

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1233408

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:			SecTwpS. R 🔲 East 🗌 West				
Address 2:			F6	eet from	outh Line of Section		
City: S	State: Z	ip:+	Fe	eet from East / We	est Line of Section		
Contact Person:			Footages Calculated from	Nearest Outside Section Cor	ner:		
Phone: ()			□ NE □ NW	V □SE □SW			
CONTRACTOR: License #			GPS Location: Lat:	, Long:			
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)		
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84			
Purchaser:			County:				
Designate Type of Completion:			Lease Name:	Well	#:		
	e-Entry	Workover	Field Name:				
	_	_	Producing Formation:				
☐ Oil ☐ WSW ☐ D&A	☐ SWD	□ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:			
☐ OG	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total Dep	oth:		
CM (Coal Bed Methane)	dow	тетір. дай.	Amount of Surface Pipe Se	et and Cemented at:	Feet		
Cathodic Other (Co.	re, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes N	lo		
If Workover/Re-entry: Old Well Ir			If yes, show depth set:		Feet		
Operator:			If Alternate II completion, o	cement circulated from:			
Well Name:			feet depth to:	w/	sx cmt.		
Original Comp. Date:	Original T	otal Depth:					
Deepening Re-perf.	Conv. to E	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan			
☐ Plug Back	Conv. to G	SW Conv. to Producer	(Data must be collected from t				
□ Ourselinated	D 't. #		Chloride content:	ppm Fluid volume: _	bbls		
CommingledDual Completion			Dewatering method used:				
SWD			Location of fluid disposal if	f hauled offsite:			
☐ ENHR			Location of fluid disposal fi	nauleu onsite.			
GSW			Operator Name:				
<u> </u>			Lease Name:	License #:			
Spud Date or Date Re	eached TD	Completion Date or	QuarterSec	TwpS. R			
Recompletion Date		Recompletion 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:							



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ring and shut-in pressu	ormations penetrated. Eures, whether shut-in predict final chart(s). Attach	essure reached stati	c level, hydrosta	atic pressures, bott		
		otain Geophysical Data a or newer AND an image		gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taker (Attach Additional S		Yes No		_	on (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD Ne	ew Used			
		Report all strings set-	conductor, surface, inte	ermediate, product	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
	Donth		. CEMENTING / SQL	JEEZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
	ulic fracturing treatment o	n this well?		Yes	No (If No, ski	p questions 2 aı	nd 3)
Does the volume of the to	otal base fluid of the hydr	aulic fracturing treatment ex submitted to the chemical	_	= :	No (If No, ski	p questions 2 at p question 3) out Page Three	
Shots Per Foot	PERFORATION Specify For	N RECORD - Bridge Plug ootage of Each Interval Per	s Set/Type forated		cture, Shot, Cement mount and Kind of Ma		d Depth
				,			
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	IR. Producing Meth		Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf Wate	er B	bbls. G	as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	Open Hole		Comp. Con	mmingled	PRODUCTIO	ON INTERVAL:
(If vented, Sul	bmit ACO-18.)	Other (Specify)	(Submit)	400-5) (Sub	omit ACO-4)		

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Mohler 2-33
Doc ID	1233408

All Electric Logs Run

Neutron	
Induction	
Micro	
Sonic	

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Mohler 2-33
Doc ID	1233408

Tops

Name	Тор	Datum
Heebner	4421'	-1868
Toronto	4446	-1893
Lansing	4518	-1965
Marmaton	5228	-2675
Cherokee	5434	-2881
Atoka	5628	-3075
Morrow	5762	-3209
Mississippi Chester	5841	-3288
Ste. Genevieve	6166	-3613
St. Louis	6262	-3709

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Mohler 2-33
Doc ID	1233408

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	24	1484	a-con blend	3%CaCl & 1/4# floseal

O'Brien Energy Resources, Inc. Mohler No. 2-33 Section 33, T33S, R29W

Meade County, Kansas August, 2014

Well Summary

The O'Brien Energy Resources, Mohler No. 2-33 was drilled to a total depth of 6370' in the St. Louis Formation with no problems. Formation tops ran 10' to 14' high relative to the Larrabee No. 1-4 from the Heebner to the Morrow. The Chester ran 4' high.

