

Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1193016

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.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:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
OG GSW Temp. Abd. 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	Duilling Fluid Management Dian
Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
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	QuarterSecTwpS. 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 Iwo	1193016		
Operator Name:	_ Lease Name:	Well #:		
Sec TwpS. R East West	County:			
INCTRUCTIONS: Chause important tang of formations paratested.	atail all aaraa Bapart all final	appias of drill stamp tools giving interval toolad, time tool		

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sh	neets)	Yes No		0	on (Top), Depth a		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	Ð		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD Ne		ion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
	-	ADDITIONAL	CEMENTING / SQL	EEZE RECORD			
Purpose:	Depth Tan Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	

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

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

Yes	No
Yes	No
Yes	No

 No
 (If No, skip questions 2 and 3)

 No
 (If No, skip question 3)

(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					Acid, Fracture, Shot, Ce (Amount and Kino	ement Squeeze Record I of Material Used)	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	Run:	No	
Date of First, Resumed	l Producti	ion, SWD or ENHF	ł.	Producing M	ethod:	oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	S.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:				METHOD OF COMPLETION:		PRODUCTION INTERVAL:				
				Dually		Commingled				
(If vented, Su	ıbmit ACO	D-18.)		Other (Specify)		(Submit /	,	(Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 7-22
Doc ID	1193016

Tops

Name	Тор	Datum
Anhydrite	3089	+99
Anhydrite (base)	3120	+68
Neva	3571	-383
Foraker	3678	-490
Topeka	3894	-706
Deer Creek	3932	-744
Oread	4004	-816
Heebner	4045	-957
Lansing/KS City A	4106	-918
LKC B	4166	-978
LKC C	4228	-1040
LKC D	4264	-1076
LKC E	4316	-1128
LKC F	4354	-1166
RTD	4450	-1262
LTD	4454	-1266

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 7-22
Doc ID	1193016

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	4442	Lite & Common		3/4# floseal, 10%salt,3 %gel, 5# gilsonite

WELLFILE ALLIED OIL & GAS SERVICES, LLC 062121 Federal Tax I.D. # 20-8651475 REMIT TO P.O. BOX 93999 SERVICE POINT: SOUTHLAKE, TEXAS 76092 Dak RANGE TWP. -26 SEC. CALLED OUT ON LOCATION -13 JOB START JOB FINISH ALA 3.3504 760704 STATE S ÇOUNT LOCATION Beardshe -22 La NZO auti WELL# LEASE to Bothersthill & Fambourg OLD OR(NEW (Circle one) Se redea CONTRACTOR OWNER sama TYPE OF JOB 3 HOLE SIZE T.D. CEMENT AMOUNT ORDERED 223 shed com 326CC 10,5 CASING SIZE DEPTH 2209 **TUBING SIZE** DEPTH DRILL PIPE DEPTH TOOL DEPTH 225 20 @ 12.70 4/627.50 PRES. MAX MINIMUM COMMON MEAS. LINE SHOE JOINT POZMIX 0 @ 33.20 15/3 360 CEMENT LEFT IN CSG. GEL 8348 4,00 572.00 @ 50 PERFS. CHLORIDE 8.93 461 DISPLACEMENT @ ASC_ 0 EQUIPMENT @ @ CEMENTERLat PUMPTRUCK 0 431 HELPER # 0 BULK TRUCK @ # 818/287 DRIVER @ BULK TRUCK 0 # DRIVER @ 2.18 HANDLING 243.3 ft-3 MILEAGE 1. 1 toux 50) 603.30 1443.00 50× a TOTAL 6732 48 **REMARKS:** 11x 225 9 Km Oreplaces SERVICE accent Did circulate 310-75 DEPTH OF JOB 512 25 PUMP TRUCK CHARGE **EXTRA FOOTAGE** a MILEAGE MILE @7 70 385.00 @ 7.25,00 5410 acter MANIFOLD @ 4.40 A 0 CHARGE TO: BENEXCO .F TOTAL 1887.25 STREET. CITY STATE ZIP PLUG & FLOAT EQUIPMENT 0 0

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or 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 1.1 CA SIGNATURE

TOTAL _____ SALES TAX (If Any)_____ TOTAL CHARGES _______ DISCOUNT _______ G, 218.44 Net.

