Confidentiality Requested: Yes No

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

1217102

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 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.xxxxx) (e.gxxx.xxxxx)					
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	Elevation: Ground: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used? Yes No					
OG GSW Temp. Abd. CM (Coal Bed Methane)						
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 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 #:	Location of fluid disposal if hauled offsite:					
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	1217102
Operator Name:	Lease Name:	Well #:
Sec TwpS. R □ East □ West	County:	
INSTRUCTIONS: Show important tans of formations populated	Detail all cores Benort all final	conies of drill stems tests 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 She	eets)	Yes No	L	og Formatio	on (Top), Depth ar	nd Datum	Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING	RECORD Ne	w 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
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	
Protect Casing							

	Protect Casing Plug Back TD Plug Off Zone							
	Did you perform a hydraulic	fracturing treatment	on this well?		Yes	No	(If No, skip questions 2 and 3)	
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?					Yes	No	(If No, skip question 3)	

Yes

No

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?
Nas the hydraulic fracturing treatment information submitted to the chemical disclosure registry?

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			Depth		
TUBING RECORD:	D: Size: Set At:				Packer At:		Liner F	Run:	No	
Date of First, Resumed	Producti	ion, SWD or ENHF	٦.	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	lls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									I	
DISPOSITION OF GAS:			METHOD OF COMPLETION:				PRODUCTION IN	TERVAL:		
Vented Sold Used on Lease				Open Hole	Perf.	Dually (Submit)	r Comp. 4 <i>CO-5)</i>	Commingled (Submit ACO-4)		
(If vented, Submit ACO-18.)				Other (Specify)						

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 8-22
Doc ID	1217102

Tops

Name	Тор	Datum
Stone Corral Anhydrite	3160	+96
Anhydrite (base)	3186	+70
Neva	3639	-383
Foraker	3748	-492
Wabaunsee	3908	-652
Topeka	3968	-712
Deer Creek Sand	4000	-744
Oread	4078	-822
LKC A	4180	-924
LKC B	4236	-980
LKC C	4296	-1040
LKC D	4340	-1084
LKC E	4382	-1126
LKC F	4422	-1166
RTD	4480	
LTD	4478	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 8-22
Doc ID	1217102

Casing

	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	297	Common	225	3% cc, 2% gel
Production	7.875	5.50	15.5	4465	Lite & Common	700	3/4#floseal ,10%salt,2 %gel,4#Gil sonite



ALLIED OIL & GAS Federal Tax I.D.	SERVICES, LLC 062086
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
	<u> </u>
DATE 4-8-14 SEC. 22 TWP. 1 RANGE 36 CA	LLED OUT ON LOCATION JOB START JOB FINISH
	stey UtsRd Y, Wts Rawtin STATES
	Celieto.
ρ , ,	
CONTRACTOR Berendes 2	OWNER Sauce
TYPE OF JOB Sarface	
HOLE SIZE 12 24 T.D. 313.	CEMENT
CASING SIZE 818 DEPTH 356.81	AMOUNT ORDERED 223 5/3 com 320CC
TUBING SIZE DEPTH	2 logal
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON 22.5 5/5 @ 1370 4027.50
MEAS, LINE SHOE JOINT	POZMIX@
CEMENT LEFT IN CSG. 151	GEL <u>4 5,55 @ 23,40 93.60</u>
PERFS.	CHLORIDE 85/5 @ 64.00 512.00
DISPLACEMENT 18.48666	ASC@
EQUIPMENT	@@
	@
PUMPTRUCK CEMENTER Lakene E-colente	@
# 431 HELPER Andrew Forsland	@
BULKTRUCK	@
#891/310 DRIVER Adam Tipse	@
BULK TRUCK	@
# DRIVER	HANDLING 2433 FP @ 2.48 60338
REMARKS:	(1, 870.25/282) TOTAL 6677.48
rix 228 5 Bicancent	
D'isplace with water	SERVICE
Consult did Conculates	
13319 tomF.	DEPTH OF JOB
	PUMP TRUCK CHARGE 1512.25
	EXTRA FOOTAGE@
	MILEAGE 14 For 50@ 7.70 385,00
	MANIFOLD @27500
	MILO 50@ 490 NC
D	@
CHARGE TO: BENEXCO	(531.23/28%)
STREET	TOTAL 1891,20
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
	@@
To: Allind Oil & Gon Sometions II C	@ ·
To: Allied Oil & Gas Services, LLC.	@
You are hereby requested to rent cementing equipment	@
and furnish cementer and helper(s) to assist owner or	189.1
contractor to do work as is listed. The above work was	

TOTAL _

ï

SALES TAX (If Any)
TOTAL CHARGES 2, 576. 73
DISCOUNT 2401.48 (282) IF PAID IN 30 DAYS
6,175.24 Net.

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 TERMS AND CONDITIONS" listed on the reverse side.

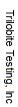
PRINTED NAME Craic hay SIGNATURE

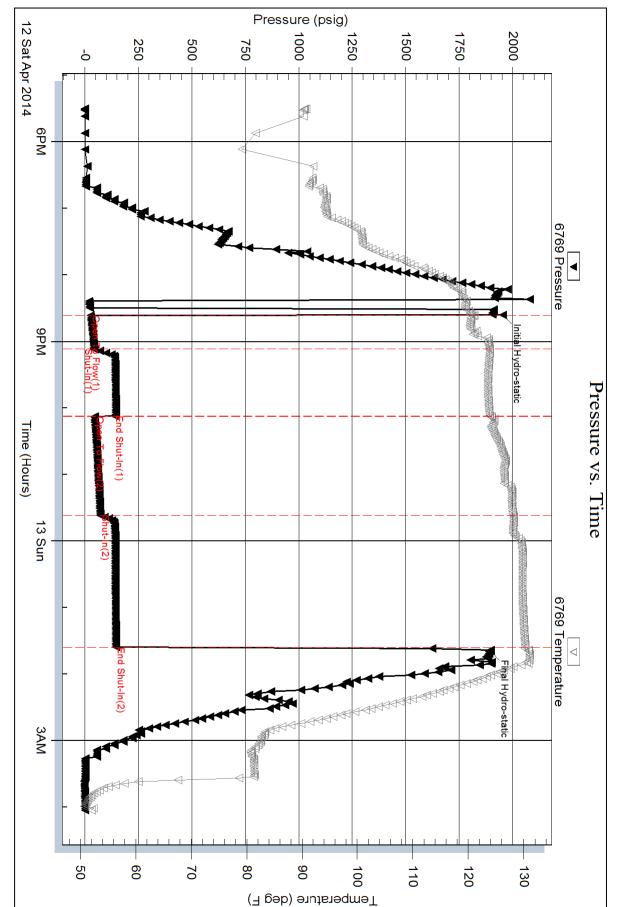
	DRILL STEM TE	S	T REPO	ORT				
RILOBITE	Berexco LLC			22	1s 36w	Raw	lins KS	
ESTING , INC	2020 N Bramblew ood Wichita KS 67206				chael # Ticket: 55		DST	4. 1
	ATTN: Pete Vollmer						12 @ 17:30:00	
GENERAL INFORMATION:								
Formation:OreadDeviated:NoWhipstock:Time Tool Opened:20:36:3UTime Test Ended:04:02:3U	ft (KB)			Tes	ter: I		ntional Bottom I Zodrow	Hole (Initial)
Interval:4036.00 ft (KB) To40Total Depth:4092.00 ft (KB) (TVHole Diameter:7.88 inches Hole				Ref	erence Ele KB t	evation	3243.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 6769 Press@RunDepth: 72.35 psig Start Date: 2014.04.12 Start Time: 17:30:05 TEST COMMENT: 30-IF- Blow Built 60-ISI- No Return 90-FF- Blow Built	End Date: End Time: To 1"	2	2014.04.13 04:02:30	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.0 2014.04. 4.12 @ 20:36:0 4.13 @ 01:39:3	00
90-11- blow buin 120-FSI- No Retu Pressne vs. T	rn		Time				JMMARY	
230 770 770 770 770 770 770 770 7			Time (Min.) 0 1 31 91 92 181 300 304	Pressure (psig) 1954.40 26.79 42.67 137.34 45.62 72.35 144.12 1896.74		Initial Open Shut- End S Open Shut- End S	Shut-In(1) To Flow (2)	
Recovery Length (ft) Description	Volume (bbl)				Ga Choke (i	s Rate	ES Pressure (psig)	Gas Rate (Mcf/d)
90.00 mud 100%m oil spots	0.44		L				i i ossure (psig)	
Trilobite Testing. Inc	Ref. No: 55986						04.13 @ 22:46	

