

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1189980

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 🔲 East 🗌 West				
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: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
New Well Re-Entry Workover	Field Name:				
Oil WSW SWD SIOW 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: Operator: Well Name: Original Comp. Date: Original Total Depth:	Producing Formation: Elevation: Ground: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used?				
□ Deepening □ Re-perf. □ Conv. to ENHR □ Conv. to SWD □ Plug Back □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)				
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used:				
Dual Completion Permit #:					
SWD Permit #:	Location of fluid disposal if hauled offsite:				
GSW Permit #:	Operator Name:				
	Lease Name: License #:				
Spud Date or Date Reached TD Completion Date or Recompletion Date	QuarterSec. TwpS. 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 Approved by: Date:						

Page Two



Operator Name:				_ Lease l	Name: _			Well #:		
Sec Twp	S. R	East V	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whether s with final chart(shut-in pre s). Attach	ssure reac extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, flui	d recovery,
Final Radioactivity Lo- files must be submitte						gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital el	ectronic log
Drill Stem Tests Taker (Attach Additional S		Yes	No				on (Top), Depth ar			mple
Samples Sent to Geo	logical Survey	Yes	☐ No		Nam	e		Тор	Da	tum
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
			CASING		☐ Ne					
	0: 11-1-	· ·				ermediate, product		# O	T	d Damasat
Purpose of String	Size Hole Drilled	Size Cas Set (In O		Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used		d Percent itives
		AD	DITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Ce	ement	# Sacks	Used	Type and Percent Additives				
Perforate Protect Casing										
Plug Back TD Plug Off Zone										
Did you perform a hydrau	•					Yes	No (If No, ski	p questions 2 ar	nd 3)	
Does the volume of the to							= :	p question 3)	of the ACO	()
Was the hydraulic fractur	ing treatment information	on submitted to the	e chemicai d	isciosure re	gistry?	Yes	No (If No, fill	out Page Three	or the ACO-1	<i>)</i>
Shots Per Foot		ION RECORD - I Footage of Each I					cture, Shot, Cement mount and Kind of Ma		d	Depth
TUBING RECORD:	Size:	Set At:		Packer A	i:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR. Prod	ducing Meth	ıod:		1				
			Flowing	Pumpin	g	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls. (Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	METHOD OF	COMPLE	ETION:		PRODUCTION	ON INTERVA	
Vented Sold		Open		Perf.	Dually	Comp. Cor	mmingled			
	bmit ACO-18.)		(Specify)		(Submit)	ACO-5) (Sub	mit ACO-4)			

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Lillie 1-26
Doc ID	1189980

Tops

Name	Тор	Datum
Anhydrite	3161	+103
Anhydrite (base)	3192	+72
Foraker	3756	-492
Topeka	3974	-710
Oread	4090	-826
Heebner	4142	-878
Lansing/KS City "A"	4190	-926
LKC "B"	4247	-983
LKC "C"	4306	-1042
LKC "D"	4351	-1087
LKC "E"	4394	-1130
LKC "F"	4433	-1169
RTD	4540	
LTD	4533	-1269

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Lillie 1-26
Doc ID	1189980

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	299	Common	225	3%cc, 2%gel
Production	7.875	5.50	15.50	4539	Lite & Common	700	10%salt, 3%gel, 5#gilsonite

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 061369
Federal Tax I.D. # 20-8651475

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

SIGNATURE TAIME ZINIGA

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	74 # 20 0001-20	SERV	ICE POINT: _OGK (e	y, K.E
	ALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE (1-77) 26 36 36 36	164 N 40-186	10130AA	COUNTY	31.30PM STATE
	3	AA & WEED SE	Rau-iins	25
OLD OR NEW (Circle one)				
TYPE OF JOB SUPPLIES	OWNER 5	Tane		
HOLE SIZE /2½ T.D. 3 &	CEMENT	•		
CASING SIZE 85/8 DEPTH 3/6		DERED 225	5K5 CA	m 3 cm
TUBING SIZE DEPTH	270ge			····
DRILL PIPE DEPTH				
TOOL DEPTH				
PRES. MAX MINIMUM	COMMON	2255/14	(@ 1790	402750
MEAS. LINE SHOE JOINT	POZMIX			
CEMENT LEFT IN CSG. 15'	GEL _		@ 2350	
PERFS.	CHLORIDE_	125/45	@ (4/30	513 60
DISPLACEMENT 183/4	ASC		_@	
EQUIPMENT			_@	
			_@	
PUMPTRUCK CEMENTER Kelly Jakel	· · · · · · · · · · · · · · · · · · ·		-@	
# 3734281 HELPER Warne McGhahu			_@	
BULK TRUCK			_@	
# 3964306 DRIVERMake 116 Kampoor	<i></i>		_@ @	
BULK TRUCK				
# DRIVER	HANDLING	243,304+		60338
REMARKS:		104 TOY X 5	0×260	144353
5=+ 47 +14 (6, 10, KED 2255ES COM3%) CC 3% gol, displaced with 18 1/4 (6) 100+67 Thutin	,	SERVI		
	DEPTH OF IC)B		3/2
	PUMP TRUCI	K CHARGE		15/235
		TAGE	_@	
- in Alle		50	@ 775	
openy receive				
CHARGE TO: BOREXCO			_@	
STREET			TOTAL	189735
CITYSTATEZIP		PLUG & FLOAT	'EQUIPMEN	T
			_@	
			@	
To: Allied Oil & Gas Services, LLC.			_@	1
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			TOTAL	
contractor. I have read and understand the "GENERAL				
TERMS AND CONDITIONS" listed on the reverse side.	4	- i		
TERMS AND COMPITIONS listed on the reverse side.	SALES TAX (If Any)		
TEMMS AND COMPITIONS Haled on the reverse aide.	SALES TAX (TOTAL CHAR	\$	18.85	
	TOTAL CHAP	GES 8,5	18.85	
PRINTED NAME		CES 8,5	18.85 I IF PAIL 577 Net	D IN 30 DAYS



CEMENTING LOG

STAGE NO.

