

Confid	entiali	ty Requested:
Yes		No

Kansas Corporation Commission Oil & Gas Conservation Division

1236828

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:	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.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Oil WSW SWD SIOW	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW ☐ Temp. Abd.	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? Yes No
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	D. 1111 - El 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1
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
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Operator Name:
GSW Permit #:	· ·
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
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:									



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ring and shut-in pressu	ormations penetrated. Eures, whether shut-in predict final chart(s). Attach	essure reached stati	c level, hydrosta	atic pressures, bott		
		otain Geophysical Data a or newer AND an image		gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taker (Attach Additional S		Yes No		_	on (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		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 Percent Additives
	Donth		. CEMENTING / SQL	JEEZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
	ulic fracturing treatment o	n this well?		Yes	No (If No, ski	p questions 2 aı	nd 3)
Does the volume of the to	otal base fluid of the hydr	aulic fracturing treatment ex submitted to the chemical	_	= :	No (If No, ski	p questions 2 at p question 3) out Page Three	
Shots Per Foot	PERFORATION Specify For	N RECORD - Bridge Plug ootage of Each Interval Per	s Set/Type forated		cture, Shot, Cement mount and Kind of Ma		d Depth
				,			
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	IR. Producing Meth		Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf Wate	er B	bbls. G	as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	Open Hole		Comp. Con	mmingled	PRODUCTIO	ON INTERVAL:
(If vented, Sul	bmit ACO-18.)	Other (Specify)	(Submit)	400-5) (Sub	omit ACO-4)		

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Achenbach B 4
Doc ID	1236828

Tops

Name	Тор	Datum
Heebner (base)	3916	-2391
Toronto	3939	-2414
Douglas	3993	-2468
Lansing	4187	-2662
KS City	4447	-2922
Swope	4626	-3101
Hertha	4656	-3131
KS City (base)	4697	-3172
Marmaton	4715	-3190
Altamount	4757	-3232
Pawnee	4792	-3267
Ft. Scott	4816	-3291
Cherokee	4830	-3305
Cherokee Sand	4859	-3334
Eros. Mississippi	4905	-3380
Mississippi Chert	4913	-3388
RTD	5104	
LTD	5100	-3575

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Achenbach B 4
Doc ID	1236828

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	17.50	13.375	48	310	A Serv Lite & Class A	270	1/4#flakes, 3% CC
Production	7.875	5.50	15.50	5102	A Serv Lite & AA2	300	.29#flakes, 5.3#salt,5. 3#Gilsonit e



TREATMENT REPORT

Customer &	Berevico	LL	-			ease No.		**	Care Advance	A.V.		Date	····				***	
Lease A	henb		B	paret ser	۷	Vell# /	ŧ	100	1 1 4 1 3 1 4 1 3	A STATE OF THE STA	4]	7	-29	-201	7	. 44.	
Field Order	# Statio	n · 🚗	191	4,10	S			Ca	sing	/3 👸 Dep	th 254	County	B	Sybor			ate	165
Type Job	CNUI	/ /3	3/8	50	169	م ا				Förmatio	n 1.1)-	310.	-	Legal D	escription	2-3	's'-	13
PIP	E DATA	l l				DATA		FL	.UID	USED		ì	TREA	TMENT	RESUM	E	•	· · · ·
Casing Size	Tubing S	ize Sl	hots/F	t :		•	Ac	cid				RATE	PRE	SS	ISIP			_:
Depth 250	Depth	Fı	rom		To		Pr	e Pad		······································	Max	•			5 Min.		:	
Volume 46	Volume	.Fr	rom		To		-Pa	ad							. 10 Min.		مايي مالك	• • • • • •
Max Press	Max Pres	ss Fr	rom		То		Fr	ac			Avg				15 Min.			
	ion Annulus	rı	rom		То			,			HHP Use	d ·		•	Annulus	Press	sure	
Plug Depth	Packer D	- 1	om		То			ush	٠		Gas Volu	me			Total Loa	ad		
Customer Re	presentative	Jim)	٠,		Station	Mai	nager	To	vin Go	xxlew	Trea	iter ${\cal L}$) Sriv	1 Frs	nl	Elch	
Service Units	27283	1988	55	1589	13	11556	0.	2.101	0		/							
Driver Names	Denin	F95	ins	Ess,	7.5	Besch	٠,	Besc	بر ۸۵							-		
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TREATMENT REPORT