		DRIL	L STEM TEST I	REPORT	Γ	F	LUID SU	IMMAR
	RILOBITE	Berexco	LLC		22 1s 36w	Rawlins KS		
ESTING, INC			Bramblew ood KS 67206		Michael Job Ticket:		DST#: 1	
		ATTN:	Pete Vollmer			2014.04.12 @ 17:		
and Cu	shion Information	Į						
	el Chem		Cushion Type:			Oil A PI:		deg API
Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		
osity:	72.00 sec/qt		Cushion Volume:		bbl	water Sammy.		ppm
-					וממ			
er Loss:	6.00 in ³		Gas Cushion Type:					
stivity:	ohm.m		Gas Cushion Pressur	e:	psig			
ity:	600.00 ppm							
Cake:	2.00 inches							
overy In	formation		Pagayon, Tabla					
	· · ·		Recovery Table					
	Leng ft	Jth	Description		Volume bbl			
		90.00	mud 100%m oil spots		0.44	3		
	Total Length:	90.0	00 ft Total Volume:	0.443 bbl		_		
	Num Fluid Samp		Num Gas Bombs:	0	Serial #	4.		
	Laboratory Nan		Laboratory Location		Senar 4	<i>+</i> .		
	Recovery Com			511.				
		nonto.						

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Ref. No: 55986





Serial #: 6769

Berexco LLC

Michael #8-22

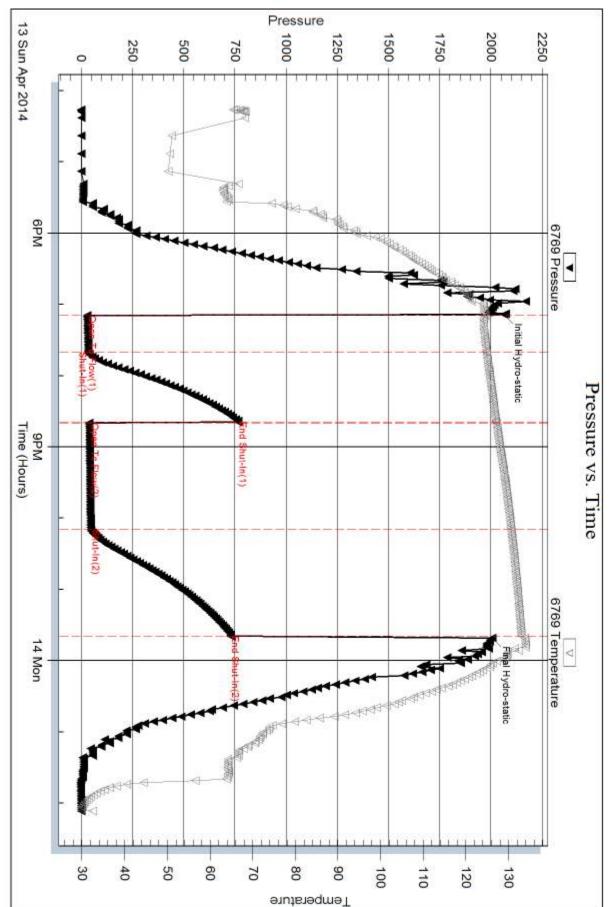
	DRILL STEM TES	ST RE	PORT				
RILOBITE	Berexco LLC		22	1s 36w	Rawlins	KS	
ESTING , INC	2020 N Bramblew ood Wichita KS 67206			chael #	-	DST#:2	
N.S.	ATTN: Pete Vollmer		Te	st Start: 20	014.04.13 @	16:16:00	
GENERAL INFORMATION:							
Formation:LKC "A"Deviated:NoWhipstock:Time Tool Opened:19:09:00Time Test Ended:02:06:30	ft (KB)		Te	ster:	Conventiona Robert Zodro 44		e (Reset)
Interval:4124.00 ft (KB) To42Total Depth:4220.00 ft (KB) (TVHole Diameter:7.88 inches Hole	/D)		Re	ference ⊟e KB t	evations: to GR/CF:	3256.00 3243.00 13.00	ft (CF)
Serial #: 6769 Outside							
Press@RunDepth: 46.59 psig Start Date: 2014.04.13 Start Time: 16:16:05	<pre>@ 4125.00 ft (KB) End Date: End Time:</pre>	2014.04. 02:06:		lib.:	2014.04.13 (8000.00 2014.04.14 ര 19:08:30	psig
		02.00.	Time Of		2014.04.13 (-	
TEST COMMENT: 30-IF- Blow Built 60-ISI- No Return 90-FF- No Blow 90-FSI- No Retur	n						
Pressure vs. T	ime ⊽ 6769 Tempendure				RE SUMM		
229 200 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1	- 130 - 130	1 2		(deg F) 124.41 124.57 124.81 127.01	Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	o-static ow (1) n(1) ow (2) n(2)	
Recovery					s Rates		
Length (ft) Description 10.00 mud 100%m	Volume (bbl) 0.05			Choke (inches) Pressu	re (psig) Gas	Rate (Mcf/d)