@

@

0

11 2	1 15	y Ici	ż	1.0	171	CEMENT DATA:			
12.			en kis T	icket No.	0	Spacer Type:			
1.	enerca Uchas			ig <u>Beree</u> Vell No. <u>7-9</u>	77			, ft³/sk Density	
<u>Z</u>	owlin	*****		tate				-	
νουπιγ					<u>.</u>	LEAD: Duma Time	· · · · · · · · · · · · · · · · · · ·	hrs. Type Core	3 240
pcation	Jon - c	AAG	cut t	En 1/24 hous	the de	LEAD: Pump Time		nis. Type	
CASING DATA:	Conductor			Squeeze 🔲 Mi		Amt. 225_Sks Yi	ield / 36	Excess Excess	02 pg
onomo onin.	Surface			oduction 🔲 Lin					
873	_Type	en wei	ght <u>23</u>	Collar			•	hrs. Түрө Ехсөзэ	
			8.00			Amt Sks Yie	ld	ft³/sk Density	
								gals/sk Total	
asing Depths: To	KB		. Bottom	310.25		Pump Trucks Used	<u>31-Ke</u>	- 4y	
ung Depiter t						Bulk Equip. 818/28	27 - A	dam	
								·····	
						-	•		
rill Pipe: Size		Weight	·	Collars		······································			
pen Hole: Size _	1244	T.D. 🚅		P.B. to	ft.	Float Equip: Manufacturer	······		·.
APACITY FACTO	IRS.	ا. ريز				Shoe: Туре		, Depth	
asing:	Bbls/Lin. ft*	-064	Lin. ft./E	3bl				Depth	
pen Holes:	Bbls/Lin. ft		Lin. ft./B	3bl		Centralizers: Quantity	, Plugs Top	p Blm	
vill Pipe:	Bbls/Lin, ft		, Lin. ft./B	3bl		Stage Collars		· · · · · · · · · · · · · · · · · · ·	
nnulus:	Bbls/Lin. ft		Lin. ft./B	3bl		Special Equip.	10.0	1099	·
	Bbls/Lin. ft		Lin, ft./B	3bl			AI	mt. 28.93 Bbls. Weight	PP
								Malahi	QQ QQ
OMPANY REPR	ESENTATIVE		·			Mud Type CEMENTER Lak	ene		
OMPANY REPRI	ESENTATIVE		·				eene REM	1ARKS	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED L	DATA		eene REM		
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED L	DATA		eene REM	1ARKS	·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED L	DATA RATE Bbls Min.	CEMENTER Lak 1151el Saf Stortwo	reme REM	AARKS exting	·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED L	DATA RATE Bbls Min.	CEMENTER Lak Hotel Sat Stort use Start Ce	REM REM etyment	MARKS ERVing	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED L	DATA RATE Bbls Min.	Hotel Saf Stortes Start Ce Cuergh Ce	REM REM Dy Me when	AARKS ERting ZZSSKS	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak 1751el Saf Stort co Stort co Cuergh Ce Stop Cee	REM REM Pyre ever mart ever	AARKS ERting 32353K) 37cmes 15	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	Hotel Saf Stortes Start Ce Cuergh Ce	REM REM Pyre ever mart ever	MARKS ERVing	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak 1751el Saf Stort co Stort co Cuergh Ce Stop Cee	REM REM Pyre ever mart ever	AARKS ERting 32353K) 37cmes 15	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak 1751el Saf Stort co Stort co Cuergh Ce Stop Cee	REM REM Pyre ever mart ever	AARKS ERting 32353K) 37cmes 15	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERting 32353K) 37cmes 15	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERting 32353K) 37cmes 15	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERting 32353K) 37cmes 15	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERTing 32353K) 37cmes 15	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERTing 32353K) 37cmes 15	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERTing 32353K) 37cmes 15	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERTing 32353K) 37cmes 15	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERTing 32353K) 37cmes 15	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM Pyre ever mart ever	AARKS ERTing 32353K) 37cmes 15	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM eter ment enent or ent dich	AARKS 22 Jung 23 2 5 3 Ks 3 Junes 1 5 unp & Cines Circular Circular	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM eter ment enent or ent dich	AARKS ERTing 32353K) 37cmes 15	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM eter ment enent or ent dich	AARKS 22 Jung 23 2 5 3 Ks 3 Junes 1 5 unp & Cines Circular Circular	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM eter ment enent or ent dich	AARKS 22 Jung 23 2 5 3 Ks 3 Junes 1 5 unp & Cines Circular Circular	· · · · · · · · · · · · · · · · · · ·
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM eter ment enent or ent dich	AARKS 22 Jung 23 2 5 3 Ks 3 Junes 1 5 unp & lines circular Circular	
OMPANY REPRI	ESENTATIVE PRËSSU DRILL PIPE	RES PSI	· FLU	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	CEMENTER Lak Hotel Saf Stort co Start Co Cuergh Co Stop Coo	REM REM eter ment enent or ent dich	AARKS 22 Jung 23 2 5 3 Ks 3 Junes 1 5 unp & lines circular Circular	