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Lease Ach	On Ba	ch		. W	^{/ell} #B	4		• • •			1 10) - [7-1	4.			•
Field Order,#	Station	Pratt					Casing 5	1/2	Depti	5100	Count	y Bai	rbei	h	. [State	15.5
Type Job C/	WL	ony st	rina	•					Formation	1			Legal	Descr	iption 2	35	-13
PIPE	DATA	PER	FORAT	ΓING	DATA		FLUID	USE	ED			TREA	TMEN	TRE	SUME		
Casing Size	Tubing Siz	ze Shots/	Ft			Aci	d		1		RATE	PRE	SS	15	SIP		
Depth 5100	Depth	From		То		Pre	Pad		,	Max	5 Min.						
Volume 120	Volume	From		То .		Pad	d .		=	Min -		10 Min.			•		
Max Press	Max Press	From		То		Fra	С			Avg	15 Min.			5 Min.			
Well Connection		From		То						HHP Use					nnulus Pre	ssure	;
Plug Depth 5/758	Packer De	From		То		Flu				Gas Volu					St. sacro-mandrich (flishfolds-spilad) — « spiendinkongsg.).		
Customer Repr	esentative	T			Station	n Man	^{ager} KCv				Trea	ter ${\cal J}$	pe		-		
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Driver Names /	nike M	CGraw Tubing		Da	.6				Toe							-	•
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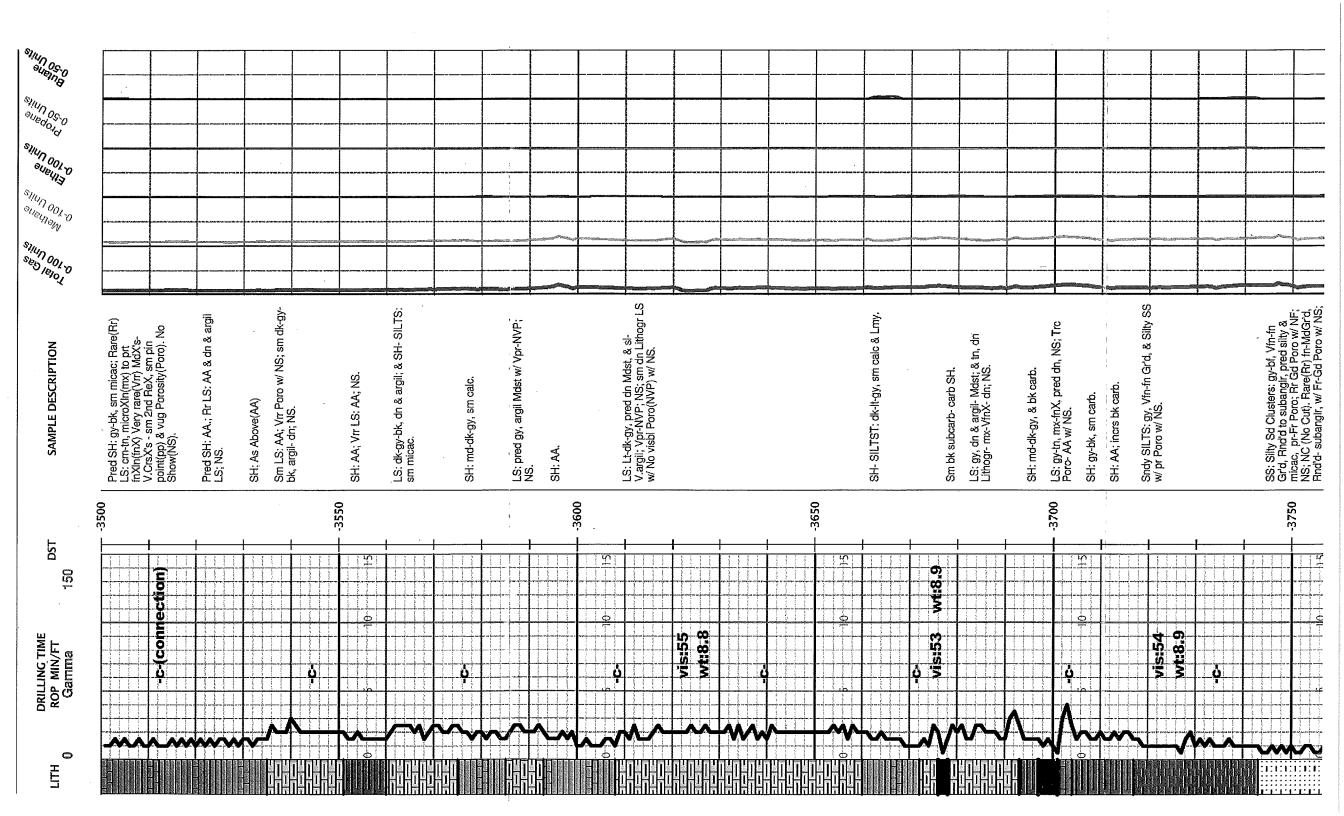
ROGER L. MARTIN