AON-		DRII	LSTEM	TEST F	REPORT	_		FLUID S	UMMAR
	TRILOBITE TESTING , INC.	Berexco	LLC			22 1s 36w	Rawlins K	S	
	ESTING , INC.		Bramblew ood KS 67206			Michael			
						Job Ticket:		DST#: 2	
		ATTN:	Pete Vollmer			Test Start: 2	2014.04.13 @ 1	6:16:00	
Mud and Cu	shion Information								
• •	el Chem		Cushion T				Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion L	-		ft	Water Salinity:		ppm
Viscosity:	63.00 sec/qt		Cushion \			bbl			
Water Loss: Resistivity:	5.59 in³ ohm.m		Gas Cush	iion Type: iion Pressure		neia			
Salinity:	700.00 ppm		Gas Cusi		•	psig			
Filter Cake:	2.00 inches								
Recovery In	formation								
			Recover	-		1	-		
	Leng ft	th	Descr	iption		Volume bbl			
		10.00	mud 100%m			0.04	9		
	Total Length:	10.0	00 ft Total \	olume:	0.049 bbl				
	Num Fluid Samp	oles: 0	Num G	as Bombs:	0	Serial #	<u>+:</u>		
	Laboratory Nan	ne:	Labora	atory Locatio	ו:				
	Recovery Com	ments:							

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Ref. No: 55987





Berexco LLC

Serial #: 6769

Outside

Michael #8-22

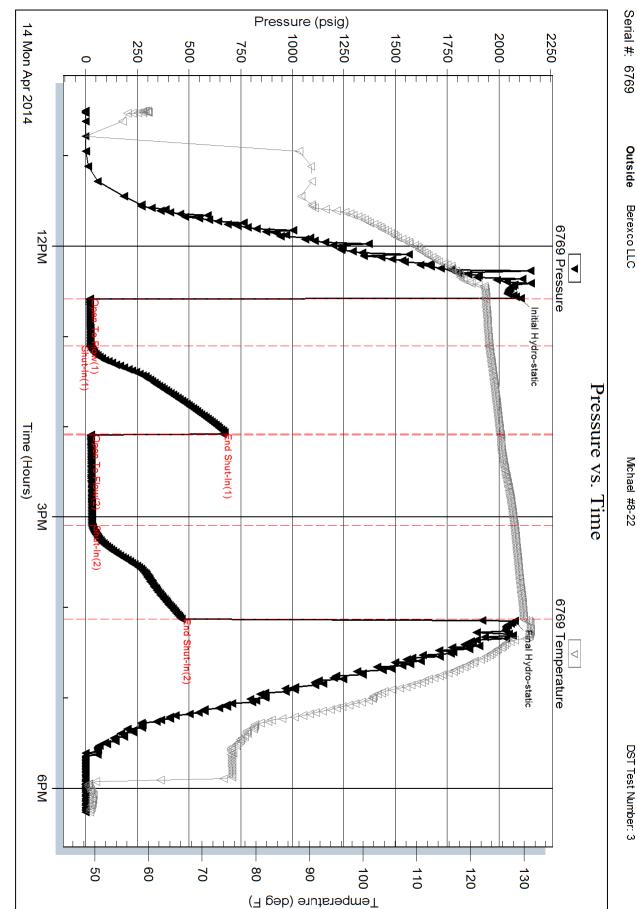
	DRILL STEM TES	ST REP	ORT	
RILOBITE	Berexco LLC		22 1s 3	6w Rawlins KS
ESTING , INC	2020 N Bramblew ood Wichita KS 67206			el #8-22 et: 55988 DST#:3
	ATTN: Pete Vollmer		Test Sta	rt: 2014.04.14 @ 10:30:00
GENERAL INFORMATION:				
Formation:LKC "B"Deviated:NoWhipstock:Time Tool Opened:12:35:00Time Test Ended:18:16:00	ft (KB)		Test Typ Tester: Unit No:	 Conventional Bottom Hole (Reset) Robert Zodrow 44
nterval:4202.00 ft (KB) To4Total Depth:4260.00 ft (KB) (THole Diameter:7.88 inches Hole			Reference	ce Elevations: 3256.00 ft (KB) 3243.00 ft (CF) KB to GR/CF: 13.00 ft
Serial #: 6769OutsidePress@RunDepth:30.04 psigStart Date:2014.04.14Start Time:10:30:05	@ 4203.00 ft (KB)End Date:End Time:	2014.04.14 18:15:59	Capacity: Last Calib.: Time On Btm: Time Off Btm:	
TEST COMMENT: 30-IF-Blow Built 60-ISI-No Returr 60-FF-No Blow 60-FSI-No Retur	1			
Pressure vs. '	Time T 6769 Tempenture		PRES	SURE SUMMARY
200 Fraue 000 Fraue 100 Fraue	0787 Temperature 0798 Tempera	Time (Min.) 0 1 32 90 91 151 213 215	(psig) (de 2104.16 12 20.20 12 22.87 12 662.25 12 25.61 12 30.04 12 463.10 12	Annotationag F)22.34Initial Hydro-static22.84Open To Flow (1)23.50Shut-In(1)25.52End Shut-In(1)25.66Open To Flow (2)28.17Shut-In(2)29.93End Shut-In(2)30.84Final Hydro-static
Recovery				Gas Rates
Length (ft) Description 5.00 mud 100%m	Volume (bbl) 0.02			Choke (inches) Pressure (psig) Gas Rate (Mct/d)
		1		

RILOBIT ESTIN Ind and Cushion Infor Ind Type: Gel Chem Ind Weight: 9.00 lb/g iscosity: 72.00 seg /ater Loss: 5.97 in ³	Wichi	co LLC N Bramblew ood ta KS 67206 : Pete Vollmer			Rawlins KS #8-22		
Iud and Cushion Infor Iud Type: Gel Chem Iud Weight: 9.00 lb/g iscosity: 72.00 sec	Wichi	ta KS 67206		Michael	#8-22		
lud Type: Gel Chem lud Weight: 9.00 lb/g iscosity: 72.00 sec	ATTN			Michael #8-22			
lud Type: Gel Chem lud Weight: 9.00 lb/g iscosity: 72.00 sec		: Pete Vollmer		Job Ticket:	55988 D	ST#:3	
lud Type: Gel Chem lud Weight: 9.00 lb/g iscosity: 72.00 sec	mation			Test Start: 2	2014.04.14 @ 10:30	0:00	
lud Weight: 9.00 lb/g iscosity: 72.00 set							
iscosity: 72.00 see		Cushion Type:			Oil A PI:	deg API	
		Cushion Length:		ft	Water Salinity:	ppm	
/ater Loss: 5.97 in ³		Cushion Volume:		bbl			
		Gas Cushion Type:					
,	m.m	Gas Cushion Press	ure:	psig			
alinity: 600.00 pp ilter Cake: 2.00 inc							
ecovery Information							
-		Recovery Table			-		
	Length ft	Description		Volume bbl			
	5.00	mud 100%m		0.02	5		
Total	Length:	5.00 ft Total Volume:	0.025 bbl				
Labo	Fluid Samples: 0 aratory Name: overy Comments:	Laboratory Loca	tion:				

