

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1206446

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

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SHOW □ Gas □ D&A □ ENHR □ SIGW □ OG □ GSW □ Temp. Abd. □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No 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 Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. Twp. S. R. East West 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



Operator Name:			Lease Name: _			Well #:		
Sec Twp	S. R	East West	County:					
open and closed, flow and flow rates if gas t	ving and shut-in presson to surface test, along w	formations penetrated. I ures, whether shut-in pro vith final chart(s). Attach	essure reached stati n extra sheet if more	c level, hydrosta space is neede	itic pressures, bott d.	tom hole tempe	erature, fluid r	recovery,
		otain Geophysical Data a or newer AND an image		egs must be ema	ailed to kcc-well-lo	gs@kcc.ks.gov	n. Digital elec	tronic log
Drill Stem Tests Taken (Attach Additional	•	Yes No		_	on (Top), Depth ar		Samp	
Samples Sent to Geo	ological Survey	☐ Yes ☐ No	Nam	e		Тор	Datur	m
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No						
List All E. Logs Run:								
		CASING	RECORD Ne	ew Used				
		Report all strings set-	conductor, surface, inte	ermediate, product	ion, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and P Additiv	
		ADDITIONAL	OFMENTING / OOL					
Purpose:	Depth		CEMENTING / SQL	JEEZE RECORD		araant Additiraa		
Perforate	Top Bottom	Type of Cement	# Sacks Used	Used Type and Percent Additives				
Protect Casing Plug Back TD								
Plug Off Zone								
Did vou perform a hydra	ulic fracturing treatment o	on this well?		Yes	No (If No, ski	p questions 2 ar	nd 3)	
	=	raulic fracturing treatment ex	xceed 350,000 gallons		= ' '	p question 3)	,	
Was the hydraulic fractu	ring treatment information	n submitted to the chemical	disclosure registry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ON RECORD - Bridge Plug Footage of Each Interval Per			cture, Shot, Cement			Depth
	Сроспу Г	octago of Laon morvar rol	ioratou	(>1	mount and rand or ma	teriar Good)		Борит
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN							
Fotimeted Day 1 . C	0" -	Flowing			Other (Explain)) O" D "		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf Wate	er B	bls. G	Gas-Oil Ratio	Gr 	ravity
DISPOSITI	ON OF GAS:	1	METHOD OF COMPLE	ETION:		PRODUCTIO	ON INTERVAL:	
Vented Sold		Open Hole	Perf. Dually	Comp. Con	mmingled			
	bmit ACO-18.)	Other (Specify)	(Submit)	ACO-5) (Sub	omit ACO-4)			

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 3-23
Doc ID	1206446

Tops

Name	Тор	Datum
Niobrara	1198	+2074
Ft. Hays Limestone	1702	+1570
Carlile Shale	1747	+1525
Dakota	2135	+1137
Cheyenne	2692	+580
Blaine	3020	+252
Stone Corral Anhydrite	3180	+92
Base Anhydrite	3210	+62
Neva	3662	-390
Foraker	3774	-502
Wabaunsee	3944	-672
Topeka	3987	-715
Deer Creek Sand	4022	-750
Oread	4098	-826
Lansing/KS City A	4198	-926
LKC B	4256	-984
LKC C	4314	-1042
LKC D	4360	-1088
LKC E	4404	-1132
LKC F	444	-1172
RTD	4550	
LTD	4549	-1277

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 3-23
Doc ID	1206446

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.250	8.625	24	300	Common	225	3% cc, 2% gel
Production	7.875	5.50	15.50	4549	Lite, Common	700	3/4#floseal ,10%salt,4 #Gilsonite, 2%gel

ALLIED OIL & GAS SERVICES, LLC 062579

Federal Tax I.D. # 20-8651475

SOUTHLAKE, TEXAS 76092					SERVICE POINT:			
DATE /9/14	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH	
LEASE/Michael	WELL#	3-23	LOCATION A	Joseph N70 H	10 3/0E	COUNTY	STATE	
OLD OR NEW &						Rewlins	IKJ	
50100	1 1		110 100 110	el C bottom DP	H. H. N.O.E.	Dist		
CONTRACTOR &		10		OWNER				
HOLE SIZE /		T.1	2. 311	CEMENT				
CASING SIZE			PTH 3/1		ORDERED 325	-/2 2	Daci	
TUBING SIZE			EPTH	AMOUNT	201	Zan D	/VCC	
DRILL PIPE			EPTH	———··		Gez		
TOOL	···	DE	PTH				~~	
PRES. MAX		Mi	NIMUM	COMMON_	025	@1790	-402730	
MEAS. LINE		SH	IOE JOINT	POZMIX _		@	LA)	
CEMENT LEFT II	N CSG.) <u>, </u>	GEL _	9	@ 23	95	
PERFS. DISPLACEMENT	,			CHLORIDE	8	_@64-	5/2	
DISPLACEMENT				ASC		_@		
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	HELPER	Kw	in Lyan			 		
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17	DRIVER			- HANDLING		@210	603-52	
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CHARGE TO:	C1 ***					_@		
STREET						TOTAL	18972	
CITY					77 V. 2. A A			
	•				PLUG & FLOAT	EQUIPME	1T	
						_@	-	
		•				_@		
To: Allied Oil &						_@	-	
You are hereby re	equested t	o rent cei	nenting equipmen	ıt ———		_@		
and furnish cemer	nter and h	ielper(s) i	o assist owner or		····	_@	• •••••	
contractor to do v								
done to satisfaction						TOTAL		
contractor. I have					ITE A			
TERMS AND CO	OITIUM	NS" liste	d on the reverse si	de. SALES TAX		7770		
	1.1	//		TOTAL CHA	RGES 85	1.00		
PRINTED NAME	Nas W	este	-	DISCÖUNT	2.401.6	3 10041	D IN 30 DAYS	
U	1			DWCOOKI				
CICALATIBE					6,175	64 Ner	<i>F.</i>	

