Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1233027

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 #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	_ GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
	Field Name:
New Well Re-Entry Workover	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	_
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Produce	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #: SWD Permit #:	
SWD Permit #: ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	— Quarter Sec TwpS. R East West
Spud Date orDate Reached TDCompletion Date orRecompletion DateRecompletion Date	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:

	Page Two	1233027
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS. Chow important tang of formations populated	Dotail all cores Report al	I final copies of drill stome tasts giving interval tested, time tool

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 (Attach Additional Sh	eets)	Yes No	L	og Formatio	on (Top), Depth a	nd Datum	Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	9		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-o	RECORD Ne		ion, 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 / SQU	EEZE RECORD			
Purpose:	Depth Ton Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

 No
 (If No, skip questions 2 and 3)

 No
 (If No, skip question 3)

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge P Each Interval I		e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner R		No	
Date of First, Resumed	I Product	ion, SWD or ENHI	٦.	Producing N	/lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DIODOOITI		24.0		-	METHOD					
DISPOSITI	d 🗌 I	Jsed on Lease		Dpen Hole Dther <i>(Specify)</i>	Perf.	OF COMPLE	Comp.	Commingled (Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Mohler 1-34
Doc ID	1233027

All Electric Logs Run

Neutron		
Induction		
Micro		
Sonic		

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Mohler 1-34
Doc ID	1233027

Tops

Name	Тор	Datum
Heebner	4381'	-1875
Toronto	4412'	-1906
Lansing	4482'	-1976
Marmaton	5190'	-2684
Cherokee	5386'	-2880
Atoka	5584'	-3078
Morrow	5713'	-3207
Morrow "A" SS	5740'	-3234
Morrow "B" SS	5752'	-3246
Mississippi Chester	5815'	-3309
Ste. Genevieve	6148'	-3642
St. Louis	6251'	-3745

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Mohler 1-34
Doc ID	1233027

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	-	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	24	1487	Acon Blend		3% CaCl & 1/4# floseal
Production	7.875	4.5	10.5	6445	AA2 Blend	275	

