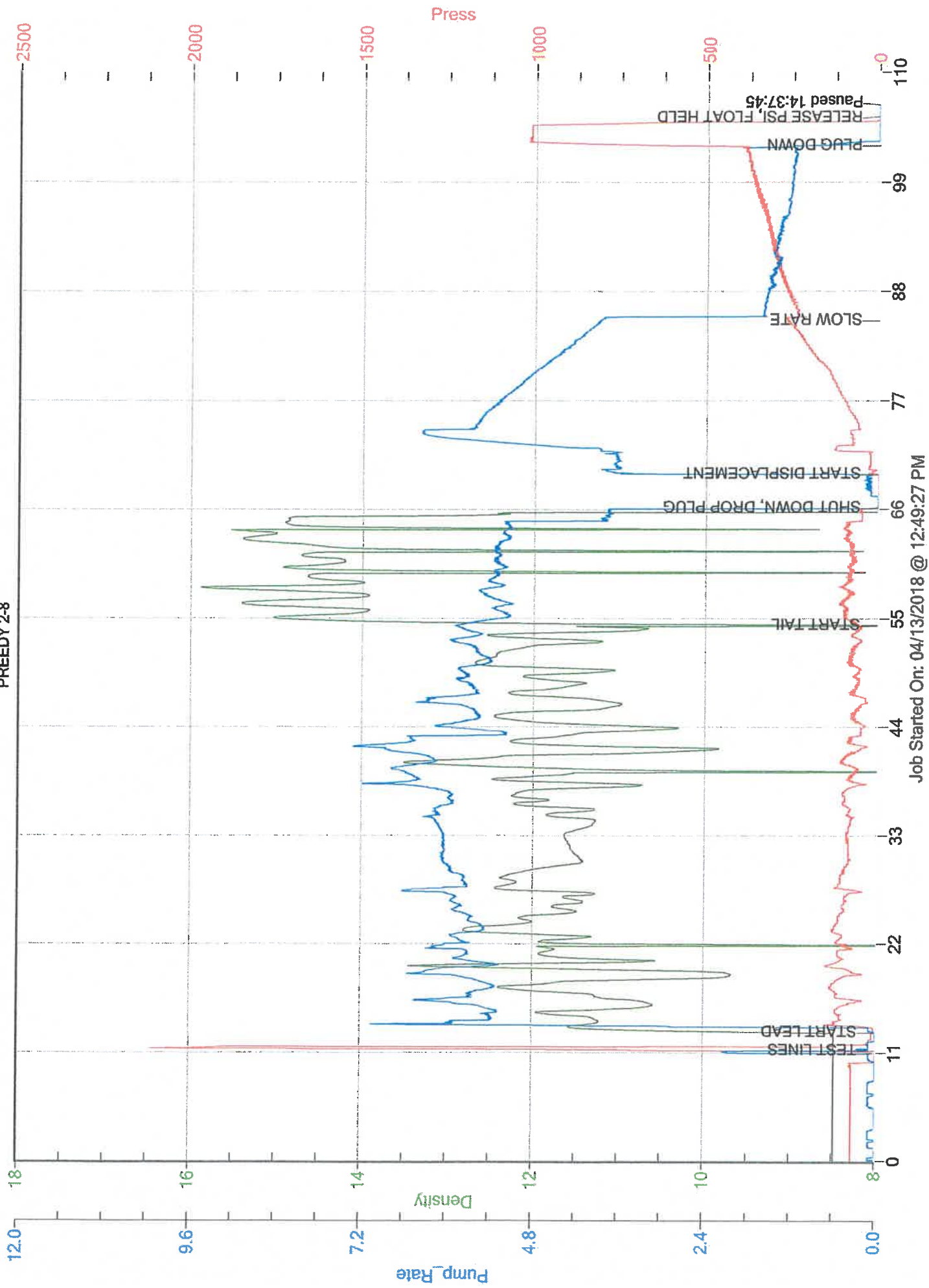
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
11:00							ON LOC, SAFTEY MTG, R.U.
12:50						2100	TEST LINES
12:52 PM	5.4					120	START LEAD @ 11.4#
1:34 PM	5.3	198				100	ON TAIL @ 14.8#
1:46 PM		36					SHUT DOWN, DROP PLUG
13:50	6					80	START DISPLACEMENT, WASHUP
14:06	1.5	75				240	SLOW RATE
2:24 PM		95				400-1000	PLUG DOWN
14:27						1000-0	RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	12 1/4	Depth			TYPE	
Size & Wt. Csg.	8 5/8 24#	Depth	1518.65	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	4/13/2018