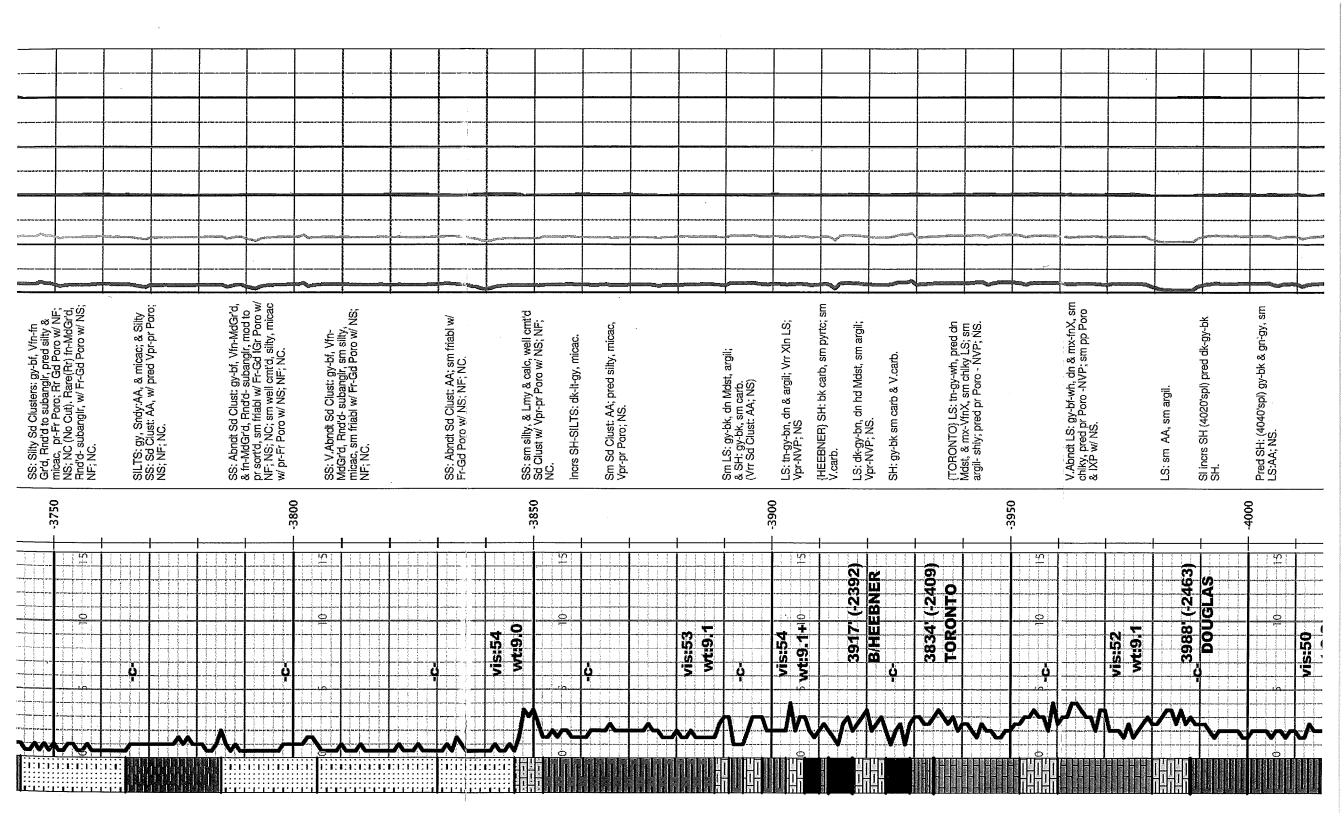
INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