ALLIED OIL & GASSERVICES, LLC 062018

Federal Tax I.D. #20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092		2.5	SERV	ICE POINT:	. VS
				310000	4-6-0
DATE 3-18-14 SEC. 3 TWP, RANG	E36	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 4100p.1
		lonald N-	LO AA.T	FOW I'MS	STATE
		J+E inte			
	se in fine		3	ı	
CONTRACTOR Beredes 2		OWNER S	Same		
TYPE OF JOB GOOD COM		OR ADDIT			
	-49 10-	CEMENT	DERED 450	ske lo	1. 4
CASING SIZE 5 /2 DEPTH 4 TUBING SIZE DEPTH	5 70	ED-Seel	250 sk		10% self
DRILL PIPE DEPTH		5 Bilson			0 100001
TOOL DEPTH					10
PRES. MAX MINIMUN		COMMON	250sts	@ 17.90	4475.00
	NT 42.46	POZMIX		@	
CEMENT LEFT IN CSG. 42.46		GEL	585	_@ <i>23:40</i>	117.00
PERFS. DISPLACEMENT 187, 27 66 ALCOHOLD	<u></u>	CHLORIDE_	450 5	@ @15.95	2177.50
	yer	456-fite	10000c	@	41100
EQUIPMENT		Salt	26 565	@24.35	685,10
				_@	
	inal -	Gilsonite	1250*	@ <u>. 98</u>	1225.00
# 120 HELPER THE F	lipse_			_@	1007 91
# 566 DRIVER Adam F	Flipse	Flo-seal	338=	@2.97	4,003,86
BULK TRUCK	,		:	_@	
# 600 DRIVER Way	(103)	HANDLING	B24.89F	3@ 2.48	2045.73
9			1.22 tons 450		
REMARKS:				TOTAL	21,190.79
Rui Plac / Floot equip Break	eles				
Drop ball, Jall want through show			SERVI	CE	
Circ. The my 30 sks in R. b	min 20				,
sks in m. H. min 400 sks lit	etailed	DEPTH OF JC		4548	
by 250 sks Com, washing	no pit.	PUMPTRUCE			765.75
Telega plus Displace ul material	di plug did	EXTRA FOOT	4	_@	785
Comment did correlate	er pressor	MANIFOLD _	Head	@ <u>7.40</u>	1116.
The state of the s	10.6	MILV	50	@ 4.40	NIC-
	100			_@	
CHARGETO: BEYEXCO LLC	-	-			:
•				TOTAL	3150.72
STREET					
CITYSTATE	_ZIP		PLUG & FLOAT	r eathdadea	3 TP
r		1	LLOG & FLOAD	O I	(-1)
		100000	naustral	Rubber	0 /2/
		AFU FIDA	n olua iASSU	_@	124.00
To Allied Oil & Constant II C	•	Contrali	7215		370.00
To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing	r equipment	Recie S	cratcher 921	0.0	920.00
and furnish cementer and helper(s) to assis					
contractor to do work as is listed. The abo					
done to satisfaction and supervision of own				TOTAL	1706.00
contractor. I have read and understand the	~				,•
TERMS AND CONDITIONS" listed on th		SALES TAX (If Any)		
	2	TOTAL CHAP	RGES_dG	PC. TPO	
PRINTED NAME		DISCOUNT_	6.815.6	3 10041	D IN 30 DAYS
		. DISCOUNT _	1000		
MANAGE SI ALLIEC			14,93	1.90 Ne	√1.
SIGNATURE CA CHOURS				•	



Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206

Michael #3-23

Job Ticket: 56956

DST#: 1

ATTN: Pete Vollmer

Test Start: 2014.03.13 @ 07:10:00

GENERAL INFORMATION:

Formation: Oread

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 09:24:00 Tester: Kevin Mack 66

Time Test Ended: 15:56:00 Unit No:

Interval: 4058.00 ft (KB) To 4112.00 ft (KB) (TVD) Reference Elevations: 3272.00 ft (KB)

Total Depth: 4112.00 ft (KB) (TVD) 3259.00 ft (CF)

7.88 inches Hole Condition: Good Hole Diameter: KB to GR/CF: 13.00 ft

Serial #: 8874 Inside

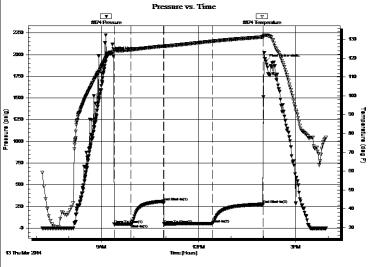
Press@RunDepth: 4059.00 ft (KB) 52.08 psig @ Capacity: 8000.00 psig

Start Date: 2014.03.13 End Date: 2014.03.13 Last Calib.: 2014.03.13 Start Time: 07:11:00 End Time: 15:56:00 Time On Btm: 2014.03.13 @ 09:20:00

> Time Off Btm: 2014.03.13 @ 14:04:30

TEST COMMENT: 30 - IF - Surface Blow died in 5 min.

60 - ISI - No Return 90 - FF - No Blow 90 - FSI - No Return



	PRESSURE SUMMARY									
1	Time	Pressure	Temp	Annotation						
	(Min.)	(psig)	(deg F)							
	0	2007.28	122.61	Initial Hydro-static						
	4	45.77	124.39	Open To Flow (1)						
	35	47.79	124.44	Shut-In(1)						
	95	308.39	126.40	End Shut-In(1)						
	96	48.52	126.35	Open To Flow (2)						
	186	52.08	128.97	Shut-In(2)						
`	279	274.56	131.24	End Shut-In(2)						
,	285	1924.13	132.22	Final Hydro-static						

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100M	0.25

Gas Rat	es	
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 56956 Printed: 2014.03.13 @ 16:43:40



FLUID SUMMARY

Berexco, LLC. 23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206 Michael #3-23

Job Ticket: 56956

Serial #:

DST#: 1

ATTN: Pete Vollmer

Test Start: 2014.03.13 @ 07:10:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 70.00 sec/qt Cushion Volume: bbl

Water Loss: 6.40 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 600.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud 100M	0.246