Control International Control Internation International Control International Conternatinteratinteration Control International Control Internation	(B)	BA		ъм 9					Comont Poport
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Customor	Libera	l, Kansas		Lease No	<u></u>		Date	Cement Report
Casing GSR Depth H $S7$ County M $Rade$ State KS Jab Type Z. H2 Formation Lagal Description 34.33-24 Pipe Data Perforating Data Comment Data Casing are SSR Other H $S7$ Depth Pipe Data Perforating Data Comment Data Casing are SSR Other H ST Casing Tubing Size Shots/Ft Lead 23.58 re 1.19 We Casing Tubing Size Shots/Ft Lead 23.58 re 1.19 We Noting Tubing Size Shots/Ft Lead 23.58 re 1.19 We Volume From To 3.4.30 We we Volume Pressure Pressure Pressure From To The Colspan= Kig up Tubing Tubing We		Sprien	Chersy	(and Without the co	
Jab Type Z. 4/2 Formation The Colspan="2">The Colspan="2" Additional Connection of the Colspan="2" Additional Colspan="2	1		Death 171			-34	ana para na mangana kata na mangana kata na ka	1	
Pipe Data Perforating Data Cement Data Casing use S/g 24# Tubing Size Shots/Ft Lead 3.25 or e, 11, 946 Casing use S/g 24# Tubing Size From To 21. 04.1 Casing use S/g 2.4# Tubing Size From To 21. 04.1 Max Press Max Press From To A - Can Bload Max Press Max Press From To A - Can Sload Max Press Max Press From To A - Can Sload Max Press Max Press From To A - Can Sload Max Press Max Press From To A - Can Sload Max Press Max Press From To A - Can Sload Max Press Max Press From To A - Can Sload Max Press Pader Depth From To A - Can Sload Max Press Pader Depth From To A - Can Sload Scoad Max Pressure Pader Depth From To A - Can Sload Scoad A - Can Sload Scoad A - Can Sload A - Ca	8	18	Deptn 14	81'				$ $ \sim	
Casing size $\sqrt{5/g}$ $2/4^{\text{cm}}$ Tubing Size Shots/Ft Lead 32557 e. 11. Spectra 25. C. C. Mit Color fields, 25. C. Mit Color fields, 25. C. C. Mit Color field, 25. C. Mit Color fields, 25. C. Mit Color field, 25. C. Mit Color fields, 25. C. Mit Color field, 25. C. Mit Color fields, 25. C. Mit Color field, 25. C. Mit Color fields, 25. C. Mit Color field, 25.	Job Type Z	.42		Formation			Legal Description	34.	33-29
Volume 92.66 Volume From To A-Con Blend Wax Press Max Press From To Tail In 1205 of US My Well Connection Annulus Vol. From To To Tail In 1205 of US My Well Connection Annulus Vol. From To To Prenium Aus Connect To Pressure Debts. Pumbed Rate On (a cation - Kig up 1300) Savete Log Wressure Test Wressure Test 1335 2500 Wressure Test 1443 200 722 R Start Displacement 1445 100 72 R Start Displacement 1445 100 72 R Start Displacement 150 Start Displacement 1445 0 Release Pressure floor Held Shut Down Kig Down 1455 0 Release Pressure floor Held Shut Down Kig Down Shut Down	1					1	Perforatin	g Data	
Volume 92.66 Volume From To A-Con Blend Wax Press Max Press From To Tail In 1205 of US My Well Connection Annulus Vol. From To To Tail In 1205 of US My Well Connection Annulus Vol. From To To Prenium Aus Connect To Pressure Debts. Pumbed Rate On (a cation - Kig up 1300) Savete Log Wressure Test Wressure Test 1335 2500 Wressure Test 1443 200 722 R Start Displacement 1445 100 72 R Start Displacement 1445 100 72 R Start Displacement 150 Start Displacement 1445 0 Release Pressure floor Held Shut Down Kig Down 1455 0 Release Pressure floor Held Shut Down Kig Down Shut Down	Casing size	85/8	24#	Tubing Size			Shots	/Ft	Lead 3255x e 11.4994
Volume 92.66 Volume From To A-Con Blend Wax Press Max Press From To Tail In 1205 of US My Well Connection Annulus Vol. From To To Tail In 1205 of US My Well Connection Annulus Vol. From To To Prenium Aus Connect To Pressure Debts. Pumbed Rate On (a cation - Kig up 1300) Savete Log Wressure Test Wressure Test 1335 2500 Wressure Test 1443 200 722 R Start Displacement 1445 100 72 R Start Displacement 1445 100 72 R Start Displacement 150 Start Displacement 1445 0 Release Pressure floor Held Shut Down Kig Down 1455 0 Release Pressure floor Held Shut Down Kig Down Shut Down	Depth 149	371		Depth		From		То	2-1. WCA.1
Max Press Max Press From To Tail in uscose of use are 200 g/use are 200 g	Volume	92 hb	1	Volume		From		То	
Plug Depth 445 / Packer Depth From To Previum Aus Camed Time Casing Tubing Pressure Bbls. Pumbed Rate On (a cq fion - Kig up) 130 0 0 Satety Meeting 1335 2500 - YteSSVICE Test 1337 100 170 5 Pump 325 5x 0 11.4 PPG 1425 100 72 22 2 Start Displace ment 1443 200 72 22 2 Slow Rate 2 bpm 1474 200 82 1 Slow Rate 1 bpm 1458 0 Release Pressure float Held 1458 0 Release Pressure float Held Shut Dewn Kig Dewn 1458 0 Shut Dewn 1458 0 Shut Dewn 150	Max Press	100		Max Press		From		То	Tail in 1505 0148 44
Time Casing Pressure Tubing Pressure Bbls. Pumbed Rate Service Log 1/30 0 $0n (acqtion - Kig up)$ $3atety Meething yeessing 1/30 3atety Meething yeessing yeessing yeessing 1/30 3ce yeessing yeessing yeessing 1/30 3ce yeessing yeessing yeessing 1/30 3ce yeessing yeessing yeessing 1/335 2ce yeessing yeessing yeessing 1/335 2ce yeessing yeessing yeessing yeessing 1/335 2ce yeessing $	Well Connec	tion		Annulus Vol.	gina talam kalan menyagan belgarikak menyak kalang da	From	ar Calanan ga daga sa tingga panangana	То	21CC, 14# Poly Plake
TimeCasing PressureTubing PressureBbis. PumbedRateService Log $ 1.30$ On Location - Kig up 1.300 Satety Meeting 1.300 Satety Meeting 1.335 2500Yre5Svie Test 1.337 100170 $1/10$ S $1/10$ S $1/15$ 1003.5 $1/12$ Diap	Plug Depth	4450'		Packer Depth	·	From	an a	То	Picmium Aus Coment
130 130 130 130 1335 1335 100 170 170 170 170 170 170 170	Time	Casing Pressure		Bbls. Pumbed	Rate			Servic	•
1300 Safety Meeting 1335 2500 Pressure Test 1337 100 170 Sump 325 SK @ 11.4 PPG 1337 100 35 Stump 325 SK @ 14.8 PPG 1415 100 35 Stump 150 SX @ 14.8 PPG 1423 Diop Plug 1423 Diop Plug 1423 Start Displacement 1443 200 7282 Slow Rate 2 bpm 1443 200 82 I Slow Rate 2 bpm 1458 0 Release Pressure float Held Shut Down Rig Down Shut Down Rig Down 1458 0 Shut Down Rig Down Saturdary Shut Down Rig Down Saturdary Shut Down Rig Down Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Saturdary Satury Saturdary	1130					O_n/i	ration	1	
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$\begin{array}{c ccccc} 1337 & 100 & 170 & 5 & fump & 325 & 5x & 0 & 11.4 & fl & 1415 \\ 1415 & 100 & 35 & 5 & fump & 150 & 5x & 0 & 14.8 & fl & 1425 \\ 1423 & & & & & & & & & & & & & \\ 1425 & 100 & 1 & 5 & & & & & & & & & \\ 1443 & 200 & 72 & & & & & & & & & & & \\ 1444 & 200 & & & & & & & & & & & & \\ 1444 & 200 & & & & & & & & & & & & \\ 1444 & 200 & & & & & & & & & & & & \\ 1445 & 100 & & & & & & & & & & & & \\ 1453 & 1100 & & & & & & & & & & & & & \\ 1458 & 0 & & & & & & & & & & & & & \\ 1458 & 0 & & & & & & & & & & & & & & & & \\ 1458 & 0 & & & & & & & & & & & & & & & & \\ 1458 & 0 & & & & & & & & & & & & & & & & & $	1.375	2500			1			ς <u>μ</u>	
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Driver Names Richer Victor Jesus	Service Unit	s 3875	17872	14354	789	40			
	Driver Name	s R.h		Victor					