11.5	10	Misso		icket No. 613		CEMENT DATA:
-					11.	Spacer Type: Water
Company 36				ig Berea ke		AmtSks Yieldft³/sk DensityPPG
Lease 1111				Veli No.		
County R CEL						
Location is GO		CTOPA	F)/IF	ield		.EAD: Pump Time hrs. Type
CASING DATA:		— .	TA 🗍		. –	Excess
CASING DATA:				Squeeze 🔲 M		
50-	Surface	E intermed	iate 🛄 .Pr	oduction 🔲 Lir	ner 📙 📑	FAIL: Pump Time hrs. Type
Size _75	Type	Weig	ght	Collar		Excess
				**		Amt. Sks Yield ft³/sk Density PPG
						NATER: Lead gals/sk Tail gals/sk Total Bbls.
	- / 00/	أميدينيا بلا	5	510'		Pump Trucks Used 373 + 28)
Casing Depths: 1	op Ces ACA	(O TENEL	Bottom	<u> </u>	!	oulk Equip. 396 4306
				,		suik Equip. 172 4767
Deitt Dieser Cine		Majobt		Collars	-	
•		_		P.B. to		float Equip: Manufacturer
CAPACITY FACT		1.0.	,,,			Shoe: Type Depth
Casing:		10637	Lin. ft./E	3b1		loat: Type Depth
Open Holes:				lbl,		Centralizers: Quantity Plugs Top Btm
Drill Pipe:	·			3bl		stage Collars
Annulus:	-					pecial Equip.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl. Lin. ft						Disp. Fluid Type Amt Bbls. Weight PPG
Perforations: I				ft. Amt		/lud Type Weight PPG
COMPANY REPR	ESENTATIVE					CEMENTER Kelly
				110 D) (1 4DED 1		
TIME	PRESSU	T		JID PUMPED I		REMARKS
(AM) PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
10130						got to location
						Ratety meeting
						nieged up
	<u> </u>					mixed cement
		<i>'</i>		1		displaced with water
			/0_	200		•
			81/2	200		
						Shut in
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						Aug.
INAL DISP. PRES	s:	PSI	BUMP PLUG	3 TO		PSI BLEEDBACKBBLS. THANK YOU

ALLIED OIL & GAS SERVICES, LEG-LATILEE

	1		. Federal	Tax I.C	.#20-8651475			
REMITTO P.O. B	OX 93999	9				SERV	VICE POINT:	
SOUTE	HLAKE, T	TEXAS 760	92				Cally	125
	SEC.	TWP.	RANGE	C	ALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE 11-18-13	26	<u> </u>	36			10:00AM	COUNTY	STATE
LEASEANING	WELL#	1-6	LOCATION BE	eards	loy N to	RAAA 105W		
OLD OR NEW C	ircle one)		Sinto	,				
			12 (11)					
CONTRACTOR T	Bered	20年2	*.,.~		OWNER .	sone		
TYPE OF JOB D						•		
	7/8	T.D			CEMENT		1011	exittant - c
	5//2_		PTH 4/23°	7		RDERED 450		
TUBING SIZE			PTH		250 5K	E Com loss	19 H 25/19	201 524
DRILL PIPE			PTH		93150n	<u> </u>		
TOOL	*		PTH -		COMMON	 	wa 1790	= 4475
PRES. MAX			NIMUM DE JOINT 4/2	- = A	COMMON_ POZMIX		<u> </u>	
MEAS. LINE :: CEMENT LEFT !!	NCCC	42.80			GEL	5-11/1	7 @ 2375	2 1150
	IV CSU.	1200			CHLORIDE		@ 	
PERFS. DISPLACEMENT	9,87	PA 107			ASC			
DISTLACEMENT					· 43+¢	450585		5-717750
	EQ	UIPMENT	•		50.1+	26343	@ 26 35	
		·			61:150n		@ ,98	
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BULK TRUCK	DDIVE	· · · · · ·	(ET) <	10				
#3964306	DKIVE	1 Ind A	7 (1000)	رب	HANDLING	825.2854	_@ <u>_Z_z_</u>	= 2046
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mixed 420				۴,		SERV	ICE	
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released plu						JOB		
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			- denien	P Gas		Heed_	_@ <u>275</u>	200
			o janija c	NOW,	Mil	-V 50	_@ <i>4140</i>	2 . 20
i.							@	
CHARGE TO: 💆	<u> </u>	(60			•			76
STREET							TOT	AL 315076
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CITY		STATE	ZIP		•	PLUG & FLOA	AT ROTTPM	ENT
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					A	rial Rubber		
					A CONTRACTOR OF THE PARTY OF TH	patinoe		23200
			- P			nwar Essy/wPla	g @ 375	D- NA700
To: Allied Oil &	& Gas Sea	rvices, LL(C.		V. C. R. F. A.C.	dizers: 11 ceting scraiche	300 411 5	0 557:00
You are hereby	requeste	d to rent ce	ementing equip	ment	Baske		<u>75 @</u>	394/29
and furnish cen					·			
contractor to do	work as	is listed.	The above wor	k was			man	AL 1769 28
done to satisfac							101	WF 1 101
contractor. I ha					O I T TO THE	V /16 A A		
TERMS AND	CONDIT	IONS" list	ed on the rever	rse side	SALES IA	X (If Any)	2175	7
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PRINTED NAM	E				- DISCOON			
	5/	Al Por	155		,	19 30	HO NO	et.
SIGNATURE Z	al	LAKK			_	, , 0	» البيك م	

BEREXCO LLC

LILLIE 1-26

NW NW SEC 26 T1S R36W

RAWLINS COUNTY, KANSAS

SUMMARY	1
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SUMMARY

The Berexco LLC Lillie 1-26 in Rawlins County, Kansas spud November 8, 2013 and reached a total depth of 4540' on November 17, 2013. The test drilled below the below the Lansing-Kansas City F zone for wireline and completion rathole 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 are productive in nearby wells. A secondary zone of interest was the Virgilian Oread Limestone. The Lillie 1-26 was drilled using seismic and nearby well control.

Evaluation of the primary zones of interest was by drill stem testing after sample analysis and correlation. Five DSTs were run based on sample shows.

Lansing-Kansas City

DST 1 in the Oread recovered 595 ft of oil and 1090 ft of gassy oil and mud cut water. Samples were fossiliferous and oolitic grainstone with fair interparticle porosity, scattered oil staining, and good cuts.

DST 2 in the Lansing A was based on scattered vuggy and interparticle porosity with good spotty black oil in cuttings. Recovery was 45 ft of mud. The Lansing A exhibited poor flow pressures and wireline logs confirmed the lack of porosity.

The Lansing B grainstone exhibited trace to poor porosity, abundant live black oil stain, and very good cuts. DST 3 recovered 175 ft of oil and oil cut mud with poor flow pressures. The thick black Lansing B oil was 17 gravity. Wireline logs show 3 ft of porosity.

DST 4 in the Lansing C was based on good oil stain and cuts in a lime grainstone. Recovery was 717 ft of oil and oil cut mud with 565 ft of gas in the drill pipe.

