

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1232097

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				
Address 2:			Feet from North / South Line of Section				
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section		
Contact Person:			Footages Calculated from Nearest Outside Section Corner:				
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:	W	/ell #:		
	e-Entry	Workover	Field Name:				
	_		Producing Formation:				
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:		
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:		
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet		
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing Collar Used? Yes No				
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet		
Operator:			If Alternate II completion, c	cement circulated from:			
Well Name:			feet depth to:	w/	sx cmt.		
Original Comp. Date:							
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan			
☐ Plug Back	Conv. to G		(Data must be collected from the				
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls		
Dual Completion			Dewatering method used: _				
SWD			Location of fluid disposal if	hauled offsite			
☐ ENHR			1				
GSW	Permit #:		Operator Name:				
_ _			Lease Name:	License #:_			
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West		
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	ing and shut-in pressu	ormations penetrated. Eures, whether shut-in preith final chart(s). Attach	essure reached stati	c level, hydrosta	atic pressures, bott		
		tain Geophysical Data a r newer AND an image		gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taken (Attach Additional S		Yes No			on (Top), Depth an		Sample
Samples Sent to Geol	logical Survey	☐ Yes ☐ No	Nam	е		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-			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 / SQL	JEEZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD	Perforate Protect Casing						
Plug Off Zone							
Does the volume of the to		n this well? aulic fracturing treatment ex submitted to the chemical (_	Yes [? Yes [Yes [No (If No, ski	p questions 2 ar p question 3) out Page Three	
Shots Per Foot	PERFORATIO	N RECORD - Bridge Plug	s Set/Type		cture, Shot, Cement		
	Specify Fo	ootage of Each Interval Per	forated	(A	mount and Kind of Ma	terial Used)	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	bls. G	as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	Open Hole	METHOD OF COMPLE Perf. Dually (Submit A	Comp. Cor	mmingled	PRODUCTIO	ON INTERVAL:
(If vented, Sub	omit ACO-18.)	Other (Specify)	(Submit)	100-3) (SUB	omit ACO-4)		

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Crooked Creek 5-8
Doc ID	1232097

Tops

Name	Тор	Datum
Heebner	4462'	-1779
Toronto	4485'	-1802
Lansing	4607	-1924
Marmaton	5270	-2587
Cherokee	5442	-2759
Atoka	5701	-3018
Morrow	5760	-3077
Mississippi Chester	5884	-3201
Ste. Genevieve	6124	-3441
St. Louis	6211	-3528

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	Crooked Creek 5-8
Doc ID	1232097

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.6250	24	1489	acon	550	3%CaCl
Production	7.875	4.5	10.5	6345	AA2	200	

O'Brien Energy Resources, Inc. Crooked Creek Offset No. 5-8, Angell South Field Section 8, T33S, R29W

Meade County, Kansas May, 2012

Well Summary

The O'Brien Energy Resources, Crooked Creek Offset No. 5-8 was drilled to a total depth of 6350' in the Mississippian St. Louis Formation. It offset the Crooked Creek Offset No. 4-8 by 1200' to the West. Formation tops ran high relative to this offset. The Heebner to the Atoka ran 7' high. The Morrow came in 5' high. The Chester, Ste. Genevieve and St. Louis came in 21', 13' and 6' high respectively.

Several Morrow show intervals were documented. A Morrow B Sandstone (5813'-5821') consists of a Sandstone in 15% of the samples: Light brown, buff, hard to friable in part, very fine upper, well sorted subround grains, siliceous cement, slightly calcareous, clean, trace intergranular and fine vuggy porosity, bright light yellow to pale blue hydrocarbon fluorescence (all sand) good streaming cut, trace light brown matrix oil stain, gas bubbles when crushed, no live oil, slight odor. A 42 Unit gas increase was recorded. This interval proves tight with 2' of 12 percent porosity and little micro log separation.

The interval from 5838' to 5854' consists of a Sandstone in 25% of the samples: Light to medium mottled brown to gray, hard, slightly friable, very fine upper to fine lower, well sorted, subround grains, very calcareous, fossiliferous, argillaceous to clean, good intergranular porosity and fine vuggy porosity, pale mottled blue hydrocarbon fluorescence(most SS), slow bleeding to weak streaming cut, trace gas bubbles and oil stain when crushed, weak show. A 120 to 70 Unit gas kick was recorded. This interval calculates wet.

Additional minor shows were noted in the St. Louis and Cherokee. The Crooked Creek Offset No. 5-8 was plugged and abandoned 5/12/12.

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:

Crooked Creek No. 5-8, Angell South Field

Location:

1858" FSL & 1671' FEL, Section 8, T33S, R29W, Meade County, Kansas -

Southeast of Plains.

Elevation:

Ground Level 2671', Kelly Bushing 2683'

Contractor:

Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick

Schollenbarger, Drillers: Terry Sorter, Danny White, Saul Garcia

Company Man:

Roger Pearson – Liberal, Kansas

Spud Date:

5/5/12

Total Depth:

5/11/12, Driller 6350', Logger 6356', St. Louis Formation

Casing Program:

40 joints of 8 5/8", J-2, 24Lbs/ft, set at 1480'.

Mud Program:

Mud-Co/Service Mud, engineer Justin Whiting, displaced 2800', Chem.

gel/LCM.