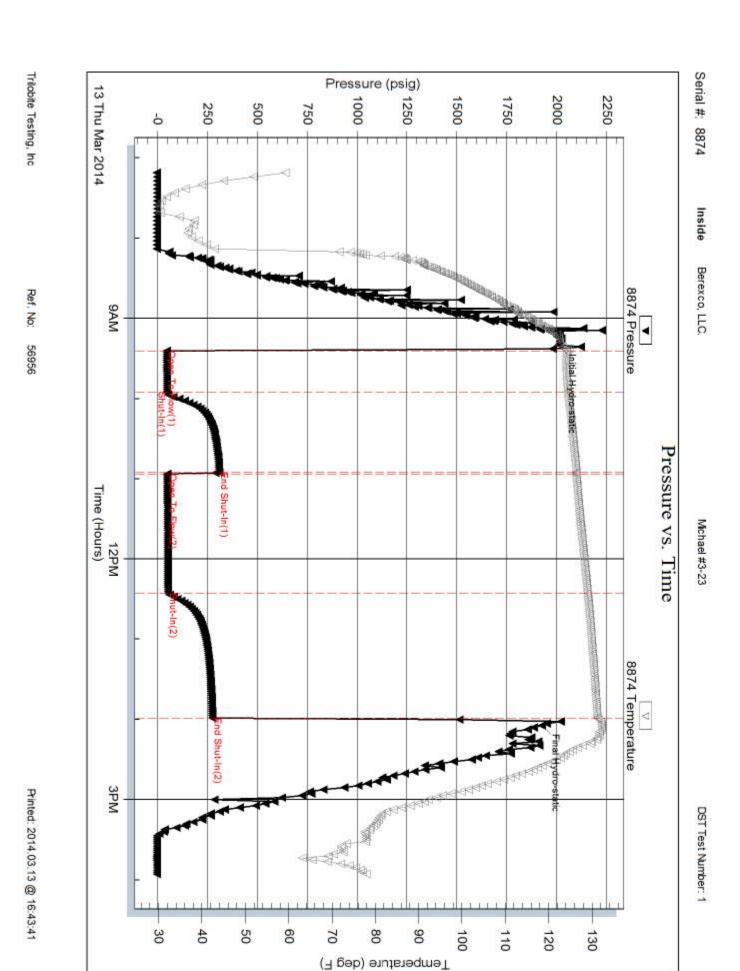
Total Length: 50.00 ft Total Volume: 0.246 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 56956 Printed: 2014.03.13 @ 16:43:41





Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206

Michael #3-23

Job Ticket: 56957

DST#: 2

ATTN: Pete Vollmer

Test Start: 2014.03.14 @ 07:00:00

GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:48:00 Time Test Ended: 14:18:00

Interval:

4146.00 ft (KB) To 4234.00 ft (KB) (TVD)

Total Depth: 4234.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) Tester: Kevin Mack

Unit No: 66

Reference Elevations:

3272.00 ft (KB)

3259.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8874 Inside

Press@RunDepth: 4147.00 ft (KB) 25.95 psig @ Capacity: 8000.00 psig

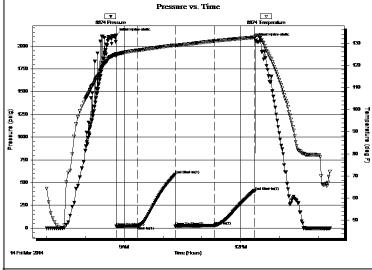
Start Date: 2014.03.14 End Date: 2014.03.14 Last Calib.: 2014.03.14 Start Time: 07:01:00 End Time: 14:18:00 Time On Btm: 2014.03.14 @ 08:47:50

Time Off Btm: 2014.03.14 @ 12:22:30

PRESSURE SUMMARY

TEST COMMENT: 30 - IF- 1/2" Blow died in 10 min.

60 - ISI- No Return 60 - FF- No Blow 60 - FSI- No Return



- 1				
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2120.13	125.17	Initial Hydro-static
	1	18.25	123.99	Open To Flow (1)
	33	21.34	126.71	Shut-In(1)
	91	589.63	129.07	End Shut-In(1)
	92	23.04	128.90	Open To Flow (2)
	151	25.95	130.96	Shut-In(2)
	214	406.75	132.61	End Shut-In(2)
,	215	2064.61	133.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100M	0.05
-	4	

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

Trilobite Testing, Inc. Ref. No: 56957 Printed: 2014.03.14 @ 14:41:37



FLUID SUMMARY

Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206 Michael #3-23

Job Ticket: 56957

Serial #:

DST#: 2

ATTN: Pete Vollmer

Test Start: 2014.03.14 @ 07:00:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:60.00 sec/qtCushion Volume:bbl

Water Loss: 6.00 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 90.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100M	0.049

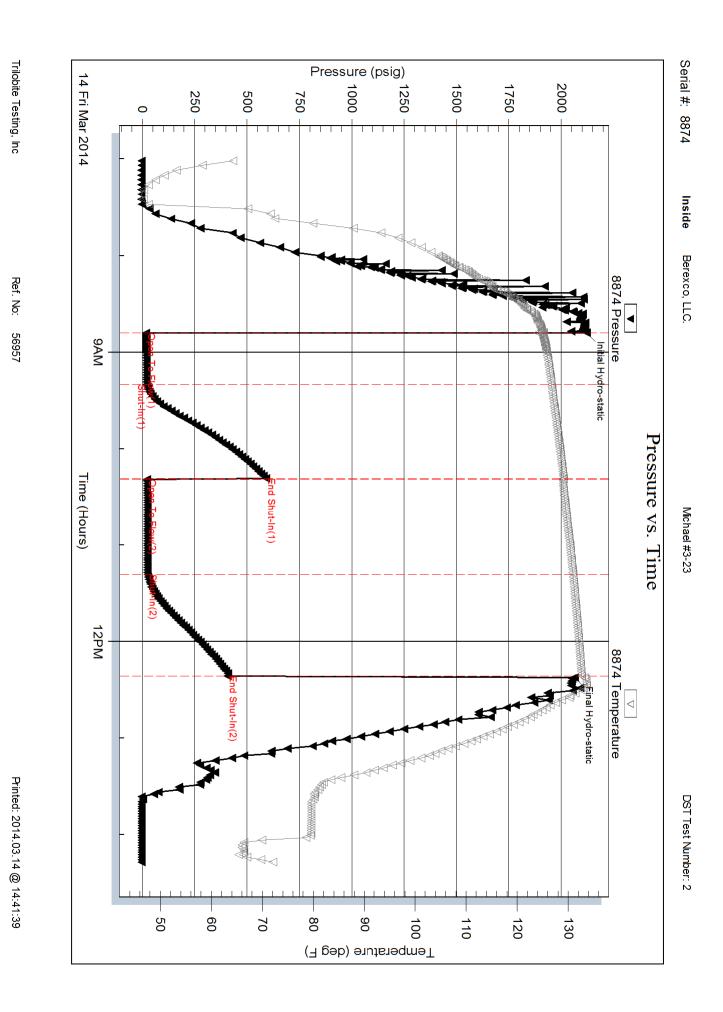
Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 56957 Printed: 2014.03.14 @ 14:41:38





Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206

ATTN: Pete Vollmer

Michael #3-23

Job Ticket: 56958 **DST#: 3**

Test Start: 2014.03.14 @ 23:47:00

GENERAL INFORMATION:

Formation: LKC "B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:40:00 Time Test Ended: 08:19:30

Interval:

4218.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Kevin Mack

Unit No: 66

Tester:

Reference Elevations: 32

3272.00 ft (KB)

15:

3259.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8874 Inside

Press@RunDepth: 136.42 psig @ 4219.00 ft (KB) Capacity: 8000.00 psig

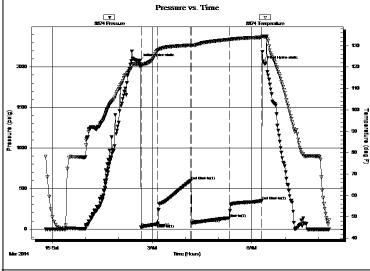
 Start Date:
 2014.03.14
 End Date:
 2014.03.15
 Last Calib.:
 2014.03.15

 Start Time:
 23:48:00
 End Time:
 08:19:30
 Time On Btm:
 2014.03.15 @ 02:38:00

Time Off Btm: 2014.03.15 @ 06:22:00

TEST COMMENT: 30 - IF- 1/4" Blow died in 7 min.

60 - ISI- No Return 60 - FF- No Blow 60 - FSI- No Return



PRESSURE SUMMARY			RE SUMMARY	
T	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2075.75	121.43	Initial Hydro-static
	2	21.70	120.67	Open To Flow (1)
	32	61.32	127.69	Shut-In(1)
.	92	598.57	130.21	End Shut-In(1)
	94	72.37	130.07	Open To Flow (2)
	161	136.42	132.86	Shut-In(2)
2	220	349.47	133.85	End Shut-In(2)
1	224	2043.43	134.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OSM 100M (oil spots)	0.89
20.00	OCM 10o 90M	0.10

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

Trilobite Testing, Inc Ref. No: 56958 Printed: 2014.03.15 @ 09:31:22



FLUID SUMMARY

Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206 Michael #3-23

Serial #:

Job Ticket: 56958

DST#: 3

ATTN: Pete Vollmer

Test Start: 2014.03.14 @ 23:47:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:53.00 sec/qtCushion Volume:bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 800.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OSM 100M (oil spots)	0.885
20.00	OCM 10o 90M	0.098

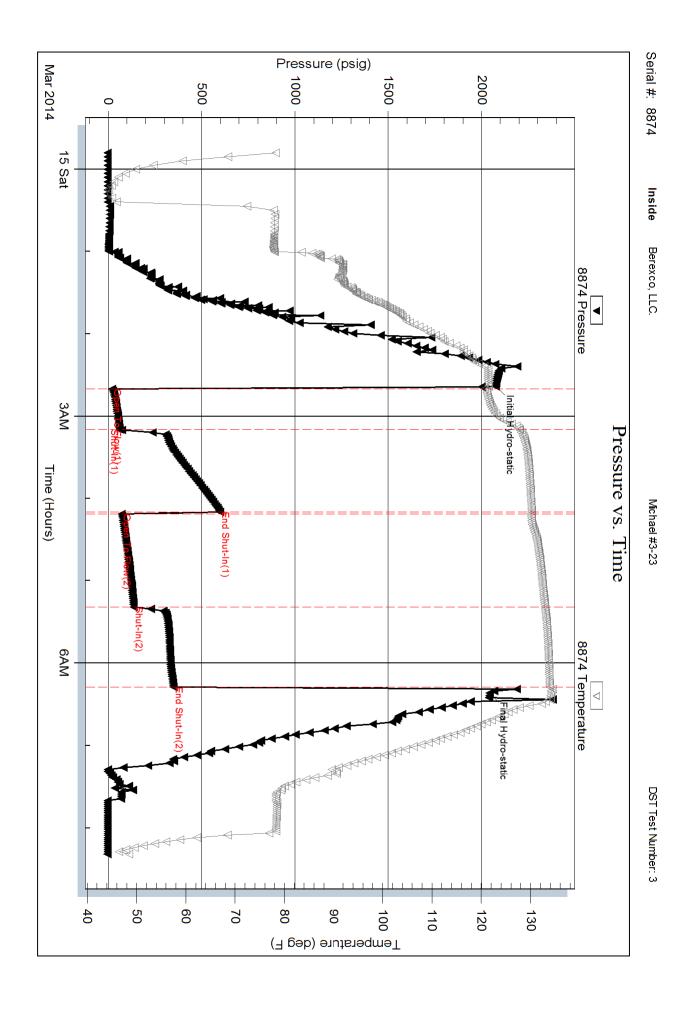
Total Length: 200.00 ft Total Volume: 0.983 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 56958 Printed: 2014.03.15 @ 09:31:22



Trilobite Testing, Inc

Ref. No:

56958

Printed: 2014.03.15 @ 09:31:23



Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood

Michael #3-23

Wichita, KS 67206

Job Ticket: 56959 DST#: 4

ATTN: Pete Vollmer

Test Start: 2014.03.15 @ 18:15:00

GENERAL INFORMATION:

LKC "C" Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:07:00 Time Test Ended: 04:35:30

4268.00 ft (KB) To 4350.00 ft (KB) (TVD)

