Confidentiality Requested: Yes No

OPERATOR: License # \_\_\_\_

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

1220856

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		
	API No. 15	

Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / 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.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW □ Gas □ D&A □ ENHR □ SIGW	Elevation: Ground: Kelly Bushing:
□ OG □ GSW □ Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
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 Producer	(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 #:	Location of fluid disposal if hauled offsite:
GSW         Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached 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:					

	Page Two	1220856
Operator Name:	Lease Name:	Well #:
Sec TwpS. R □ East □ West	County:	
INCTRUCTIONS. Show important tang of formations panatrated	Datail all carea Bapart a	Il final conice of drill stome tests giving interval tested, time test

**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		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-	conductor, surface, inte	ermediate, producti	on, 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:	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	

Perforate	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

(If No, skip questions 2 and 3) (If No, skip question 3)

No

🗌 No

No

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					ement Squeeze Record d of Material Used)	Depth			
TUBING RECORD:	Si	ze:	Set At:		Packe	r At:	Liner F	Run:	No	
Date of First, Resumed	l Product	ion, SWD or ENH	٦.	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSIT		248			METHOD	OF COMPLE			PRODUCTION IN	
Vented Sol	d 🗌	Used on Lease		Dpen Hole Dther <i>(Specify</i> )	Perf.		Comp.	Commingled (Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Lillie 3-26
Doc ID	1220856

Tops

Name	Тор	Datum
Niobrara	1240	+2067
Ft. Hays	1743	+1564
Carlile Sh	1778	+1529
Dakota	2146	+1161
Cheyenne	2733	+574
Blaine	2988	+319
Stone Corral Anhydrite	3201	+106
Base Anhydrite	3230	+77
Chase lime	3413	-106
Neva	3689	-382
Red Eagle	3736	-429
Foraker	3798	-491
Wabaunsee	3942	-635
Topeka	4012	-705
Deer Creek Sand	4054	-747
Oread	4126	-819
Heebner Sh.	4186	-879
Lansing/KS City A	4231	-924
LKC B	4288	-981
LKC C	4348	-1041
LKC D	4394	-1087
LKC E	4438	-1169
LKC F	4476	-1169
RTD	4476	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Lillie 3-26
Doc ID	1220856

Tops

Name	Тор	Datum
LTD	4580	-1273

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Lillie 3-26
Doc ID	1220856

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	310	Common	225	3% cc, 2% gel
Production	7.875	5.50	15.5	4577	Lite & Common		2% gel, 10% salt, 5# Gilsonite

# ALLIED OIL & GAS SERVICES, LLC 063449

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092

SERVICE POINT:

	lana	1	1		· · ·		
DATE 7-2-14	SEC.	TWP	RANGE W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASEL -ILE	WELL#	3-26	LOCATION BEG	rdslev NA	ORAAW		STATE
OLD OR NEW CI	rcle one)			Was into			
CONTRACTOR	BAW	なっ				<u>ل</u> نــ	
	Sarag		·	OWNER 5	some		
	2114		310	CEMENT			
	85/8		TH 309		RDERED 224	Caler -	207
TUBING SIZE		DEP		2mge	1	13K3 (C	2000/0000
DRILL PIPE		DEP	TH	- stage			
TOOL		DEP	TH				
PRES. MAX		MIN	IMUM	COMMON	27556	501720	402750
MEAS. LINE			EJOINT	POZMIX		@	
CEMENT LEFT IN	ICSG. 1	5		GEL	423-7		- 24415
PERFS.				CHLORIDE	1=34	@ 120	68752
DISPLACEMENT	18,	72		ASC		_@	in the second se
	EQUI	PMENT			<u></u>	. @	
			0	11 1.6	Jerely 10	1 el	5169.12
PUMP TRUCK	CEMENTE	R Kell	y Ganel		and to	@	
#4131 1	HELPER	Bran	don wilki	-46	0245/31	2.@	
BULK TRUCK			1		1	@	
# 89143081	DRIVER	Tion	TITUS	\ <u> </u>		_@	
BULK TRUCK				ナ		_@	. <u> </u>
# ···-	DRIVER			THE TOTAL	D (10) - +	_@	26
		00			243.24 cut		
	DES	IARKS:		MILEAGE _/	10,57 ton x	50x 20	-1454.50
		AAAO:				TOTAL	
rigged 4							
	emen				SERVI	CE	
<u>Alspieces</u>		V WGG	13-1	·····			
South in CEMCINTS	1-1-	- COL	ada	DEPTH OF J			309
LEHUGH L	- U.C.C.C.	flee			CK CHARGE		15/2.25
· · · · ·		~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Thanklou	_ EXTRA FOO		_@	
84 AV			Kelly & Crei	MILEAGE_	MiHV 50		38500
			inclus our ci	MARTICLD	Swedge	@ 275	207 NC
				Mil	V 50	@ 442	<u> </u>
autonama Q					in the second	_@	*
CHARGE TO: 3	SLEX (	<u> </u>		- /	1225.941	219	2050
STREET		` '			Ve	TOTAL	3.954.57
					2		
CITY	STA	TE	ZIP		PLUG & FLOAT	TOTIEN	T
					I DOG & PLOM	. EQUIENER	1
				€			
						_@	
				•		_@	
To: Allied Oil & (					ware and the state of the second s	_@	••••••
You are hereby rea							Martin Sul
and furnish cemer				49-100 - 10 - 10 - 10 - 10 - 10 - 10 - 10	······································	@	
contractor to do w							
done to satisfactio						TOTAL	
contractor. I have	read and	understand	d the "GENERAL		1. STORE - 10		
			on the reverse side		(If Any)		

TOTAL CHARGES

DISCOUNT

...

2 2 3

IF PAID IN 30 DAYS

6, 295.41 Net.

PRINTED NAME My/o Salings	
SIGNATURE Myle Salma	
, ,	

RILOBITE	DRILL STEM TES	TREP	ORT				
	Berexco, LLC		26/	1s/36w I	Rawlins	s KS	
ESTING , INC	2020 N. Bramblew ood Wichita, KS 67206			l <b>ie #3-26</b> Ticket: 56		DST	'#· 1
	ATTN: Pete Vollmer					@ 18:15:0	
GENERAL INFORMATION:							
Formation:ForakerDeviated:NoWhipstock:Time Tool Opened:20:21:45Time Test Ended:02:24:45	ft (KB)		Tes Tes Unit	ter:	Conventio James Wii 57		Hole (Initial)
Interval:3752.00 ft (KB) To38Total Depth:3830.00 ft (KB) (TVHole Diameter:7.88 inches Hole	D)		Ref	erence Ele KB te	vations: o GR/CF:	3294.	.00 ft (KB) .00 ft (CF) .00 ft
Serial #:         8671         Inside           Press@RunDepth:         130.59 psig         130.59 psig           Start Date:         2014.07.05           Start Time:         18:15:05           TEST COMMENT:         30 - IF: 7 1/2" sur	End Date: End Time:	2014.07.06 02:24:44	Capacity Last Calil Time On Time Off	b.: Btm: 2		8000. 2014.07. 5 @ 20:51: 6 @ 00:22:	:15
60 - ISI: No blow b 60 - FF: No blow 60 - FSI: No blow	back	T					
Pressure vs. Ti v 857 Pessure	inc 5671 Temperature	Time	PI Pressure	RESSUR Temp	Annota		
	- 130	(Min.)	(psig)	(deg F)			
1750		0	1834.01 111.71	125.45 125.88		dro-static Flow (1)	
1500		31	119.24	126.35	Shut-In(	1)	
		90 91	1123.15 121.50		End Shu Open To		
		150	130.59	127.30	Shut-In(2	. ,	
		211 212	1052.09 1570.72	129.90 130.24	End Shu	,	
29 0 0 0 0 0 0 0 0 0 0 0 0 0	6Sm						
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (ii	nches) Pre	ssure (psig)	Gas Rate (Mcf/d)
205.00 Mud w /trace of oil 100%r	n 1.01						•
	Ref No: 56937				2014 07		

ACDA-	RILOBITE	DRI	LL STEM TEST REP	ORT			FLUID S	UMMAR	
		Berexo	o, LLC		26/1s/36w	Rawlins KS	6		
	ESTING , INC	20201	l. Bramblew ood		Lillie #3-26				
		Wichita	a, KS 67206		Job Ticket: 5	6937	DST#:1		
		ATTN:	Pete Vollmer		Test Start: 2	2014.07.05 @ 1	8:15:00		
Mud and C	ushion Information	ļ							
Mud Type:	Gel Chem		Cushion Type:			Oil A PI:		deg API	
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:	1	ppm	
Viscosity:	58.00 sec/qt		Cushion Volume:		bbl				
Water Loss:	5.20 in <sup>3</sup>		Gas Cushion Type:						
Resistivity:	ohm.m		Gas Cushion Pressure:		psig				
Salinity:	600.00 ppm								
Filter Cake:	2.00 inches								
Recovery I	nformation								
			Recovery Table			_			
	Len		Description		Volume bbl				
		205.00	Mud w /trace of oil 100%m		1.008	3			
	Total Length:	205	.00 ft Total Volume: 1.0	008 bbl					
	Num Fluid Sam	ples: 0	Num Gas Bombs: 0		Serial #	:			
	Laboratory Na		Laboratory Location:						
	Recovery Con	ments:	-						