.

WELL FILE ALLIED OIL & GAS SERVICES, LLC 062126 Federal Tax I.D. # 20-8651475 REMIT TO P.O. BOX 93999 SERVICE POINT: SOUTHLAKE, TEXAS 76092 Osthly 14 RANGE SEC. TYP CALLED OUT ON LOCATION JOB START JOB FINISH 36 DATE (2/3/ 13 2 COUNTY STATE LOCATION Mc Donald NTO AA 314 LEASE WELL # 7-22 165 OLD OR NEW (Circle one) TO OIR Form STand Non E-No Ento CONTRACTOR Generation OWNER TYPE OF JOB Pad 2 HOLE SIZE 7 CEMENT T.D. CASING SIZE 5/ 15/14/bDEPTH AMOUNT ORDERED 450 Aug 1/4Flo Seal **TUBING SIZE** DEPTH 250 Con 1071 5205 2912 25 GISPNIZ 490 DRILL PIPE Y DEPTH TOOL DEPTH @ 1> 50 PRES. MAX 25299 447520 MINIMUM COMMON MEAS. LINE SHOE JOINT POZMIX @ CEMENT LEFT IN CSG. @ 2340 GEL PERFS. CHLORIDE @ DISPLACEMENT ASS ALW Dell \mathscr{L} @ $@\mathcal{L}$ EQUIPMENT Sult 68 200 0 Cilpity 12 100300 12 Sea 128 @ PUMPTRUCK CEMENTER 12ABL @ 1APA #43-281 HELPER they's @ BULK TRUCK @ # 818 BULK TRUCK DRIVER 0 0 @740 # 396 DRIVER HANDLING PAST. 2046 MILEAGE 2 pr/mile 33.957 4414 **REMARKS:** TOTAL 21849 late Mr. 2054 AH n'y ISSA ALWHA Flandenn 51/2 Tril 1 250 SERVICE Thout Work Trank - Dines. 0120 ALIBO ~ 1900 PST US n/104% DEPTH OF JOB .pl Q 2800 PSI 276525 lonel Flort PUMP TRUCK CHARGE andate EXTRA FOOTAGE 0 MILEAGE 50 mile 0 TLA MANIFOLD = Head @2 Ale THAN, ER tate Vela De 20 mile @40 0 CHARGE TO: Desens TOTAL 3150 25 STREET . CITY_ STATE. ZIP. **PLUG & FLOAT EQUIPMENT** AGy Plant Shore @ Th Lotth Bann Assemble 0 Contraliers @ 40 11 To: Allied Oil & Gas Services, LLC. 20 @46 Ric, scrotchers 92

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or 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 SIGNATURE

39429 W Acallit @ TOTAL 213)

SALES TAX (If Any) TOTAL CHARGES .93 IF PAID IN 30 DAYS DISCOUNT. 6 20.137. 11 Net.