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 and 10' through zones of interest.

Electric Logs:

Weatherford, engineer Ron Hoffman, Array Induction, Compensated

Neutron/Density, Microlog, Hi Res.

Status:

Plugged and abandoned 5/12/12

WELL CHRONOLOGY

10 PM DATE DEPTH	FOOTAGE	RIG ACTIVITY				
5/4		Move to and rig up rotary tools.				
5/5 1165° 12 ¹ / ₄ " surface he	1165' ole to 1165'. Survey	Mix spud mud and blow down mouse hole and rat hole. Spud in (3/4 deg.).				
		To 1490' and circulate and trip out. Run and cement 8 5/8" set at on at 10 am. Back off landing joint and nipple up BOP and test pipe rams. Drill plug and cement and 7 7/8" hole to 1630'.				
5/7 3110' 1390' To 1700' and trip for bit no. 3. Survey(1/2 deg.) and drill to 3110'. Clean suction and displace mud system at 2500'.						
5/8 4500'	1390'					
5/9 5255'	755'	To 5010' and circulate and wiper trip 27 stands. To 5255'.				
5/10 6265'	1010'					
5/11 6350'TD condition mud. I plug and abando	Orop survey(1 deg.)	TD and circulate and short trip 40 stands and circulate and and out for logs and run e-logs. Trip and oout open ended and				
5/12 TD		Plug and abandon well and rig down.				

LOST CIRCULATION

none

BIT RECORD

<u>NO.</u>	MAKE	TYPE	SIZE	<u>OUT</u>	FOOTAGE	HOURS
1 2 3	STC STC HTC	FDnSTC F27I Q506F	12 ¼" 7 7/8" 7 7/8"	1490' 1700' 6350'	1490' 210' 4650'	22 4 1/2 97 1/2
				Total Rotating Hours: Average:		123 51.6 Ft/hr

DEVIATION RECORD - degree

1012' ¾, 1490' ¾, 3043' ¾, TD 1

MUD PROPERTIES

DATE	DEPTH	$\underline{\mathbf{WT}}$	<u>VIS</u>	$\underline{\mathbf{PV}}$	<u>YP</u>	<u>pH</u>	$\underline{\mathbf{WL}}$	<u>CL</u>	<u>LCM-</u> LBS/BBL
5/5	400'	8.8	29			7.0	nc	120	3
5/6	1490'	Water	•						
5/7	2430'	9.5	29			7.0	n/c	70k	2
5/8	3856'	8.95	42	12	12	8.0	18.0	6.4	3
5/9	5035'	8.75	58	16	17	9.6	9.6	4.4k	2
5/10	5920'	9.1	52	15	17	9.5	10.0	3.7k	2

ELECTRIC LOG FORMATION TOPS- KB Elev. 2656'

			*Crooked C	reek No. 4-8
FORMATION	DEPTH	DATUM	DATUM	POSITION
Casing	1489'			
Heebner	4462'	-1779'	-1786'	+7'
Toronto	4485'	-1802'	-1810'	+8'
Lansing	4607'	-1924'	-1930'	+6'
Marmaton	5270'	-2587'	-2592'	+5'
Cherokee	5442'	-2759'	-2766'	+7'
Atoka	5701'	-3018'	-3025'	+7'
Morrow	5760'	-3077'	-3082'	+5'
Mississippi Chester	5884'	-3201'	-3222'	+21'
Ste. Genevieve	6124'	-3441'	-3454'	+13'
St. Louis	6211'	-3528'	-3534'	+6'
TD	6356'	-3643'		

^{*}O'Brien Energy Resources, Crooked Creek No. 4-8, 2271'FSL & 526'FEL, Sec. 8 – app. 1150' to the East, K.B. Elev. 2656'.

Petrolific Consulting Services

Peter Debenham

P.O. Box 350 Drake, Colorado 80515

Wellsite Geology

720/220-4860 petrolific@earthlink.net

Scale 1:240 (5"=100") imperial

Well Name: O'Brien Energy, Crooked Creek No. 5-8, Angell South Field

Location: 1858'FSL & 1671'FEL, Section 8, 33S, R29W, Meade Co., KS

Licence Number: API: 15-119-21318 Spud Date:

Region: Hougoton **Drilling Completed:** 5/12/11

Surface Coordinates: 1858'FSL & 1671'FEL, Section 8, 33S, R29W, Meade Co., KS

Bottom Hole 1858'FSL & 1671'FEL, Section 8, 33S, R29W, Meade Co., KS

Coordinates:

Ground Elevation (ft): 2671'

K.B. Elevation (ft): 2683'

Logged Interval (ft): 4500'

To: TD

Total Depth (ft): 6350'

Formation: Lansing, Morrow, Chester, Ste Genevieve, St. Louis

Type of Drilling Fluid: Chemical Gel/LSND/LCM, mud up 2500'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: O'Brien Energy Resources, Corp.

Address: 18 Congress St., Suite 207

Portsmouth, NH 03801

President/Owner John Forma, Geologist Paul Wiemann

GEOLOGIST

Name: Wellsite: Peter Debenham

Company: Petrolific Consulting Services

Address: P.O. Box 350

Drake, CO 80515

720/220-4860, Petrolific@gmail.com

Comments

Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Terry Sorter, Danny White, Saul Garcia, Engineer Roger Pearson, Winter MudMud-Co./Service Mud, Engineer Justin Whiting, displaced 2500', P&A 5/11/12.

