KOLAR Document ID: 1309689

Confident	tiality Requeste	d:
Yes	No	

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL HISTOR	Y - DES	CRIPTION	OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Spud Date or Date Reached TD Completion Date or 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 Drill Stem Tests Received						
Geologist Report / Mud Logs Received						
UIC Distribution						
ALT I II III Approved by: Date:						

KOLAR Document ID: 1309689

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

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

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

Drill Stem Tests Taken	Drill Stem Tests Taken Yes No (Attach Additional Sheets)					og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String Size Hole Drilled Size Casing Set (In O.D.)			ze Casing	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose: Depth Top Bottom		Туре	Type of Cement # Sacks		d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	METHOD OF COMPLETION: PRODUCTION INT			DN INTERVAL: Bottom		
Vented Sold Used on Lease (If vented, Submit ACO-18.)		Open Hole Perf.		Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)		•	Тор	Bollom	
Shots Per Perforation Perforation Bi Foot Top Bottom		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)		
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Earl Arnold 7-3
Doc ID	1309689

All Electric Logs Run

Neutron Density	
Dual Induction	
Microlog	
Sonic	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Earl Arnold 7-3
Doc ID	1309689

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	24	1701	65/35 POZ, Class A	730	1/4# flakes, 3% CC
Production	7.875	5.5	15.5	5662	AMD, ASC		1/4# flakes, 2%CC, 2% gel, 10% salt, 5# gilsonite, 5.5% gyp, 0.5% fluid loss, 0.25% defoamer

	ALL SIL & GAS SEI	IED)		CE	MENTING LOG STAGE NO.
» [Q] 11		Audl.		Ne~F	، در.	CEMENT DATA:
Date 5 101 10	Distric	OQKlig		icket NOC 5	// /	Spacer Type:
Lease Gol A	ENALD			Vell No		
-	utor			itate K		
Location			F	ield		LEAD: Purpo Time hrs. Type#14/15/35 10 100 07 370 C
		yaan ag				<u> </u>
CASING DATA	Surface	Intermedi	iate ଯ Pr		lisc 🔲 ner 🔲	Amt. Sks Yield 2 * 2 ft³/sk Density 12 # 7 PPG TAIL: Pump Time hrs. Type 3 ? ? C.C. Excess
						Amt. Sks Yield 1.33 ft³/sk Density 14.9 PPG WATER: Lead 12.45 gals/sk Tail 2 gals/sk Total Bbls.
	110			08		P.P. SPin Hills
Casing Depths:	Тор <i>(?</i> ^		Bottom	125-		Pump Trucks Used BB DB1 - Maria
						Bulk Equip
	,					
Drill Pipe: Size	Y112	Weight		Collars		
Open Hole: Size	1214	•		P.B. to		Float Equip: Manufacturer
CAPACITY FAC	TORS:	nin				Shoe: Type Closent AUSC Depth & ZSP
Casing:	Bbls/Lin. ft	0651	Lin. ft./E	3bl		Float: Type Depth
Open Holes:	Bbls/Lin. ft			ЗЫ		Centralizers: Quantity Plugs Top Btm
Drill Pipe:	Bbls/Lin. ft		Lin. ft./E	3bl		Stage Collars
Annulus:	Bbls/Lin. ft		Lin. ft./E	3bl		Special Equip
	-			3bl		Disp. Fluid Type Amt DD Bbls. Weight Prog
	From					Mud Type Weight PPG
TIME	PRESSU		FI L		ΠΔΤΔ	
AM/PM	DRILL PIPE	ANNULUS	TOTAL	Pumped Per	RATE Bbls Min.	REMARKS
	CASING	ANNOLOS	FLUID	Time Period	Bbls Min.	
						Calentin FP3 Mity Sety
						A C. C. R.R.
						Am Coy, Circulaty
	100			228.0	24	and 41 m
	200			36.0	3115	not came
	400			10.0	/	Bille Phy ul Had
	Pen			<u> </u>		Blong Plan
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INAL DISP. PRE	SS:	PSI	BUMP PLU	G TO		PSI BLEEDBACK BBLS. THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS



Job Number:	LIb1605182130 Job Purpose 04	Port Collar	/Stage			
Customer:	Berexco LLC			J <u></u>	Date:	5/18/2010
Well Name:	Earl Arnold		Number:	7-3	API/UWI:	371372010
County:	Stanton Cit	v:			State:	Kansas
Cust. Rep;		, one:		Rig Phone:	State.	Kansas
Distance	50 miles (one way)	10	1	Supervisor	Low	ny Baeza
				54pci (130)	Lei	ily baeza
·	Employees:	Emp. ID:	·	Employees:	Termina and the second seco	Emp. ID:
Kirby Harper			Kindel Holman	inproyees.	and the second	Emp. ID.
Paul Mazzalon			Lenny Baeza			
Ramon Escarce	ga	*** <u>**********************************</u>				
the second s	oment:					
994-550			1080-842		······	
			774-744			······
·						
	Ma	terials - Pu	mping Schedule	- <u></u>		
		STA	GE #1			
Fluid Name	Description		Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	FRESH WATER		5	8.34	n/a	n/a
Fluid Name	Description	2, 2011 (d. 1997) - 1997 (d. 1997)	Rqstd Qty	Density	Yield	Water (gal/sk)
Lead 1	ALLIED MULTI-DENSITY CEMENT	- CLASS A	150	11.54	2.95	18.00
Fluid Name	Description		Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 1	ALLIED SPECIAL BLEND CEMENT -	CLASS A	165	14.80	1.51	6.55
Fluid Name	Description	and a second state of the second s	Rqstd Qty	Density	Yield	Water (gal/sk)
Disp. 1	Fresh Water		59.5	8.34	n/a	n/a
Fluid Name	Description		Rqstd Qty	Density	Yield	Water (gal/sk)
Dîsp. 2	Drilling Mud		76.2	9.00	n/a	n/a
		STA	GE #2			I/d
Fluid Name	Description		Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Spacer 1	FRESH WATER		5	8.34	n/a	n/a
Fluid Name	Description		Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Lead 1	ALLIED MULTI-DENSITY CEMENT -	CLASS A	175	11.58	2.95	17.85
Fluid Name	Description		Rqstd Qty	Density	Vield	Water (gal/sk)
Stg 2 Tail 1	ALLIED SPECIAL BLEND CEMENT -	CLASS A	50 1	14.80	1.51	6.55
Fluid Name	Description	773 (************************************	Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Tail 2	ALLIED MULTI-DENSITY CEMENT -	CLASS A	50	12.00	2.20	12.60
luid Name	Description		Rqstd Qty	Density	Yield	Water (gal/sk)
Stg 2 Disp. 1	Fresh Water		76.2	8.34	n/a	n/a

Slurry: Lead 1 Slurry Name: ALLIED MULTI-DENSITY CEMENT - CLASS A										
Quantity:	150 sacks		And a second	179.26 cu.ft.		Blend Weight:	15715.3	2 lbc		
Material		Description			Determined by	And the second se	UON			
CCAC	CLASS A COMM	ON	**************************************		% Base Materia					
CA-500	GYPSUM				% BWOC	282.0				
	SODIUM CHLOR			1.88	% BWOC	282.0				
·······	GEL - BENTONIT			3.76	% BWOC	564.0	lbm			
	POTASSIUM CHI			2.9988	% BWOW	449.8	lbm			
	CELLOPHANE FL	AKES		0.25	lb/sk	37.5	lbm			
vvaler	Mixing Water			18.00	gal/sk	2700	gal			

Slurry: Tail 1	Slurry Name: ALLIED SPECIAL BLEND CEMENT - CLASS	A
Quantity: 165 sacks	Blend Vol: 218.02 cuft cuft	Blend Weight: 18604,575 lbs
	Å	

ALLIED CO

LC Cement Job Summary

Material	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMMON	94	% Base Materia	15510.0	lbm
CA-200	SODIUM CHLORIDE	6	lb/sk	990.0	
CA-500	GYPSUM	5.17	% BWOC	853.1	
CGEL	GEL - BENTONITE	1.88	% BWOC	310.2	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	825.0	
CFL-330	FLUID LOSS ADDITIVE - LOW DENSITY SLURRIES	0.47	% BWOC	77.6	
CDF-100P	DEFOAMER - POWDER	0.235	% BWOC	38,8	
Water	Mixing Water	6.55	gal/sk	1080.8	