Several quality hydrocarbon shows were documented during the drilling of the test. The St. Louis(6262'-6270') consists of a Dolomite: Medium to dark mottled brown, moderately crystalline, sucrosic, brittle, clean, good intercrystalline porosity, excellent dark brown even matrix oil stain and traces of live oil, excellent streaming cut, speckled gold brown hydrocarbon fluorescence, with abundant Chert, excellent show. An 80 Unit gas increase was noted. This interval was drill stem tested(6228'-6278') and recovered 62' of oil and gas cut mud. A significant pressure drop was noted in the shut in periods(1480 psi – 1035 psi).

A very tight "Richers Ranch" Sandstone equivalent was noted from 5979' to 5984' and consists of a Sandstone in 4% of the samples: Dark mottled brown to black with oil stain and live oil, hard to slightly friable, fine lower well sorted subangular to subround grains, trace intergranular porosity, dull orange gold hydrocarbon fluorescence and excellent cut. A slight gas increase of 22 units was noted. Additional tight Limestone shows were noted in the Basal Chester(attached mudlog).

The Mohler No. 2-33 was plugged and abandoned 8/19/14.

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. 2-33, Mohler Field

API: 15-119-21370

Location: 660' FSL & 1430' FEL, Section 33, T33S, R29W, Meade County, Kansas –

South of Meade.

Elevation: Ground Level 2540', Kelly Bushing 2553'

Contractor: Duke Drilling Rig No. 9, Type: Double jacknife, double stand, Toolpusher

Emidgio Rojas, Drillers: Omar Garcia, Alejandro V., Fernando Jurado

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 8/11/14

Total Depth: 8/17/14, Driller 6370', Logger 6264', St. Louis Fm.

Casing Program: 39 joints of 8 5/8", J55, 24Lbs/ft, set at 1490'.

Mud Program: Mud Co./Service Mud Inc., Engineer Justin Whiting, mud up 4000'.

DST: Trilobite Testing engineer Cornelio Landa(Corn Dog), DST No. 1(6228'-

6278'), St. Louis Fm.

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.

Electric Logs: Weatherford, engineer Ben Weldin, 1) Array Induction, 2) Neutron Density, 3)

Microlog, 4) Sonic – Hi Res. repeat.

Status: Plugged and abandoned 8/19/14.

WELL CHRONOLOGY

6 AM		
DATE DEPTH	FOOTAGE	RIG ACTIVITY

8/11 216' 216' Move to and rig up rotary tools. Pump water and mix spud mud. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 216'.

8/12 1490' 1274' Drill red beds. Clean pits. To 1490' and circulate. Drop survey() and trip out and run and cement 30 joints of new 8 5/8", 24 Lbs/ft set at 1483' with 100 sacks A Common(3%cc, ¼ lb floseal) and 150 sacks Class C(2%cc, ¼ lb floseal) – did circulate. Plug down 6:45 PM.

8/13 2430' 940' Wait on cement and nipple up BOP. Trip in and pressure test BOP to 300 PSI. Drill plug and cment and 7 7/8" to 1585' and trip for Bit No. 3. To 2430'. Survey(1 \(^{1}\)4 deg.).

8/14 4640' 2210' Survey(1 deg.) and drill and service rig.

8/15 5650' 1010' Survey(1 deg.). To 5028' and circulate and wiper trip 30 stands. Circulate for samples at 5250', 5268' and 5320'.

8/16 6194' 544' Circulate for samples at 5810' and 5850'. To 6194' and trip for Bit No. 4 – button bit. Clean suction and pits.

8/17 6370'TD 176' Bit trip and safety meeting. To 6370' TD(7:30 PM) and circulate and wiper trip 45 stands and circulate.

8/18 TD Circulate. Drop survey(1 $\frac{1}{4}$ deg.) and trip out for logs and run Elogs. Trip in.

8/19 Trip in and trip out laying down. Plug and abandon well and rig down.