Printed: 2014.04.14 @ 23:49:40

Ref. No: 55988





RILOBITE	DRILL STEM TE					-
TESTING, INC	Berexco LLC		22 1	IS 36W	Rawlins K	.5
	2020 N Bramblew ood Wichita KS 67206			hael #8		DST#:4
	ATTN: Pete Vollmer				014.04.15 @ (-
JENERAL INFORMATION:						
Formation:LKC"C"Deviated:NoWhipstock:Time Tool Opened:08:44:30Time Test Ended:16:20:00	ft (KB)		Test Teste Unit I	er: F	Conventional Robert Zodrov 14	Bottom Hole (Resel w
Fotal Depth: 4092.00 ft (KB) (T	8 40.00 ft (KB) (TVD) /D) e Condition: Poor		Refe	erence Ele KB te	evations: o GR/CF:	3256.00 ft (KB) 3243.00 ft (CF) 13.00 ft
Serial #: 6769 Outside ress@RunDepth: 92.54 psig 2014.04.15 Start Time: 06:30:05 TEST COMMENT: 30-IF- Blow Built 60-ISI-No Return 90-FF- Blow Built 120-FSI-No Return	End Date: End Time: To 4 1/2" t To 10 3/4"	2014.04.15 16:20:00	Capacity: Last Calib Time On E Time Off E	o.: Btm: 2	20 2014.04.15 @ 2014.04.15 @	
Prezante vz. T	īme				E SUMMA	DV
	T		P P P			Rĭ
273 USUITSEC 333 173 173 1 173 1 173 1 173 1 173 1 173 1 173 1 174 1 175 1 174 1 175 1 174 1 175 1 175 1 176 1 177 1 178 1 179 1 171 1 172 1 173 1 174 1 175 1 176 1 177 1 178 1 179 1 179 1 179 1 170 1 171 1 172 1 173 1 174 1 175 1 175 1 176 1 177 1 178 1 179 1 179 1 <td< td=""><td>BAU TOROTAL Contraction of the second of th</td><td>Time (Min.) 0 1 31 91 91 181 300 302</td><td>Pressure (psig) 2175.38 24.91 53.31 316.16 57.34 92.54 312.99 2136.57</td><td>Temp (deg F) 121.36 121.03 128.77 128.86</td><td>Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(Open To Flo</td><td>n -static w (1) (1) w (2) (2)</td></td<>	BAU TOROTAL Contraction of the second of th	Time (Min.) 0 1 31 91 91 181 300 302	Pressure (psig) 2175.38 24.91 53.31 316.16 57.34 92.54 312.99 2136.57	Temp (deg F) 121.36 121.03 128.77 128.86	Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(Open To Flo	n -static w (1) (1) w (2) (2)
TREATE STATE		(Min.) 0 1 31 91 91 181 300	Pressure (psig) 2175.38 24.91 53.31 316.16 57.34 92.54 312.99	Temp (deg F) 121.36 121.03 128.77 128.86 129.30 131.45 134.00 135.36	Annotation Initial Hydro- Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2) End Shut-In(n -static w (1) (1) w (2) (2)
278 000 000 000 000 000 000 000 000 000 0	Volume (bbl)	(Min.) 0 1 31 91 91 181 300	Pressure (psig) 2175.38 24.91 53.31 316.16 57.34 92.54 312.99	Temp (deg F) 121.36 121.03 128.77 128.86 129.30 131.45 134.00 135.36	Annotation Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2) End Shut-In(Final Hydro-	n -static w (1) (1) w (2) (2) static
278 040 Hissarc 333 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 1 179 <td>Volume (bbl)</td> <td>(Min.) 0 1 31 91 91 181 300</td> <td>Pressure (psig) 2175.38 24.91 53.31 316.16 57.34 92.54 312.99</td> <td>Temp (deg F) 121.36 121.03 128.77 128.86 129.30 131.45 134.00 135.36</td> <td>Annotation Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2) End Shut-In(Final Hydro-</td> <td>n -static w (1) (1) w (2) (2) static</td>	Volume (bbl)	(Min.) 0 1 31 91 91 181 300	Pressure (psig) 2175.38 24.91 53.31 316.16 57.34 92.54 312.99	Temp (deg F) 121.36 121.03 128.77 128.86 129.30 131.45 134.00 135.36	Annotation Open To Flo Shut-In(1) End Shut-In(Open To Flo Shut-In(2) End Shut-In(Final Hydro-	n -static w (1) (1) w (2) (2) static
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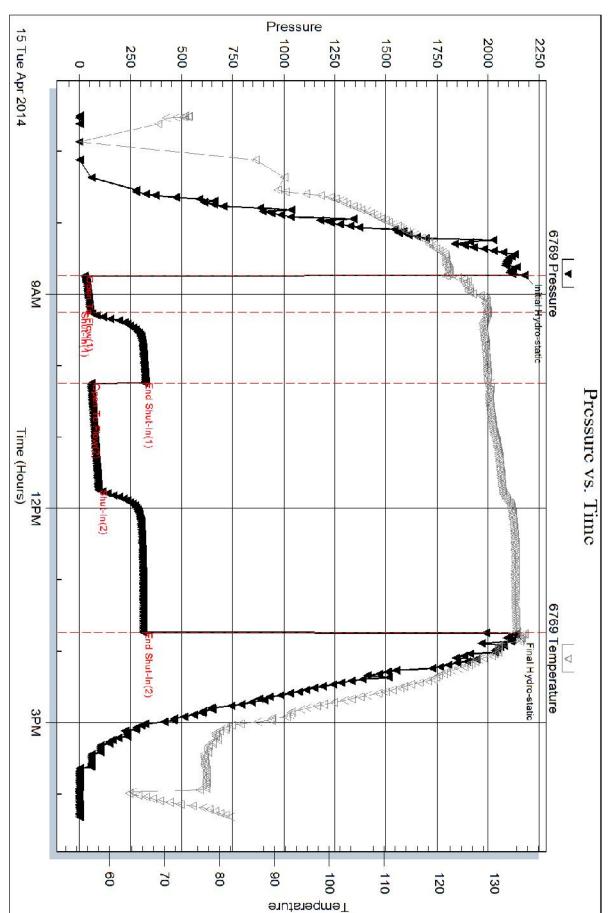
	RILOBITE	Berexco LLC		22 1s 36v	v Rawlins	KS
面	ESTING , INC.					
		2020 N Bramblew ood Wichita KS 67206		Michael Job Ticket:		DST#: 4
		ATTN: Pete Vollmer			2014.04.15 @	-
ENERAL	INFORMATION:					
	LKC "C" No Whipstock: ned: 08:44:30 ed: 16:20:00	ft (KB)		Test Type: Tester: Unit No:	Convention Robert Zod 44	al Bottom Hole (Reset) row
n terval: otal Depth: lole Diameter:	4092.00 ft (KB) (T\	34 0.00 ft (KB) (TVD) / D) ∋ Condition: Poor			Elevations: B to GR/CF:	3256.00 ft (KB) 3243.00 ft (CF) 13.00 ft
erial #: 8	288 Inside					
ess@RunDe art Date: art Time:	epth: psig 2014.04.15 06:30:05	<pre>@ 4255.00 ft (KB) End Date: End Time:</pre>	2014.04.15 16:20:00	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2014.04.15
	MENT: 30-IF- Blow Built					
	60-ISI-No Return 90-FF- Blow Buil 120-FSI-No Retu	t To 10 3/4" rn		DESS		
	60-ISI-No Return 90-FF- Blow Buil	t To 10 3/4" rn	Time	Pressure Tem		
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	60-ISI-No Return 90-FF- Blow Buil 120-FSI-No Retu	t To 10 3/4" rn	(Min.)	Pressure Tem (psig) (deg	Annotat	
	60-ISI-No Return 90-FF- Blow Buil 120-FSI-No Retu	t To 10 3/4" rn	(Min.)	Pressure Tem (psig) (deg	Annotat F) Gas Rates	
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	RILOBI		Baray		TEM TEST I			Rawlins KS	LUID SUMMAR
画	TESTI	VG , INC.	Derext	O LLC					
	1	YU , IIVU	20201	Bramblev			Michael :	#8-22	
			VVICNIT	a KS 6720	6		Job Ticket: 5	55989	DST#:4
			ATTN:	Pete Vol	llmer		Test Start: 2	2014.04.15 @ 06::	30:00
lud and Cus	shion Info	mation							
ud Type: Gel	Chem			C	Cushion Type:			Oil A PI:	29 deg API
ud Weight:	9.00 lb/				Cushion Length:		ft	Water Salinity:	ppm
iscosity:	69.00 se	-			Cushion Volume:		bbl		
ater Loss:	6.40 in ³				Bas Cushion Type:				
esistivity:		im.m		G	Gas Cushion Pressur	e:	psig		
alinity: Iter Cake:	1000.00 pp 2.00 inc								
ecovery Info	ormation								
	F			F	Recovery Table		1	-	
		Leng ft	th		Description		Volume bbl		
	-		90.00	ocm 5%	%g 15%o 80%m		0.44	3	
			95.00		%g 90%o		0.46		
			0.00	180' GIF	D		0.00	o	
	L		0.00						
	L Tota	I Length:		5.00 ft	Total Volume:	0.910 bbl			
		I Length: I Fluid Samp	185		Total Volume: Num Gas Bombs:	0.910 bbl 0	Serial #	t <u>.</u>	
	Num		185 bles: 0			0	Serial #	t:	
	Num Labo	I Fluid Samp	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	t:	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ:	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ł:	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ:	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ:	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	f:	
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	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ:	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	f:	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	f:	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ:	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	ŧ:	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	£:	
	Num Labo	rFluid Samp pratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	£:	
	Num Labo	rFluid Samp Dratory Nan	185 bles:0 ne:		Num Gas Bombs:	0	Serial #	f:	