Customer Representative

Jerry Bernet-Station Manager

Ruben Martinez Cementer Taylor Printing, Inc.

Customer	(0)	il, Kansas u <i>Erul v</i>	~ / /	Lease No.		Date	Cement Report 8/24 - ⁸ /28
Lease		U FILL	<u>gy</u>	Well #	-311	Service Recei	
Casing	Monla 41/2" 10,5#	Depth /	447	Соипту	pq Lada	State 12	1717-06131A
Job Type	0 1 1		Formation		<u>Leade</u>	Description 34/	
	Producti	ow Pipe I			<u>_</u>		53/29
Casing sit	20 4/2" 1	4 	Tubing Size			orating Data	Cement Data
Depth		6/12#	Depth		From	Shots/Ft	Lead 275 skAAZ
Volume	6447		Volume		From	То	
Max Pres	101.8		Max Press	and the source of the surgery	From	То	$\frac{1.51ft^3}{\text{Tail in}} \qquad 6.64$
Well Conr	SUU	DS1	Annulus Vol.	and the state of the	From	То	
Plug Dept			Packer Depth		From	To	
	0905			η			
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate		Service	Log
8:00					Onloca	tion 1	
9:30					Spot in	Safety Nta	
9:45	-				Risip	69	
00:10					Screthin	Its w/Ris	(New)
1/15					Pressure	125+ 3000	251
1:30	340		IZBBL	3BPM	Start Pur		ush,
1:45	120		8 BBL	Zibbpy	6. 1	emerting Rat	+ Moise hole
1157			1	3BPM			mping Coment
2:30				1	Drop plug	Washup to	Pit
2:35					Start	Displacemen	<u>ار</u>
	110		10	5		- sp merver	
	240		20	5.5			
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*	180		60	5.8			
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	690	ىرىمەتىيى بەلەرلىيىتى بىلەللەك مەلەللەك مە	90	5.6			
	700		92	2,2	Ceduce R	. 10	
	900		102	0			
3:15	1500		102		Processo		
3120	1.000				10	on Plug Back Plug He	lation 11
Service U	nits 865	12	38114/19919	111255 12	Mase ,	DUCK Plught	210 Job complete
Driver Nan	6		Daniel B.	14355/3 Victor	1991C		

Customer Representative

Station Manager

Cementer Taylor Printing, Inc.