BIT RECORD

<u>NO.</u>	MAKE	TYPE	SIZE	<u>OUT</u>	FOOTAGE	HOURS
1	RRNo. 2	V273	12 ¼"	1490'	1490'	13
2		HA20-Q	7 7/8"	1585'	95'	1
3		PLT516	7 7/8"	6194'	4609'	65 ¼
4		HA20-Q	7 7/8"	6370'	424'	10 3/4

Total Rotating Hours: 90
Average: 70.7 Ft/hr

DEVIATION RECORD - degree

1490' 1 ½, 2596' 1 ¼, 3732' 1, 4711' 1 ¼, 6194' 1 ¼, 6370' 1 ¼

MUD PROPERTIES

DATE	DEPTH	$\overline{\mathbf{WT}}$	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	$\underline{\mathbf{WL}}$	<u>CL</u>	<u>LCM-</u> LBS/BBL
8/11	Make up wa	ater							
8/12	1237'	9.7	32	3	3	7.0	n/c	3.5K	3
8/14	3783'	9.15	50	16	17	10.5	13.2	9.7K	2
8/15	5028'	9.55	58	18	21	9.5	10.8	5.9K	2.5
8/16	6080'	9.1	52	17	17	9.5	9.2	2.6K	2
8/17	6305'	9.2	48	14	15	9.5	9.2	1.7K	5

DRILL STEM DATA

DST NO.1: (6228'-6278'), St. Louis, times 30-60-30-120

Type: Conventional Bottom Hole Test Times: 30-45-60-60

<u>PERIOD</u>	<u>TIME</u>	<u>PSI</u>
IH		3193
IF	30	27 - 37
ISI	60	1480
FF	30	40 - 51
FSI	120	1035
FH		3150

BHT 136 deg. F.

BLOWS: IF & FF: Built to 4". ISI: Weak blowback.

RECOVERY: 62' of oil and gas cut mud.

ELECTRIC LOG FORMATION TOPS- KB Elev. 2553'

			*Larrabee No	<u>o. 1-4</u>
FORMATION	DEPTH	DATUM	DATUM	POSITION
Surface Casing	1486'			
Heebner	4421'	-1868'	-1882'	+14'
Toronto	4446'	-1893'	-1908'	+15'
Lansing	4518'	-1965'	-2050'	+15'
Marmaton	5228'	-2675'	-2682'	+7'
Cherokee	5434'	-2881'	-2892'	+11'
Atoka	5628'	-3075'	-3085'	+10'
Morrow	5762'	-3209'	-3220'	+11'
Mississippi Chester	5841'	-3288'	-3292'	+4'
Ste. Genevieve	6166'	-3613'		
St. Louis	6262'	-3709'		
TD	6366'	-3813'		

^{*}O'Brien Energy, Larrabee No. 1-4, KB Elev. 2550'



DRILL STEM TEST REPORT

O'Brien Energy Resources Corp.

18 Congress St.

Ste. # 207 Portsmouth, NH 03801

ATTN: Roger Pearson

33-33s-29w Meade Co, KS

Mohler #2-33

Job Ticket: 56561 DST#: 1

Test Start: 2014.08.18 @ 10:46:00

GENERAL INFORMATION:

Formation: St. Louis

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:33:30 Time Test Ended: 20:52:00

6228.00 ft (KB) To 6278.00 ft (KB) (TVD) Interval:

Total Depth: 6368.00 ft (KB) (TVD)

7.88 inches Hole Condition: Hole Diameter:

Test Type: Conventional Straddle (Initial) Tester: Cornelio Landa III

Unit No:

2549.00 ft (KB)

Reference Elevations:

2540.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8968 Outside

Press@RunDepth: 51.09 psig @ 6232.00 ft (KB) Capacity: 8000.00 psig

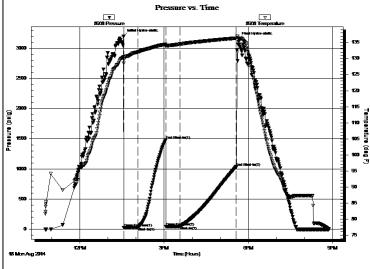
Start Date: 2014.08.18 End Date: 2014.08.18 Last Calib.: 2014.08.18 Start Time: 10:46:05 End Time: 20:52:00 Time On Btm: 2014.08.18 @ 13:33:15 Time Off Btm: 2014.08.18 @ 17:38:30

TEST COMMENT: IF: 4 in. of Blow

ISI: Bled off in 2 min.-Weak surface blow ack-Died in 10 min.