Cuttings showed the Lansing D was a tight mudstone with very poor sample shows and porosity. The decision was made to drill ahead into the Lansing E and run a DST over the combined D and E zones. The Lansing E samples were mudstone to packstone with scattered heavy oil specks and stain. DST 5 of the combined D and E recovered 270 ft of gassy oil and oil cut mud. Wireline logs show fair porosity in the E.

The Lansing F was nonporous limestone with no sample shows.

Structurally the Lillie 1-26 ran 8 ft high to the nearby Bernita 1-27 in the Oread, but intervals gradually became thicker and the Lansing-Kansas City F was 10 ft low to the Bernita 1-27. Wireline logs did not confirm this reversal in structural position. The drilling time may have been incorrect deeper in the well.

Oil Well Completion

After wireline logs the Lillie 1-26 was cased with 5 1/2" production casing for completion as an oil producer.

Peter J. Vollmer Consulting Wellsite Geologist, WPG #3369 November 2013

WELL DATA

OPERATOR: Berexco LLC

2020 North Bramblewood Drive

Wichita, Kansas 67206

WELL NAME: Lillie 1-26

SURFACE LOCATION: 330' FNL & 420' FWL

NW NW NW Sec. 26, T1S, R36W

Rawlins County, Kansas

LATITUDE & LONGITUDE: 39.9436393, -101.3342138

BOTTOM HOLE LOCATION: Vertical Hole

ELEVATIONS: 3251' GL 3264' KB

API NUMBER: 15-153-20958

BASIN: Mid-Continental Arch

FIELD: Wildcat

HOLE SIZE: 12 1/4" to 299'; 7 7/8" to 4540'

CASING: 8 5/8" J-55 24# STC set to 299' KB

SPUD DATE: November 8, 2013

TOTAL DEPTH DATE: November 17, 2013

TOTAL DEPTH: 4540' Rig TD 4533' Log TD

LAST FORMATION: Lansing-Kansas City F

WELL STATUS: Ran 5 ½" production casing for oil well completion

OPERATOR Dana Wreath - Vice President

REPRESENTATIVE:

WELLSITE GEOLOGIST: Peter J. Vollmer

FORMATION TOPS

Formation KB	Sample Top	Log Top	Log TVD	Log Datum 3264
Pierre Sh	Cased	Cased	N/A	N/A
Niobrara Fm	N/A	1178	1178	+2086
Fort Hays Ls Mbr	N/A	1697	1697	+1567
Carlile Sh	N/A	1743	1743	+1521
Dakota	N/A	2136	2136	+1128
Cheyenne	N/A	2634	2634	+630
Blaine	N/A	2998	2998	+266
Anydrite	3162	3161	3161	+103
Base Anydrite	3196	3192	3192	+72
Foraker	3760	3756	3756	-492
Topeka	3970	3974	3974	-710
Oread	4089	4090	4090	-826
Heebner Sh	4141	4142	4142	-878
Lansing-Kansas City				
"A"	4193	4190	4190	-926
"B"	4248	4247	4247	-983
"C"	4309	4306	4306	-1042
"D"	4354	4351	4351	-1087
"E"	4403	4394	4394	-1130
"F"	4439	4433	4433	-1169
TD Driller	4540			
TD Logger		4533	4533	-1269

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' - 3642'	SHALE: red, firm, blocky, very silty, sandy in part, non calcareous, trace Limestone stringers, trace Gypsum/Anhydrite.
3642' - 3648'	LIMESTONE: white to light gray, firm to hard, chalky, fossil fragment, tight, no shows.
3648' - 3684'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty.
3684' - 3760'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty, with interbedded LIMESTONE: white to light gray, firm to hard, cryptocrystalline, fossil fragments, tight, no shows.
FORAKER	SAMPLE TOP: 3760' LOG TOP: 3756' SUBSEA: -492'
3760' - 3768'	LIMESTONE: white to light gray, firm to hard, cryptocrystalline, chalky, fossil fragment, trace black asphalt material (dead oil), tight, no shows.
3768' - 3792'	SHALE: gray, firm, blocky, non to slightly calcareous, fossil fragments.
3792' - 3804'	LIMESTONE: white to light gray, firm to hard, cryptocrystalline, chalky, fossil fragments, tight, no shows.
3804' - 3874'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional silty.
3874' - 3892'	SHALE: dark gray to black, firm, fissile to blocky, non calcareous, carbonaceous in part.
3892' - 3970'	SHALE: reddish brown, soft to firm, blocky, non to slightly calcareous, interbedded LIMESTONE: white to light gray, hard, cryptocrystalline, fossil fragment, tight, no shows.
TOPEKA	SAMPLE TOP: 3970' LOG TOP: 3974' SUBSEA: -710'
3970' - 3992'	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragment, sparry calcite fill, thin brownish red Shale partings, trace black dead oil, tight, no shows.

3992' - 4006'	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragments, clear calcareous fill in vugs, opaque chert, trace black asphalt material, tight to poor porosity, no shows.
4006' - 4017'	SHALE: gray, firm, platy, non to slightly calcareous, subwaxy, plant remains.
4018' - 4035'	SANDSTONE: light gray to grayish brown, friable to soft, very fine grained, well rounded, well sorted, calcareous, clay filled, plant remains, no visible porosity, no show.
4035' - 4042'	SHALE: reddish brown, firm, soft, sub blocky, non to slightly calcareous.
4042' - 4052'	LIMESTONE: light gray to light brown, firm, cryptocrystalline, slightly argillaceous, black dead oil, tight, no show.
4052' - 4090'	SHALE: reddish brown, maroon, gray, mottled in part, soft to firm, blocky, non calcareous, moderately to very silty in part.
OREAD	SAMPLE TOP: 4089' LOG TOP: 4090' SUBSEA: -826'
4089' - 4108'	LIMESTONE: cream to white, firm to hard, wackestone to grainstone, oolites occluded with micrite mud, chalky in part, fossil fragments, tight to trace interparticle porosity, scattered black to dark brown live oil stain, good milky cut, show decreases with depth.
4108' - 4117'	LIMESTONE: white to cream, very hard, cryptocrystalline, slightly siliceous, fossil fragments, trace sandy, very tight, no shows.
4117' - 4150'	SHALE: gray, firm, platy, non to slightly calcareous.
4150' - 4154'	SHALE: grayish black to dark gray, firm, sub fissile, carbonaceous, non to very slightly calcareous.
4154' - 4193'	SHALE: reddish brown, gray, firm, blocky, non to slightly calcareous, with thin LIMESTONE stringers.
LANSING-	
KANSAS CITY "A"	SAMPLE TOP: 4193' LOG TOP: 4190' SUBSEA: -926'
4193' - 4216'	LIMESTONE: white to cream, firm to hard, mudstone to packstone, occasional interclasts, fossil fragments, abundant scattered heavy black oil stain, trace to poor interparticle porosity, bright yellowish white fluorescence, instant blooming yellowish white cuts with moderately streaming cuts, good show, show and porosity