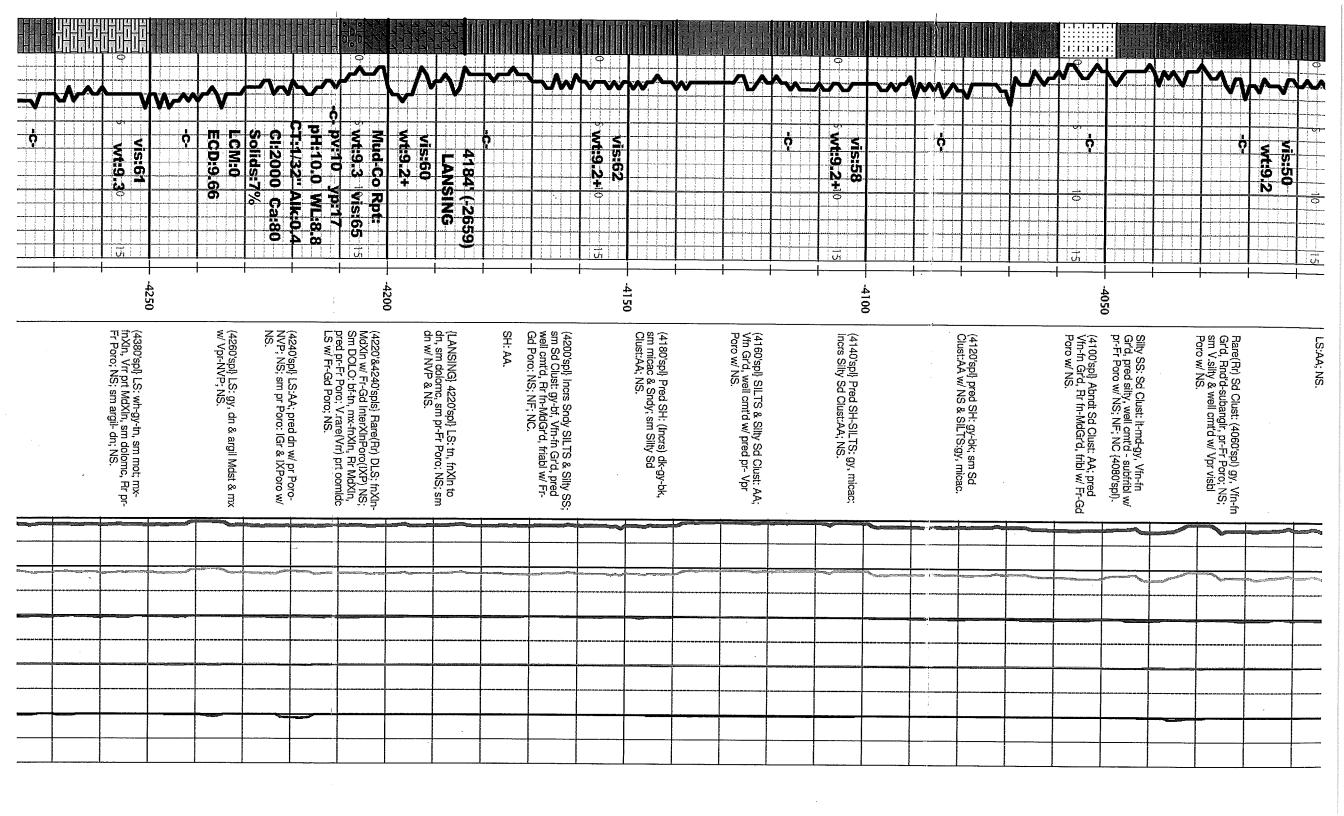


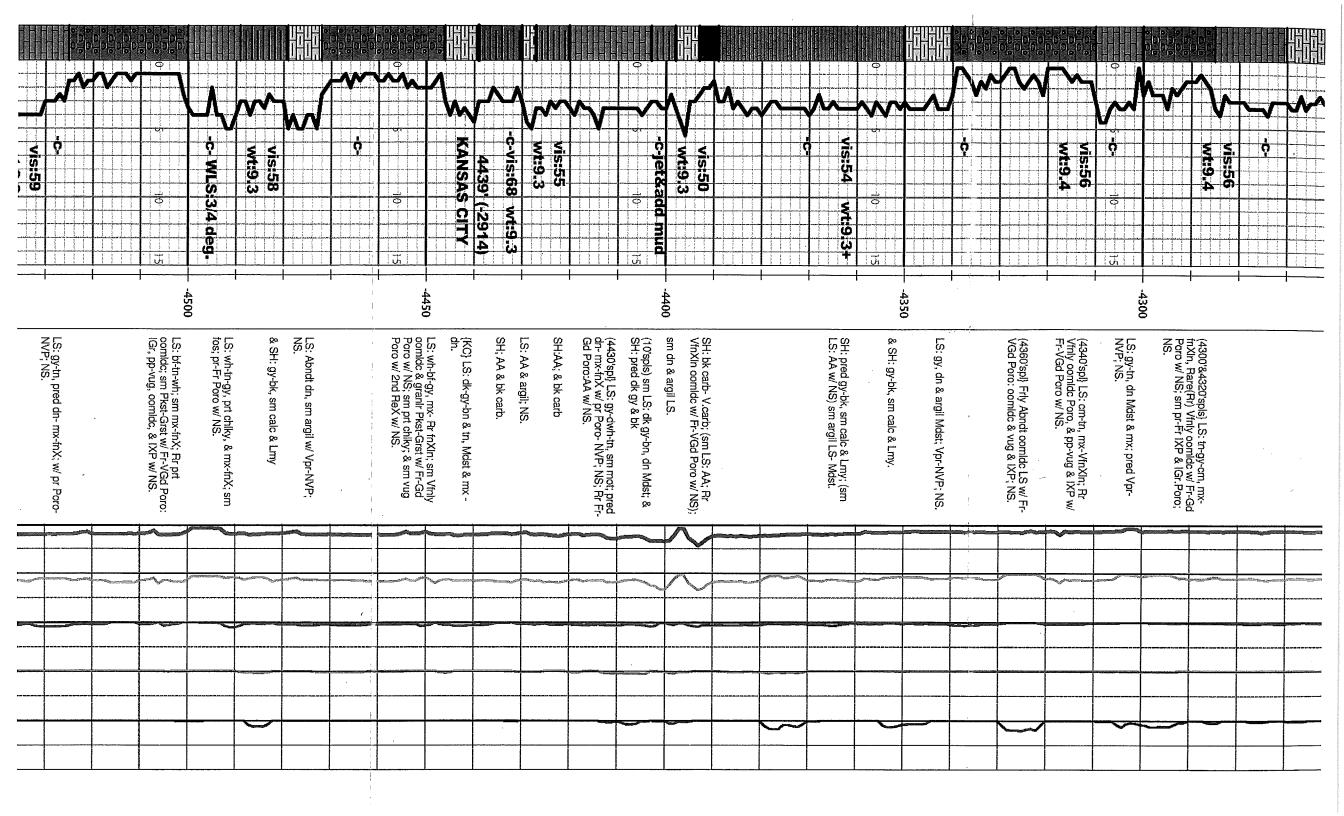
GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