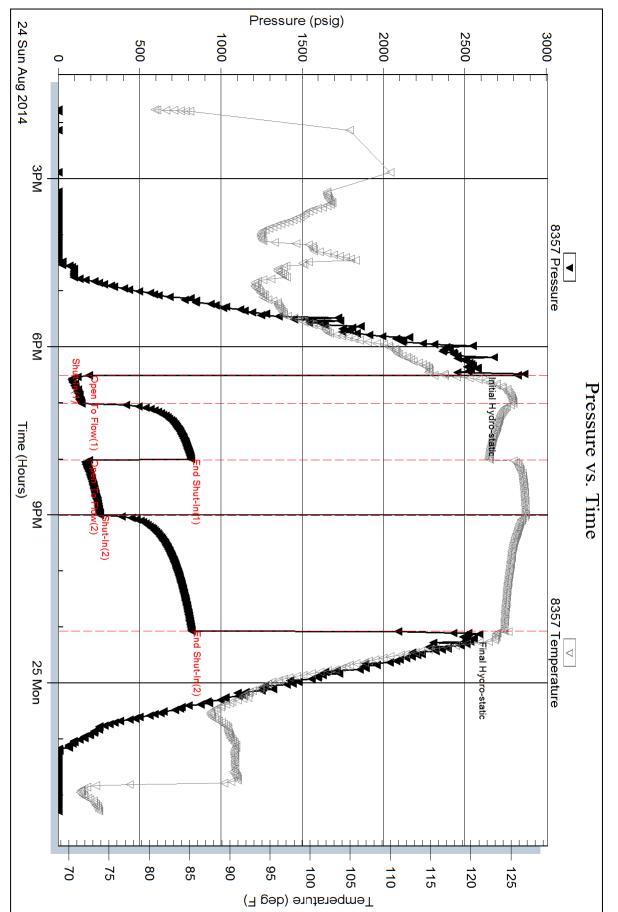
RILOBITE	DRILL STEM TES	ST REP	ORT					
	O Brien Energy Resources, Co.	O Brien Energy Resources, Co.			S34-33s-29w Meade, KS			
ESTING , IN	To Congress OL		Мс	ohler 1-3	34			
	Suite 207 Portsmouth, NH 03801-4091		Job	Ticket: 57	7379	DST#: 1		
	ATTN: Roger Pearson / Pete		Tes	t Start: 20	014.08.24 @	2 13:46:00		
GENERAL INFORMATION:								
Formation:MarmatonDeviated:NoWhipstock:Time Tool Opened:18:30:30Time Test Ended:02:17:49	ft (KB)		Tes	ster:	Conventiona Chuck Smith 61	al Bottom Hole (Initial) n		
Interval:5248.00 ft (KB) ToTotal Depth:5265.00 ft (KB) (Hole Diameter:7.88 inches He			Ref	erence Ele KB 1	evations: to GR/CF:	2506.00 ft (KB) 2493.00 ft (CF) 13.00 ft		
Serial #: 8357 Inside Press@RunDepth: 258.32 psig Start Date: 2014.08.24 Start Time: 13:46:02 TEST COMMENT: 30- B.O.B. @ 4	2014.08.25 02:17:49	Capacity Last Cali Time On Time Off	ib.: Btm:	2014.08.24	8000.00 psig 2014.08.25 @ 18:22:30 @ 23:06:40			
60- 11" Return 60- B.O.B. @ 1 120- B.O.B. @	3/4 min. Pressure TSTM 3 min.	T						
Pressure vs V 857 Pressure	Time 3357 Temperature				RE SUMM			
3000		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotati	on		
2:00	120	0	2580.41	114.71	1 1			
	115	8	189.00 143.16	115.41 125.28				
		99	816.55	125.20				
	- 105	99	188.18	122.31	Open To F	Flow (2)		
		159 282 285	258.32 819.27 2521.46	126.79 124.14 123.22	End Shut-	In(2)		
300 								
Recovery	,		ļ	Ga	↓ Is Rates			
Length (ft) Description	Volume (bbl)			Choke (ure (psig) Gas Rate (Mcf/d)		
0.00 RW: .080 @ 68 Degree	. ,	L		_ `	·]			
366.00 MW 5m 95w	3.49							
124.00 GMW emulsion 10g 15r	n 35w 40 emulsipr1.74							
45.00 GMW emulsion 30g 15r	n 20w 35 emulsior0.63							
0.00 4703' GIP	0.00							