ROCK TYPES

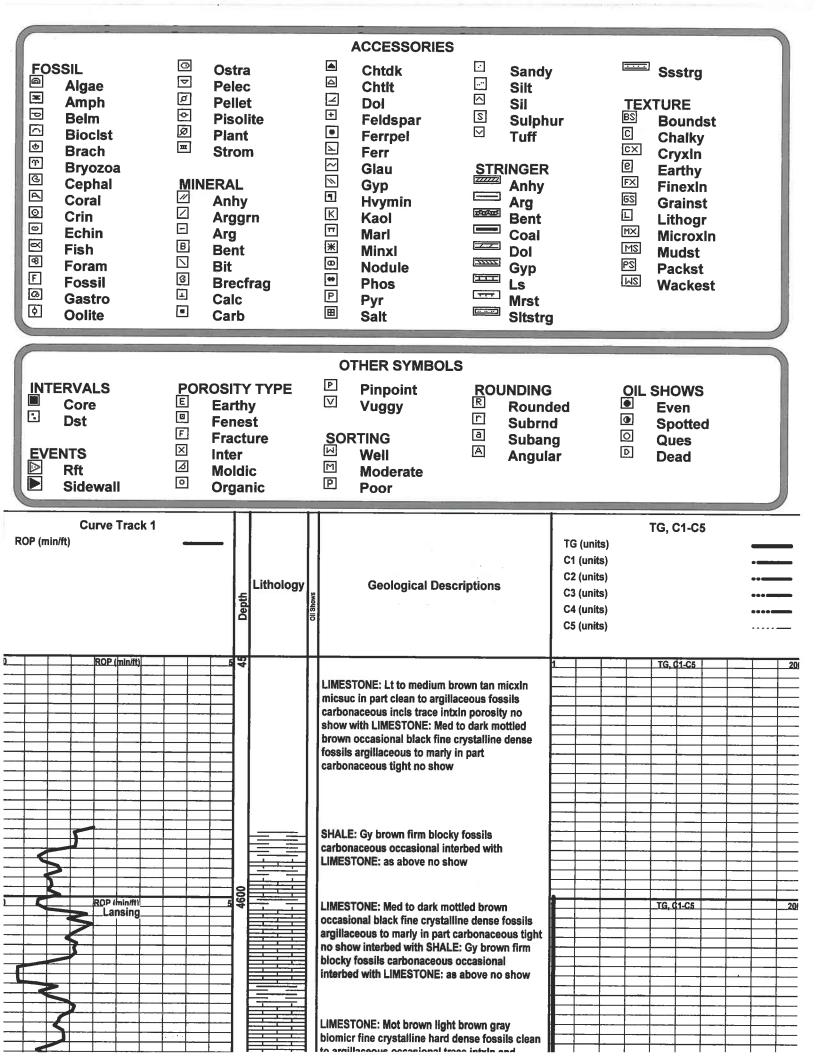
Anhv Brec

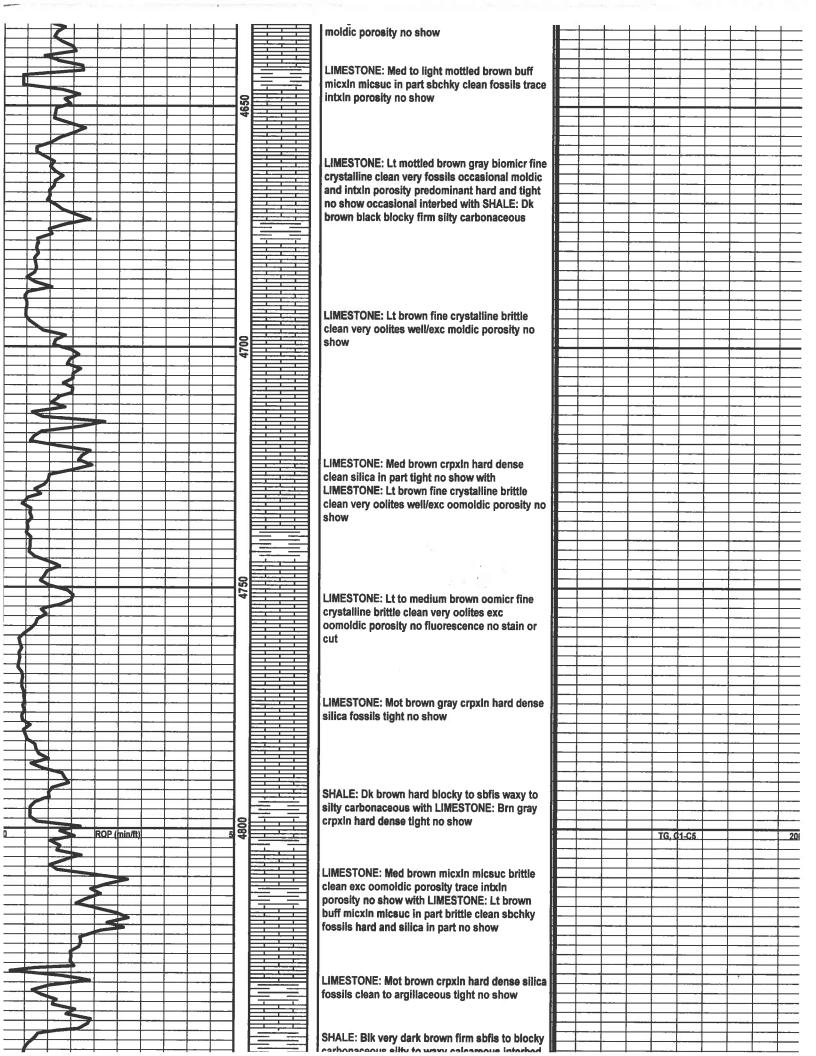
Clyst Coal Congl

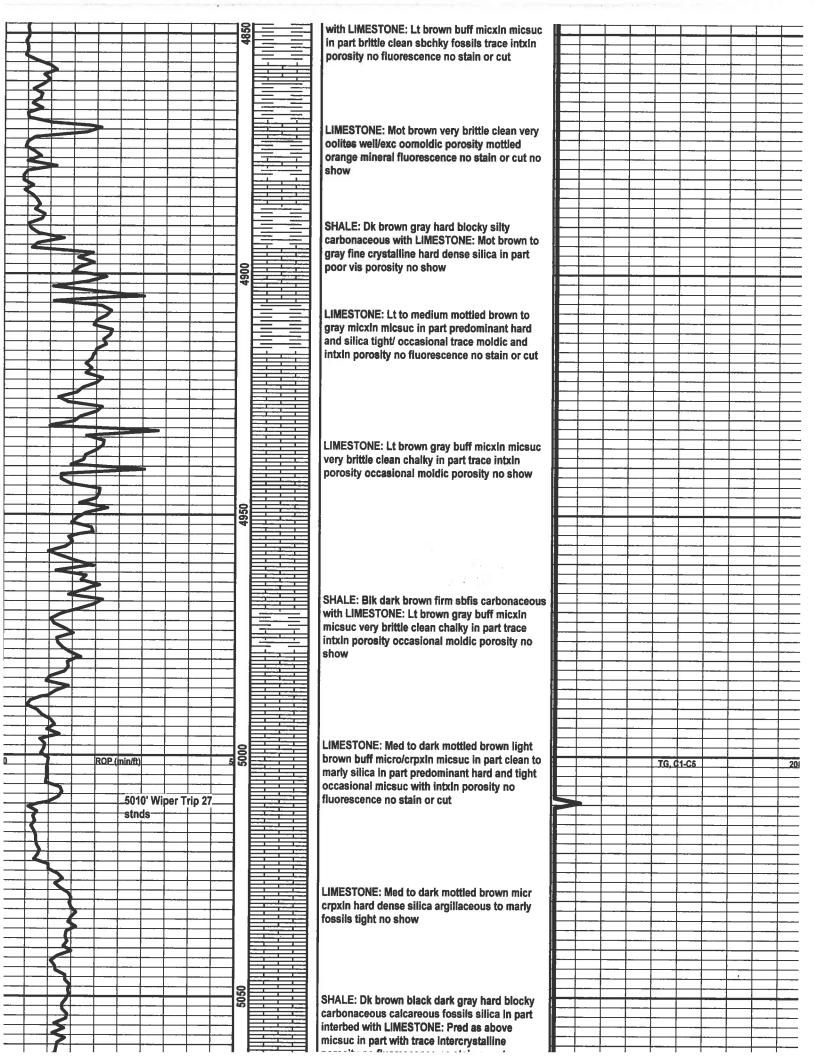