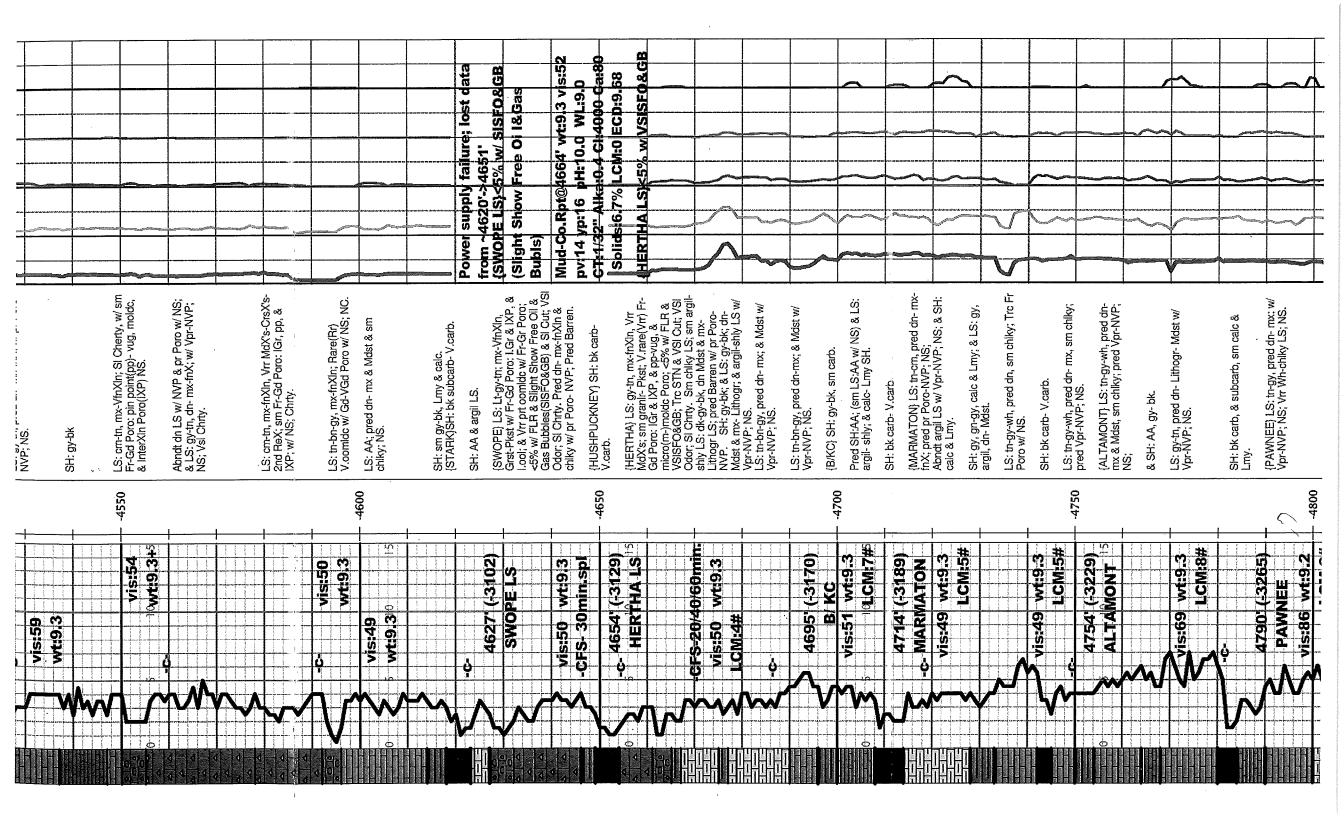
COMPANY BEREXCO LLC	TC		ELEVATIONS
LEASE ACHENBACH B#4	3#4		KB 1525 GI 1513
FIELD HARDNER			/ stagmonts
IION 2130' FSL &	660' FEL	(S/2-N/2-NE-SE/4)	ע ע
SECTION 2 TOWNSHIP	355	RANGE 13W	API 15-007-24231-00-00
COUNTY BARBER	STATE	KANSAS	
CONTRACTOR FOSSIL	DRLG Rig#3		CASING
SPUD <u>9/29/14</u>	COMP 10/07/1	/14	SURFACE 7jts 13&3/8" 48# set @ 310' KB.
RTD 5100' (-3575)	- LTD 5104' (-3579)	3579)	×
ELECTRICAL SUI Weatherford: Compact Photo Density/ Microresistivity Log, & Shallow Focus	CTRICAL SURVEYS Photo Density/ Compensated Neutron, Shallow Focused Array Induction E-log.	SURVEYS sity/ Compensated Neutron, cused Array Induction E-log.	PRODUCTION 118jts 5&1/2" 15.5# Set @ 5102' KB (See REMARKS).
FORMATION_TOPS	907 	SAMPLES	CHRONOLOGY
B/HEEBNER	3916 (-2391)	3917' (-2392)	9/29/14; Spud 17" hole @ 3:30pm, 9/29/14.
TORONTO	3939' (-2414)	3934' (-2409)	1D surf.hole @ 310' KB @ 6:15pm, 9/20/14. Dev.Survey: 1&34 dag @ 310'.
DOUGLAS	3993' (-2468)	3988" (-2463)	Ran / Is 13&3/8" 48# surt.csg. Set @ 310'KB, Cmt'd w/ 170sx A Serv Lite w/ 1/4# flakes & 3%CaCl.
LANSING	4187' (-2662)	4184' (-2659)	Finished cementing @ 11.30pm, 9/29/14. Cement did circ to surface.
KANSAS CITY	4447' (-2922)	4439' (-2914)	9/30/14; WOC @ 310' KB.
SWOPE	4626' (-3101)	4627' (-3102)	10/1/14; Drig @ 1700'. Dev.Surveys: 1 deg @ 1012';
НЕЯТНА	4656' (-3131)	4654' (3129)	1/2 deg @ 1517 (Bit #2; Varel; HE-21; 7&7/8"; in @ 310")
B/ KANSAS CITY	4697' (-3172)	4695' (-3170)	10/2/14; Drig @ 2570'. Dev.Surveys: 1/2 deg @ 2023'
MAHMATON	4715' (-3190)	4714' (-3189)	a old ueg (g. 2528 10/9/41 Dis 28 mater 25 ma