FF: 3 1/2 in. of Blow

FSI: Bled off in 2 min.-No return



1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	3193.51	130.61	Initial Hydro-static
	1	26.66	128.55	Open To Flow (1)
	31	36.92	132.03	Shut-In(1)
	90	1480.26	134.44	End Shut-In(1)
3	91	40.17	133.79	Open To Flow (2)
	121	51.09	134.51	Shut-In(2)
(241	1035.33	136.36	End Shut-In(2)
9	246	3150.45	136.20	Final Hydro-static

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
G & Ocm 5g 5o 90m	0.30
	Description G & Ocm 5g 5o 90m

Gas Rates					
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)		

Ref. No: 56561 Printed: 2014.08.18 @ 21:20:42 Trilobite Testing, Inc



DRILL STEM TEST REPORT

O'Brien Energy Resources Corp. 33-33s-29w Meade Co, KS

18 Congress St. Mohler #2-33 Ste. # 207

Job Ticket: 56561 DST#: 1 Portsmouth, NH 03801

ATTN: Roger Pearson Test Start: 2014.08.18 @ 10:46:00

GENERAL INFORMATION:

Formation: St. Louis

Deviated: Test Type: Conventional Straddle (Initial) No Whipstock: ft (KB)

Time Tool Opened: 13:33:30 Tester: Cornelio Landa III

Time Test Ended: 20:52:00 Unit No: 67

Interval: 6228.00 ft (KB) To 6278.00 ft (KB) (TVD) Reference Elevations: 2549.00 ft (KB)

Total Depth: 6368.00 ft (KB) (TVD) 2540.00 ft (CF)

7.88 inches Hole Condition: KB to GR/CF: Hole Diameter: 9.00 ft

Serial #: 8962 Below (Straddle)

Press@RunDepth: 8000.00 psig psig @ 6345.00 ft (KB) Capacity:

Start Date: 2014.08.18 End Date: 2014.08.18 Last Calib.: 2014.08.18

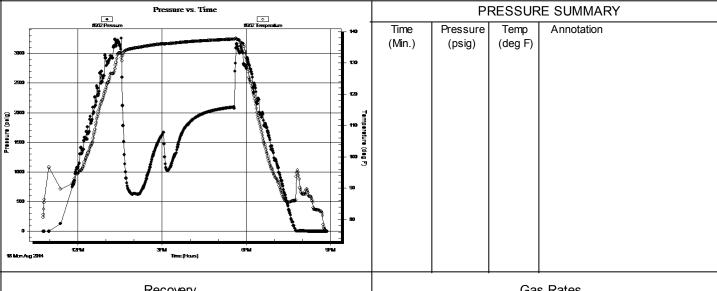
Start Time: 10:46:05 End Time: 20:52:00 Time On Btm: Time Off Btm:

TEST COMMENT: IF: 4 in. of Blow

ISI: Bled off in 2 min.-Weak surface blow ack-Died in 10 min.

FF: 3 1/2 in. of Blow

FSI: Bled off in 2 min.-No return



Recovery

Description	Volume (bbl)
G & Ocm 5g 5o 90m	0.30
	·

Oas Nai		
Choke (inches)	Proceure (peig)	Cas Pate (Mcf/d)

Ref. No: 56561 Printed: 2014.08.18 @ 21:20:42 Trilobite Testing, Inc



DRILL STEM TEST REPORT

FLUID SUMMARY

DST#: 1

O'Brien Energy Resources Corp. 33-33s-29w Meade Co, KS

18 Congress St. Mohler #2-33 Ste. # 207

Serial #:

Job Ticket: 56561

Test Start: 2014.08.18 @ 10:46:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API Water Salinity: ppm

Mud Weight: Cushion Length: 9.00 lb/gal ft Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 9.14 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 1700.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl	
62.00	G & Ocm 5a 5o 90m	0.305	