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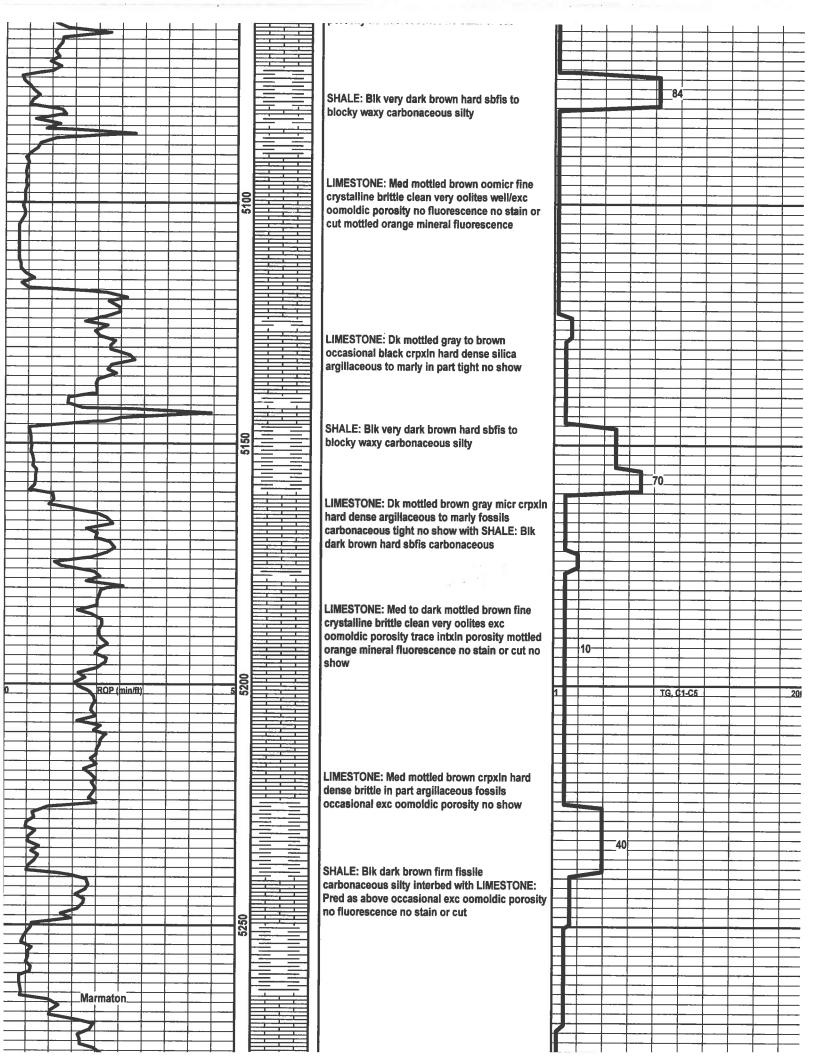
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