Printed: 2014.04.16 @ 03:38:09

Ref. No: 55989

Trilobite Testing, Inc



Outside Berexco LLC

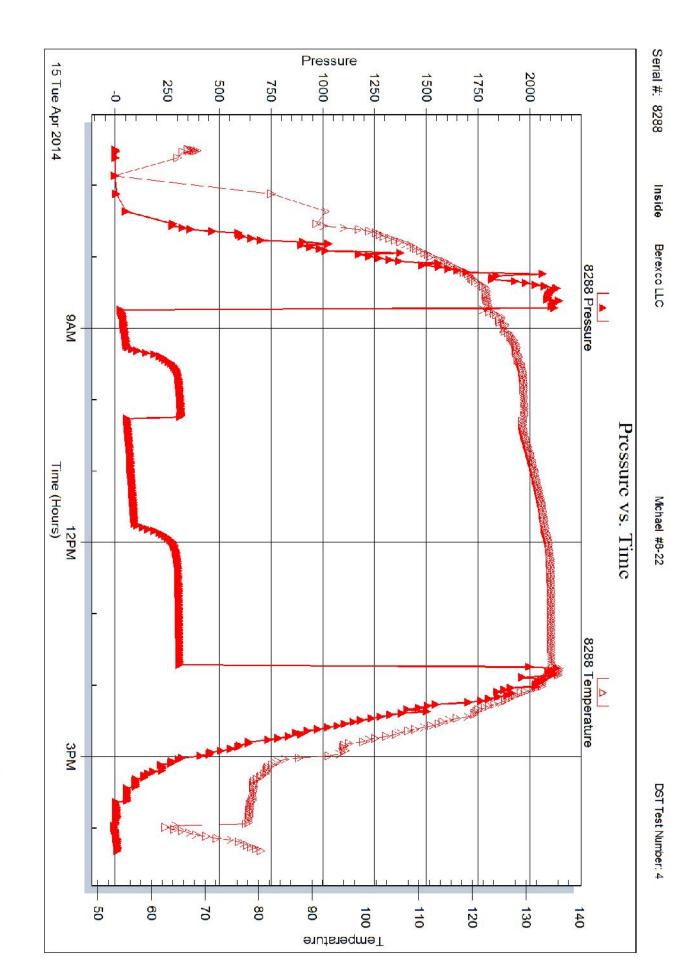
Serial #: 6769

Michael #8-22

Printed: 2014.04.16 @ 03:38:09

Ref. No: 55989

Trilobite Testing, Inc



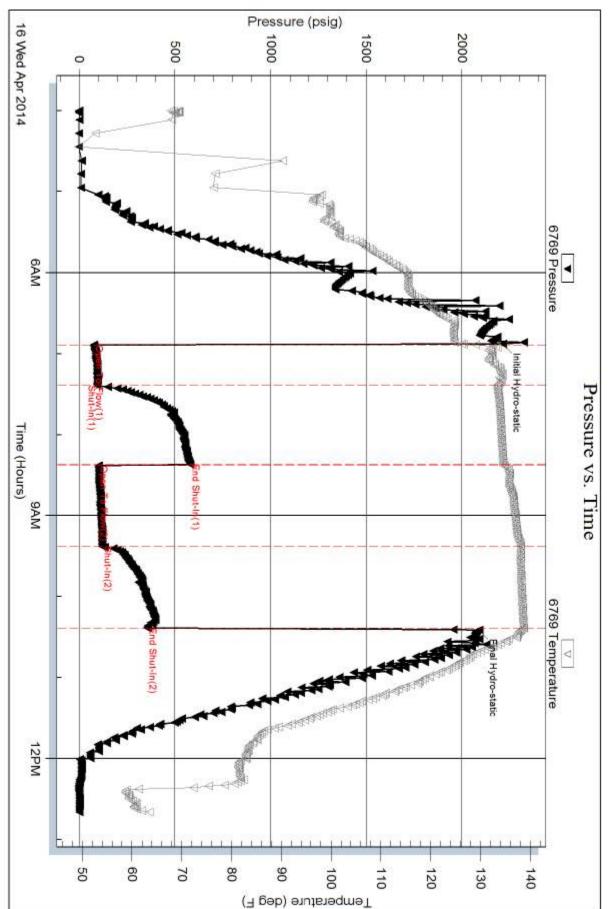
RILOBITE	DRILL STEM TES	ST REP	ORT				
	Berexco LLC		22 1	s 36w	Rawlins	KS	
ESTING , INC	2020 N Bramblew ood Wichita KS 67206			nael #		DST#:5	
	ATTN: Pete Vollmer))14.04.16 @		•
GENERAL INFORMATION:							
Formation: KCL "E"							
Deviated: No Whipstock: Time Tool Opened: 06:53:30 Time Test Ended: 12:40:00	ft (KB)		Test ⁻ Teste Unit N	r: I	Conventiona Robert Zodr 44	Il Bottom Hol ow	e (Reset)
nterval: 4354.00 ft (KB) To 44 Total Depth: 4410.00 ft (KB) (TN) 1000 ft (KB) 1000 ft (KB) Hole Diameter: 7.88 inchesHole 1000 ft (KB) 1000 ft (KB)	/D)		Refer		evations:	3256.00 3243.00 13.00	ft (CF)
Serial #: 6769 Outside							
Press@RunDepth: 120.31 psig	-		Capacity:			8000.00	psig
Start Date: 2014.04.16 Start Time: 04:00:05	End Date: End Time:	2014.04.16 12:40:00	Last Calib. Time On Bi		2014.04.16 (2014.04.16 @ 06:53:00	
			Time Off B		2014.04.16	-	
120-FSI- No Retu Pressure vs. T			· · · · ·		RE SUMM		
G759 Presure	5783 Kerponkee	Time (Min.)		Temp (deg F)	Annotatio		
		0	2213.20 76.17	126.55 129.01			
1730		31 90	94.97 580.27	133.32	Shut-In(1) End Shut-I	o(1)	
- . 3 that i i	100		101.63		Open To F		
		90 150	120.31	138.09	. ,	- (0)	
		211 212	355.83 2089.53	138.62 138.09			
E CAL SAL SAL SAL SAL SAL SAL SAL SAL SAL S							
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (i	nches) Pressu	re (psig) Ga	s Rate (Mcf/d)
180.00 mw /oil spots 100%m	0.89						

10 D		DRI	LL STEI	M TEST F	REPORT			FLUID S	UMMAR
	RILOBITE	Berexo	o LLC			22 1s 36w	Rawlins K	S	
	ESTING , INC		Bramblew ood	I		Michael	#8-22		
		Wichita	KS 67206			Job Ticket:	55990	DST#: 5	
NO.		ATTN:	Pete Vollmer			Test Start:	2014.04.16 @ (04:00:00	
Mud and C	Cushion Information	4							
Mud Type:	Gel Chem		Cushi	on Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal			on Length:		ft	Water Salinity	:	ppm
Viscosity:	64.00 sec/qt		Cushi	on Volume:		bbl			
Water Loss:	6.80 in ³		Gas C	Cushion Type:					
Resistivity:	ohm.m		Gas C	Cushion Pressure		psig			
Salinity:	700.00 ppm								
Filter Cake:	2.00 inches								
Recovery	Information		Reco	very Table					
	Len		De	escription		Volume bbl			
		180.00	mw /oil spots	100%m		0.88	5		
	Total Length:	180	.00 ft To	tal Volume:	0.885 bbl				
	Num Fluid San Laboratory Na Recovery Con	me:		m Gas Bombs: boratory Locatior	0 1:	Serial #	# :		

Printed: 2014.04.16 @ 13:44:57

Ref. No: 55990

Trilobite Testing, Inc