Printed: 2014.07.06 @ 07:00:54

70

80

80

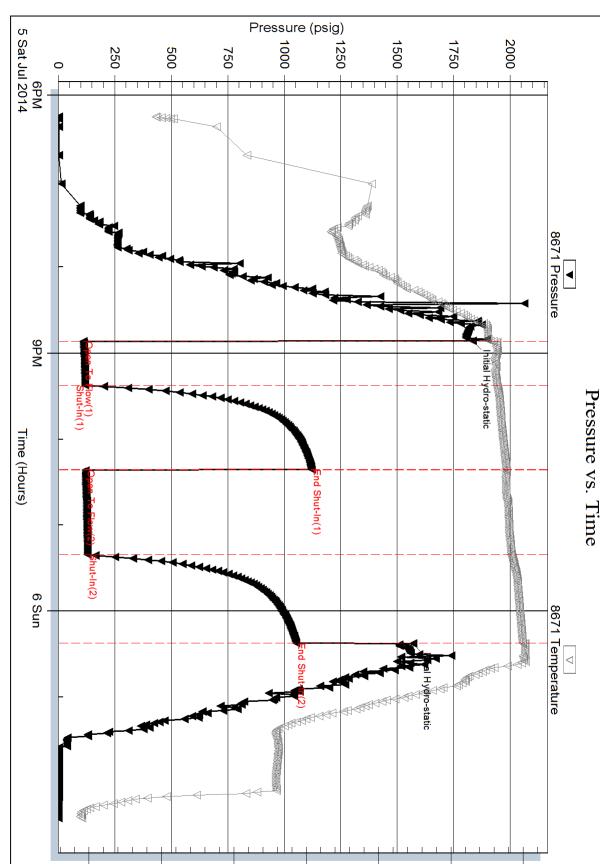
Temperature (deg F)

110

120

Ref. No: 56937

Trilobite Testing, Inc



Inside Berexco, LLC

Serial #: 8671

Lillie #3-26

DST Test Number: 1

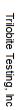
130

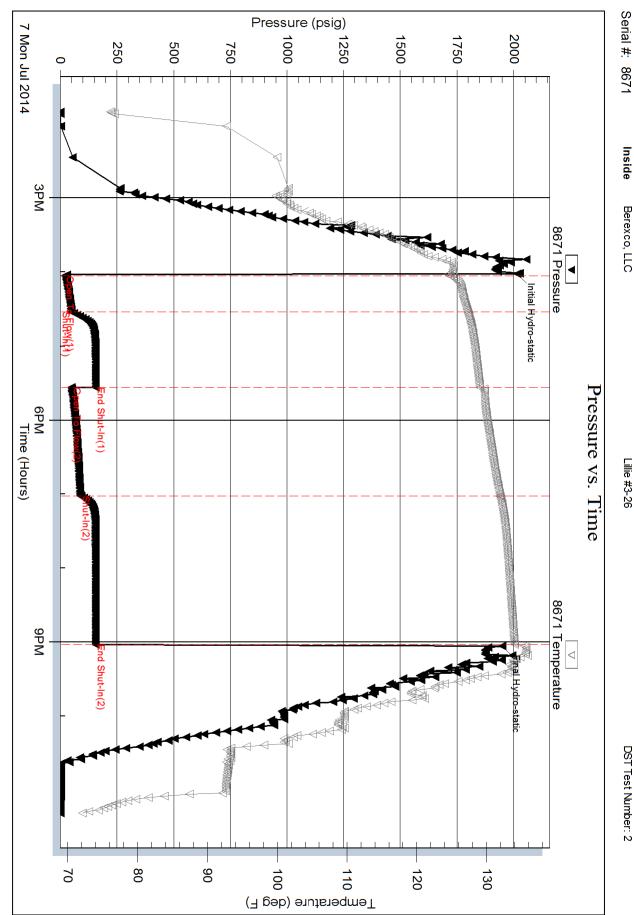
RILOBITE	Dereves 11.0		T REPO		4 400	<b>.</b>	•	
ESTING,	Berexco, LLC			26/	1s/36w	Rawlins K	5	
	2020 N. Bramblew ood Wichita, KS 67206				lie #3-26		DCT#- 2	
					Ticket: 56		DST#:2	
	ATTN: Pete Vollmer			les	t Start: 20	)14.07.07 @ <i>'</i>	13:50:00	
GENERAL INFORMATION:								
Formation:OreadDeviated:NoWhipstoTime Tool Opened:16:03:00Time Test Ended:23:18:30	ock: ft (KB)			Tes	ter:	Conventional James Winder 57	Bottom Hole (Res r	et)
Interval:         4090.00 ft (KB) To           Total Depth:         4140.00 ft (KI	<b>4140.00 ft (KB) (TVD)</b>			Ref	erence Ele	evations:	3307.00 ft (KE 3294.00 ft (CF	
-	esHole Condition: Fair				KB t	o GR/CF:	13.00 ft	)
Serial #: 8671 Inside								
	osig @ 4091.00 ft (KB)			Capacity	:		8000.00 psig	
Start Date: 2014.0	7.07 End Date:	:	2014.07.07	Last Cali	b.:		2014.07.07	
Start Time: 13:50	0:05 End Time:		23:18:30	Time On Time Off		2014.07.07 @ 2014.07.07 @		
Presst 807 Pressre	rre vs. Time 807 Terupadure	-	Time	Pressure	Temp	RE SUMMA Annotation		
			(Min.)	(psig)	(deg F)			
		130						
1750		- 130	0 2	2015.66	125.06	Initial Hydro- Open To Flo		
1730		- 130 - 120	0 2 31			Initial Hydro- Open To Flo Shut-In(1)		
1500		- 120	2 31 92	2015.66 19.99 49.08 156.16	125.06 124.68 127.27 129.01	Open To Flo Shut-In(1) End Shut-In(	ow (1) (1)	
P300		- 120 - 110 - 1	2 31 92 92	2015.66 19.99 49.08 156.16 49.78	125.06 124.68 127.27 129.01 129.02	Open To Flo Shut-In(1) End Shut-In( Open To Flo	ow (1) (1)	
100		- 120 - 110 - 1	2 31 92 92 180	2015.66 19.99 49.08 156.16 49.78 89.31	125.06 124.68 127.27 129.01 129.02 131.91	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2)	ow (1) (1) ow (2)	
P300		- 120	2 31 92 92	2015.66 19.99 49.08 156.16 49.78	125.06 124.68 127.27 129.01 129.02	Open To Flo Shut-In(1) End Shut-In( Open To Flo	ow (1) (1) ow (2) (2)	
		Temperature (deg F)	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In(	ow (1) (1) ow (2) (2)	
100 100 100 100 100 100 100 100	GFL GFL	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2)	
The state of the s	situa re(tkus) Very	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2) -static	Mcf!/d
tran	very on Volume (bbl)	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2) -static	Mcf/d
1500 1500	Wery         Operation         Volume (bbl)           on         Volume (bbl)         0.44	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2) -static	Mcf/d
1500 1500	Wery         Operation         Volume (bbl)           on         Volume (bbl)         0.44	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2) -static	Mcf/d
1500 1500	Wery         Operation         Volume (bbl)           on         Volume (bbl)         0.44	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2) -static	Mcf/d
100 100 100 100 100 100 100 100	Wery         Operation         Volume (bbl)           on         Volume (bbl)         0.44	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2) -static	Mcf/d
20 70 70 70 70 70 70 70 70 70 7	Wery         Operation         Volume (bbl)           on         Volume (bbl)         0.44	Temperature (deg F) 18 19 59	2 31 92 92 180 301	2015.66 19.99 49.08 156.16 49.78 89.31 156.36	125.06 124.68 127.27 129.01 129.02 131.91 133.96 135.36	Open To Flo Shut-In(1) End Shut-In( Open To Flo Shut-In(2) End Shut-In( Final Hydro-	ow (1) (1) ow (2) (2) -static	Mcf/d