	AL OIL & GAS S	ERVICES, L			C	EMENTING	STAGE NO.	
Date 12/3/1	Dis Dis	rice <u>Cathle</u>	•	_ Ticket No.062	126	CEMENT DATA:		
Company	Bires	w		Rig Berrates		Spacer Type: WFATI		
Lease_Mid	hael				32	Amt. 12 18 Sks Yield	ft³/sk Density	PF
County	planti	N				<u></u>		
Location				_ Field		LEAD: Pump Time	Arusher	21.4
			······					
CASING DAT	A: Conducto	r 🖸	рта 🔲	Squeeze 🔲	Misc 🗍	Amt. USO Sks Yield	Excess (t³/sk Density	
-11	Surface		adiate 🔲	Production YTD I	Liner 🗖 🧬		his Tuno Caro K2 11 Su	PP #
Size	Туре	Ven W	eight <u>/ 51</u>	Collar	· · · · ·	TAIL: Pump Time Alson to	Excess	
	A						ft³/sk Density	
						WATER: Lead gals/sk Ta	il gals/sk Total	86
	,10		—	Fail				
Casing Depths:	Top_KB_		Bottom _	<u> </u>		Pump Trucks Used		
				•	<u> </u>	Bulk Equip		
				F .			· · · · · · · · · · · · · · · · · · ·	
	111,							
Drill Pipe: Size	212	Weight		Collars				
Open Hole: Size	· · · · · · · · · · · · · · · · · · ·	T.D	ft	P.B. to	ft.	Float Equip: Manufacturer		
CAPACITY FAC		ano				Shoe: Type		
Casing: Xpen Holes:	Bois/Lin, It	10 - 00	Lin. ft.,	/Bbl,		Float: Type		
vill Pipe:				/Bbl		Centralizers: Quantity Plugs T		······
Annulus:				/вы		Stage Collars		
	Bble/Lin ft		t to to	/8bl		Special Equip	.	
erforations:	From	· (1)		ft. Amt		Disp. Fluid Type	Amt Bbls. Weight	PPG
		(i) (i)				Mud Type	Weight	PPG
OMPANY REP	RESENTATIVE	1 Heres		•		An An	an a	
TIME	PRESSU	1		UID PUMPED				
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	Bbls Min.		MARKS	
_				1		Onlawtion SPA M	the set up	
						Ance Annet	ig set up	
							· · · · · · · · · · · · · · · · · · ·	
						This with the		
						My 20 SIL KIT		
· · · · · · · · · · · · · · · · · · ·					,	My 20 Sh AIT		
					•	My 20 Sh AIT		,
						Ming 20 SIL AH Ming 15 GIL MH Ming 15 SIL Bam	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
					· · · · · · · · · · · · · · · · · · ·	Miny 20 SR ALT Min 15 GA MAT Miny 415 SIL Bam	~ 5 1/2 AL-M/	avit:e
						Miny 20 SR ALT Min 15 GA MAT Miny 415 SIL Bam	~ 5 1 ALN/ MINTONINI SMELLY	porte
						Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101	- ~ 5 1 ALM MINTONEN STEVU 1 170	port-e
	200	· · · · · · · · · · · · · · · · · · ·		0 <i>p. 9</i>	· · · ·	Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101	- 5" ALM MATONIN STELLY 1 Had	ANT:C