	decrease with depth.
4217' - 4224'	SANDSTONE: light reddish brown to white, hard to friable, very fine grained, well rounded, well sorted, calcareous cement, pyrite, clay filled, predominant very tight, no show.
4224' - 4248'	SHALE: red, soft, blocky, noncalcareous, silty.
LANSING- KANSAS CITY "B"	SAMPLE TOP: 4248' LOG TOP: 4247' SUBSEA: -983'
4248' - 4256'	LIMESTONE: white, firm, grainstone, oolites, fossils(Crinoids, Fusulinids), poor intergranular porosity to poor vuggy porosity, even to spotty live heavy black oil, free oil, dull yellowish white cut, good show.
4256' - 4260'	SHALE: dark gray, firm, platy, slightly carbonaceous.
4260' - 4268'	LIMESTONE: white to light gray, firm, cryptocrystalline, dark gray Shale partings, sandy in part, tight, no show.
4268' - 4308'	SHALE: dark gray to gray to reddish brown, firm, platy, slightly calcareous, dull, fossil fragments, Limestone partings.
I ANGREG	
LANSING- KANSAS CITY "C"	SAMPLE TOP: 4309' LOG TOP: 4306' SUBSEA: -1042'
4308' - 4326'	LIMESTONE: white, firm, grainstone, fossil fragment (Fusulinids), rare oolites, slightly chalky, poor intergranular and vuggy porosity, spotty live black oil stain, blooming bright yellowish white cuts, free oil.
4326' - 4354'	SHALE: dark gray to gray, firm, platy to fissile, slightly calcareous, dull, fossil fragment (Brachiopod), light brown Limestone partings.
LANSING- KANSAS CITY "D"	SAMPLE TOP: 4354' LOG TOP: 4351' SUBSEA: -1087'
4354' - 4364'	LIMESTONE: white to light tan, firm, packstone to mudstone, fossil fragments, tight to trace vuggy porosity, trace heavy black oil specks, dull yellowish white cut,

	poor show.		
4364' - 4382'	SHALE: dark gray to gray Limestone partings.	y, firm, platy to fissile, slig	htly calcareous, light brown
4382' - 4388'	LIMESTONE: light brow	vn to tan, firm, argillaceous	s, fossil fragments, tight.
4388' - 4403'	SHALE: dark reddish bro partings.	wn, firm, blocky, slightly t	to non calcareous, Limestone
LANSING- KANSAS CITY "E"	SAMPLE TOP: 4403'	LOG TOP: 4394'	SUBSEA: -1130'
4403' - 4414'		oor vuggy porosity, trace d	ne to packstone, very chalky, lark brown to black oil specks
4414' - 4416'	SHALE: dark gray, firm,	sub fissile, non calcareous,	, slightly carbonaceous.
4416' - 4439'	SHALE: gray, firm, platy,	, non to slightly calcareous	s, rare fossil, dull.
LANSING- KANSAS CITY "F"	SAMPLE TOP: 4439'	LOG TOP: 4433'	SUBSEA: -1169'
4439' - 4438'	LIMESTONE: cream to we dense, tight, no shows.	white, firm to hard, mudsto	ne, trace fossil fragments, clean,
4438' - 4456'	SHALE: dark gray, firm,	platy, non to very slightly	calcareous, fossil fragments.
4456' - 4472'	LIMESTONE: cream to w gray Shale partings, tight,		ne, chalky, clean, dense, dark
4472' - 4494'	SHALE: dark gray, firm,	platy, non to very slightly	calcareous.
4494' - 4518'		white, firm to hard, mudstonale partings, tight, no show	
4518' - 4540' TD	SHALE: dark gray, firm, interbedded white chalky		calcareous, fossil fragments,

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: Troy Van Pelt, Dave Lines

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

Tester: James Winder 785- 625-4778

DST 1: 4008' - 4100' Oread

DST 2: 4116' - 4230' Lansing-KC "A" DST 3: 4210' - 4256' Lansing-KC "B" DST 4: 4264' - 4326' Lansing-KC "C" DST 5: 4326' - 4414' Lansing-KC "D" & "E"

DIRECTIONAL DRILLING: None

Pioneer Wireline Services WIRELINE LOGS: Hays, KS 785-625-3858

RAG: 3100' - TD

Micro: Surface casing to TD Engineer: Jerrod Long



Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood Wichita, KS 67206

Lillie #1-26

Job Ticket: 55017

DST#:1

ATTN: Pete Vollmer

Test Start: 2013.11.12 @ 18:37:00

GENERAL INFORMATION:

Time Tool Opened: 21:15:00 Time Test Ended: 06:23:00

Formation:

Oread

Deviated:

No Whipstock: ft (KB)

Tester:

Test Type: Conventional Bottom Hole (Initial)

James Winder

Unit No: 150

3264.00 ft (KB)

Reference Elevations:

3251.00 ft (CF)

KB to GR/CF:

13.00 ft

Interval:

4048.00 ft (KB) To 4100.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 4100.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Serial #: 8671 Press@RunDepth: Inside

861.50 psig @

4049.00 ft (KB)

2013.11.13

Capacity:

8000.00 psig

Start Date: Start Time: 2013.11.12

18:37:05

End Date: End Time:

06:23:00

Last Calib .: Time On Btm: 2013.11.13

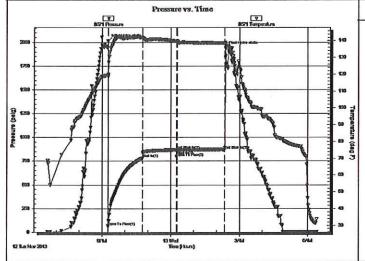
Time Off Btm:

2013.11.12 @ 21:14:45 2013.11.13 @ 02:23:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 3 min.

60 - ISI: Bled off for 4 min., Blow back built to BOB at 8 min.