ALTAMONI	4757' (-3232)	4754' (-3229)	19/3/14; Ung @ 3350' @ 7:00 am. Dev.Survey: 3/4 deg @ 3006'
PAWNEE	4792' (-3267)	4790' (-3265)	10/4/14; Drig @ 4095' @ 7:00 am.
FT. SCO11	4816' (-3291)	4815' (-3290)	Dev. Saliveys. 1/4 deg (@ 3512.) & 3/4 deg (@ 3989)
CHEROKEE	4830' (-3305)	4831' (-3306)	Turs/14, Ung @ 4585 @ 7:30 am, Dev.Survey: 3/4 deg @ 4242; & 3/4 deg @ 4495
CHEROKEE SAND	4859' (-3334)	4858' (-3333)	10/6/14; Drig @ 4885' @ 7:00 am.
EROS. MISS.	4905' (-3380)	4899' (-3374)	10/7/14; R1D:5100; L1D:5104; Logging @ 7:00am. Dev Survey: 1 dea @ 5100
MISSISSIPPIAN CHERT	4913' (-3388)	4907' (-3382)	Record 118 jts 254/2" 15.5# csg. Set @ 5102' (2' off btm).
IOIAL DEPIH (LID/KID)	5100' (-3575)	5104' (-35/9)	(See hewarks for details).
REMARKS: 10/7/14; Ran open Tagged TD @ 5104 4799; 21' marker io	hole E-logs; LTD @ 5104. 4 KB: Set @ 5102' KB: PB oint from 4647'-4668' Cem	14: Ran open hole E-logs; LTD @ 5104'. Ran 118 jts 5&1/2" 15.5# casing. led TD @ 5104' KB: Set @ 5102' KB: PBTD @ 5060' KB. Ran baskets @ 5115' & '. 21' marker ioint from 4647'-4668' Cemented w/ 100sv A Serv I to 204 station	19. 19. 115' & ` 10.44 falves
tailed w/ 200sx AA2 3,5# gilsonite, Goo	2 0.265# flakes 0.2# C-41P circulation throughout job.	5.3# salt 0.3# FR, 1# C-44, 05 but cement did not circulate to	ALEON IGNES HET OS SI ITRO-O.
Plug landed 9:30 pi	m, 10/7/14, Had 1500# lift prat hles w/ 50sx A serv Lite.	pressure at end, bumped plug t Rig released.	0.2000#,
5&1/2" production casing was set for Respectfully submitted,	casing was set for a comple	" production casing was set for a completion in the MISSISSIPPIAN CHERT ectfully submitted,	ERT.
Roger L. Martin, Ge	oologist (Well-site)		