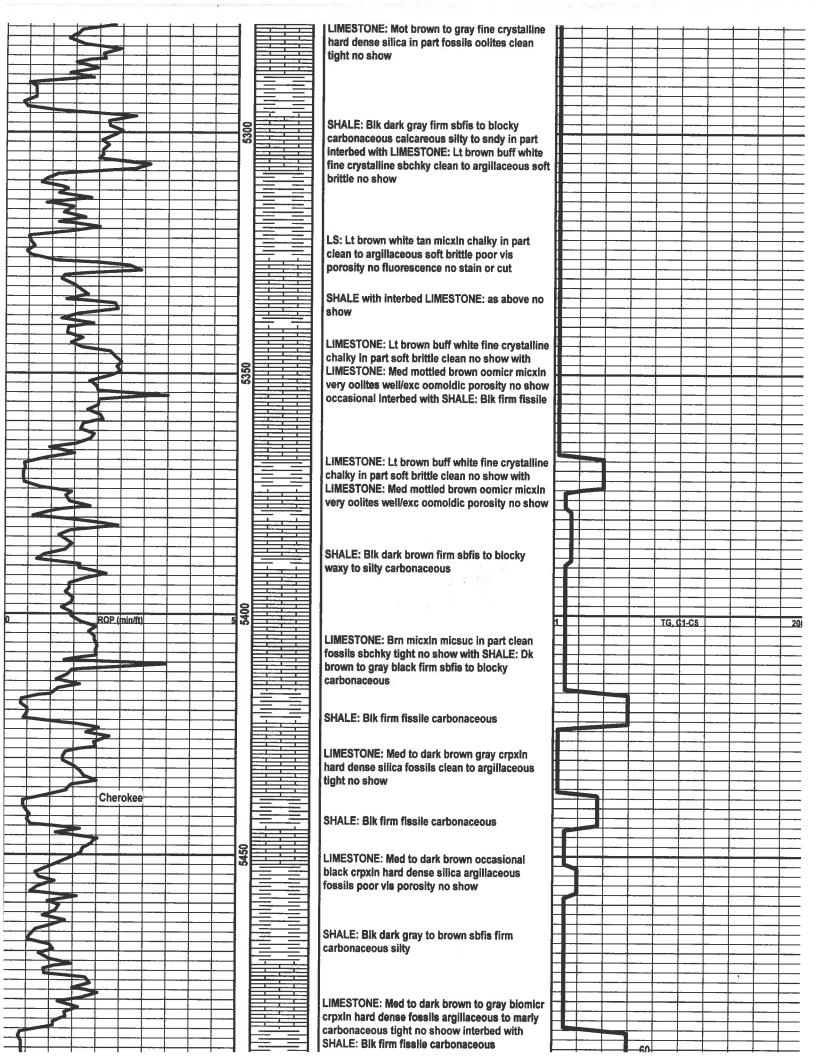
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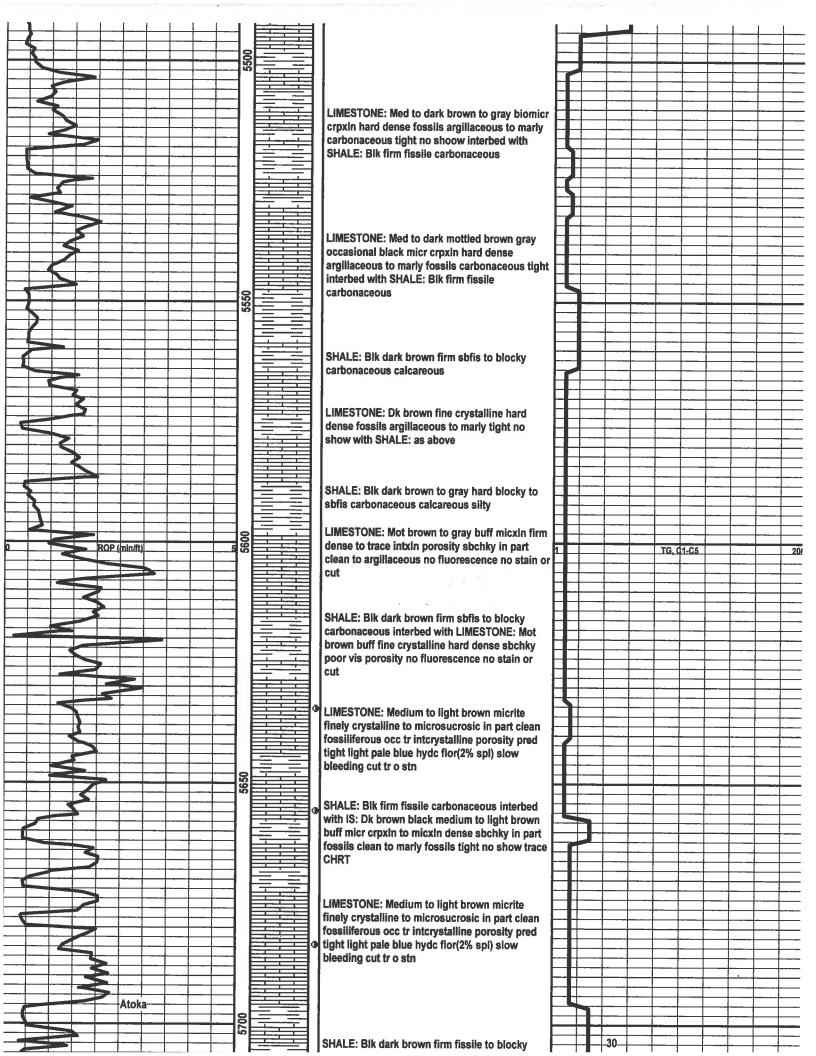