90 - FF: Blow built slowly to 7 1/2" 120 - FSI: Blow back built to 5 1/2"



Time	Pressure	remp	Annotation	
(Min.)	(psig)	(deg F)		
0	2014.51	119.48	Initial Hydro-static	
1	62.91	118.70	Open To Flow (1)	
91	784.76	141.92	Shut-In(1)	
181	868.33	139.77	End Shut-In(1)	
181	796.19	139.76	Open To Flow (2)	
183	861.50	139.57	Shut-In(2)	
306	871.46	138.66	End Shut-In(2)	
309	1936.91	138.21	Final Hydro-static	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
265.00	SMCW w /OS 92%w , 6%m, 2%o	1.30
545.00	GOMCW 61%w, 19%m, 12%g, 8%o mix	5.23
375.00	OCGWM 44%m, 31%w, 18%g, 7%o mix	5.26
565.00	SMCGO 76%o, 19%g, 5%m	7.93
30.00	SMCO 91%o, 6%m, 3%g	0.42
0.00	GIP = 345'	0.00

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 55017

Printed: 2013.11.13 @ 08:20:37



FLUID SUMMARY

Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood Wichita, KS 67206

Lillie #1-26 Job Ticket: 55017

Serial#:

DST#:1

deg API

ppm

ATTN: Pete Vollmer

Test Start: 2013.11.12 @ 18:37:00

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

Viscosity:

Water Loss:

Resistivity:

Salinity: Filter Cake:

9.00 lb/gal 55.00 sec/qt

6.40 in³ ohm.m

1400.00 ppm 2.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl psig

ft

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
265.00	SMCW w /OS 92%w , 6%m, 2%o	1.303
545.00	GOMCW 61%w, 19%m, 12%g, 8%o mix	5.231
375.00	OCGWM 44%m, 31%w, 18%g, 7%o mix	5.260
565.00	SMCGO 76%o, 19%g, 5%m	7.925
30.00	SMCO 91%o, 6%m, 3%g	0.421
0.00	GIP = 345'	0.000

Total Length:

1780.00 ft

Total Volume:

20.140 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs:

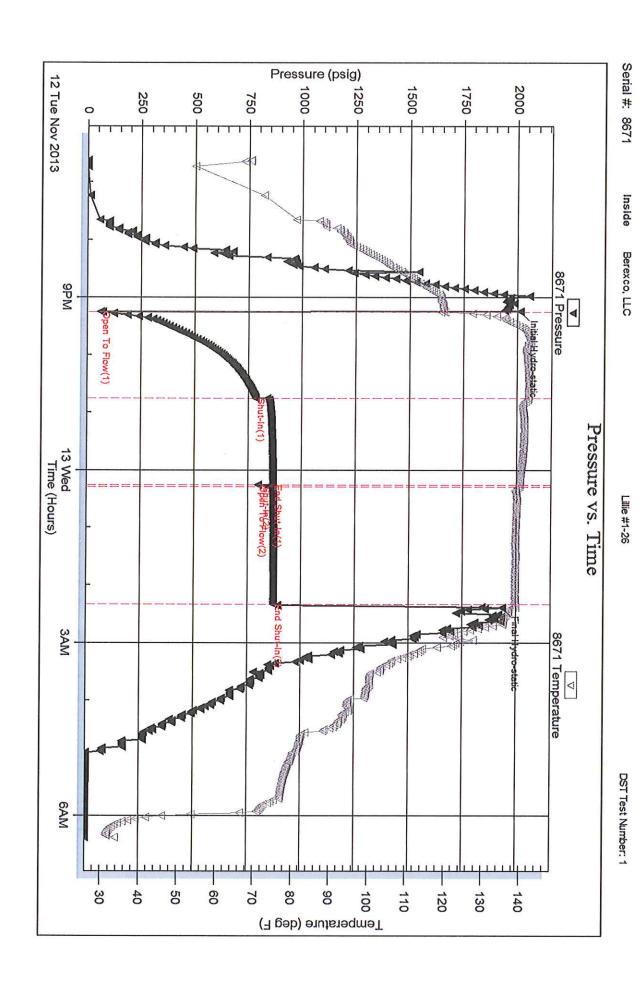
Laboratory Location:

Recovery Comments: 10#LCM

Gravity is too low to check at this temp - I'll try again when I come back

RW = .163 ohms @ 55 deg F

Fluids with o mix has an oil mixture (mud, oil, & salt?) (not clean oil)



Trilobite Testing, Inc

Ref. No:

55017

Printed: 2013.11.13 @ 08:20:38



Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood

Wichita, KS 67206

ATTN: Pete Vollmer

Lillie #1-26

Job Ticket: 55018 **DST#: 2**

Test Start: 2013.11.13 @ 20:37:00

GENERAL INFORMATION:

Formation: LKC "A"

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

Time Tool Opened: 23:30:15

Tester: James Winder

Time Test Ended: 07:17:45 Unit No: 150

Interval: 4116.00 ft (KB) To 4230.00 ft (KB) (TVD) Reference Elevations: 3264.00 ft (KB)

Total Depth: 4230.00 ft (KB) (TVD) 3251.00 ft (CF)

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

Serial #: 8671 Inside

Press@RunDepth: 49.52 psig @ 4117.00 ft (KB) Capacity: 8000.00 psig

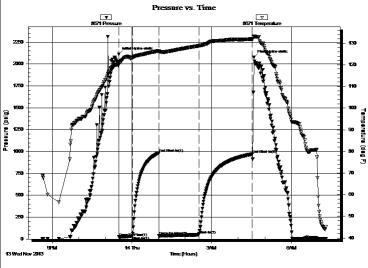
 Start Date:
 2013.11.13
 End Date:
 2013.11.14
 Last Calib.:
 2013.11.14

 Start Time:
 20:37:05
 End Time:
 07:17:45
 Time On Btm:
 2013.11.13 @ 23:29:45

Time Off Btm: 2013.11.14 @ 04:35:15

TEST COMMENT: 30 - IF: 1/4" Blow at open, built slightly then died back, dead at 21 min.