Total Depth: 4350.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) Tester: Kevin Mack

Unit No: 66

KB to GR/CF:

3272.00 ft (KB)

Reference Elevations:

3259.00 ft (CF) 13.00 ft

Serial #: 8874 Press@RunDepth: Inside

49.17 psig @

4269.00 ft (KB)

2014.03.16

Capacity:

8000.00 psig

Start Date: Start Time:

Interval:

2014.03.15 18:16:00

End Date: End Time:

04:35:30

Last Calib.: Time On Btm:

2014.03.16 2014.03.15 @ 21:06:30

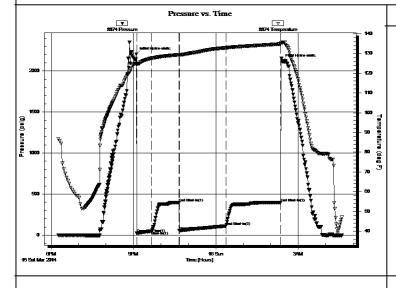
Time Off Btm: 2014.03.16 @ 02:25:00

TEST COMMENT: 30 - IF- Surface Blow built to 3"

60 - ISI- No Return

90 - FF- Surface Blow started at 10 min. Built to BoB in 72 min.

120 - FSI- No Return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2202.81	125.06	Initial Hydro-static
1	21.85	124.50	Open To Flow (1)
33	49.17	127.60	Shut-In(1)
93	397.09	129.33	End Shut-In(1)
94	53.19	129.25	Open To Flow (2)
196	110.48	132.87	End Shut-In(2)
315	395.86	134.79	End Shut-In(3)
319	2118.93	135.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00 OCM 70M 30o		0.69
80.00	Clean Oil 100o	0.39
-		

Gas Rates

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

Ref. No: 56959 Printed: 2014.03.16 @ 06:59:49 Trilobite Testing, Inc



FLUID SUMMARY

Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206 Michael #3-23

Job Ticket: 56959

DST#: 4

ATTN: Pete Vollmer

Test Start: 2014.03.15 @ 18:15:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:31 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:73.00 sec/qtCushion Volume:bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 1400.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

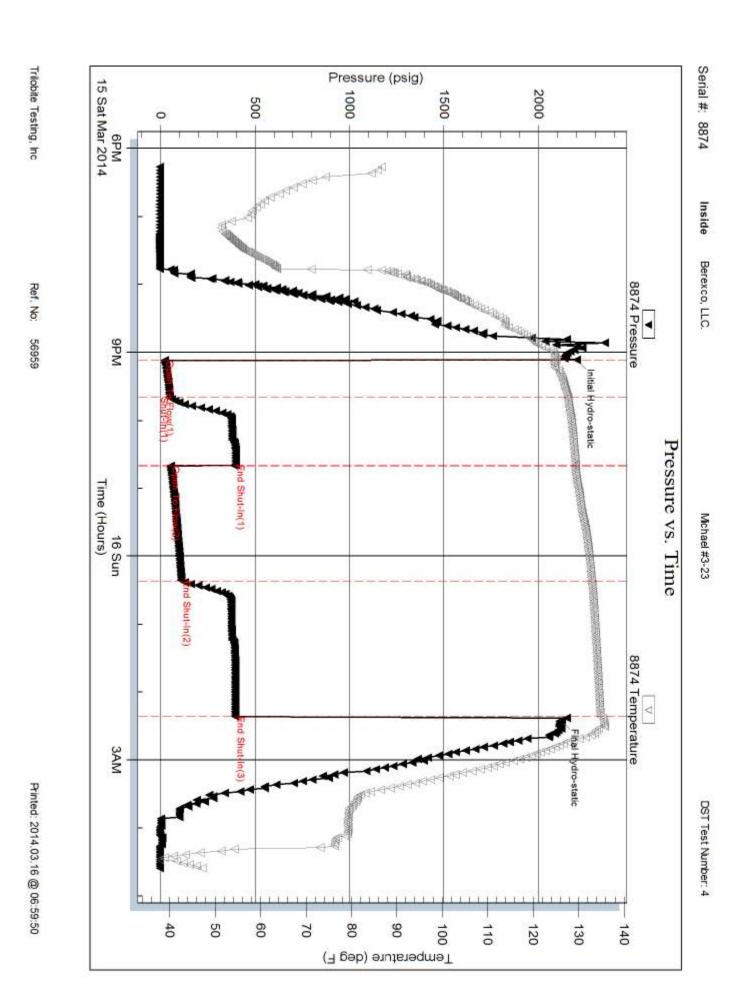
Length ft	Description	Volume bbl
140.00	OCM 70M 30o	0.688
80.00	Clean Oil 100o	0.393

Total Length: 220.00 ft Total Volume: 1.081 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location: Recovery Comments: Oil API = 32 @ 70 deg = 31 cor.

Trilobite Testing, Inc Ref. No: 56959 Printed: 2014.03.16 @ 06:59:49





Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206

Michael #3-23

Job Ticket: 56960

DST#:5

ATTN: Pete Vollmer

Test Start: 2014.03.16 @ 16:47:00

GENERAL INFORMATION:

Formation: LKC "D,E"

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

Time Tool Opened: 19:12:30 Time Test Ended: 03:51:30

> Reference Elevations: 3272.00 ft (KB)

Kevin Mack

66

4354.00 ft (KB) To 4430.00 ft (KB) (TVD) 4430.00 ft (KB) (TVD)

3259.00 ft (CF)

7.88 inches Hole Condition: Good Hole Diameter:

KB to GR/CF: 13.00 ft

Serial #: 8653 Press@RunDepth:

Interval:

Total Depth:

Outside

100.35 psig @

4355.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

2014.03.17

Start Date: 2014.03.16 Start Time:

End Date: 2014.03.17

Time On Btm:

Tester:

Unit No:

2014.03.16 @ 19:11:30

16:48:00

End Time: 03:51:30

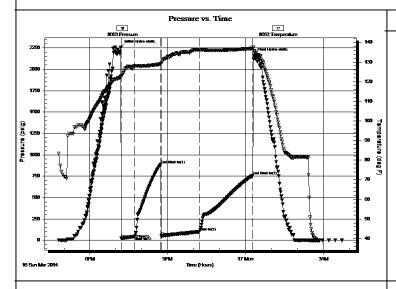
Time Off Btm: 2014.03.17 @ 00:18:30

TEST COMMENT: 30 - IF- Surface Blow built to 1 1/2"

60 - ISI- No Return

90 - FF- Surface Blow started at 45 min. Built to 2"

120 - FSI- No Return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2257.85	122.35	Initial Hydro-static
1	22.76	122.85	Open To Flow (1)
32	45.28	128.03	Shut-In(1)
92	887.98	128.97	End Shut-In(1)
93	50.15	129.32	Open To Flow (2)
181	100.35	136.41	Shut-In(2)
305	758.67	136.96	End Shut-In(2)
307	2163.53	135.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OSM 100M (oil spots)	0.44
80.00	OCM 10o 90M	0.39
5.00	Free Oil 100o	0.02
ļ————	 	· · · · · · · · · · · · · · · · · · ·

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 56960 Printed: 2014.03.17 @ 06:32:46



FLUID SUMMARY

Berexco, LLC.

23-1S-36W Rawlins, KS

2020 N Bramblew ood Wichita, KS 67206 Michael #3-23

Job Ticket: 56960

DST#:5

ATTN: Pete Vollmer

Test Start: 2014.03.16 @ 16:47:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:10.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 55.00 sec/qt Cushion Volume: bbl

7.20 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 800.00 ppm Filter Cake: 2.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
90.00	OSM 100M (oil spots)	0.443
80.00	OCM 10o 90M	0.393
5.00	Free Oil 100o	0.025

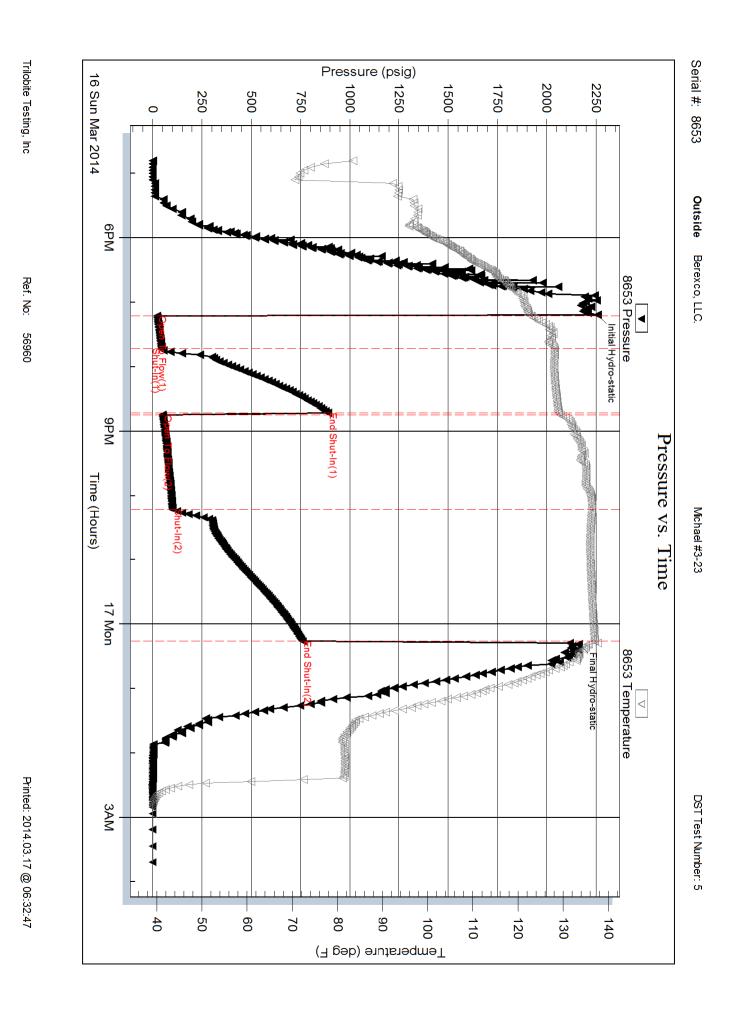
Total Length: 175.00 ft Total Volume: 0.861 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 56960 Printed: 2014.03.17 @ 06:32:46



BEREXCO LLC

MICHAEL 3-23

SE NW NW SEC 23 T1S R36W

RAWLINS COUNTY, KANSAS

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MUD REPORTS	21

SUMMARY

The Berexco LLC Michael 3-23 in Rawlins County, Kansas spud March 9, 2014 and reached a total depth of 4550' on March 17, 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 3-23 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, Wabaunsee, and Topeka

The Foraker Limestone was tight with a trace of black dead oil. There were no shows in the Wabaunsee and only black asphaltic material in the Topeka.

Oread and Lansing-Kansas City

DST 1 in the Oread recovered 50 ft of mud with poor flow pressures. Samples were predominantly mudstone with locally fossiliferous wackestone displaying very poor interparticle porosity, rare scattered oil staining, 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 200 ft of oil cut and oil spotted 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 porosity, good live black oil staining, and good cuts.

DST 4 in the Lansing C recovered 80 ft of clean oil and 120 ft of oil cut mud. Samples were grainstone with poor to fair interparticle and vuggy porosity with abundant live black oil staining and good fluorescence and cuts.

The Lansing D samples were non-porous chalky limestone with no shows. No drill stem testing was warranted in the D zone alone and the decision was made to drill through the E zone and test the D and E zones together. The Lansing E was predominately non-porous with traces of interparticle and vuggy porosity and a scattered show of black oil stain and hydrocarbon cuts. DST 5 over the combined D and E zones recovered 175 ft of oil and oil cut mud.

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

Oil Well Completion

5 ½" production casing was run to complete the Michael 3-23 as an oil producer.