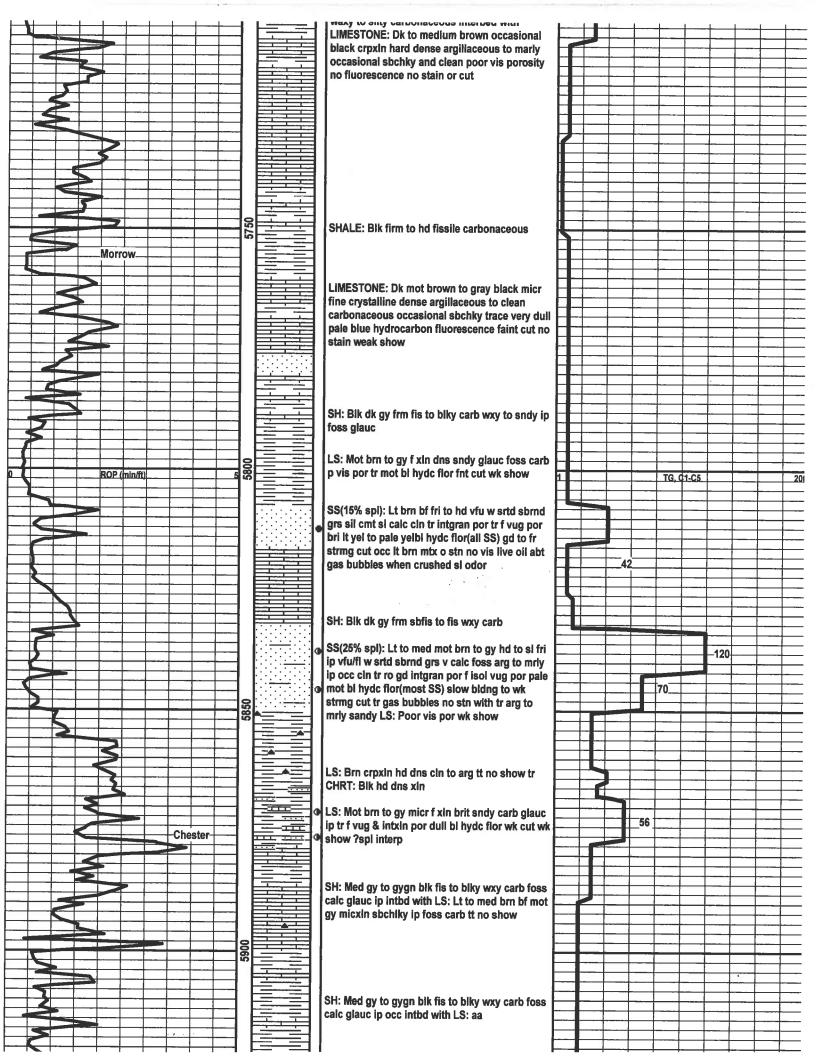


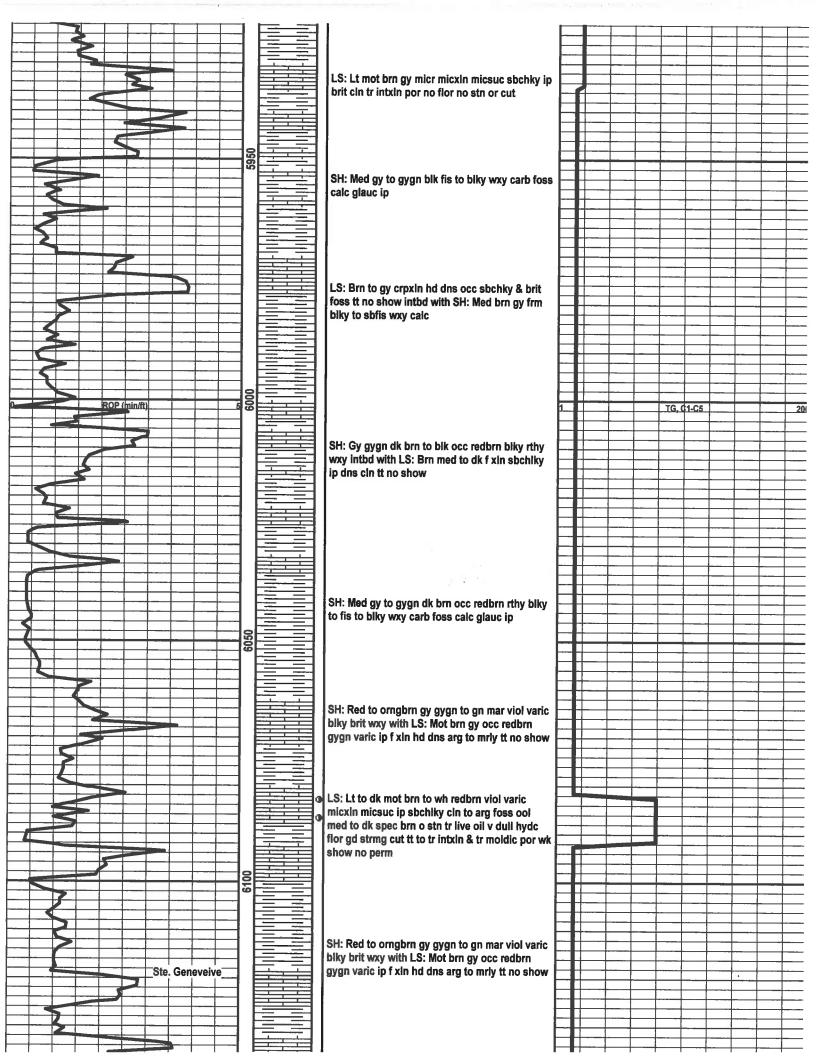


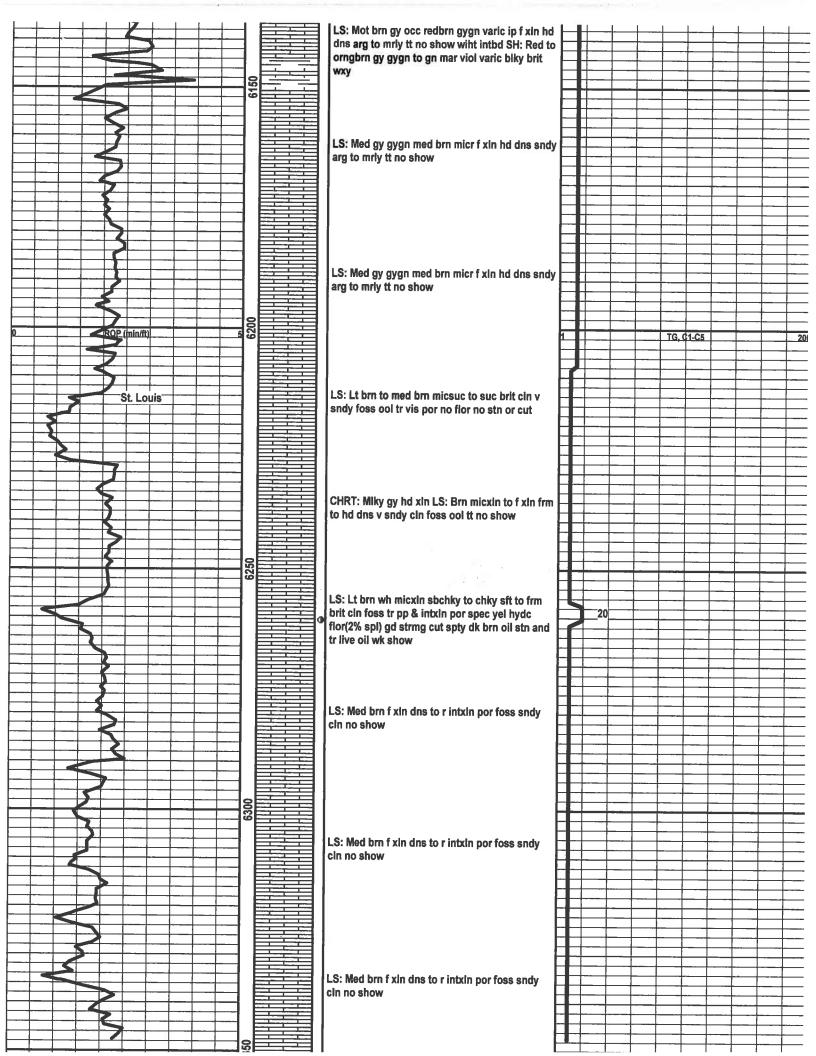














Cement Report

	Libera	I, Kansas		N.C.			
Customer	Obrie	n Ene				Date	5-12
Lease C	marked	Creek	Well # 115 - 8			Service Receipt	
Casing	15/4	Depth 13	189	County	reade	State KS	
Job Type	5/8 5, 4	300	Formation		Legal Descri	ption 8-33-	29
		Pipe D	ata		Perforat	ing Data	Cement Data
Casing size	8 9/8		Tubing Size		Sho	ts/Ft	Lead HOSK Alon - 370CC
Depth	1489		Depth		From	То	Ncon = 3%CC
Volume	92		Volume		From	То	1/4th Poly
Max Press		£ .	Max Press		From	То	Tail in 150sk
Well Connec	tion		Annulús Vol.		From	То	Prent Plus 3 70CC
Plug Depth	1447		Packer Depth		From	То	- Vit Poly
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate		Service Lo	
0800					On Location	1 = 50st +	Righio
0800					Cosina on	Anthon - B	rat Cic.
0905		2000			Pressure 7	rest	
0977		200	210	5	Mix HOOS	a ACon Q	
0938		200	36	5	Mix 1505	ik Rem Plan	(a) 148 PAG
0941					Short day	1 - 0,00	top plua
0694	Design Control	200	0	5	Start de	placin w	(first Water
4 AAC		300	72	2	Slow Ro	Harris 13	
1011		350	82	1:	Slow Ka	te .	DE LA CONTRACTOR DE LA
1021		400 900	92		Bump DI		
1023		900-0			Release	freshire -	Float Helal
					Circulate	Cerrent 7	to the pit
						, 7	
		· · · · · · · · · · · · · · · · · · ·					
						R	No XXX
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7							
90			25111	14 355A	11/2541		9 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1
Service Unit		755	3811/19919	1355/14			