		DRI	LL STEM TEST I	REPORT	-		FLUID S	UMMARY
	BITE TING , INC.	Berexc	o, LLC		26/1s/36w	Rawlins K	S	
I EST			. Bramblew ood		Lillie #3-2	6		
		Wichita	, KS 67206		Job Ticket: 5	6938	DST#: 2	
		ATTN:	Pete Vollmer		Test Start: 2	014.07.07 @ ^	13:50:00	
Mud and Cushion Inf	formation							
Mud Type: Gel Chem			Cushion Type:			Oil A PI:		deg API
-	lb/gal		Cushion Length:			Water Salinity	:	ppm
-	sec/qt		Cushion Volume:		bbl			
Water Loss: 6.00 Resistivity:	in <sup>3</sup> ohm.m		Gas Cushion Type: Gas Cushion Pressur	٥.	psig			
Salinity: 600.00			Gas Cushion Fressur	σ.	psig			
	inches							
Recovery Informatio	n							
			Recovery Table			1		
	Length ft		Description		Volume bbl			
	8	39.00	OWCM 68%m, 15%w , 10%o	, 7%g	0.438			
	7	76.00	OCM 80%m, 10%o, 10%g		0.374			
Тс	otal Length:	165.	.00 ft Total Volume:	0.812 bbl				
N	um Fluid Sample	s: 0	Num Gas Bombs:	0	Serial #:			
	aboratory Name		Laboratory Location	on:				
R	ecovery Comme	ents: LC	M = 18 - 20#					
			ef. No: 56938		Printed			

Printed: 2014.07.07 @ 23:50:33

Ref. No: 56938





Lillie #3-26

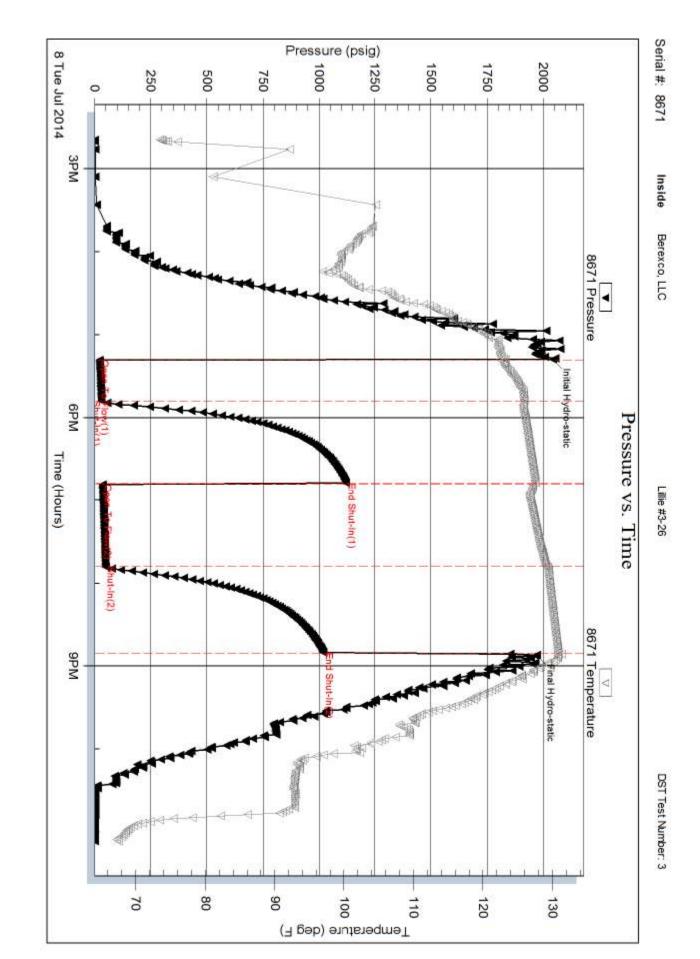
	DRILL STEM TES	ST REP	ORT			
RILOBITE	Berexco, LLC		26/1s/:	36w Raw	lins KS	
ESTING , INC	2020 N. Bramblew ood Wichita, KS 67206		Lillie	<b>#3-26</b>		
				et: 56939	DST#	:3
	ATTN: Pete Vollmer		Test Sta	irt: 2014.07	7.08 @ 14:39:00	
GENERAL INFORMATION:						
Formation:LKC "A"Deviated:NoWhipstock:Time Tool Opened:17:18:15Time Test Ended:23:06:15	ft (KB)		Test Ty Tester: Unit No:		entional Bottom H s Winder	lole (Reset)
Interval:4170.00 ft (KB) To42Total Depth:4260.00 ft (KB) (TVHole Diameter:7.88 inches Hole	′D)		Referen	ce ⊟evation KB to GR/	3294.0	0 ft (KB) 0 ft (CF) 0 ft
Serial #:         8671         Inside           Press@RunDepth:         48.17 psig         0           Start Date:         2014.07.08         14:39:05           Start Time:         14:39:05         14:39:05           TEST COMMENT:         30 - IF: Blow built         60 - ISI: No blow built           60 - FF: No blow         60 - FSI: No blow         60 - FSI: No blow	End Date: End Time: t to 1/4", died back, dead at 19 m back	2014.07.08 23:06:14 in.	Capacity: Last Calib.: Time On Btm Time Off Btm		8000.0 2014.07.0 07.08 @ 17:18:0 07.08 @ 20:52:0	8 0
Pressure vs. Ti	me		PRES		UMMARY	
SUTI Presure SUTI PRESURE SU	BTI Impendate 600 600 600 600 600 600 600 60	Time (Min.) 0 1 30 90 91 150 213 214	Pressure (psig)         To (du 2042.45           22.17         12           31.09         12           1123.37         12           35.71         12           48.17         12           1020.42         13	emp An eg F) 23.32 Initia 22.49 Ope 25.94 Shut 27.58 End 27.17 Ope 29.09 Shut 30.84 End	notation I Hydro-static n To Flow (1) :-In(1)	
Recovery			· · ·	Gas Ra	tes	
Length (ft)         Description           30.00         Mud w /trace of oil 100%r	Volume (bbl) n 0.15			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 56939		Dr	inted: 2014	.07.09 @ 08:11:4	14

A Dr.		DRI	LL STEM TEST REPO	RT	FLU	
	RILOBITE	Berexc	o, LLC	26/1s/36v	w Rawlins KS	
	ESTING		. Bramblew ood	Lillie #3-	-26	
			, KS 67206	Job Ticket:	56939 <b>DS</b>	T#: 3
NO.			Pete Vollmer	Test Start:	2014.07.08 @ 14:39:	00
Mud and G	Cushion Informa	tion				
Mud Type:	Gel Chem		Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt		Cushion Volume:	bbl		
Water Loss:	7.20 in <sup>3</sup>		Gas Cushion Type:			
Resistivity:	ohm.m		Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm					
Filter Cake:	2.00 inches					
Recovery	Information					
			Recovery Table			
		Length ft	Description	Volume bbl		
		30.00	Mud w /trace of oil 100%m	0.14	48	
	Total Len	igth: 30	00 ft Total Volume: 0.148	3 bbl		
	Num Fluic	d Samples: 0	Num Gas Bombs: 0	Serial	#:	
	Laborato	ry Name:	Laboratory Location:			
	Recovery	y Comments:				
	-					

Printed: 2014.07.09 @ 08:11:44

Ref. No: 56939





(I)		DRILL STEM T	ES	TREPO	ORT				
	RILOBITE	Berexco, LLC			26/	′1s/36w I	Rawlins	s KS	
	ESTING , INC.	2020 N. Bramblew ood			Lil	lie #3-26	5		
		Wichita, KS 67206			Job	Ticket: 56	6940	DST	#: 4
		ATTN: Pete Vollmer			Tes	t Start: 20	014.07.09	@ 07:34:00	)
GENERAL IN	NFORMATION:								
Formation: Deviated: Time Tool Open Time Test Ende		ft (KB)			Tes	ter:	Conventio James Wir 57		Hole (Reset)
<b>Interval:</b> Total Depth: Hole Diameter:	<b>4246.00 ft (KB) To 43</b> 4310.00 ft (KB) (T\ 7.88 inchesHole	/D)			Ref	erence Ele KB t	evations: o GR/CF:	3294.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 86 Press@RunDep Start Date: Start Time: TEST COMM	0th: 291.33 psig 2014.07.09 07:34:05 MENT: 30 - IF: Blow buil 60 - ISI: No blow	End Date: End Time: t to BOB (11") at 26 min.		2014.07.09 17:51:45	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.0 2014.07. 9 @ 09:40:3 9 @ 14:38:4	30
	120 - FSI: No blo Pressure vs. T	w back				RESSUR			
2200 1700 1700 1700 1700 100 1000 1		SCH Tempendure	140 139 120 100 100 99 50 70	Time (Min.) 0 1 31 92 92 181 297 299	Pressure (psig) 2103.80 26.90 163.13 362.03 166.92 291.33 360.97 2022.77	133.95 131.87	Open To Shut-In( End Shu Open To Shut-In( End Shu	dro-static 9 Flow (1) 1) t-ln(1) 9 Flow (2) 2)	
	Recovery		т			-	s Rates		· · · · · · · · · · · · · · · · · · ·
Length (ft) 259.00	Description MCW w /trace oil 92%w ,	Volume (bbl)           8%m         1.27	ł			Choke (i	nches) Pres	ssure (psig)	Gas Rate (Mcf/d)
178.00	MW w/trace oil 50%w, 4		+						
90.00	SO/WCM 57%m, 37%w,	4%g, 2%o 0.44	1						
60.00	OCM 65%m, 31%o, 4%g	0.84	ļ						
			ł						
* Recovery from mult	iple tests		1						
Trilobite Tes	ting Inc	Ref. No: 56940				Printed:	2014 07 (	09 @ 22:39	·45