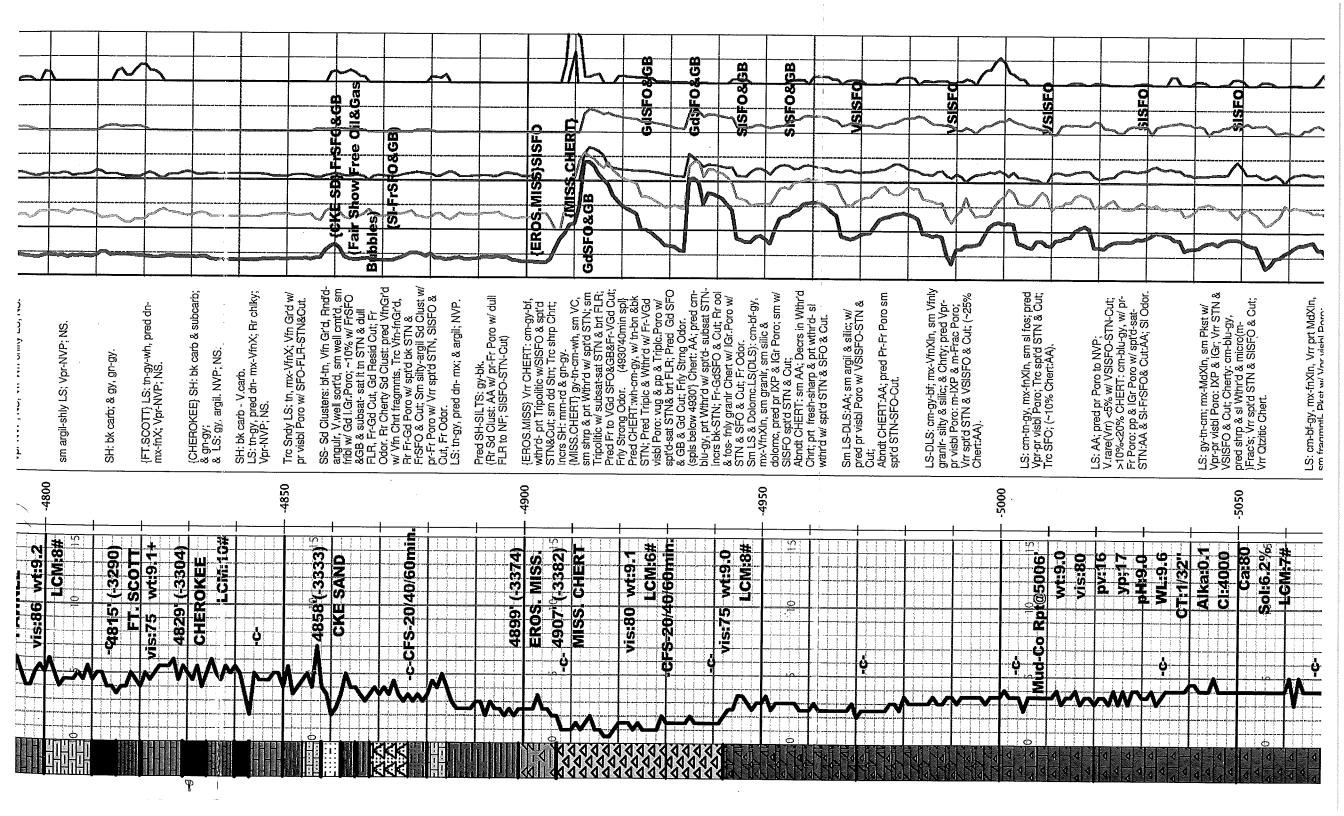


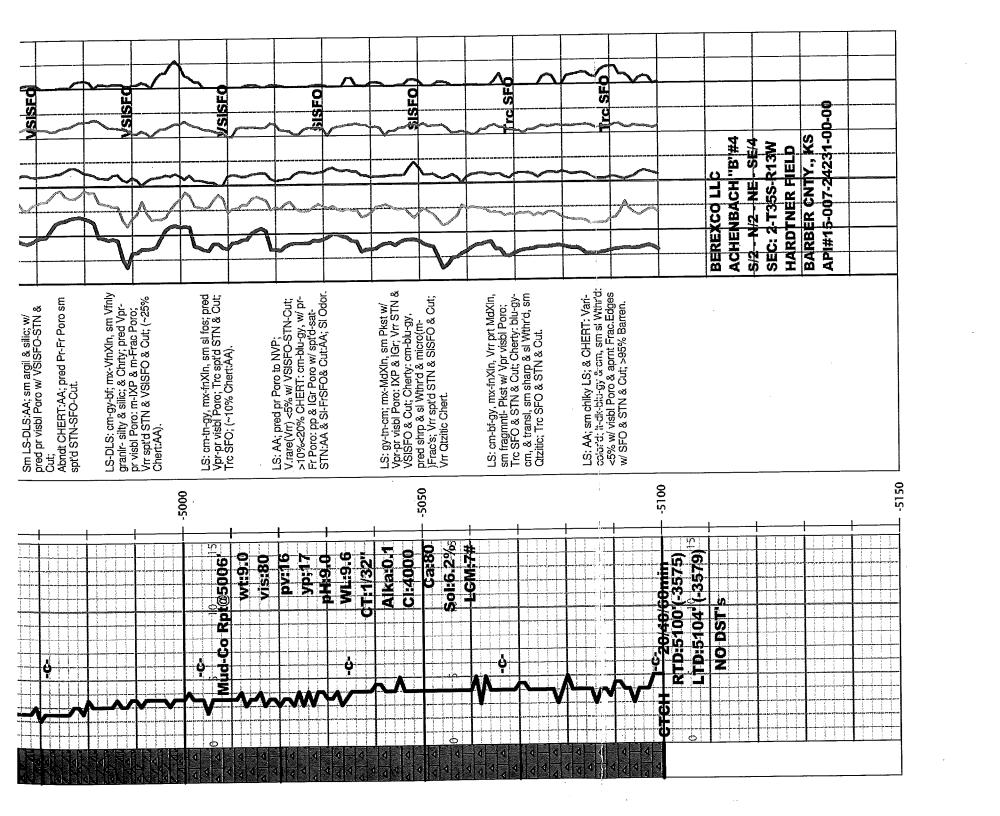












CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED Fracture Start Date/Time: 10:221/4 9:59 Fracture End Date/Time: 10:221/4 1:51 State: Kansas County: API Number: 15:007-24231-0000 Operator Name: BEREXCO LLC Well Name: BEREXCO LLC Well Name: Achenhach B #4 Federal Well: 98:596164 Latitude: -98:596164 Latitude: -98:596164 Latitude: -98:596164 Tative Freigner Start Date S

Additive	Specific Gravity	Additive Quantity	Mass (lbs)
Water	1.00	382,788	3,194,366
Sand (Proppant)	2.65	282,600	282,600
Plexcide B7	1.33	20	222
Plexcide B7	1.33	20	222
Plexgel Breaker XPA	1.03	58	499
Plexset 730	0.90	104	781
Plexset 730	0.90	104	781
Plexsurf 580 ME	0.95	93	737
Plexsurf 580 ME	0.95	93	737
Plexslick 957	1.11	232	2,149
Claymax	1.09	185	1,683
Plexgel 907L-EB	1.04	380	3,298
Plexgel 907L-EB	1.04	380	3,298
Plexgel 907L-EB	1.04	380	3,298
Plexgel 907L-EB	1.04	380	3,298
Plexgel 907L-EB	1.04	380	3,298
Plexgel Breaker 10L	1.10	5	46

Ingredients Section:

Total Slurry Mass (I.

Ingredients Section:							3,501,312	
					Maximum Ingredient		Maximum Ingredient	
Trade Name	C	D	To and disusta	Chemical Abstract Service	Concentration in	Mass per	Concentration in HF	Comments
1 rade Name	Supplier	Purpose	Ingredients	Number (CAS #)	Additive	Component (LBS)	Fluid	Comments
					(% by mass)**		(% by mass)**	
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	3,194,366	91.23338%	