	200	· · · · · · · · · · · · · · · · · · ·		00.0 40.0		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101	~ 5" ALW MINTON Jul 5 421 11 1 1 1 10	<i>prite</i>
	200 300 (300 (· · · · · · · · · · · · · · · · · · ·		00.0 40.0 52.0.1	 	Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101	~ 5 1 ALW MATONY STON	pote
	200 300 300 500			00.0 40.0 52.0.1 60.0	<u> </u>	Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101	~ 5 1 ALN/ MINTONINI 5 42111 1 140	Antre
	200 300 300 500 500 500			00.0 40.0 50.0 60.0 50.0	· · · · · · · · · · · · · · · · · · ·	Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		ANT-C
	200 300 300 300 300 300 300 300 300			00.0 40.0 52.0 50.0 50.0 80.0 80.0	· · ·	Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		ANTE
	200 300 300 300 300 300 300 300 1500				· · ·	Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101	- 5th Al-M Matton gul 5th (1) 1 1tal	ANTE
	200 300 300 200 200 200 200 200 1200 120	· · · · · · · · · · · · · · · · · · ·		$ \frac{\partial \rho. \sigma}{\partial \mu \rho. \sigma} \frac{\partial \rho. \sigma}{\partial \mu \rho. \sigma} \frac{\partial \rho. \sigma}{\partial \rho} \frac{\partial \rho. \sigma}{\partial \rho}$	/	Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		ANT:C
	200 300 500 200 200 200 1500 1500 1500 1700 1700			00.0 40.0 52.0 50.0 50.0 80.0 70,0 100.0 100.0		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		pote
	200 300 300 300 300 300 300 1500 1500 150			00.0 40.0 50.0 50.0 80.0 80.0 90,0 100.0 104.5		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		
	200 300 300 500 500 500 1500 1500 1500 15			00.0 40.0 50.0 50.0 80.0 70.0 80.0 70.0 100.0 104.5		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		
	200 300 300 300 500 1500 1500 1500 1500 1			00.0 40.0 50.0 50.0 80.0 70.0 100.0 100.0		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		
	200 300 (300 (300 (300 300 1500 1500 1500 1500 1500 1500 1			00.0 40.0 52.0 50.0 80.0 70,0 70,0 100.0 100.0		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101	- 5th ALM MATON Jul Straily 1 Hall	
	200 300 (300 (300 (300 300 300 1500 1500 1500 1500 1500 15			00.0 40.0 52.0 50.0 80.0 80.0 90,0 100.0 104.5		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		
	200 300 300 500 300 1500 1500 1500 1500 1			00.0 40.0 52.0 50.0 80.0 70,0 100.0 100.0		Miny 20 91 AIT Minp 15 GIN MAT Mins 415 SHL Bam Mins 250112 Con 101		