Driver Name	s K.	by	Ruben	Scott	Gent B	17	

Customer Representative

Jerry Bennett
Station Manager

Cementer

Taylor Printing, Inc.



Cement Report

	Libera	I, Kansas						comont noport			
Customer Obice Enersy				Lease No.				8.8.19			
Lease () (Val Care V				Well # 5-8			Service Receipt	ervice Receipt			
Casing 41	2 10.5#	Depth 63	340	County	Meade		State KS				
Job Type 7-42 Ploduction Formation Legal Description 8-33-29											
		Pipe D	ata	_	Perforating D			ta Cement Data			
Casing size	41/2 10	1.54	Tubing Size	Shots		Ft	Lead 2005 X 614.8 PC				
Depth	6340	•	Depth		From		То	Lead 2005 x 614.8 PG- SV. W. Co. 107. Salt Gr. C-15, 47# De Former S#G: Bonite			
Volume 100.3 bb C			Volume		From		То	AAA Cement			
Max Press			Max Press		From		То	Tail in			
Well Conne	ction		Annulus Vol.		From		TO 50 5K@ 15.697				
Plug Depth 6298'			Packer Depth		From		To Pieni, on foomor				
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log						
1600	·				016	cation -	Rique				
1800					Sate	y Meet	109				
1824	2500	2			Press	ire Test					
1825	50		12	5	Pump	500 941	los of Blue	1 flush			
1845	250		53.7	5	Pump 2005x @ 14.8 PP6						
1855					00	Plug					
1900	50			5	Start Displacement with CC.1						
1915	400			2	Slow Rate						
1925	1000		100	2	Bum	o Plus					
1930	0-				Release PRESSURE-float Held						
	Shut Down Rig Down						own				
	Plug Rat Hole 30 sx										
	1			Plus Mouse Hok 200x							
					Plys	Mouse	Hole c	700X			
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Service Uni	15 700L	10	38750	27808	L			·			
Driver Names 2640		Callos Santias		`							