60 - ISI: No blow back 90 - FF:No blow 120 - FSI: No blow back



	PRESSURE SUMMARY			
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2112.03	121.14	Initial Hydro-static
	1	23.58	121.24	Open To Flow (1)
	31	33.08	123.31	Shut-In(1)
	91	985.33	126.38	End Shut-In(1)
	91	36.42	125.85	Open To Flow (2)
	181	49.52	128.74	Shut-In(2)
,	302	971.32	131.92	End Shut-In(2)
9	306	2076.45	133.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100%	0.22
* Recovery from mult	tiple tests	

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

Trilobite Testing, Inc Ref. No: 55018 Printed: 2013.11.14 @ 08:13:57



FLUID SUMMARY

Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood Wichita, KS 67206 Lillie #1-26

Job Ticket: 55018

Serial #:

DST#: 2

ATTN: Pete Vollmer

Test Start: 2013.11.13 @ 20:37:00

Mud and Cushion Information

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

Viscosity: 67.00 sec/qt Cushion Volume: bbl

Water Loss: 6.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1900.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud 100%	0.221

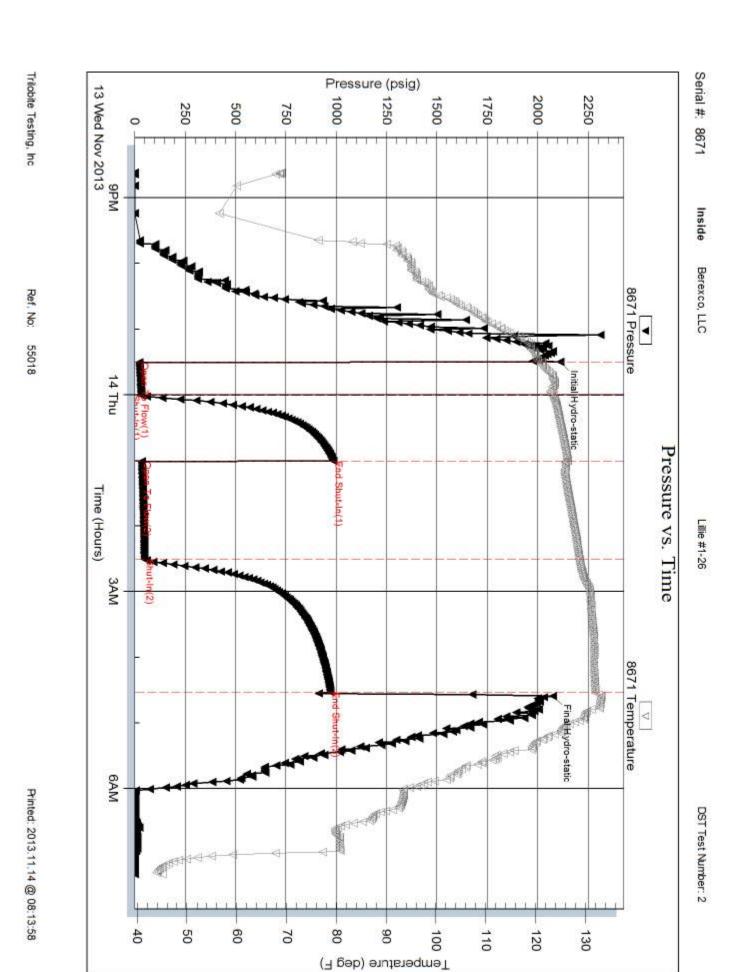
Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 55018 Printed: 2013.11.14 @ 08:13:58





Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood

Lillie #1-26

DST#: 3

Wichita, KS 67206

Job Ticket: 55019

DS1#:3

ATTN: Pete Vollmer

Test Start: 2013.11.14 @ 18:40:00

Test Type: Conventional Bottom Hole (Reset)

GENERAL INFORMATION:

Formation: LKC "B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:29:30 Tester: James Winder

Time Test Ended: 05:20:15 Unit No: 150

Interval: 4210.00 ft (KB) To 4256.00 ft (KB) (TVD) Reference ⊟evations: 3264.00 ft (KB)

Total Depth: 4256.00 ft (KB) (TVD) 3251.00 ft (CF)

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

Serial #: 8671 Inside

Press@RunDepth: 99.27 psig @ 4211.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2013.11.14
 End Date:
 2013.11.15
 Last Calib.:
 2012.11.15

 Start Time:
 18:40:05
 End Time:
 05:20:15
 Time On Btm:
 2013.11.14 @ 21:29:15

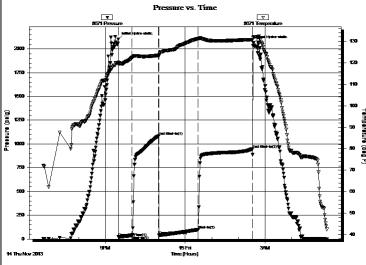
 Time Off Btm:
 2013.11.15 @ 02:34:15

TEST COMMENT: 30 - IF: Blow built to 2"

60 - ISI: No blow back

90 - FF: Blow started at 15 min., built to 5 1/4"

120 - FSI: No blow back



FILESSOIL SOMMAN				
•	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2102.34	120.09	Initial Hydro-static
	1	22.13	119.34	Open To Flow (1)
	31	37.65	122.40	Shut-ln(1)
	91	1083.26	123.45	End Shut-In(1)
i	92	41.38	122.96	Open To Flow (2)
Temperature (deg F	180	99.27	131.19	Shut-ln(2)
8	303	948.61	130.76	End Shut-In(2)
J	305	2062.97	132.02	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
155.00	OCM 83%m, 14%o, 3%g	0.76
20.00	SMCO 91%o, 8%m, 1%g	0.10
* Recovery from mult	tiple tests	

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

Trilobite Testing, Inc Ref. No: 55019 Printed: 2013.11.15 @ 08:48:09



FLUID SUMMARY

Berexco, LLC 26/1s/36w Rawlins KS

2020 N. Bramblew ood Wichita, KS 67206 Lillie #1-26

Job Ticket: 55019

DST#: 3

ATTN: Pete Vollmer

Test Start: 2013.11.14 @ 18:40:00

Mud and Cushion Information

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

Mud Weight:9.00 lb/galCushion Length:ftViscosity:58.00 sec/qtCushion Volume:bbl

Water Loss: 6.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2400.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	OCM 83%m, 14%o, 3%g	0.762
20.00	SMCO 91%o, 8%m, 1%g	0.098