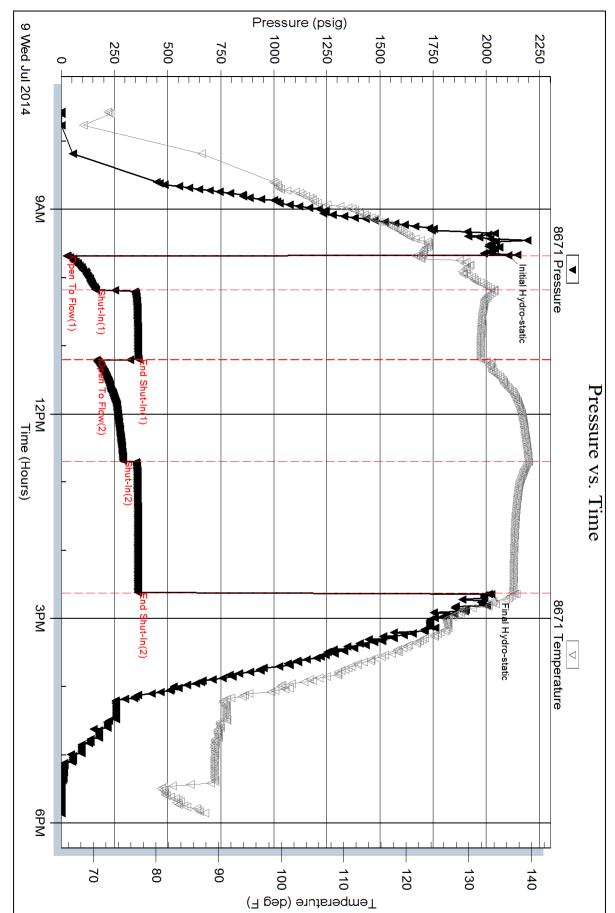
	DRILL STEM TES	ST REP	ORT		
RILOBITE	Berexco, LLC		26/1s/36v	v Rawlins	KS
ESTING , INC.	2020 N. Drambicw 000		Lillie #3-	26	
	Wichita, KS 67206		Job Ticket:	56940	DST#:4
MACHIN	ATTN: Pete Vollmer		Test Start:	2014.07.09 @	07:34:00
GENERAL INFORMATION:					
Formation:LKC "B"Deviated:NoWhipstock:Time Tool Opened:09:40:45Time Test Ended:17:51:45	ft (KB)		Test Type: Tester: Unit No:	Convention James Wind 57	al Bottom Hole (Reset) der
Interval:4246.00 ft (KB) To43Total Depth:4310.00 ft (KB) (The construction of the con				Elevations: B to GR/CF:	3307.00 ft (KB) 3294.00 ft (CF) 13.00 ft
Serial #: 8320       Outside         Press@RunDepth:       psig         Start Date:       2014.07.09         Start Time:       07:34:05         TEST COMMENT:       30 - IF: Blow bui         60 - ISI: No blow	End Date: End Time: It to BOB (11") at 26 min.	2014.07.09 17:53:00	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2014.07.09
90 - FF: BIOW DU 120 - FSI: No blo Pressure vs. 1 220		Time	PRESS	URE SUMM	
200 1770 1770 100 100 100 100 100		(Min.)	(psig) (deg l		
Recovery			0	Gas Rates	
Length (ft)         Description           259.00         MCW w /trace oil 92%w ,	Volume (bbl)           8%m         1.27		Chol	ke (inches) Press	sure (psig) Gas Rate (Mcf/d)
259.00         MCW w/trace oil 92%w,           178.00         MW w/trace oil 50%w, 4					
90.00 SO/WCM 57%m, 37%w ,	4%g, 2%o 0.44				
60.00 OCM 65%m, 31%o, 4%g	0.84				
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 56940			ed: 2014.07.09	0 00 00 15

	r						
(Ch)		DRILL STEM TEST REPORT FLUID SUMM				LUID SUMMARY	
RILOBITE		Berexco, LLC		26/1s/36w	Rawlins KS		
	ESTING , INC.	2020 N	. Bramblew ood		Lillie #3-2	26	
		Wichita	, KS 67206		Job Ticket:	56940	DST#:4
		ATTN:	Pete Vollmer		Test Start:	2014.07.09 @ 07	:34:00
Mud and Cus	hion Information						
Mud Type: Gel	Chem		Cushion Type:			Oil A PI:	deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:	8500 ppm
Viscosity:	69.00 sec/qt		Cushion Volume:		bbl		
Water Loss:	6.40 in <sup>3</sup>		Gas Cushion Type:				
Resistivity:	ohm.m		Gas Cushion Pressure		psig		
Salinity: Filter Cake:	800.00 ppm 2.00 inches						
Recovery Info	ormation						
			Recovery Table			_	
	Lengt ft	th	Description		Volume bbl		
		259.00	MCW w/trace oil 92%w, 8%m		1.27	4	
		178.00	MW w /trace oil 50%w , 45%m	, 5%g	0.87	5	
		90.00	SO/WCM 57%m, 37%w, 4%g	2%0	0.44		
		60.00	OCM 65%m, 31%o, 4%g		0.84	2	
	Total Length:	587	.00 ft Total Volume:	3.434 bbl			
	Num Fluid Samp		Num Gas Bombs:	0	Serial #	<b>#:</b>	
	Laboratory Nam		Laboratory Location	1:			
	Recovery Com		V = .542 ohms @ 91.9 deg F lorides = 8,500 ppm				
		Ŭ,	1011003 = 0,000 ppm				