BEREXCO LLC

MICHAEL 7-22

SE SE NE SEC 22 T1S R36W

RAWLINS COUNTY, KANSAS

SUMMARY	1
WELL DATA	2
FORMATION TOPS	3
LITHOLOGY & SHOWS	4
SERVICES	9
MUD REPORTS	10

SUMMARY

The Berexco LLC Michael 7-22 in Rawlins County, Kansas spud December 26, 2013 and reached a total depth of 4450' on December 30, 2013. The test drilled rathole below the Lansing-Kansas City F zone but did not penetrate the Pennsylvanian Pawnee. 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 Virgilian Oread Limestone. The Michael 7-22 was drilled using seismic and nearby well control.

Because the Michael 7-22 was drilled as a 10-acre infill well, no DSTs were run. A PDC bit was run from surface casing to total depth. No lost circulation was encountered. A second "wiper trip" was made after wireline logs only reached 2218' on the first logging run. Several tight zones were encountered on the second attempt but logs went to bottom.

Evaluation of the primary zones of interest was by sample analysis. Drill rate was not always a good indicator of formation changes and sample correlation was difficult at times.

Oread Limestone and Lansing-Kansas City

The Oread samples were fossiliferous packstone with fair interparticle porosity, scattered oil staining, and good cuts.

The Lansing A exhibited fair moldic and interparticle porosity with spotty black oil, good sample cuts and fluorescence. Wireline logs showed good porosity. The Lansing B was fossiliferous packstone and mudstone with poor to trace vuggy porosity, live black oil staining, and fair cuts. Wireline logs revealed tight to poor limestone porosity. The Lansing C samples exhibited good cut and fluorescence in grainstone with fair moldic porosity. Spotty live black oil staining was evident. The Lansing D limestone exhibited good fluorescence and cuts but poor porosity. The Lansing E was packstone with black heavy oil staining and fair intergranular and poor vuggy porosity. The Lansing F was nonporous limestone with no sample shows.

Oil Well Completion

5 ¹/₂" production casing was run to complete the Michael 7-22 as an oil producer.

Peter J. Vollmer Consulting Wellsite Geologist, WPG #3369 January 2014 Berexco LLC Michael 7-22

WELL DATA

OPERATOR:	Berexco LLC 2020 North Bramblewood Drive Wichita, Kansas 67206
WELL NAME:	Michael 7-22
SURFACE LOCATION:	2310' FNL & 330' FEL SE SE NE Sec 22, T1S, R36W Rawlins County, Kansas
LATITUDE & LONGITUDE:	39.9527397, -101.3369867
BOTTOM HOLE LOCATION:	Vertical Hole
ELEVATIONS:	3175' GL 3188' KB
API NUMBER:	15-153-20969
BASIN:	Mid-Continental Arch
FIELD:	East Fork
HOLE SIZE:	12 ¼" to 310'; 7 7/8" to 4450'
CASING:	8 5/8" J-55 24# STC set to 310' KB
SPUD DATE:	December 26, 2013
TD DATE:	December 30, 2013
TOTAL DEPTH:	4450' Rig TD 4454' Log TD
LAST FORMATION:	Pennsylvanian Lansing-Kansas City
WELL STATUS:	Ran 5 ¹ / ₂ " production casing for oil well completion
OPERATOR REPRESENTATIVE:	Dana Wreath - Vice President
WELLSITE GEOLOGIST:	Peter J. Vollmer

FORMATION TOPS

Formation KB	Sample Top	Log Top	Log TVD	Log Datum 3188
Pierre Sh	Cased	Cased	N/A	N/A
Niobrara Fm	N/A	1092	1092	+2096
Fort Hays Ls Mbr	N/A	1626	1626	+1562
Carlile Sh	N/A	1666	1666	+1522
Dakota	N/A	2223	2223	+965
Cheyenne	N/A	2600	2600	+588
Blaine	N/A	2930	2930	+258
Stone Corral Anhydrite	3089	3089	3089	+99
Base Anhydrite	3121	3120	3120	+68
Neva	3565	3571	3571	-383
Foraker	3675	3678	3678	-490
Topeka	3903	3894	3894	-706
Deer Creek Sand	3934	3932	3932	-744
Oread	4012	4004	4004	-816
Heebner Sh	4045	4045	4045	-857
Lansing-Kansas City				
"A"	4106	4106	4106	-918
"B"	4163	4166	4166	-978
"C"	4228	4228	4228	-1040
"D"	4271	4264	4264	-1076
"E"	4310	4316	4316	-1128
"F"	4354	4354	4354	-1166
TD Driller	4450			
TD Logger		4454	4454	-1266

The following descriptions are interpretive. Rig crew members collected unlagged samples from 3500' to 4540' TD. Depths are rig depths except where noted as wireline.

3500' - 3526'	SHALE: red, firm to hard, subfissile to blocky, very silty, sandy in part, non to slightly calcareous, trace tan LIMESTONE.
3526' - 3544'	LIMESTONE: white to light gray, firm to hard, chalky, fossil fragment, tight, no shows.
3544' - 3565'	SHALE: red, firm to hard, subfissile to blocky, very silty, sandy in part, non to slightly calcareous.