Michael #8-22

DST Test Number: 5

Serial #: 6769

Outside

Berexco LLC

BEREXCO LLC

MICHAEL 8-22

SE NE NE SEC 22 T1S R36W

RAWLINS COUNTY, KANSAS

SUMMARY	1
WELL DATA	2
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LITHOLOGY & SHOWS	4
SERVICES	9
DRILL STEM TESTS	10
MUD REPORTS	20

SUMMARY

The Berexco LLC Michael 8-22 in Rawlins County, Kansas spud April 8, 2014 and reached a total depth of 4480' on April 16, 2014. Wellsite geological supervision commenced at 3000'. The primary objective was the Pennsylvanian Missourian Lansing-Kansas City carbonate benches, which produce in the East Fork field. A secondary zone of interest was the Oread Limestone. The Michael 8-22 was drilled using seismic and nearby well control.

Evaluation of the primary zones of interest was by drill stem testing after sample analysis. Five DSTs were run.

Foraker and Wabaunsee

There were no shows in the Foraker or Wabaunsee, both clean non-porous limestone.

Oread and Lansing-Kansas City

DST 1 in the Oread recovered 90 ft of oil spotted mud with poor flow pressures and shut-in pressures indicating depletion from nearby wells. Samples were predominantly mudstone with locally fossiliferous wackestone displaying very poor interparticle and vuggy porosity, occasional scattered black oil staining with rare blooming cuts and slow streaming cuts.

DST 2 in the Lansing A recovered 10 ft of mud with very poor flow pressures. Samples displayed occasional heavy black oil with no to trace porosity in cuttings.

DST 3 in the Lansing B recovered 5 ft of mud. The poor flow pressures indicated a non-porous B zone, also reflected on wireline logs. Samples exhibited fossiliferous grainstone and mudstone with trace to poor interparticle and vuggy porosity, good live black oil staining, and good cuts in the upper few feet. There were no shows below the first few feet.

DST 4 in the Lansing C recovered 95 ft of clean gassy oil and 90 ft of gassy oil cut mud. Samples were grainstone with fair to poor interparticle and vuggy porosity with abundant live black oil staining, good fluorescence and yellowish white cuts.

The Lansing D samples were non-porous chalky limestone with no shows. No drill stem testing was warranted in the D zone.

DST 5 of the Lansing E recovered 180 ft of oil spotted muddy water. The Lansing E was predominately nonporous chalky limestone with trace to poor vuggy porosity and a scattered show of black oil stain and hydrocarbon cuts.

The Lansing F was non-porous chalky limestone with no sample shows.

Oil Well Completion

5 ¹/₂" production casing was run to complete the Michael 8-22 as an oil producer.