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Ref. No: 56940

Trilobite Testing, Inc



Berexco, LLC

Serial #: 8671

Inside

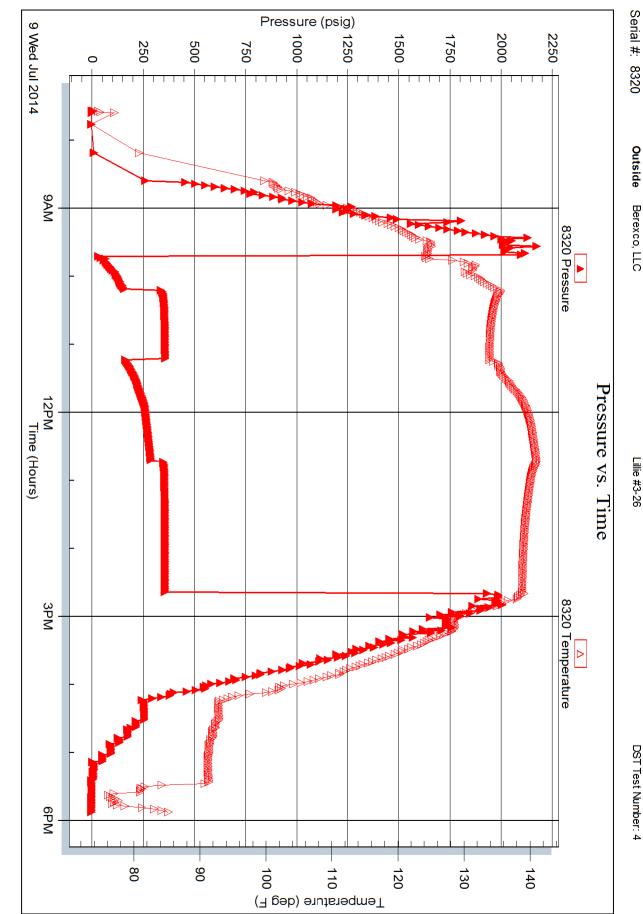
Lillie #3-26

DST Test Number: 4

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Ref. No: 56940





Serial #: 8320 Outside Berexco, LLC

Lillie #3-26

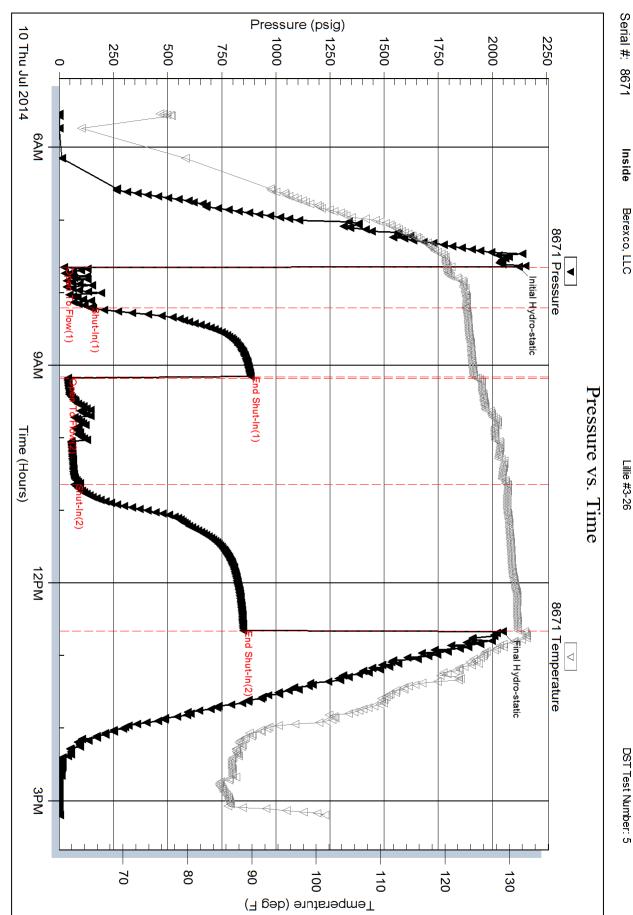
		DRILL STEM TE	ST	REPO	ORT				
RILOBITE		Berexco, LLC			26/	1s/36w	Rawlins <b>k</b>	(S	
		2020 N. Bramblew ood Wichita, KS 67206				lie #3-26			
						Ticket: 56		DST#:5	
		ATTN: Pete Vollmer			Tes	t Start: 20	014.07.10 @	05:32:00	
GENERAL INFOR	RMATION:								
Formation: LI Deviated: No Time Tool Opened: 07 Time Test Ended: 15	7:39:00	ft (KB)			Tes	ter:	Conventiona James Wind 57	Il Bottom Hol er	e (Reset)
Interval: 4306	.00 ft (KB) To 43	370.00 ft (KB) (TVD)			Ref	erence Ele	evations:	3307.00	ft (KB)
•	4370.00 ft (KB) (T\	,						3294.00	
Hole Diameter:	7.88 inchesHole	e Condition: Fair				KB t	o GR/CF:	13.00	ft
Serial #: 8671	Inside								
Press@RunDepth:	69.82 psig				Capacity			8000.00	psig
Start Date: Start Time:	2014.07.10 05:32:05	End Date: End Time:		)14.07.10 15:11:30	Last Cali Time On			2014.07.10 @ 07:38:45	
	00.02.00				Time Off			@ 12:40:15	
	120 - FSI: No blo Pressure vs. T						RE SUMM		
2250 - 8671 P			Τ	Time	Pressure	Temp	Annotatio	on	
2000				(Min.) 0	(psig) 2121.06	(deg F) 120.95	Initial Hydro	o-static	
1750				1	22.25	120.33			
1500				34	143.12	123.21	Shut-In(1)	- (1)	
1270			Temp	91 92	882.23 39.91		End Shut-l Open To F		
1000			nperature (deg F)	180	69.82	129.61	Shut-In(2)		
E   / 🖸	at the set (1)	- 50	(deg F)	301	849.00	131.29	End Shut-l		
644		50 50 57 57 57 57 57 57 57 57 57 57 57 57 57		302	2046.80	132.34	Final Hydro	D-Static	
10 Thu Jul 2014	Time (Hours)		_						
Longth (fi)	Recovery	V-1		<b></b>		_	s Rates		Detr (M. 11
Length (ft) 89.00 GOC	Description	Volume (bbl) %q 0.44		<u> </u>		Choke (i	nones) Pressu	re (psig) Ga	s Rate (Mcf/d)
	5%m, 41%o, 4%g	0.15							
2.00 Free	v	0.01							
* Recovery from multiple tests									

RILOBITE			ILL STEM TEST REPO			D SUMMAR
		Berex	co, LLC	26/1s/36	w Rawlins KS	
	ESTING , INC.	20201	N. Bramblew ood a, KS 67206	Lillie #3 Job Ticket		#:5
		ATTN:	Pete Vollmer		: 2014.07.10 @ 05:32:0	
lud and Cushie	on Information	ļ				
lud Type: Gel Ch lud Weight: iscosity: /ater Loss: esistivity: alinity: & Iter Cake:	em 9.00 lb/gal 56.00 sec/qt 6.40 in <sup>3</sup> ohm.m 300.00 ppm 2.00 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg API ppm
ecovery Inform	nation					
			Recovery Table			
	Leng ft		Description	Volume bbl		
		89.00	GOCM 62%m, 26%o, 12%g		138	
		31.00 2.00	OM 55%m, 41%o, 4%g Free Oil		1 <u>52</u> 010	
	Recovery Com					

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Ref. No: 56941





Lillie #3-26

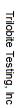
	DRILL STEM TES	TREP	ORT		
	Berexco, LLC		26/1s/	36w Rawlins K	(S
ESTING , INC.	2020 N. Bramblew ood Wichita, KS 67206		Lillie : Job Tick	<b>#3-26</b> et: 56942	DST#:6
	ATTN: Pete Vollmer		Test Sta	art: 2014.07.11 @	05:07:00
GENERAL INFORMATION:					
Formation:LKC "D - E"Deviated:NoWhipstock:Time Tool Opened:07:18:00Time Test Ended:14:40:00	ft (KB)		Test Ty Tester: Unit No:	James Winde	l Bottom Hole (Reset) er
Interval:4366.00 ft (KB) To44Total Depth:4460.00 ft (KB) (The second secon		Referer	ce Elevations: KB to GR/CF:	3307.00 ft (KB) 3294.00 ft (CF) 13.00 ft	
Serial #: 8671 Inside					
Press@RunDepth: 93.13 psig		0044.07	Capacity:		8000.00 psig
Start Date:         2014.07.11           Start Time:         05:07:05	End Date: End Time:	2014.07.11 14:40:00	Last Calib.: Time On Btm Time Off Btm	2014.07.11	
120 - FSI: No blo Pressure vs. 7	ĩme		PRES	SURE SUMM	ARY
220 200 200 200	135 137 I Graponare 139 I Graponare 139 139 139 139 139 139 139 139 139 139	Time (Min.) 0 1	(psig) (d 2185.92 1 23.44 1	emp Annotatio eg F) 24.46 Initial Hydro 23.84 Open To Fl 27.45 Shut-In(1)	o-static
		31 91 91	597.92 1	27.45 Shut-In(1) 27.99 End Shut-Ir 28.02 Open To Fi	
		181		33.15 Shut-In(2)	
		303 304		33.11 End Shut-Ir 33.92 Final Hydro	
1Fri 1/2014 Time (Huns)				Can Datas	
Length (ft) Description	Volume (bbl)			Gas Rates Choke (inches) Pressur	re (psig) Gas Rate (Mcf/d)
175.00 OCM 87%m, 7%g, 6%o	0.86		I		
* Recovery from multiple tests					
Trilobite Testing, Inc	Ref. No: 56942	1	P	inted: 2014.07.11	@ 15:42:11