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

WELL DATA

OPERATOR: Berexco LLC

2020 North Bramblewood Drive

Wichita, Kansas 67206

WELL NAME: Michael 3-23

SURFACE LOCATION: 990' FNL & 990' FWL

SE NW NW Sec. 23, T1S, R36W

Rawlins County, Kansas

LATITUDE & LONGITUDE: 39.9563323, -101.3323162 (From State, calculated from footages)

BOTTOM HOLE LOCATION: Vertical hole

ELEVATIONS: 3259' GL 3272' KB

API NUMBER: 15-153-20993

BASIN: Mid-Continental Arch

FIELD: East Fork

HOLE SIZE: 12 1/4" to 310'; 7 7/8" to 4550'

CASING: 8 5/8" J-55 24# STC set to 310' KB

SPUD DATE: March 9, 2014

TD DATE: March 17, 2014

TOTAL DEPTH: 4550' Rig TD 4549' 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 3272
Pierre Sh	Cased	Cased	N/A	N/A
Niobrara Fm	N/A	1198	1198	+2074
Fort Hays Ls Mbr	N/A	1702	1702	+1570
Carlile Sh	N/A	1747	1747	+1525
Dakota	N/A	2135	2135	+1137
Cheyenne	N/A	2692	2692	+580
Blaine	N/A	3020	3020	+252
Stone Corral Anhydrite	3174	3180	3180	+92
Base Anhydrite	3212	3210	3210	+62
Neva	3662	3662	3662	-390
Foraker	3774	3774	3774	-502
Wabaunsee	3940	3944	3944	-672
Topeka	3986	3987	3987	-715
Deer Creek Sand	4021	4022	4022	-750
Oread	4097	4098	4098	-826
Lansing-Kansas City				
"A"	4201	4198	4198	-926
"B"	4256	4256	4256	-984
"C"	4317	4314	4314	-1042
"D"	4364	4360	4360	-1088
"E"	4407	4404	4404	-1132
"F"	4446	4444	4444	-1172
TD Driller	4550			
TD Logger		4549	4549	-1277

The following descriptions are interpretive. Rig crew members collected unlagged samples from 3500' to 4550' TD. Depths are rig depths except where noted as wireline.

3500' - 3558'	SHALE: reddish orange, firm to soft, fissile to blocky, very silty, sandy in part, non to slightly calcareous, trace light tan Limestone.		
3558' - 3586'	SANDSTONE: light gray to red 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' - 3654'	SHALE: red, firm to hard, fissile to blocky, very silty, sandy in part, non to slightly calcareous, trace tan Limestone.		
3654' - 3662'	SANDSTONE: light gray to 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: 3662' LOG TOP: 3662' SUBSEA: -390'		
3662' - 3670'	LIMESTONE: white to light gray, firm to hard, chalky, fossil fragments (Brachiopod, Fusulinid), black algal stain, tight, no shows.		
3670' - 3716'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty, with interbedded LIMESTONE: white to light gray, firm to hard, cryptocrystalline, tight, no shows.		
3716' - 3726'	SANDSTONE: very light gray to white to red brown, friable, very fine grained, subangular to subrounded, well sorted, calcareous cement, clay fill, tight to trace porosity, no shows.		
3726' - 3742'	LIMESTONE: light gray, hard, cryptocrystalline, very slightly sandy, tight, no shows.		
3742' - 3774'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty.		
FORAKER	SAMPLE TOP: 3774' LOG TOP: 3774' SUBSEA: -502'		
3774' - 3782'	LIMESTONE: white to light gray, firm to hard, cryptocrystalline, chalky, fossil fragment, trace black dead oil, tight, no shows.		

3782' - 3794'	SHALE: gray to green gray, firm, blocky, non to slightly calcareous, fossil fragments.		
3794' - 3808'	LIMESTONE: white to light gray, firm to hard, cryptocrystalline, chalky, fossil fragments, algal stain, slightly sandy at base, tight to trace intercrystalline porosity, no shows.		
3808' - 3822'	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.		
3822' - 3884'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty, occasional light gray to white to light red Limestone stringers.		
3884' - 3911'	SHALE: dark gray to black, firm, fissile to blocky, non calcareous, carbonaceous in part, fossil fragments (Brachiopod).		
3911' - 3940'	SHALE: light reddish brown to reddish orange to brown orange, soft to firm, sub blocky to lumpy, non calcareous, clayey, occasional silty, thin gray Limestone partings.		
WABAUNSEE	SAMPLE TOP: 3940' LOG TOP: 3944' SUBSEA: -672'		
3940' - 3956'	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.		
3956' - 3986'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, thin Limestone stringers and inclusions.		
ТОРЕКА	SAMPLE TOP: 3986' LOG TOP: 3987' SUBSEA: -715'		
3986' - 3994'	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragment (Fusulinids), sparry calcite, black asphaltic material, tight, no shows.		
3994' - 4000'	SHALE: gray, firm, sub blocky, non to slightly calcareous, dull.		
4000' - 4020'	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragment, clear calcareous fill in vugs, clear to opaque chert, black asphaltic material, tight, no shows.		

DEER CREEK SAND	SAMPLE TOP: 4021'	LOG TOP: 4022'	SUBSEA: -750'
4020' - 4040'	SANDSTONE: light gray to very light gray, very friable to soft, very fine grained, well rounded, well sorted, weak calcareous cement, clay filled, plant remains, abundant loose grains, trace to poor porosity, no show.		
4040' - 4058'	LIMESTONE: white to light red brown, mottled, firm to hard, mudstone, very chalky, very slightly argillaceous in part, occasional sandy, interbedded reddish brown Shale partings, tight, no shows.		
4058' - 4097'		prown maroon, gray, mottle eous, non to slightly silty in	ed in part, soft to firm, blocky, n part, clayey to sticky.
OREAD	SAMPLE TOP: 4097'	LOG TOP: 4098'	SUBSEA: -826'
4097' - 4116'	fossil fragment, stylolites stain, very tight to trace in		
4116' - 4126'	SHALE: dark gray to black slightly calcareous, fossil	ck, firm, fissile, slightly to fragments (Brachiopod).	very carbonaceous, non to
4126' - 4160'		ht gray, firm to hard, muds aque chert, clear calcite cry	stone, rare fossil, very chalky ystals, tight, no show.
4160' - 4180'			are fossil, occasional slightly tals, medium gray Shale partings,
4180' - 4201'		roon to reddish brown, firn bwaxy, occasional soft and	
LANSING- KANSAS CITY "A"	SAMPLE TOP: 4201'	LOG TOP: 4198'	SUBSEA: -926'
4201' - 4219'	LIMESTONE: white to continue to continue the continue to the c	ream, firm to hard, mudsto ssil fragment, scattered bla	ne to wackestone, occasional ck heavy oil stain, tight to trace cence, instant yellowish white
4219' - 4224'	SHALE: gray to dark gray	y, firm, blocky, non to sligl	ntly calcareous.