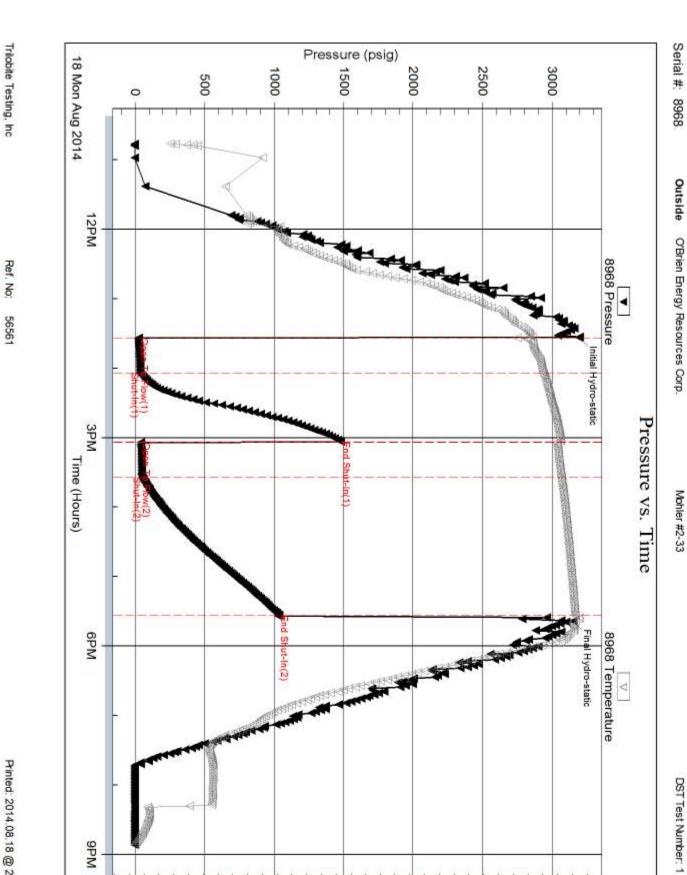
Total Volume: 0.305 bbl Total Length: 62.00 ft

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 56561 Printed: 2014.08.18 @ 21:20:43



Temperature (deg F)