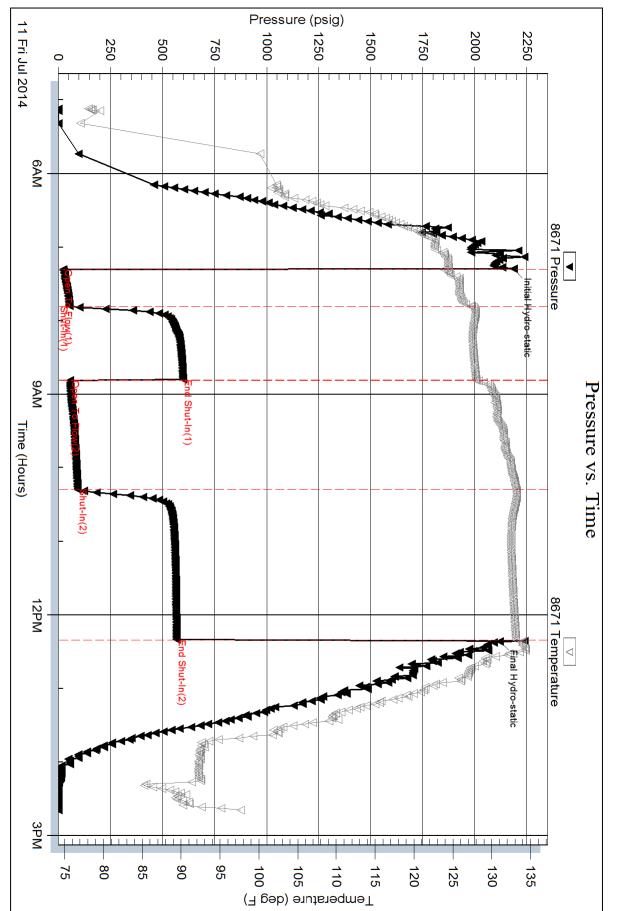
	DRILL STEM TES	ST REPO	ORT			
RILOBITE	Berexco, LLC		26/1s/36v	w Rawlins	KS	
ESTING , INC.	2020 N. Bramblew ood Wichita, KS 67206		Lillie #3-			
			Job Ticket:		DST#:	6
	ATTN: Pete Vollmer		Test Start:	2014.07.11 @	@ 05:07:00	
GENERAL INFORMATION:						
Formation:LKC "D - E"Deviated:NoWhipstock:Time Tool Opened:07:18:00Time Test Ended:14:40:00	ft (KB)		Test Type: Tester: Unit No:	Convention James Wine 57		ole (Reset)
Interval:4366.00 ft (KB) To44Total Depth:4460.00 ft (KB) (TvHole Diameter:7.88 inches Hole	(D)			Elevations: B to GR/CF:		) ft (KB) ) ft (CF) ) ft
Serial #: 8320OutsidePress@RunDepth:psigStart Date:2014.07.11Start Time:05:07:05	<ul> <li>4367.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2014.07.11 14:41:15	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2014.07.11	
120 - FSI: No blov Pressure vs. T	rted around 40 min., built to 1 1/4 w back	"	PRESS		IARY	
Cool Prosure 520 Prosure 500 500 500 500 500 500 500 50	R30 Ferrenciae 	Time (Min.)	Pressure Tem (psig) (deg	Annotat		
Recovery			(	Gas Rates		
Length (ft)         Description           175.00         OCM 87%m, 7%g, 6%o	Volume (bbl)		Cho	ke (inches) Press	sure (psig)	Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 56942		Print	ed: 2014.07.1	1 @ 15.42.1	1

(Tr)-		DRI	LL STEM TEST R	REPORT	Г		FLUID S	UMMAR
	RILOBITE	Berexo	co, LLC		26/1s/36w	/ Rawlins K	5	
	ESTING , INC		I. Bramblew ood a, KS 67206		Lillie #3-2 Job Ticket:		DST#:6	
		ATTN:	Pete Vollmer			2014.07.11 @ (		
Mud and Cu	shion Information	<b>ļ</b>						
Mud Type: Ge	el Chem		Cushion Type:			Oil A PI:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity	:	ppm
/iscosity:	56.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	6.40 in <sup>3</sup>		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressure	:	psig			
Salinity:	800.00 ppm							
Filter Cake: Recovery In	2.00 inches							
Necovery III	normation		Recovery Table					
	Len	gth	Description		Volume	7		
	ft		001070/ 70/ 00/		bbl			
		175.00	OCM 87%m, 7%g, 6%o		0.86	1		
	Total Length:		.00 ft Total Volume:	0.861 bbl				
	Num Fluid Sam Laboratory Na		Num Gas Bombs: Laboratory Locatior	0 1:	Serial #	#:		
	Recovery Com		,, <b>,</b>					

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Ref. No: 56942

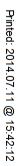




Lillie #3-26

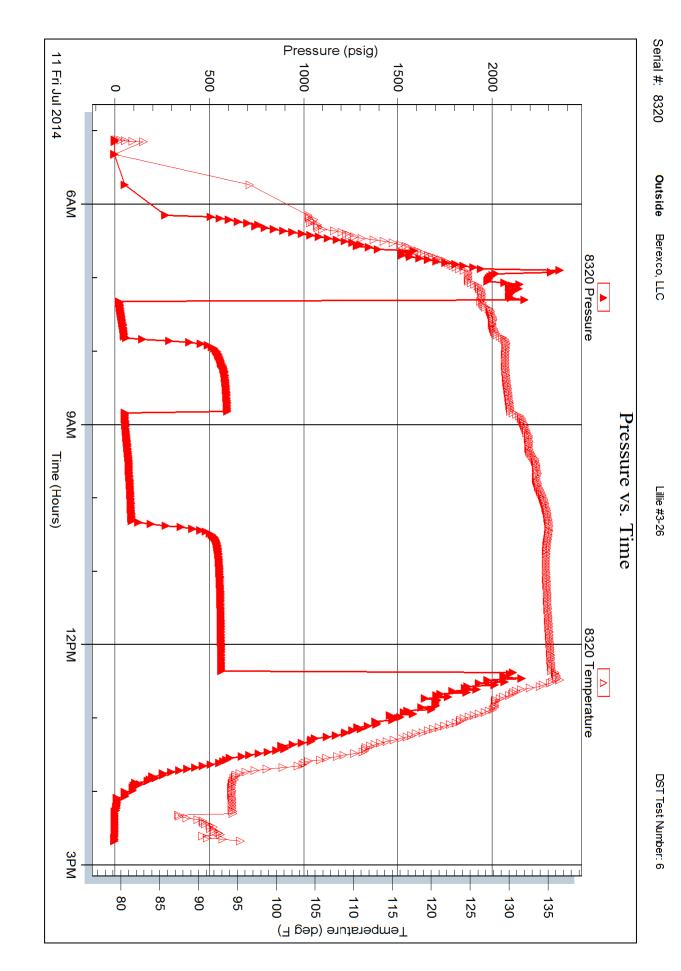
DST Test Number: 6

Serial #: 8671 Inside Berexco, LLC



Ref. No: 56942

Trilobite Testing, Inc



## **BEREXCO LLC**

#### LILLIE 3-26

#### E/2 NW NE NW SEC 26 T1S R36W

#### **RAWLINS COUNTY, KANSAS**

SUMMARY	1
WELL DATA	2
FORMATION TOPS	3
LITHOLOGY & SHOWS	4
SERVICES	10
DRILL STEM TESTS	11
MUD REPORTS	23

#### SUMMARY

The Berexco LLC Lillie 3-26 in Rawlins County, Kansas spud July 2, 2014 and reached a total depth of 4850' on July 12, 2014. Wellsite geological supervision commenced at 3000'. The primary objectives were the Pennsylvanian Missourian Lansing-Kansas City limestones which produce in East Fork field. Secondary zones of interests were the Permian Foraker and Virgilian Oread limestones. The Lillie 3-26 was drilled using seismic and nearby well control.

On-site evaluation was by drill stem testing after sample analysis and consideration of structural position. Six DSTs were run.

#### Foraker and Oread

DST 1 in the Foraker recovered 205 ft of mud with a trace of oil, probably from 50 bbl of oil spotted at 3441'. The uppermost limestone was fossiliferous grainstone to mudstone with very good fluorescence and cut. Scattered black oil was present in a predominately tight limestone with occasional pin-point vugs and intercrystalline porosity. Wireline logs indicate potential production in the Foraker. The Berexco LLC Lillie 2-26 just to the west also had good oil shows and favorable wireline log values in the Foraker.

DST 2 in the Oread recovered 165 ft of oil and water cut mud. Samples were fossiliferous grainstone with traces of interparticle porosity, scattered oil staining, and good cuts. The test revealed the Oread is likely depleted from nearby production.

#### Lansing-Kansas City

DST 3 in the Lansing A recovered 30 ft of mud with a trace of oil. Poor flow pressures and wireline logs confirmed the lack of effective porosity. Samples exhibited scattered vuggy and interparticle porosity with good spotty live black oil in vugs.

DST 4 in the Lansing B recovered 60 ft of oil cut mud and 527 ft of mud cut water with a trace of oil. The grainstone exhibited fair to poor porosity, abundant live black oil stain, and very good cuts.

DST 5 in the Lansing C recovered 2 ft of free oil and 120 ft of gassy oil cut mud. Recovery volumes were limited by lost circulation material plugging the test tool. Samples were very tight mudstone with no sample shows or porosity.

DST 6 in the combined Lansing D and E recovered 175 ft of gassy oil cut mud. Wireline logs indicate poor porosity in the E. Samples of the E were mudstone to packstone with scattered heavy oil specks and stain.