		DR	ILL STEM TEST REPORT	l	F	LUID SUMMAR	
RILOBITE		O Brie	n Energy Resources, Co.	S34-33s-29w Meade, KS			
			ngress St.	Mohler 1-	34		
		Suite 2 Ports n	207 nouth, NH 03801-4091	Job Ticket: {	57379	DST#:1	
			Roger Pearson / Pete	Test Start: 2	2014.08.24 @ 13:	:46:00	
Mud and Cเ	shion Information						
• •	el Chem		Cushion Type:		Oil API:	deg API	
/lud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	100000 ppm	
'iscosity:	48.00 sec/qt		Cushion Volume:	bbl			
Vater Loss:	9.18 in ³		Gas Cushion Type:				
lesistivity:	ohm.m		Gas Cushion Pressure:	psig			
alinity: ilter Cake:	4800.00 ppm 1.00 inches						
Recovery In	formation						
			Recovery Table		-		
	Leng ft		Description	Volume bbl			
		0.00	RW: .080 @ 68 Degrees F = 100000 PPM	0.00	2		
		366.00	MW 5m 95w	3.49	4		
		124.00	GMW emulsion 10g 15m 35w 40 emulsion	1.73	-		
		45.00	GMW emulsion 30g 15m 20w 35 emulsion	0.63			
	L Total Length:	0.00	4703' GIP 5.00 ft Total Volume: 5.864 bbl	0.00	<u> </u>		
			Num Gas Bombs: 0	Serial #			
	Num Fluid Sam						
	Num Fluid Sam Laboratory Nar		Laboratory Location:				
	Laboratory Nar	ne:	Laboratory Location: ampler: 680 psi, 33 CUft, 100ml condensate,19				
	Laboratory Nar	ne:					
	Laboratory Nar	ne:					
	Laboratory Nar	ne:					
	Laboratory Nar	ne:					
	Laboratory Nar	ne:					
	Laboratory Nar	ne:					
	Laboratory Nar	ne:					
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Printed: 2014.08.25 @ 05:10:23

Ref. No: 57379





Mohler 1-34

DST Test Number: 1

Serial #: 8357 Inside O Brien Energy Resources, Co.

O'Brien Energy Resources, Inc. Mohler No. 1-34 Section 34, T33S, R29W Meade County, Kansas August, 2014 Well Summary

The O'Brien Energy Resources, Mohler No. 1-34 was drilled to a total depth of 6453' in the St. Louis Formation with no problems and in a record rotating time of 74 ³/₄ hours for an average of 86.3' per hour. Appreciation to Duke Rig 9 hands.

Formation tops ran 2' low to 5' high from the Heebner to Morrow relative to the Getty Oil, Mohler No. 4, approximately 1320' to the Northeast. The Chester came in 8' low. The Marmaton "C" Zone came in 9' high.

Several quality hydrocarbon shows were documented during the drilling of the test. One of the primary objectives was the Marmaton "C" Zone(5254'-5262') and consists of a very fossiliferous Limestone: Light brown to buff, white, moderate to coarsely crystalline in part, brittle, clean, subchalky, fossiliferous and oolitic with excellent interparticle and occasional moldic porosity, trace intercrystalline and vuggy porosity, bright light yellow hydrocarbon fluorescence in 5% of the samples, good streaming cut, gas bubbles when crushed, trace light brown oil stain, excellent oil odor. A 180 Unit gas kick was documented.

This interval was drilled stem tested and recovered gas to surface in 24 minutes, 366' of muddy water, 169' of gassy mud and water cut emulsion. The sample chamber contained 680 PSI, 32 cubic feet of gas and 100 ml of condensate. No water was recovered, and with shut in pressures of 819 PSI.