Citter Haille	11000	4	(9/105	Martiage	,						

Customer Representative

Jerry Bennett
Station Manager

Ruben Maltinez
Cementer Taylor Printing, Inc



Cement Report

	Libera	ii, Kansas		,							
Customer Obrien Energy				Lease No.				Date 9-16-14			
Casing 41/2 Depth 5747				Well # 5-8			Service Receipt 04678				
Casing 4/	1/Z	Depth 57	747	County Me	State 115			115	5		
Job Type Z41 Squeez Formation Legal Description 8-33-29											
		Pipe D	ata		Perforating Data						
Casing size 4/1/2 Tubing Size 2 7/8				<i>'</i>		Shots/Ft		Lead			
Depth 5838 Depth 5747				-	From 5838 To 2/4			/			
Volume / Sh/s Volume 77				3	From	From					
Max Press	Zelo		Max Press		From		То		Tail in 75K Class H		
Well Connec	ction 2 3/8	,	Annulus Vol.		From						
Plug Depth			Packer Depth 574Z		From		То		4.7568-5K 16.4#		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log						
900					Arrive On Location						
910					Satis Meety Mig Up						
920		2100			Pressure Test						
975	500		30	4.0	Load Backside						
935		600	10	7.0	Land Tubing Injection Rate						
945			14.1	2,2	Fram cout @ 16.4#						
1000					Wash Up						
1005		2000	20.5	1.0	Displace						
1035		1000	30	z, 5	Meurise Out						
1100					Pull out 10 Stands						
1130					Shut in Well Sob Conglete						
					Job Conglete						
						<u> </u>		<u> </u>			
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Service Units 78978		70897-19570 33021-1		1784			······································				
Driver Name	s Tre	4	Som picki		_			<u> </u>			

Ruger

Station Manager

TH