NEVA	SAMPLE TOP: 3565' LOG TOP: 35'	71' SUBSEA: -383'
3565' - 3576'	LIMESTONE: gray to dark gray, firm to chalky, tight, no shows.	hard, cryptocrystalline, black algal stain,
3576' - 3614'	SHALE: red brown, soft to firm, blocky, with interbedded LIMESTONE: white to tight, no shows.	••••
3614' - 3656'	SHALE: red brown to grayish green, firm	n, blocky, silty, Limestone stringers.
3656' - 3675'	SHALE: red brown, soft to firm, sub bloc	ky, n calcareous, occasional silty.

FORAKER	SAMPLE TOP: 3675'	LOG TOP: 3678'	SUBSEA: -490'
3675' - 3690'	fragment, trace black oil	l stain, dull yellowish wh	cryptocrystalline, chlky, fossil ite fluorescence, slow streaming sible porosity, poor show.
3690' - 3696'	SHALE: gray to grayish fragments.	green, firm, blocky, nor	n to slightly calcareous, fossil
3696' - 3712'		light gray, firm to hard, o ghtly sandy at base, tight	cryptocrystalline, chalky, fossil t, no shows.
3712' - 3718'		riable, very fine grained, trace porosity, no show	subangular, well sorted, calcareous s.

3718' - 3756'	LIMESTONE: white, firm, chalky, tight, with SHALE: gray to grayish green, firm, blocky, non to slightly calcareous, fossil fragments.
3756' - 3806'	SHALE: reddish brown, soft to firm, subblocky, non calcareous, occasional silty.
3806' - 3834'	SHALE: dark gray to black, firm, fissile to blocky, non calcareous, carbonaceous in part, fossil fragments (Brachiopods).
3834' - 3868'	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragment, gray Shale stringers, tight, no shows.
3868' - 3903'	SHALE: brownish red, soft to firm, blocky, non to slightly calcareous, occasional LIMESTONE: white to light gray, hard, cryptocrystalline, fossil fragments, tight, no shows.

TOPEKA	SAMPLE TOP: 3903'	LOG TOP: 3894'	SUBSEA: -706'
3903' - 3912'		ce black oil stain, tight, brig	otocrystalline, fossil fragments, th yellowish white fluorescence,
3912' - 3920'	SHALE: gray, firm, platy	, non to slightly calcareous	, subwaxy, plant remains.
3920' - 3934'	LIMESTONE: light gray trace opaque chert, tight,		otocrystalline, fossil fragments,

DEER CREEK SAND SAMPLE TOP: 3934' LOG TOP: 3932' SUBSEA: -744'

3934' - 3952' SANDSTONE: light gray to light brown, friable to soft, very fine grained, well rounded, well sorted, calcareous, predominant clay filled, plant remains, abundant loose grains, no visible porosity, no show.

3952' - 4012'SHALE: reddish brown, maroon, light gray, mottled in part, soft to firm, blocky, non
calcareous, occasionally moderately to very silty in part.

OREAD	SAMPLE TOP: 4012'	LOG TOP: 4004'	SUBSEA: -816'
4012' - 4030'		white, firm to hard, wackest sional peloids, tight to fair	tone to packstone, chalky in interparticle and vuggy

porosity, scattered black to dark brown live oil stain, bright yellowish white fluorescence, immediate blooming milky yellowish white cuts, good show.

4030' - 4045' LIMESTONE: white to light gray, very hard, cryptocrystalline, slightly siliceous, fossil fragments, tight, no shows.

HEEBNER SH.	SAMPLE TOP: 4045'	LOG TOP: 4045'	SUBSEA: -857'
4045' - 4054'	SHALE: grayish black to slightly calcareous.	dark gray, firm, sub fissile	, carbonaceous, non to very
4054' - 4106'	SHALE: gray, firm, platy	, non to slightly calcareous	, fossil fragments.