O'BRIEN ENERGY

PREEDY 2-8



Job Started On: 04/13/2018 @ 12:49:27 PM



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.:	70897-19570 4 HRS	Operator TRK No.:	96815
Address:	18 Congress St. Suite 207	Ticket #:	1718-15648 L	Bulk TRK No.:	30464-37725
City, State, Zip:	Portsmouth NH 03801	Job Type:	Z42 Cement Production Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Preedy 2-8	Well Location:	8,33,29	County:	Meade
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA-2	185	5%W-60, 10%SALT, .6%C-15, 1/4#DEFOAMER, 5#GILSONITE	30464-37725	Front	Back
60/40 POZ	50			Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.51	6.65	279.35	Man Hours:	22
Tail:	13.5	1.48	7.37	74	# of Men on Job:	3

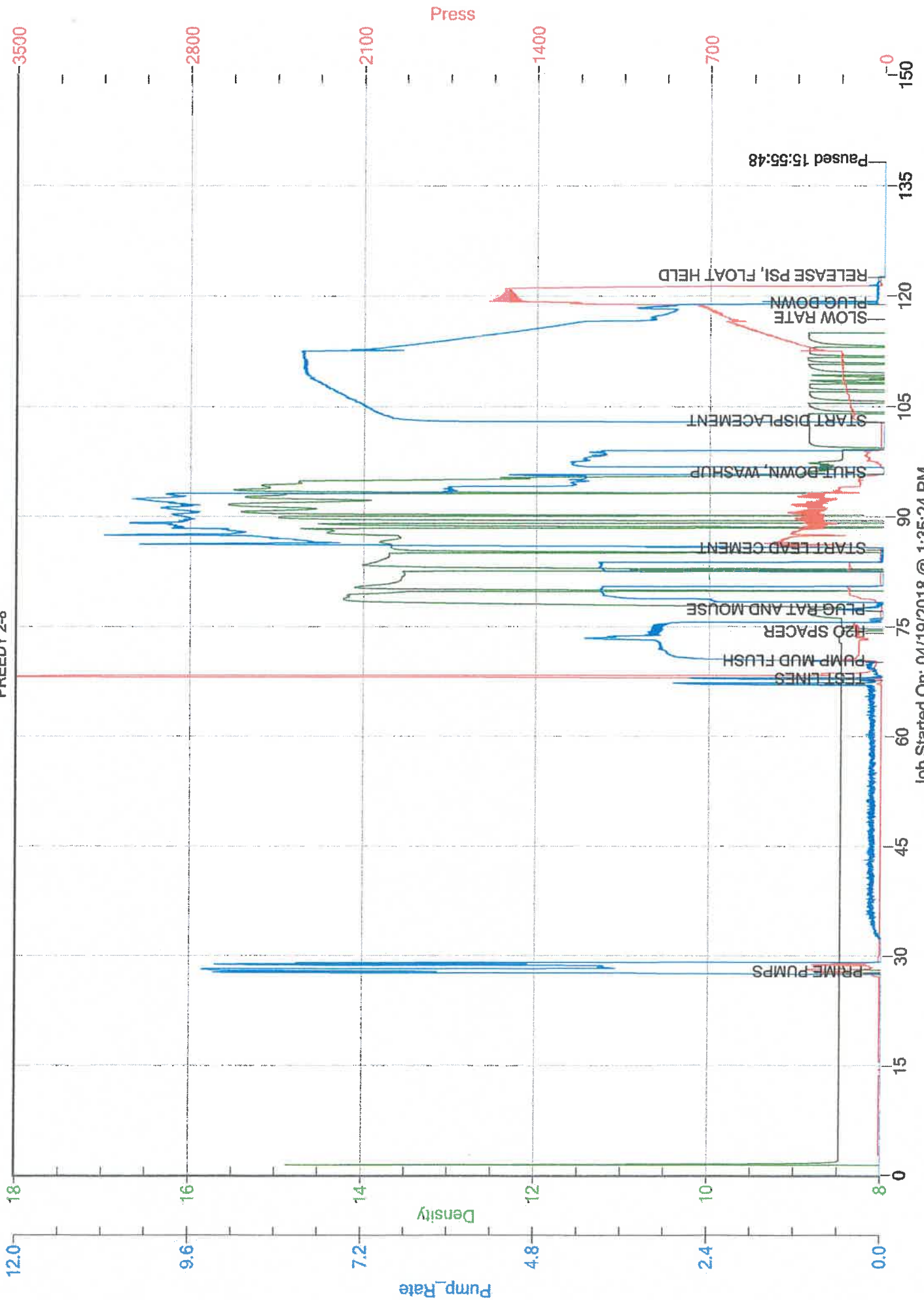
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
11:30							ON LOC, SAFTEY MTG, R.U.
14:34						3580	TEST LINES
2:36 PM	3.5	12				80	PUMP MUD FLUSH
2:40 PM	3.5	5				100	PUMP H2O SPACER
2:45 PM							PLUG RAT & MOUSE
14:52	8					390	START MIXING @ 14.8#
15:02		48					SHUT DOWN, WASHUP, DROP PLUG
3:07 PM	8					140	START DISPLACEMENT W/3%KCL
15:23	3	90				600	SLOW RATE
15:26		100				800-1500	PLUG DOWN
15:30						1500-0	RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!!