Peter J. Vollmer Consulting Wellsite Geologist, WPG #3369 April 2014 Berexco LLC Michael 8-22

WELL DATA

OPERATOR:	Berexco LLC 2020 North Bramblewood Drive Wichita, Kansas 67206	
WELL NAME:	Michael 8-22	
SURFACE LOCATION:	990' FNL & 330' FEL SE NE NE Sec. 22, T1S, R36W Rawlins County, Kansas	
LATITUDE & LONGITUDE:	39.9563631, -101.3370246 (From State, calculated from footages)	
BOTTOM HOLE LOCATION:	Vertical hole	
ELEVATIONS:	3243' GL 3256' KB	
API NUMBER:	15-153-21002	
BASIN:	Mid-Continental Arch	
FIELD:	East Fork	
HOLE SIZE:	12 ¼" to 314'; 7 7/8" to 4480'	
CASING:	8 5/8" J-55 24# STC set to 314' KB	
SPUD DATE:	April 8, 2014	
TD DATE:	April 16, 2014	
TOTAL DEPTH:	4480' Rig TD 4478' 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 3256
Pierre Sh	Cased	Cased	N/A	N/A
Niobrara Fm	N/A	1197	1197	+2059
Fort Hays Ls Mbr	N/A	1678	1678	+1578
Carlile Sh	N/A	1724	1724	+1532
Dakota	N/A	2120	2120	+1136
Cheyenne	N/A	2670	2670	+586
Blaine	N/A	3008	3008	+248
Stone Corral Anhydrite	3158	3160	3160	+96
Base Anhydrite	3190	3186	3186	+70
Neva	3646	3639	3639	-383
Foraker	3752	3748	3748	-492
Wabaunsee	3908	3908	3908	-652
Topeka	3969	3968	3968	-712
Deer Creek Sand	4003	4000	4000	-744
Oread	4079	4078	4078	-822
Lansing-Kansas City				
"A"	4184	4180	4180	-924
"B"	4240	4236	4236	-980
"C"	4301	4296	4296	-1040
"D"	4347	4340	4340	-1084
"E"	4388	4382	4382	-1126
"F"	4427	4422	4422	-1166
TD Driller	4480			
TD Logger		4478	4478	-1222

The following descriptions are interpretive. Rig crew members collected unlagged samples from 3500' to 4480' TD. Depths are rig depths except where noted as wireline.

3500' - 3558'	SHALE: light reddish brown to reddish orange, firm to soft, fissile to blocky, very silty, sandy in part, non to slightly calcareous.
3558' - 3586'	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.
3586' - 3634'	SHALE: reddish brown, firm to hard, fissile to blocky, very silty, sandy in part, non to slightly calcareous, trace tan Limestone.
3634' - 3646'	SANDSTONE: very light gray to off white, friable to firm, very fine grained, sub rounded to rounded, well sorted, calcareous cement, occasional clay filled, glauconite, no visible porosity no shows.

NEVA	SAMPLE TOP: 3646'	LOG TOP: 3639'	SUBSEA: -383'
3646' - 3652'	LIMESTONE: white to li Fusulinid), black algal sta		ky, fossil fragment (Brachiopod,
3652' - 3674'		MESTONE: white to light	n calcareous, occasional silty, gray, firm to hard,
3674' - 3690'		e .	n, friable, very fine grained, ment, clay fill, tight to trace
3690' - 3714'	LIMESTONE: light gray occasional slightly argilla	to gray to grayish brown, h aceous, tight, no shows.	ard, cryptocrystalline,
3714' - 3752'	SHALE: reddish brown, s	soft to firm, sub blocky, nor	n calcareous, occasional silty.

FORAKER	SAMPLE TOP: 3752'	LOG TOP: 3748'	SUBSEA: -492'
3752' - 3762'	LIMESTONE: white to li fragments, tight, no show		tocrystalline, chalky, fossil

3762' - 3774'	SHALE: gray to greenish gray, firm, blocky, non to slightly calcareous, fossil fragments, medium gray Limestone stringers.
3774' - 3792'	LIMESTONE: white to light gray, firm to hard, cryptocrystalline, chalky, fossil fragments, algal stain, tight to trace intercrystalline porosity, no shows.
3792' - 3802'	SANDSTONE: very light gray to white, friable, very fine grained, subangular to subrounded, well sorted, calcareous cement, clay fill, black specks, tight to trace porosity, no shows.
3802' - 3854'	SHALE: reddish brown, soft to firm, subblocky, non calcareous, occasional silty, occasional light gray Limestone stringers.
3854' - 3876'	SHALE: dark gray to black, firm, fissile to blocky, non calcareous, carbonaceous in part, fossil fragments (Brachiopod).
3876' - 3908'	SHALE: reddish brown, soft to firm, subblocky, non calcareous, occasional silty, occasional light gray chalky Limestone stringers.

WABAUNSEE	SAMPLE TOP: 3908'	LOG TOP: 3908'	SUBSEA: -652'
3908' - 3928'		texture, reddish brown SH	n brown mottled, soft to firm, ALE partings, occasional fossil
3928' - 3941'	LIMESTONE: white to l	• •	htly calcareous, with interbedded eddish brown mottled, hard to ows.
3941' - 3969'	SHALE: reddish brown, calcareous, moderately to		art, soft to firm, blocky, non

TOPEKA	SAMPLE TOP: 3969'	LOG TOP: 3968'	SUBSEA: -712'
3969' - 3976'		to white, hard to firm, cryp reous, Shale partings, tight,	tocrystalline, fossil fragments no shows.
3976' - 3986'	SHALE: gray, firm, platy	, non to slightly calcareous	, dull.
3986' - 4002'		to white, hard to firm, cryp gs, opaque chert, tight, no s	tocrystalline, fossil fragments, hows.

DEER CREEK SAND	SAMPLE TOP: 4003'	LOG TOP: 4000'	SUBSEA: -744'
4002' - 4022'		, calcareous, clay filled, pl	iable to soft, very fine grained, ant remains, predominant loose
4022' - 4040'			rm to hard, mudstone, very ldish brown Shale partings, tight,
4040' - 4079'		brownish maroon, gray, me eous, non to slightly silty i	ottled in part, firm, blocky, n part, clayey to sticky.
OREAD	SAMPLE TOP: 4079'	LOG TOP: 4078'	SUBSEA: -822'
4079' - 4098'	LIMESTONE: cream to v fragments, scattered black bright yellowish white flu	white, firm to hard, wackes c oil stain, tight to trace int	stone to packstone, fossil erparticle and vuggy porosity, oming yellowish white cuts, with
4098' - 4104'	SHALE: dark gray to black slightly calcareous, fossil		very carbonaceous, non to
4104' - 4126'		tht gray, occasional dark gr argillaceous in part, tight,	ray, firm to hard, mudstone, no show.
4126' - 4152'	SHALE: dark gray to gra calcareous, fossil fragmen		bonaceous in part, non to slightly
4152' - 4162'	LIMESTONE: gray to lig argillaceous in part at bas		stone, occasional fossil, slightly
4162' - 4184'	SHALE: gray to reddish l sub waxy to earthy.	brown to maroon, firm, blo	ocky, non to slightly calcareous,

LANSING- KANSAS CITY "A"	SAMPLE TOP: 4184'	LOG TOP: 4180'	SUBSEA: -924'
4184' - 4204'	interclasts and peloids, for black heavy oil stain, trac	ossil fragments (Crinoid, Fu	ne to grainstone, occasional usulinid, Brachiopod), abundant usity, fair vuggy porosity, bright te cuts, good show.