LANSING- KANSAS CITY "A"	SAMPLE TOP: 4106'	LOG TOP: 4106'	SUBSEA: -918'
4106' - 4120'	grainstone, peloids, fossil	ream to very light gray, firm fragments, trace black hea ght yellowish white fluores	vy oil stain, trace to fair
4120' - 4126'	SHALE: gray to dark gra	y, firm, blocky, non to slig	htly calcareous.
4126' - 4134'	rounded, well sorted, calc	ht, bright yellowish white	occasional black heavy oil
4134' - 4163'	SHALE: gray to light gra	y, firm, blocky, non to slig	htly calcareous.

LANSING- KANSAS CITY "B"	SAMPLE TOP: 4163'	LOG TOP: 4166'	SUBSEA: -978'
4163' - 4180'	intergranular and vuggy	n, packstone, fossil(Crinoic porosity, spotty heavy black e yellowish white cut, good	c oil, bright yellowish white
4180' - 4190'	SHALE: dark gray, firm,	platy, slightly calcareous in	n part, carbonaceous material.

4190' - 4228' LIMESTONE: white to light gray, firm, cryptocrystalline, gray Shale partings, fossil fragments (Brachiopods), tight, no show.

LANSING- KANSAS CITY "C"	SAMPLE TOP: 4228'	LOG TOP: 4228'	SUBSEA: -1040'
4228' - 4242'		k heavy oil, free oil in v	il, fair intergranular and vuggy ugs, dull yellowish white od show.
4242' - 4248'	SHALE: dark gray, firm	, blocky, slightly calcare	cous.
4248' - 4254'		ity, occasional live black	rt, hard to firm, grainstone, fossils, k oil, patchy yellowish white • show.
4254' - 4271'	SHALE: dark gray to bl	ack, firm, blocky, calcar	eous, carbonaceous in part.

LANSING- KANSAS CITY "D"	SAMPLE TOP: 4271'	LOG TOP: 4264'	SUBSEA: -1076'
4271' - 4294'	LIMESTONE: white, firm to hard, packstone to mudstone, fossil fragments, poor to trace intergranular porosity, rare spotty black oil, bright yellowish white fluorescence, blooming yellowish white cuts, fair show.		
4294' - 4310'	SHALE: dark gray, firm,	blocky, occasional white c	halky Limestone partings.

LANSING- KANSAS CITY "E"	SAMPLE TOP: 4310'	LOG TOP: 4316'	SUBSEA: -1128'
4310' - 4326'	LIMESTONE: white, firm, mudstone to packstone, fossil fragments, secondary clear calcareous crystals in vugs, poor intergranular and occasional vuggy porosity, scattered black heavy oil stain, bright yellowish white fluorescence, dull yellowish white diffuse cut, good show.		
4326' - 4332'	SHALE: dark gray, firm,	sub fissile, non calcareous	, slightly carbonaceous.
4332' - 4354'	SHALE: gray, firm, platy	, non to slightly calcareous	, trace fossil, dull luster.

Berexco LLC Michael 7-22

LITHOLOGY AND SHOWS

LANSING- KANSAS CITY "F"	SAMPLE TOP: 4354'	LOG TOP: 4354'	SUBSEA: -1166'
4354' - 4370'	LIMESTONE: cream to fossil fragments, trace b		lstone to wackestone, scattered no shows.
4370' - 4402'		hite, firm to hard, muds	calcareous, fossil fragments, with tone, occasional fossil fragments,
4402' - 4450' TD	SHALE: dark gray, firm interbedded white chalk		tly calcareous, fossil fragments,

Berexco LLC Michael 7-22

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:	None	
DIRECTIONAL DRILLING:	None	
WIRELINE LOGS:	Pioneer Wireline Services RAG: Surface casing - TD Micro: 3500' to TD Engineer: Chris Desaire	Hays, KS 785-625-3858