Size Hole	7 7/8	Depth	6350		TYPE	
Size & Wt. Csg.	4 1/2 10.5	Depth	6340'	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	4/19/2018

O BRIEN ENERGY

PREEDY 2-8



Job Started On: 04/19/2018 @ 1:35:24 PM

Paused 15:55:48

RELEASE PSI, FLOAT HELD

PLUG DOWN

SLOW RATE

START DISPLACEMENT

SHUT DOWN, WASHUP

START LEAD CEMENT

PLUG RAT AND MOUSE

H2O SPACER

PUMP MUD FLUSH

TEST LINES

PRIME PUMPS

Pump_Rate

Density

Press

O'Brien Energy Resources, Inc.

Preedy No. 2-8

Section 8, T33S, R29W

Meade County, Kansas

April, 2018

Well Summary

The O'Brien Energy Resources Preedy No. 2-8 was drilled to a total depth of 6350' without any problems. It offset the Keystone No. 3-4 by approximately 1000' to the Southwest.

Formation tops generally ran low to this offset. The Heebner and Toronto came in 2' to 4' high. The Marmaton, Cherokee and Atoka ran 13', 12', and 15' low respectively, the Morrow came in 15' low. The Morrow "B" Sandstone came in 12' low and the "C" Sandstone, 8' low. The Basal Chester, Ste. Genevieve and St. Louis came in 13', 16' and 26' low.

The Preedy No. 2-8 ran high relative to the Preedy No. 1-9, 1000' to the Southeast. The Heebner, Toronto and Lansing ran 15' to 13' high. The Cherokee, Atoka and Morrow came in 17', 15' and 13' high respectively. The Morrow "C" Sandstone came in 20' high. The Chester to the St. Louis came in 21' to 33' high.

Excellent hydrocarbon shows occurred in the Morrow "B" and "C" Sandstones. The Morrow "B" Sandstone(5760'-5770') consists of a Sandstone in 30% of the samples: Light to medium mottled brown to gray, occasionally tan to white, friable, very fine upper to fine lower, well sorted subround grains, siliceous cement, slightly calcareous, clean to argillaceous in part, good intergranular porosity, trace very light pale blue hydrocarbon fluorescence in less than 1% of the samples, very faint residual ring cut, no stain, show dissipates rapidly. A 280 Unit gas kick was recorded on the hotwire.

The Morrow "C" Sandstone(5784'-5796'): Sandstone in 10% of the samples: Medium to light brown, friable, fine lower well sorted subround to round grains, siliceous and calcareous cement, fair to good intergranular porosity, trace vuggy porosity, occasionally tight and some clay infill, light brown oil stain and oil sheen and gas bubbles when crushed, bright yellow to orange hydrocarbon fluorescence in all the sandstone, good fast streaming cut, slight oil odor. Two gas kicks of 220 and 160 Units were documented.

4 ½" production casing was run on the Preedy No. 2-8 for the above mentioned Morrow Sandstones.

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 No. 2-8, Angell South Field

API: 15-119-21415

Location: 420'FNL & 335'FEL, Section 8, 33S, R29W, Meade Co. Kansas – Southeast of Plains.

Elevation: Ground Level 2657', Kelly Bushing 2670'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, double stand, Toolpusher Emidio Rojas, Drillers: Victor Martinez, Alejandro V., Fernando Juroeb

Company Man: Dana Greathouse

Spud Date: 4/12/18

Total Depth: 4/18/18, Driller 6350', Logger 6350', St. Louis Formation

Casing Program: 36 joints of 8 5/8", J-55, 24Lbs/ft, set at 1532' with 375 sacks A(3%cc & ¼ lb Poly flake) tail with 110 sacks Premium Plus(2%cc, ¼ bl Poly Flake), cement did circulate, services by Basic.. Plug down , did circulate. 151 joints of 4 ½", 10 ½ Lbs/ft, J55. STC ERW set at 6330'.