130

120

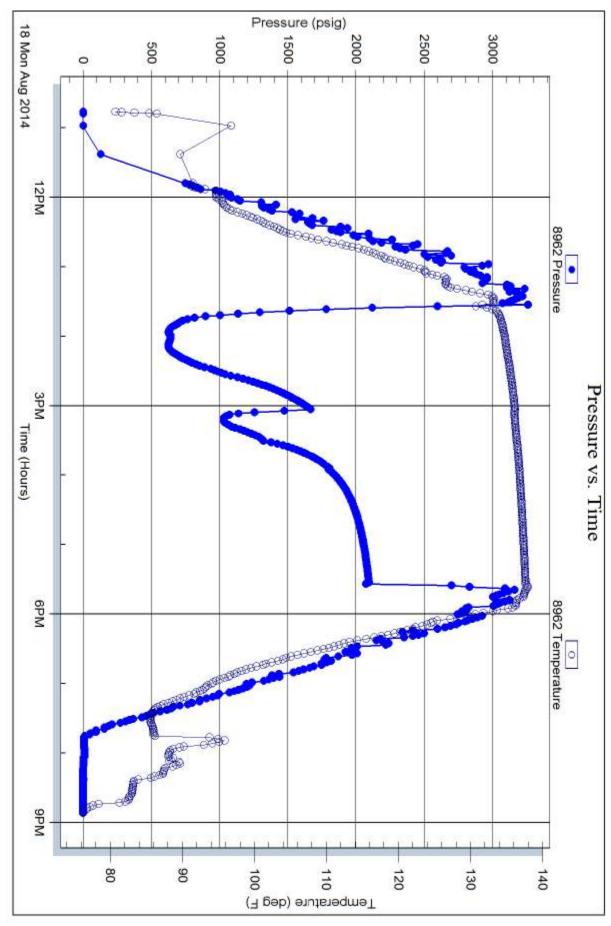
9PM

80

90

Printed: 2014.08.18 @ 21:20:43

Serial #: 8962





	Libera	l, Kansas				•	,	Cement Report	
Customer Oblien Energy				Lease No.			Date 8	12-14	
Lease Mahlec			Well # 2-33		Service Receipt				
Casing 85/8 24# Depth 1484				County	Meade		State KS		
Job Type 7	2-42		Formation			Legal Description	"JZ-JZ	3-29	
		Pipe C	ata			Perforating		Cement Data	
Casing size	85/8	24#	Tubing Size	ubing Size		Shots/Ft		Lead 4005x & 11,4 1/6 37.06,44# folyfloke, 21. WCA:	
Depth 14	84'		Depth		From				
Volume	91.7 b	56	Volume		From		То	1 - Con - Blend	
Max Press			Max Press	*	From		То	Tail in 150 Sx @ 148 Pg- 21.Cc, 44 Holy Flake	
Well Conne	ction		Annulus Vol.		From		То	-4.66,774,1019174766	
Plug Depth	1442'		Packer Depth		From		То	Piprium PhS Coment	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate			Service Lo	•	
1400					100 lo	cation -	Ricup		
1700					Safe	to Meet.	29		
1718	2500				Pressu	ie Tes	+		
1720	100		210	5	Pump	400 SX	(p 11.	4 896	
1803	150		35	5	Pump	150 5	× p 148	PPE	
1810					Diag Plus				
1813	.50			5	Stal	Dis	placement		
1828	250		70	2	5/04	, Rate			
1832	250		80	1	5/0 W	' ' (Y			
1838	1200	7.	91	1	Bung	Plus			
1845	0				Releg		essure-fi	ogt Held	
1845					5h.	if Down	1- Rig Do	wn	
							*		
1006									
Service Unit	Service Units 78940 32 130 36				724	330e1 14784			
Driver Name	10.		Carlos	Magarit	· · · · · · · · · · · · · · · · · · ·	Edgar			
	- introd		~ 11 1V	1 12 A 31 18		W. A. J.			

Customer Representative

Jelry Bennett Station Manager

Taylor Printing, Inc.



Cement Report

Customer	Ahr	iya E	MIRN	Lease No.			Date	
Lease	Mobile	r 7-	33	Well # Z-33		19. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	Service Receipt	141706126
Casing 8	5/4 24#	Depth /	575	County	Tead	Q.	State KS	J. 7
Job Type	PTA		Formation			Legal Description	on	
Pipe Data					Perforation		g Data	Cement Data
Casing size	85/8	Z4#	Tubing Size			Shots	/Ft	Lead 1605K 60/40AZ
Depth	1575	-	Depth		From		То	7
Volume	- la		Volume		From	,	То	1,50 7.50
Max Press			Max Press		From		То	Tail in
Well Connec	ction		Annulus Vol.		From		То	
Plug Depth			Packer Depth		From		То	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate			Service L	.og
15:00					On	location	Spotik)
15:05					Sal	ety Mt.]	
15:17					Kis		Crew la	ying Down
15:35					540	art Circ	ulating	Mod, @ 1530
16:00	200		5	3.6	Pun	phater	- Ahoad	
16:05	200		13:35	3	Sta	rt Stage	1 Comon	of Plag
16:15			19 BBLS	52st.pmiw	Dis	place w/	Ria Mua	
16:17					Shut	bown f	of Pipe	ip to 420'
17:14	160		10.1	3	Star	<u>r+包Sla</u>	ge Z'Cen	ient Plug
17170			3.9	7	Disp	'A •/	A	
17:25				ļ	Star	+ Pulling		p to 60'
17:40					Com	slete Pu	ling - b /	ay Down Kelly, Rat, Norse
18:00			5,43		Pum		: 5/age 3	plug
18:10			8		Alug			
18,14			5.4		Plug	Mosse		
								
					10	b Compl	ete	
							Y-10,000	
				<u> </u>				
					<u> </u>			
Service Uni	ts 865	73,	38117/9919	33021/	14284			
Driver Name	es lomi	nynl.	Chad Hive	Sant my	Schorez			
8	$\mathcal{Q}_{\mathbf{a}}$. \	R	H		100000