An Upper Morrow Sandstone was documented(5740'-5745'): Clear to white, speckled green, white, friable, very fine upper, well sorted subround gains, siliceous cement, clean, good intergranular porosity, light gold hydrocarbon fluorescence, good streaming cut, oil stain and trace live oil. A 120 Unit gas increase occurred.

The Morrow "B" Sandstone(5752'-5774') contained shows as documented on the mudlog.

The Upper Chester(5829'-5846') consists of a Limestone: Medium to light mottled brown, buff, microsucrosic in part, subchalky, fossiliferous, trace intercrystalline and fine vuggy porosity, light speckled blue hydrocarbon fluorescence in 15% of the samples, slow streaming cut, light brown oil stain. Gas increases of up to 300 Units were documented.

An 80 Unit gas increase and sample show occurred from a Lower Chester Sandstone(6069'-6075'): Medium brown with oil stain, slightly friable, fine well sorted grains, trace intergranular porosity, even dull gold brown hydrocarbon fluorescence and excellent streaming cut, brown matrix oil stain and live oil.

The Basal Chester interval(6085'-6132') contained its characteristic hydrocarbon shows with gas increases of up to 640 Units.

A interesting show occurred in the St. Louis(3625'-6332') and consists of a Limestone: Mottled brown buff, biomicrite, brittle, clean, very fossiliferous with interpartical and trace intecrystalline and vuggy porosity, light yellow to orange hydrocarbon fluorescence and excellent streaming cut, brown oil stain and live oil, slight oil odor. A 80 Unit gas increase was noted.

Additional minor shows were documented(attached mudlog).

4 ¹/₂" production casing was run on the Mohler No. 1-34 to further evaluate the above mentioned shows. 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:	Mohler No. 1-34, Mohler Field
API:	15-119-21371
Location:	660' FSL & 900' FEL, Section 34, T33S, R29W, Meade County, Kansas – South of Meade.
Elevation:	Ground Level 2493', Kelly Bushing 2506'
Contractor:	Duke Drilling Rig No. 9, Type: Double jacknife, double stand, ToolpusherEmidgio Rojas, Drillers: Omar Garcia, Alejandro V., Fernando Jurado
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	8/20/14
Total Depth:	8/26/14, Driller 6453', Logger 6453', St. Louis Fm.
Casing Program:	35 joints of new 8 5/8", J55, 24Lbs/ft, set at 1495', 4 ¹ / ₂ " production casing set to TD.
Mud Program:	Mud Co./Service Mud Inc., Engineer Justin Whiting, mud up 4000'.
DST:	Trilobite Testing engineer Chuck Smith, (5248'-5265'), Marmaton "C"
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.
Samples:	30' to 4600', 20' to 5800', 10' to TD. Dry cut sent to KGS sample log library.
Electric Logs:	Weatherford, engineer Ben Weldin, 1) Array Induction, 2) Neutron Density, 3) Microlog, 4) Sonic – Hi Res. repeat.
Status:	$4 \frac{1}{2}$ " production casing set to TD on $\frac{8}{27}/14$.

WELL CHRONOLOGY

6 AM DATE DEPTH FOOTAGE RIG ACTIVITY

8/20 490' 490' Rig down and move to location and rig up rotary tools. Pump water and mix spud mud. Drill rat hole and mouse hole and spud in 12 ¹/₄" surface hole to 490'.

8/21 1495' 1005' Survey(1 ¹/₄ deg.). To 1495' and circulate and clean hole. Trip out and run and cement 35 joints of new 8 5/8" J-55 surface casing set at 1492' with 325 sacks A Con Blend and tail with 150 Premium Plus with centralizers on joints 1, 3, 5 and 7. Plug down 3PM. Wait on cement and nipple up BOP.

8/22 3230' 1735' Trip in and pressure test BOP to 300 PSI for 15 minutes. Drill plug and cement and 7 7/8" hole to 1820'.

8/23 4790' 1560' Survey(1 ¹/₄ deg.) and service rig and clean suction.

8/24 5067' 277' To 5004' and wiper trip 40 stands. Circulate for samples at 5224' and 5265' and circulate and condition mud. Short trip 6 stands and circulate. Drop survey(1 deg.) and trip for DST No. 1(5248'-5265') and run test – gas to surface in 24 minutes.