Mud Program: Mud Co./Service Mud, engineer Justin Whiting, displaced 2582'.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 4000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' to 5700', 20' to TD. One set dry cut sent to KGS Sample Log Library.

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

Status: 151 joints of 4 ½" production casing set to TD on 4/19/18 to production test the Morrow "B" and "C" Sandstones.

WELL CHRONOLOGY

AM Report

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
4/11			Move to location and rig up.
4/12	700'	700'	Move to and rig up rotary tools. Mix spud mud. Drill rat hole and mouse hole and drill 12 1/4" to 700'. Survey(1/2 deg.).
4/13	1540'	840'	To 1540' and circulate. Drop survey(3/4 deg.) and trip for surface casing. Run and cement 36 joints of 8 5/8", J-55, 24Lbs/ft, set at 1532' with 375 sacks A(3%cc & 1/4 lb Poly flake) tail with 110 sacks Premium Plus(2%cc, 1/4 bl Poly Flake), cement did circulate, services by Basic.. Plug down , did circulate. Wait on cement and nipple up BOP. Trip in and pressure test BOP.
4/14	2615'	1075'	Pressure test BOP to 800 PSI/15 Min. Drill plug and cement and 7 7/8" to 1607' and trip for Bit No. 3. Work on and change out mud pump. Clean pits at 2582' and displace mud system. Surveys(3/4 deg.).
4/15	4000'	1385'	Trip for Bit No. 3. Clean pits and survey(3/4 deg.).
4/16	5090'	1090'	Survey(1 deg.). To 5003' and circulate and wiper trip 37 stands to surface. Circulate and drill to 5090'.
4/17	6070'	980'	Survey(1 1/4 deg.) and clean suction.
4/18	6350'TD	280'	Clean pits. TD and circulate. Wiper trip 24 stands and circulate. Drop survey(1 1/4 deg.) and trip for logs and run Elogs.
4/19	TD		Run logs. Trip in and circulate. Trip out laying down and run and cement 151 joints of 4 1/2" production casing to TD. Plug down 3:30 PM. Rig down.

BIT RECORD

<u>NO.</u>	<u>MAKE HOURS</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>		
1	J2		12 1/4"	1540'	1540'	13 1/2	
2	RR		7 7/8"	1607'	67'	2 1/4	
3	PLT		7 7/8"	6350'	4743'	85 1/2	
						Total Rotating Hours:	101 1/4
						Average:	62.7
						Ft/hr	

DEVIATION RECORD - degree

508' ½, 1008' ¾, 1540' 1, 2582' 1, 3619' ¾, 4593' 1, 5600' 1 ¼, 6350' 1 ¼

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>
4/12	0'	Make up water							
4/13	1540'	9.7	36	4	6	7.5	n/c	22.2K	8
4/14	1903'	9.3	28	1	2	7.0	n/c	61.2K	0
4/15	3182'	9.1	42	13	14	9.5	14.4	8.4K	3
4/16	4523'	9.4	56	17	18	9.5	10.8	7.2K	3
4/17	5563'	9.3	49	14	15	10.0	8.4	3.7K	4
4/18	6293'	9.2	53	17	18	10.5	6.8	3.1K	3

ELECTRIC LOG FORMATION TOPS- KB Elev. 2670'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Preedy No. No. 1-9</u> <u>DATUM</u>	<u>POSITION</u>
Casing	1532'			
Heebner	4436'	-1766'	-1781'	+15'
Toronto	4462'	-1792'	-1807'	+15'
Lansing	4582'	-1912'	-1925'	+13'
Marmaton	5233'	-2563'	-2573'	+10'
Cherokee	5402'	-2732'	-2749'	+17'
Atoka	5655'	-2985'	-3000'	+15'
Morrow	5714'	-3044'	-3057'	+13'
“B” SS	5760'	-3090'		
“C” SS	5784'	-3114'	-3134'	+20'
Mississippi Chester	5822'	-3152'	-3185'	+33'
Basal Chester	6020'	-3350'	-3373'	+23'
Ste. Genevieve	6054'	-3384'	-3415'	+31'
St. Louis	6164'	-3494'	-3515'	+21'
TD	6300'			

*O'Brien Energy Resources, Preedy No. 1-9, - approximately 1000' to the SE, KB Elevation 2645'.