The Lansing F was nonporous limestone with no sample show or observed porosity. The Pawnee was not penetrated. 50 bbl of lease crude were spotted at 3441' to free a stuck drill string. 500 bbl of mud were lost after testing the Foraker at 3830'. Mud losses continued to TD; 18-20 lb/bbl LCM was required.

#### **Oil Well Completion**

5 1/2" production casing was run to complete the Lillie 3-26 as an oil producer.

#### Peter J. Vollmer Consulting Wellsite Geologist, WPG #3369 July 2014

Berexco LLC Lillie 3-26

#### WELL DATA

OPERATOR:	Berexco LLC 2020 North Bramblewood Drive Wichita, Kansas 67206			
WELL NAME:	Lillie 3-26			
SURFACE LOCATION:	330' FNL & 1880' FWL E/2 NW NE NW Sec. 26, T1S, R36W Rawlins County, KS			
LATITUDE & LONGITUDE:	39.9436223, -101.3290071 (From State, calculated from footages)			
BOTTOM HOLE LOCATION:	Vertical hole			
ELEVATIONS:	3294' GL 3307' KB			
API NUMBER:	15-153-21030			
BASIN:	Mid-Continental Arch			
FIELD:	East Fork			
HOLE SIZE:	12 ¼" to 310'; 7 7/8" to 4580'			
CASING:	8 5/8" J-55 24# STC set to 310' KB			
SPUD DATE:	July 2, 2014			
TD DATE:	July 12, 2014			
TOTAL DEPTH:	4580' Rig TD 4580' Log TD			
LAST FORMATION:	Pennsylvanian Lansing-Kansas City			
WELL STATUS:	Ran 5 1/2" production casing			
OPERATOR REPRESENTATIVE:	Dana Wreath - Vice President			
WELLSITE GEOLOGIST:	Peter J. Vollmer			

## FORMATION TOPS

Formation KB	Sample Top	Log Top	Log TVD	Log Datum 3307
Pierre Sh	Cased	Cased	N/A	N/A
Niobrara Fm	N/A	1240	1240	+2067
Fort Hays Ls Mbr	N/A	1743	1743	+1564
Carlile Sh	N/A	1778	1778	+1529
Dakota	N/A	2146	2146	+1161
Cheyenne	N/A	2733	2733	+574
Blaine	N/A	2988	2988	+319
Stone Corral Anhydrite	3198	3201	3201	+106
Base Anhydrite	3232	3230	3230	+77
Chase Limestone	3409	3413	3413	-106
Neva	3681	3689	3689	-382
Red Eagle	3733	3736	3736	-429
Foraker	3798	3798	3798	-491
Wabaunsee	3948	3942	3942	-635
Topeka	4010	4012	4012	-705
Deer Creek Sand	4056	4054	4054	-747
Oread	4124	4126	4126	-819
Heebner Sh	4180	4186	4186	-879
Lansing-Kansas City				
"A"	4232	4231	4231	-924
"B"	4290	4288	4288	-981
"C"	4349	4348	4348	-1041
"D"	4393	4394	4394	-1087
"E"	4434	4438	4438	-1131
"F"	4473	4476	4476	-1169
TD Driller	4580			
TD Logger		4580	4580	-1273

The following descriptions are interpretive. Rig crew members collected unlagged samples from 3500' to 4580' TD. Depths are rig depths except where noted as wireline.

3500' - 3528'	SHALE: light reddish brown to reddish orange, firm to soft, fissile to blocky, very silty, sandy in part, non to slightly calcareous.
3528' - 3544'	SANDSTONE: light gray to reddish brown, friable to firm, very fine grained grading to silt, sub rounded to rounded, well sorted, calcareous cement, occasional clay filled, no visible porosity, no shows.
3544' - 3597'	SHALE: reddish brown, firm to hard, fissile to blocky, very silty, sandy in part, non to slightly calcareous, trace tan Limestone.
3597' - 3613'	SILTSTONE: very light gray to white to light reddish brown, friable, very fine grained grading to silt, subrounded, well sorted, calcareous cement, clay fill, occasional grading to Shale, tight, no shows.
3613' - 3616'	ANHYDRITE: white to translucent, firm, micro granular.
3616' - 3681'	SHALE: reddish brown to light gray to greenish gray to dark gray, firm, blocky, very silty, non calcareous, fossil fragment, trace Limestone and SANDSTONE stringers.

NEVA	SAMPLE TOP: 3681'	LOG TOP: 3689'	SUBSEA: -382'
3681' - 3692'	LIMESTONE: white to li shows.	ght gray, firm to hard, chal	ky, fossil fragment, tight, no
3692' - 3733'	SHALE: reddish brown, to slightly calcareous, trad	•	y, very silty, sandy in part, non

RED EAGLE	SAMPLE TOP: 3733'	LOG TOP: 3736'	SUBSEA: -429'
3733' - 3761'		nt (Ostracods), clean, tig	rystalline to microgranular, ght, no shows, interbedded SHALE:
3761' - 3798'		NE: white to light gray, f	, n calcareous, occasional silty, with irm to hard, cryptocrystalline, fossil

FORAKER	SAMPLE TOP: 3798' LOG TOP: 3798' SUBSEA: -491'
3798' - 3814'	LIMESTONE: cream to white to very light brown, firm, grainstone to mudstone, abundant fossil fragment, (Fusulinid, Brachiopod, Crinoid), scattered black oil specks and stain, trace pin to part vuggy porosity, occasional very fine intercrystalline porosity, even bright yellowish white fluorescence, immediate blooming and fast streaming yellowish white cuts, good show.
3814' - 3833'	LIMESTONE: cream to white to light gray, firm to hard, microgranular texture, fossil fragment (Brachiopod), occasional dark gray Shale, occasional black oil specks, no visible porosity, occasional yellowish white fluorescence, trace slow streaming yellowish white cut, very poor show.
3833' - 3843'	LIMY SANDSTONE: very light gray to white, friable, very fine grained, subrounded, well sorted, calcareous cement, clay fill, grading to SANDY LIMESTONE, black specks, tight to trace porosity, no shows.
3843' - 3910'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty, occasional light gray to white to light red Limestone stringers: cream, black algal stain.
3910' - 3942'	SHALE: dark gray to black, firm, fissile to blocky, non calcareous, carbonaceous in part, fossil fragments (Brachiopod).
3942' - 3948'	SHALE: light reddish brown, soft to firm, sub blocky to lumpy, non calcareous, clayey, occasional silty, thin gray Limestone partings.
WABAUNSEE	SAMPLE TOP: 3948' LOG TOP: 3942' SUBSEA: -635'
3948' - 3964'	LIMESTONE: white to light gray with light reddish brown mottled, hard to firm, cryptocrystalline, chalky texture, light reddish brown SHALE partings, rare fossil fragment, tight, no shows.
3964' - 3972'	LIMESTONE: white to light gray, hard to firm, packstone to wackestone, firm to hard, fossil fragment, occasional black oil specks, no visible porosity, bright yellowish white fluorescence, fair streaming yellowish white cuts, poor show.
3972' - 4010'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, thin Limestone stringers and inclusions.

ТОРЕКА	SAMPLE TOP: 4010'	LOG TOP: 4012'	SUBSEA: -705'
4010' - 4022'		to white, hard to firm, cryp reous, clean, tight, no show	tocrystalline, fossil fragment s.
4022' - 4032'	SHALE: gray, firm, sub b (Brachiopod).	locky, non to slightly calca	reous, dull, fossils
4032' - 4056'	LIMESTONE: light gray clear to opaque chert, clea	• •	tocrystalline, fossil fragments,

DEER CREEK SAND	SAMPLE TOP: 4056'	LOG TOP: 4054'	SUBSEA: -747'
4056' - 4074'	well rounded, well sorted	y to very light gray, very fri , weak calcareous cement, ace to poor porosity, no sho	
4074' - 4085'		soft to firm, sub blocky, no hite to light red Limestone	n calcareous, occasional silty, stringers.
4085' - 4096'	chalky, very slightly argi	ight red brown, mottled, fir llaceous in part, occasional ack dead oil, tight, no show:	sandy, interbedded reddish
4096' - 4124'			in part, soft to firm, blocky, n part, gummy, clayey to sticky.