8/25 6050' 983' Run test and pull and lay down test tool. Trip in and break circulation at 2631' and circulate on bottom and drill to 6050'. Circulate for samples at 5732' and 5744'. To 6050'.

8/26 6453'TD 403' To 6453'TD and circulate and condition hole. Wiper trip 40 stands and circulate. Drop survey(1 deg.) and trip out and run Elogs.

8/27 TD Trip in and circulate and wait on orders. Trip out laying down and run and cement production casing to TD. Rig down.

BIT RECORD

<u>NO.</u>	MAKE	TYPE	<u>SIZE</u>	<u>OUT</u>	FOOTAGE	HOURS
1 2 3		V273 228RS VLT 616	12 ¼" 7 7/8" 7 7/8"	1495' 1820' 6453'	1495' 325' 4633'	11 ³ ⁄ ₄ 1 ¹ ⁄ ₄ 61 ³ ⁄ ₄
				Total Rotatin Average:	g Hours:	74 ¾ 86.3 FT

MUD PROPERTIES

DATE DEPT	<u>TH</u> <u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>рН</u>	WL	<u>CL</u>	LCM	LBS/BBL
8/19	Make up wate	er							
8/21	1496'								
8/22	2350'	9.6	33			7.0	n/c	77K	0
8/23	3972'	9.1	44	10	14	9.5	12.0	9K	2
8/24	5265'	9.4	48	16	18	9.5	9.2	4.8K	1
8/25	5502'	9.4	48	14	16	8.5	9.2	5K	2
8/26	6453'TD	9.35	50	17	17	10.0	9.2	3K	6

DEVIATION RECORD - degree

734' 1/2, 1592 1 1/4, 2599' 1, 3580' 1, 4656' 1 1/4, 5265' 1, 6453' 1

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	FOOTAGE	HOURS
1		V273	12 1/4"	1495'	1495'	11 3⁄4
2		228RS	7 7/8"	1820'	325'	1 1⁄4
3		VLT 616	7 7/8"	6453'	4633'	61 3⁄4

Total Rotating Hours: Average:

74 3⁄4 86.3 Ft/hr

DRILL STEM DATA

DST NO.1: (5248' - 5265'), Marmaton, times 30-60-30-120 Type: Conventional Bottom Hole Test PERIOD TIME PSI IH 2580 IF 30 189 - 143 ISI 60 817 FF 30 188 - 258 FSI 120 819 FH

2521

BHT 123 deg. F.

BLOWS: IF – Bottom of bucket in 45 seconds, gas to surface in 24 minutes, estimated rate 70 mcf/d. ISI – 11" blowback. FF – Bottom of bucket in 1 ³/₄ minutes. FSI – Blowback to bottom of bucket in 3 minutes. RECOVERY: 366' muddy water(5% mud), 124 gassy mud and water cut emulsion(10% gas, 15% mud, 35% water and 40% emulsion, 45' gassy mud and water cut emulsion(30% gas, 15% mud, 20% water and 35% emulsion) and 4703' of gas in the pipe. Water Rw .08 at 68 deg. F., 100,000 ppm cl. Sample Chamber: 680 PSI, 100 ml condensate, 32 cf gas, no water.

ELECTRIC LOG FORMATION TOPS- KB Elev. 2553'

			<u>*Getty Oil N</u>	<u>Iohler No. 4</u>
FORMATION	DEPTH	DATUM	DATUM	POSITION
Surface Casing	1490'			
Heebner	4381'	-1875'	-1873'	-2'
Toronto	4412'	-1906'	-1901'	-5'
Lansing	4482'	-1976'	-1971'	-5'
Marmaton	5190'	-2684'	-2889'	+5'
Marmaton "C"	5254'	-2748'	-2757'	+9'
Cherokee	5386'	-2880'	-2884'	+4'
Atoka	5584'	-3078'	-3081'	+3'
Morrow	5713'	-3207'	-3211'	+4'
Morrow "B" SS	5752'	-3246'	-3247'	+1'
Mississippi Chester	5815'	-3309'	-3301'	-8'
Ste. Genevieve	6148'	-3642'	NDE	
St. Louis	6251'	-3745'	NDE	
TD	6453'	-3579'		

*Getty Oil, Mohler No. 4, 1650' FSL & 330' FEL, Sec. 34 – approximately 1320' to the NE, K.B. Elev. 2485' – oil productive from the Marmaton "C" Zone.