Sand (Proppant) Plexcide B7	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7 / 238-878-4	99.90%	282,317	8.06319%	
Plexcide B7	Chemplex	Biocide	Sodium Hydroxide	1310-73-2	4.99%	11	0.00032%	
Plexcide B7	Chemplex	Biocide	Alkaline Bromide Salts (non-hazardous)	NA	0.00%	0	0.00000%	
Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	35	0.00100%	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	391	0.01115%	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	469	0.01339%	
Plexsurf 580 ME	Chemplex	Product Stabilizer	Methyl Alcohol	67-56-1	10.00%	74	0.00211%	
Plexsurf 580 ME	Chemplex	Product Stabilizer	2-Butoxyethanol	111-76-2	50.00%	369	0.01053%	
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	537	0.01534%	
Claymax	Chemplex	Clay Stabilizer	No Hazardous Ingredient	NA	0.00%	0	0.00000%	
Plexgel 907L-EB Plexgel 907L-EB	Chemplex Chemplex	Gelling Agent Gelling Agent	Distillates, Hydrotreated Light Organophylic Clay	64742-47-8 NDA	2.00%	1,649	0.04710% 0.00188%	
Plexgel 907L-EB	Chemplex		Crystalline Silica	14808-60-7	0.06%	2	0.00188%	
Plexgel 907L-EB	Chemplex	Gelling Agent Gelling Agent	Alcohol Ethoxylates	34398-01-1	1.00%	33	0.00094%	
Plexgel 907L-EB	Chemplex	Gelling Agent	Guar Gum	9000-30-0	50.00%	1,649	0.04710%	
Plexgel Breaker 10L	Chemplex	Breaker/Gel	No Hazardous Ingredient	NA	0.00%	0	0.00000%	
ricager breaker rot.	Chempiex	Breaker/Ger	No Hazardous Ingredient	INA.	0.0070	0	0.0000078	
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*Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.