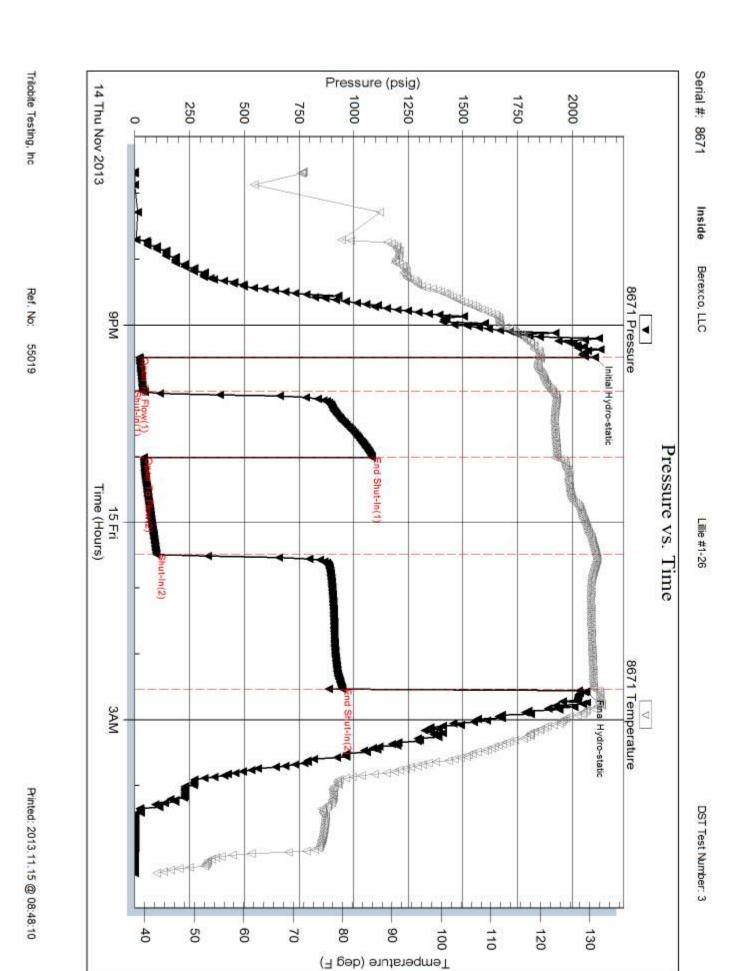
Total Length: 175.00 ft Total Volume: 0.860 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Too cold to check gravity - I'll try again when I come back for next test

Trilobite Testing, Inc Ref. No: 55019 Printed: 2013.11.15 @ 08:48:09





Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood

Wichita, KS 67206

Job Ticket: 55020

Lillie #1-26

DST#: 4

ATTN: Pete Vollmer

Test Start: 2013.11.15 @ 16:40:00

GENERAL INFORMATION:

Formation: LKC "C"

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

Time Tool Opened: 19:12:30 Tester: James Winder

Time Test Ended: 03:33:00 Unit No: 150

Interval: 4264.00 ft (KB) To 4326.00 ft (KB) (TVD) Reference Elevations: 3264.00 ft (KB)

Total Depth: 4326.00 ft (KB) (TVD) 3251.00 ft (CF)

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

Serial #: 8671 Inside

Press@RunDepth: 289.99 psig @ 4265.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2013.11.15
 End Date:
 2013.11.16
 Last Calib.:
 2013.11.16

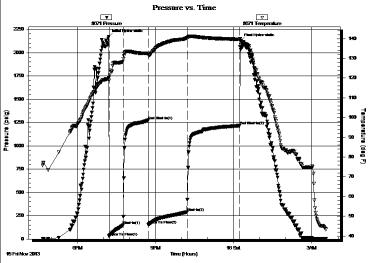
 Start Time:
 16:40:05
 End Time:
 03:33:00
 Time On Btm:
 2013.11.15 @ 19:12:15

Time Off Btm: 2013.11.16 @ 00:16:15

PRESSURE SUMMARY

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 15 min.

60 - ISI: Blow back built to 5 1/2" 90 - FF: Blow built to BOB in 21 min. 120 - FSI: Blow back built to 10"



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2167.50	120.05	Initial Hydro-static
	1	27.79	118.87	Open To Flow (1)
	33	146.95	128.24	Shut-In(1)
	91	1274.50	132.47	End Shut-In(1)
	91	153.66	131.72	Open To Flow (2)
	181	289.99	140.27	Shut-In(2)
	302	1216.54	139.62	End Shut-In(2)
,	304	2127.45	135.47	Final Hydro-static
				-

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCM 60%m, 26%g, 14%o	0.89
537.00	CGO 83%o, 15%g, 2%m	4.34
0.00	GIP = 565'	
* Recovery from mult	tiple tests	

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

Trilobite Testing, Inc Ref. No: 55020 Printed: 2013.11.16 @ 06:52:59



FLUID SUMMARY

ppm

Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood Wichita, KS 67206 Lillie #1-26

Job Ticket: 55020

DST#: 4

ATTN: Pete Vollmer

Test Start: 2013.11.15 @ 16:40:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 31.6 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity:

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 6.38 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2500.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GOCM 60%m, 26%g, 14%o	0.885
537.00	CGO 83%o, 15%g, 2%m	4.344
0.00	GIP = 565'	0.000

Total Length: 717.00 ft Total Volume: 5.229 bbl

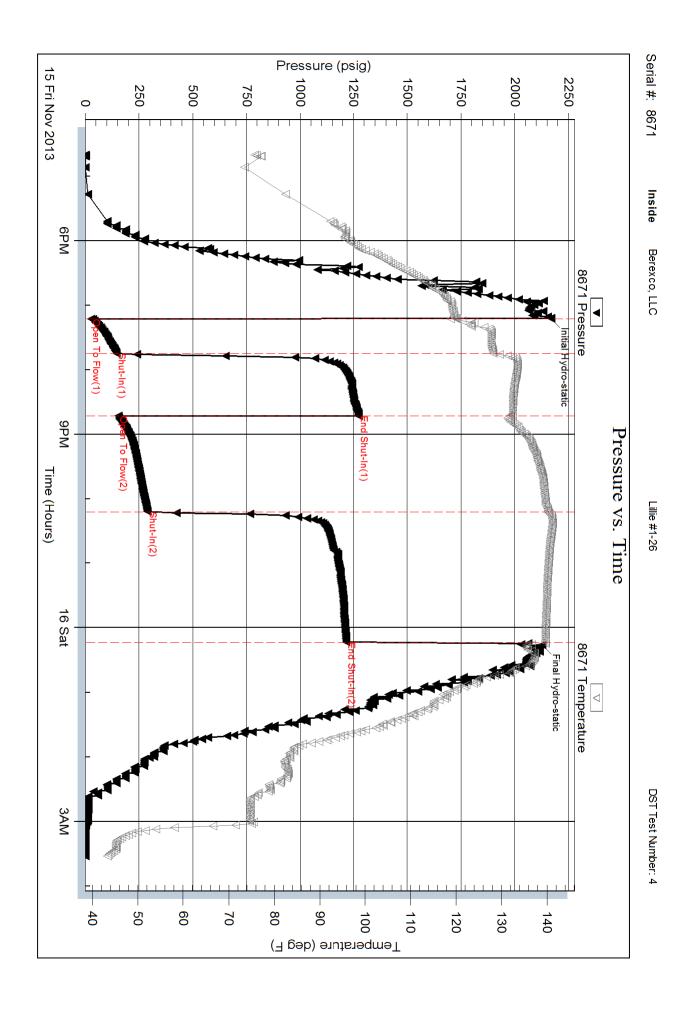
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: LCM 6#