4204' - 4208'	SHALE: gray to dark gray, firm, blocky, non to slightly calcareous.
4208' - 4216'	SANDSTONE: white to light gray, firm to friable, very fine grained, well rounded, well sorted, calcareous cement, clay filled, clean, tight to poor porosity, no show.
4216' - 4240'	SHALE: gray to reddish brown to maroon, firm, blocky, n to slightly calcareous, silty in part, occasional argillaceous LIMESTONE stringers.

LANSING- KANSAS CITY "B"	SAMPLE TOP: 4240'	LOG TOP: 4236'	SUBSEA: -980'
4240' - 4256'	fragments, pyrite, occasio	• •	
4256' - 4270'	SHALE: gray to dark gray carbonaceous in part, Li		fossil (Brachiopod), slightly
4270' - 4301'	SHALE: brown red to gra	y to maroon, soft to firm, s	sub platy, slightly calcareous,

4270' - 4301'	SHALE: brown red to gray to maroon, soft to firm, sub platy, slightly calcareous,
	occasional silty in part.

LANSING- KANSAS CITY "C"	SAMPLE TOP: 4301'	LOG TOP: 4296'	SUBSEA: -1040'
4301' - 4316'	LIMESTONE: white to very light gray, firm, mudstone to grainstone, fossil fragments, scattered black heavy oil, poor intergranular and fair vuggy porosity, bright yellowish white fluorescence, instant blooming yellowish white cuts, with slow streaming cuts, good show.		
4316' - 4327'	SHALE: gray to dark gray, firm, sub blocky, non to slightly calcareous, fossil fragments, pyrite.		
4327' - 4330'	LIMESTONE: white, firm to hard, mudstone to packstone, occasional fossil fragments, trace heavy black oil, predominant tight with trace intergranular porosity, bright yellowish white fluorescence, instant blooming bright yellowish white cuts, fair show.		
4330' - 4347'	SHALE: gray to dark gray, firm, blocky, Limestone partings.		

LANSING- KANSAS CITY "D"	SAMPLE TOP: 4347'	LOG TOP: 4340'	SUBSEA: -1084'
4347' - 4358'	LIMESTONE: light gray to white, firm, mudstone to wackestone, fossil fragments, chalky texture, trace spotty black oil specks (2 pieces), no visible porosity, dull yellow fluorescence, dull yellowish white cut, very poor show.		
4358' - 4370'	SHALE: dark gray to gray, firm, blocky, fossils (Brachiopod), white chalky Limestone partings.		
4370' - 4388'	SHALE: dark reddish brown to grayish green to gray, firm, blocky to platy, non calcareous, moderately to very silty, pyrite.		

LANSING- KANSAS CITY "E"	SAMPLE TOP: 4388'	LOG TOP: 4382'	SUBSEA: -1126'
4388' - 4404'	LIMESTONE: white to light gray to cream, hard to firm, mudstone to grainstone, predominant chalky texture, occasional very fossiliferous, locally patchy black oil specks, tight to poor vuggy porosity, bright yellowish white fluorescence, blooming yellowish white cut, poor show.		
4404' - 4427'		ck to gray, firm, blocky, ca cous in part, plant remains,	lcareous, fossil (Brachiopod), trace pyrite.

LANSING- KANSAS CITY "F"	SAMPLE TOP: 4427'	LOG TOP: 4422'	SUBSEA: -1166'
4427' - 4436'	LIMESTONE: cream to white to light gray, firm to hard, mudstone to wackestone, chalky texture, occasional fossil fragments, very tight, no shows.		
4436' - 4444'	SHALE: gray to dark gray, firm, platy, non to slightly calcareous, occasional silty.		
4444' - 4464'	SANDSTONE: white, friable to hard, very fine grained grading to coarse silt, rounded, well sorted, calcareous cement, clean, abundant loose grains, fair porosity, no show.		
4464' - 4480' TD		y, firm, platy to blocky, nor ed white to light gray chall	n to very slightly calcareous, xy Limestone.

Berexco LLC Michael 8-22

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. Robert Zodrow DST 1: 4036' - 4092' Oread DST 2: 4124' - 4220' LKC "A" DST 3: 4202' - 4260' LKC "B" DST 4: 4254' - 4340' LKC "C" DST 5: 4354' - 4410' LKC "E"	Hays, KS 785- 625-4778
DIRECTIONAL DRILLING:	None	
WIRELINE LOGS:	Pioneer Wireline Services RAG: Surface casing - TD Micro: 3500' - TD Engineer: Don Schmidt	Hays, KS 785-625-3858



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ALLIED OIL & GAS SERVICES, LLC 063389

Federal Tax I.D	#20-8651475
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATE Y/17/14 SEC. TWP RANGE 36 C.	ALLED OUT ON LOCATION JOB START JOB FINISH
LEASE WELLA 8 - 22 LOCATION BERRY	Make AITO AA MITO COUNTY STATE
OLD OR NEW (Circle one) 5.5 N To	AF WOSZWMA
CONTRACTOR Recorded 2	OWNER Since
TYPE OF JOB fred tor	
HOLE SIZE 7% T.D.	CEMENT
CASING SIZE 5/12_ 15/12 DEPTH 44/05	AMOUNT ORDERED 4 SUALD 14 HOSE
TUBING SIZE DEPTH	LEUSA Con 10+70Gult 200ml
DRILL PIPE DEPTH	S-GHISBAR
TOOL DEPTH PRES. MAX MINIMUM	COMMON_2.50
PRES. MAX MINIMUM MEAS, LINE SHOE JOINT 20.95	COMMON_25 @124 492500 POZMIX @ 12
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DISPLACEMENT	+30 ALIN 450 @ 15 95 7/2250
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	Gilipita 1250/6 @ .98 1225
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BULKTRUCK	
# 373 DRIVER LEMINO (TWS)	······································
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STREET	TOTAL 3/50
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
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	Latch Ham Hosandly @_ no/ 184-
To: Allied Oil & Gas Services, LLC.	10 contracters a 51/ 370 3
You are hereby requested to rent cementing equipment	Fl stadicher @ 46- 920-
and furnish cementer and helper(s) to assist owner or	@
contractor to do work as is listed. The above work was	in at of
done to satisfaction and supervision of owner agent or	TOTAL / 20 6
contractor. I have read and understand the "GENIED AT	

CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
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contractor. I h TERMS AND

PRINTED NAM SIGNATURE 1 Anger Martin