OREAD	SAMPLE TOP: 4124'	LOG TOP: 4126'	SUBSEA: -819'
4124' - 4140'	LIMESTONE: cream to white, firm to hard, mudstone to grainstone, rare ooliths, chalky in part, fossil fragment, tight to trace interparticle porosity, scattered black to dark brown live oil stain, bright yellowish white fluorescence. blooming yellowish white cuts, fair show decreasing with depth.		
4140' - 4160'	LIMESTONE: gray to lig texture, light tan to opaqu		stone, rare fossil, very chalky
4160' - 4164'	SHALE: gray black to da calcareous, pyrite.	ırk gray, firm, sub fissile, ca	arbonaceous, non to very slightly
4164' - 4176'			are fossil, occasional slightly crystals, thin gray Shale partings,

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HEEBNER SH	SAMPLE TOP: 4180'	LOG TOP: 4186'	SUBSEA: -879'
4176' - 4194'	<u> </u>	ck, hard to firm, fissile, slig ssil fragments (Brachiopod)	ghtly to very carbonaceous, non ).
4194' - 4232'	SHALE: light gray to lig calcareous, occasional so		n, firm, blocky, n to slightly

LANSING- KANSAS CITY "A"	SAMPLE TOP: 4232'	LOG TOP: 4231'	SUBSEA: -924'
4232' - 4252'	interclasts and peloids, a tight to poor interparticle	bundant fossil fragment, sc porosity, occasional vuggy te fluorescence, instant blo	ne to grainstone, occasional attered black heavy oil stain, y porosity with dark brown live oming yellowish white cuts, with
4252' - 4254'	SHALE: gray to dark gra	y, firm, blocky, non to slig	htly calcareous.
4254' - 4264'			ery fine grained, well rounded, ht to trace porosity, no show.
4264' - 4290'	SHALE: light gray to rec slightly calcareous, very	ldish brown to maroon, firn silty in part.	n, blocky to fissile, non to

LANSING- KANSAS CITY "B"	SAMPLE TOP: 4290'	LOG TOP: 4288'	SUBSEA: -981'
4290' - 4308'	fossil(Crinoid, Fusulinids	s), fair intergranular porosi black oil, bright yellowish	instone, occasional ooliths, ty and poor vuggy porosity, white fluorescence, instant
4308' - 4312'	SHALE: dark gray to gra fragments, Limestone par		ssile, slightly calcareous, fossil
4312' - 4329'	LIMESTONE: light brow interbedded gray Shale, t	vn to light gray, firm, argill ight.	aceous, fossil fragment,
4329' - 4334'	SHALE: gray, firm, platy dull.	v, n to slightly calcareous, o	occasional fossil (Brachiopod),

4334' - 4349'	SHALE: reddish brown, firm to hard, blocky to fissile, non to slightly calcareous.		
LANSING- KANSAS CITY "C"	SAMPLE TOP: 4349' LOG TOP: 4348' SUBSEA: -1041'		
4349' - 4366'	LIMESTONE: white to light gray, firm, grainstone, fossil fragment (Fusilinid), rare ooliths, poor intergranular and vuggy porosity, spotty live black oil stain, bright yellowish white fluorescence, instant blooming bright yellowish white cuts, good show.		
4366' - 4380'	SHALE: dark gray to gray, firm, platy to fissile, slightly calcareous, dull, fossil fragment (Brachiopod), light gray Limestone stringers.		
4380' - 4393'	SHALE: dark gray, firm, sub fissile, non to slightly calcareous, pyrite.		

LANSING- KANSAS CITY "D"	SAMPLE TOP: 4393'	LOG TOP: 4394'	SUBSEA: -1087'
4393' - 4404'			mudstone, occasional ooliths (Crinoid), trace chert, tight, no
4404' - 4434'	SHALE: dark gray to gray brown Limestone parting	y, firm, platy to fissile, slig s.	htly calcareous, very light

LANSING- KANSAS CITY "E"	SAMPLE TOP: 4434'	LOG TOP: 4438'	SUBSEA: -1131'
4434' - 4452'	pellet, fossil fragment, tig brown to black oil specks	ht to poor vuggy and interp	ne to packstone, occasional particle porosity, trace dark white fluorescence, occasional
4452' - 4462'	SHALE: dark gray to gray occasional very carbonace	y to black, firm, platy to fis eous.	sile, slightly calcareous,
4462' - 4473'	SHALE: light gray, firm, dull.	platy, non to slightly calcar	reous, rare fossil (Brachiopod),

LANSING- KANSAS CITY "F"	SAMPLE TOP: 4473'	LOG TOP: 4476'	SUBSEA: -1169'
4473' - 4484'	LIMESTONE: cream to v fossil fragment, clean, der		n to hard, mudstone, occasional
4484' - 4490'	SHALE: dark gray to gra slightly carbonaceous.	y, firm, platy to fissile, slig	htly calcareous, occasional
4490' - 4508'			ne to packstone, chalky in part, eddish brown Shale partings,
4508' - 4528'		o light gray, soft to firm, su al light gray to white Limes	•
4528' - 4536'	LIMESTONE: white to li chalky in part, tight, no sl		mudstone, occasional fossil,
4536' - 4570'	SHALE: reddish brown, for occasional Limestone stri		y, non to slightly calcareous,
4570 - 4580' TD		white, firm to hard, mudstor n Shale partings, trace orar	ne, chalky, with interbedded nge Chert, tight, no show.

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#### SERVICES

CONTRACTOR: Toolpusher:	Beredco Drilling Inc., Rig 2 Milo Salinas	
DRILLING FLUIDS: Mud Type: Engineer:	Morgan Mud, Inc. Freshwater Chemical Dave Lines	McCook, ND 308-340-5946
MUD LOGGING:	None	
WELLSITE GEOLOGY:	T. M. McCoy & Co., Inc. Peter J. Vollmer	Wilson, WY 307-733-4332
DRILL STEM TESTING:	Trilobite Testing, Inc. James Winder DST 1: 3752' - 3830' Foraker DST 2: 4090' - 4140' Oread DST 3: 4170' - 4260' LKC "A" DST 4: 4246' - 4310' LKC "B" DST 5: 4306' - 4370' LKC "C" DST 6: 4366' - 4460' LKC "D & E"	Hays, KS 785- 625-4778
DIRECTIONAL DRILLING:	None	
WIRELINE LOGS:	Pioneer Wireline Services RAG: Surface casing - TD Micro: 3100' - TD Jerrod Long	Hays, KS 785-625-3858

	WELPFILE
ALLIED OIL & GA	S SERVICES, LLC 063355
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	D. # 20-8651475 SERVICE POINT: Datalanty
DATE 2/13/14 2/2 3/0	ALLED OUT ON LOCATION JOB START JOB FINISH
LEASE Lill' WELL# 3-36 LOCATION BLAND	NTO AGT 42 705.5 Reality STATE
CONTRACTOR deserver of type of JOB	OWNER Some
HOLE SIZET/2T.D.4510CASING SIZE1/2DEPTH4500TUBING SIZEDEPTHDEPTHDRILL PIPEDEPTH	CEMENT AMOUNT ORDERED 4 SMALW 3/4 Flo 250 Con 10 March 200 5-
TOOL DEPTH PRES. MAX MINIMUM	COMMON_2 0 @172 4475 2
CEMENT LEFT IN CSG. 42-0	POZMIX@ GEL@ CHLORIDE@
DISPLACEMENT EQUIPMENT	450 @ 1901 889/20 Sult 265/6 @ 2635 68500
PUMPTRUCK CEMENTER ALER RUGH # 107 777 HELPER KURN RUGH	Gillowite 185016 @ 175 122500 Flegend 33816 @ 82 [003 20
# G. 91 DRIVER Jues M (Two) BULKTRUCK # Gleb DRIVER Jues J (Two)	<u>Mc Venil (01002</u> 6,873.96) (3.32077/3,975)
REMARKS:	HANDLING 824 @ 2 2045 2 MILEAGE 2 Don/all 34-20 Ton 1205 5 TOTAL
Hun Cin Cinlute, Mr. 205/KRH 105KM Ast 4205K Acun 5112 Tol W/250 Com	H 10905-07 SERVICE
fling no 108 Mil HD, w/ 1800955 DF Land Plane 2300 P57 Plant Hell Coment Stick Apt Or white	DEPTH OF JOB PUMP TRUCK CHARGE 2265
LOST 14 CR. C SO BBL Displored LOST ALL CR. O GOBAL Trade for Trade for	MILEAGE SO @ 3-20 385 MANIFOLD - Hed @255
CHARGE TO: BISCICO	(3069.53/31%) TOTAL 9.90113
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
	AFU Howt Shor @ 545 545
To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or	<u>Scretcher</u> - 28 @ 69- 2492 22 <u>Concerter 5-14</u> @ 57 _ 782 @@
contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL	(139345/3120) TOTAL 4,49300
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)

PRINTED NAME
SIGNATURE PLEN SAM

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SALES TAX (If Any)
TOTAL CHARGES 31 270, 19
DISCOUNT 9.69375 (318) FPAID IN 30 DAYS
31,51643Net.

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