4224' - 4232'	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.		
4232' - 4242'	SHALE: dark gray to reddish brown to maroon, firm, blocky, non to slightly calcareous, silty in part.		
4242' - 4256'	LIMESTONE: light gray, firm, mudstone, slightly argillaceous, gray shale partings, tight.		
LANSING- KANSAS CITY "B"	SAMPLE TOP: 4256' LOG TOP: 4256' SUBSEA: -984'		
KANSAS CITT D	SAMILE 101. 4230 LOG 101. 4230 SUBSEA704		
4256' - 4270'	LIMESTONE: white, firm, packstone to grainstone, fossil fragments, patchy live heavy black oil, poor to trace interparticle porosity, bright yellowish white fluorescence, instant blooming bright yellowish white cuts, good show.		
4270' - 4290'	SHALE: gray to dark gray, firm, platy to fissile, slightly carbonaceous in part, thin Limestone partings, fossil fragments (Brachiopod).		
4290' - 4298'	LIMESTONE: white to light gray, firm, cryptocrystalline, gray Shale partings, fossil fragment, slightly to moderately argillaceous in part, occasional sandy, tight, no show.		
4298' - 4317'	SHALE: brownish red to gray to maroon, firm to soft, platy, slightly calcareous, sandy/silty in part.		
LANGING			
LANSING- KANSAS CITY "C"	SAMPLE TOP: 4317' LOG TOP: 4314' SUBSEA: -1042'		
4317' - 4331'	LIMESTONE: white, firm, mudstone to packstone, fossil fragment, abundant black heavy oil, poor intergranular and fair vuggy porosity, bright yellowish white fluorescence, instant blooming yellowish white cuts, with slow streaming cuts, good show.		
4331' - 4344'	SHALE: gray to dark gray, firm, sub blocky, non to slightly calcareous, fossil fragments.		
4344' - 4356'	LIMESTONE: white to dark gray, mottled in part, hard to firm, mudstone to wackestone, fossil, spotty black heavy oil stain, tight to trace porosity, patchy bright yellowish white fluorescence, occasional blooming yellowish white cuts, fair show.		
4356' - 4364'	SHALE: gray to dark gray, firm, blocky, non to slightly calcareous.		

LANSING-			
KANSAS CITY "D"	SAMPLE TOP: 4364'	LOG TOP: 4360'	SUBSEA: -1088'
4364' - 4382'	LIMESTONE: light gray to white, firm, packstone to mudstone, fossil fragments, very chalky texture, clean, no visible porosity, no shows.		
4382' - 4394'	SHALE: dark gray to gray	y to black, firm, blocky, w	hite Limestone partings.
4394' - 4398'	LIMESTONE: white to very light gray, hard, cryptocrystalline, chalky, tight, no shows.		
4398' - 4407'	SHALE: dark reddish bro pyrite, interbedded Limes		p platy, non calcareous, silty,
LANSING- KANSAS CITY "E"	SAMPLE TOP: 4407'	LOG TOP: 4404'	SUBSEA: -1132'
4407' - 4420'	fragment, peloids, patchy	black oil specks and stain, ght yellowish white fluores	nstone to wackestone, fossil trace to poor vuggy and cence, instant blooming and
4420' - 4446'	SHALE: dark gray to blac carbonaceous in part, plan	ck, firm, blocky, calcareount remains, trace pyrite.	s, fossil, very to slightly
LANGNIC			
LANSING- KANSAS CITY "F"	SAMPLE TOP: 4446'	LOG TOP: 4444'	SUBSEA: -1172'
4446' - 4456'	LIMESTONE: cream to w scattered fossil fragments,		hard, mudstone to packstone,
4456' - 4462'	SHALE: gray, firm, sub b	olocky, calcareous.	
4462' - 4479'	LIMESTONE: white to very light gray, firm to hard, mudstone to packstone, fossil fragments (Fusulinids), occasional sandy, trace very fine gray SANDSTONE, clean, occasional poor porosity, no shows.		
4479' - 4498'		y, firm, platy to blocky, no ed white to light gray chal	n to very slightly calcareous, ky Limestone.
4498' - 4505'		white to light brown, firm twith interbedded dark gray	o hard, mudstone, fossil Shale partings, tight, no shows.

4505' - 4538'	SHALE: brownish red, firm, blocky, n calcareous, occasional Silty/Sandy, occasional thin LIMESTONE stringers.
4538' - 4550' TD	LIMESTONE: white to light gray, firm to hard, mudstone, occasional argillaceous, occasional dark gray to black SHALE partings, tight, no shows.

SERVICES

CONTRACTOR: Beredco Drilling Inc., Rig 2

Toolpusher: Milo Salinas

DRILLING FLUIDS: Morgan Mud, Inc. McCook, ND Mud Type: Freshwater Chemical 308-340-5946

Engineer: Dave Korte

MUD LOGGING: None

WELLSITE GEOLOGY: T. M. McCoy & Co., Inc. Wilson, WY
Peter J. Vollmer 307-733-4332

DRILL STEM TESTING: Trilobite Testing, Inc. Hays, KS

Kevin Mack 785- 625-4778

DST 1: 4058' - 4112' Oread DST 2: 4146' - 4234' LKC "A" DST 3: 4218' - 4278' LKC "B" DST 4: 4268' - 4350' LKC "C"

DST 5: 4354' - 4430' LKC "D" & "E"

DIRECTIONAL DRILLING: None

WIRELINE LOGS: Pioneer Wireline Services Hays, KS RAG: Surface casing - TD 785-625-3858

Micro: 3500' - TD Engineer: Jerrod Long