Gravity = 30.2 api @ 46 deg F Corrected Gravity = 31.6 api

Trilobite Testing, Inc Ref. No: 55020 Printed: 2013.11.16 @ 06:52:59



Trilobite Testing, Inc

Ref. No:

55020

Printed: 2013.11.16 @ 06:53:00



Berexco, LLC

26/1s/36w Rawlins KS

Lillie #1-26

Tester:

Job Ticket: 55021

DST#:5

3264.00 ft (KB)

ATTN: Pete Vollmer

2020 N. Bramblew ood

Wichita, KS 67206

Test Start: 2013.11.16 @ 16:20:00

James Winder

150

GENERAL INFORMATION:

Formation: LKC "D-E"

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

Time Tool Opened: 19:06:45 Time Test Ended: 03:07:30

Interval:

Unit No: 4326.00 ft (KB) To 4414.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4414.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

3251.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8671 Inside

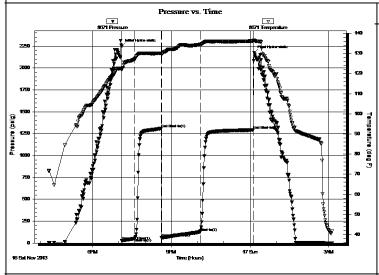
Press@RunDepth: 127.27 psig @ 4327.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2013.11.16 End Date: 2013.11.17 Last Calib.: 2013.11.17 Start Time: 16:20:05 End Time: 03:07:30 Time On Btm: 2013.11.16 @ 19:06:30 Time Off Btm: 2013.11.17 @ 00:09:30

TEST COMMENT: 30 - IF: Blow built to 7"

60 - ISI: No blow back

90 - FF: Blow built to BOB (11") in 51 min. 120 - FSI: Blow back built to 3/4" then died back



(Min.)	(psig)	(deg F)	
0	2244.89	122.64	Initial Hydro-static
1	26.43	121.71	Open To Flow (1)
31	53.38	127.21	Shut-In(1)
91	1309.12	130.07	End Shut-In(1)
92	59.04	129.69	Open To Flow (2)
180	127.27	134.42	Shut-In(2)
301	1290.66	136.21	End Shut-In(2)
303	2172.30	136.59	Final Hydro-static

Pressure Temp Annotation

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)		
90.00	GOCM 72%m, 16%o, 12%g	0.44		
90.00	SMCGO 82%o, 10%g, 8%m	0.44		
90.00	CGO 80%o, 20%g	0.44		
0.00	GIP = 355'	0.00		
* Recovery from multiple tests				

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

Trilobite Testing, Inc Ref. No: 55021 Printed: 2013.11.17 @ 05:44:54



FLUID SUMMARY

Berexco, LLC

26/1s/36w Rawlins KS

2020 N. Bramblew ood Wichita, KS 67206 Lillie #1-26

Job Ticket: 55021

DST#:5

ATTN: Pete Vollmer

Test Start: 2013.11.16 @ 16:20:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:31.8 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 52.00 sec/qt Cushion Volume: bbl

7.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2600.00 ppm Filter Cake: 2.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
90.00	GOCM 72%m, 16%o, 12%g	0.443
90.00	SMCGO 82%o, 10%g, 8%m	0.443
90.00	CGO 80%o, 20%g	0.443
0.00	GIP = 355'	0.000

Total Length: 270.00 ft Total Volume: 1.329 bbl

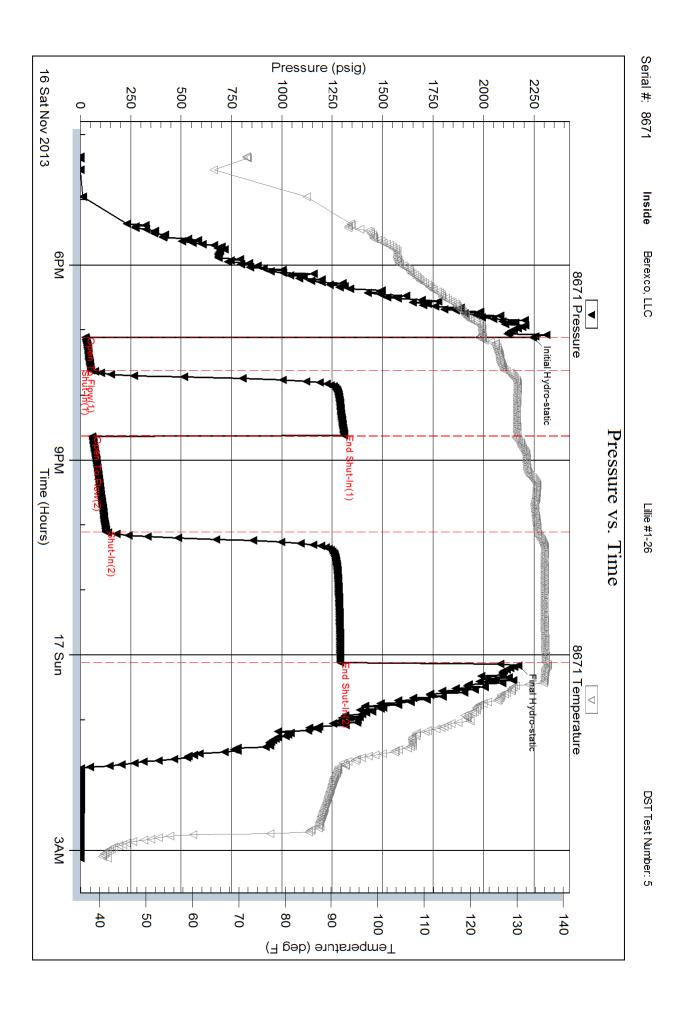
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: LCM 8#

Gravity = 30.4 api @ 46 deg F Corrected Gravity = 31.8 api

Trilobite Testing, Inc Ref. No: 55021 Printed: 2013.11.17 @ 05:44:55



Trilobite Testing, Inc

Ref. No:

55021

Printed: 2013.11.17 @ 05:44:56

BEREXCO LLC.

INTER-OFFICE

DATE: November 4, 2013 **TO:** Lillie 1-26 well file

CC:

FROM: Danish Tarar

SUBJECT: Elevation Change

During building of location, the elevation at the stake was cut down 1'. Therefore the revised elevation is 3251' ground, 3264' KB. The original staked location was 3252' ground level.

The location remained unchanged.