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Slurry:	Stg 2 Lead 1	Slurry Name: ALI	LIED MULTI-D	ENSITY CEMEN	T - CLASS A		
Quantity:	175 sacks			215.59 cu.ft.		Blend Weight:	18659.16675 lbs
Material		Description		Conc. (lb/sk)	Determined by	NAMES OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.	UOM
CCAC	CLASS A COMM	ON		94	% Base Materia	16450.0	lbm
CA-500	GYPSUM			1.88	% BWOC	329.0	lbm
CA-200	SODIUM CHLOR	IDE		1.88	% BWOC	329.0	lbm
CGEL	GEL - BENTONIT	E		3.76	% BWOC	658.0	lbm
CA-300	POTASSIUM CHL			2.97381	% BWOW	520.4	lbm
	CELLOPHANE FL	AKES		0.25	lb/sk	43,8	lbm
	CALCIUM CHLOF	RIDE, PELLETS OR FL	AKE	1.88	% BWOC	329.0	
Water	Mixing Water		ĺ	17.85	gal/sk	3123.75	

Slurry:	Stg 2 Tail 1	Slurry Name: ALLI	ED SPECIAL	BLEND CEMENT	T - CLASS A	<u></u>	*******
Quantity:	50 sacks						5637.75 lbs
Material		Description		Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMM	NC		94	% Base Materia	4700.0	lbm
	SODIUM CHLOR	IDE		6	lb/sk	300.0	lbm
	GYPSUM			5.17	% BWOC	258.5	lbm
	GEL - BENTONIT	Ē		1.88	% BWOC	94.0	lbm
CLC-KOL	KOL-SEAL	-		5	lb/sk	250.0	lbm
CFL-330	FLUID LOSS ADD	ITIVE - LOW DENSITY	' SLURRIES	0.47	% BWOC	23.5	ibm
CDF-100P	DEFOAMER - PO	WDER		0.235	% BWOC	11.8	lbm
Water	Mixing Water			6,55	gal/sk	327.5	

Slurry:	Stg 2 Tail 2	Slurry Name: /	DENSITY CEMEN	T - CLASS A			
Quantity:	50 sacks		Blend Vol:	59.12 cu.ft.		Blend Weight:	5193.46 lbs
Material		Description		Weight (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMM	ON			% Base Materia		lbm
CA-500	GYPSUM			1.88	% BWOC	94.0	lbm
CA-200	SODIUM CHLOR	IDE	in the second	1.88	% BWOC	94.0	lbm
CGEL	GEL - BENTONIT	E		3.76	% BWOC	188.0	
CA-300	POTASSIUM CHI	ORIDE		2.09916	% BWOW	105.0	
CLC-CPF	CELLOPHANE FL	AKES		0.25	lb/sk	12.5	
Water	Mixing Water			12.60	gal/sk	630	

Job Number:	LIb1605182130	Job Purpose	04 Port Collar/	Stage	1			
Customer:	Berexco LLC	Con summer to a second			U	Date:	5/18/2	2016
Well Name:	Earl Arnold			Number:	7-3	API/UWI:	0,20,2	
County:	Stanton		City:			State:	Kansas	
Cust. Rep:			Phone:		Rig Phone:	J		0
Distance	50	miles (one wa	y)		Supervisor	Le	enny Baeza	
DATE	TIME	PRESSU	JRE - (PSI)	FLUID PUN	IPED DATA	}		
	AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	C	OMMENTS	
5/18/2016	3:00pm					ARRIVE ON	LOCATION	

ALLIED OFS,LLC

LC Cement Job Summary

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		<u> </u>	<u>Cemeni Joo Summur</u>	V	
1st Stage	7:45pm				SAFETY MEETING
	8:00pm				PUMP WATER AHEAD
	8:02pm	3000	0		Pressure test lines
	8:04pm	240	5	4	5 bbls of flush water ahead
	8:06pm	230	83	4	Mixing Lead Cement 11.5#
	8:28pm	210	127	5	Mixing Tail Cement 14.8#
	8:48pm	0	127	0	Shut down to washing pump
					lines to the pit and drop plug
	8:53pm	110	127	4	Dropped plug and starting
					displacement of 60 bbls of
					water and 73 bbls of MUD
	9:03pm	250	187	6	60 bbls gone and swapping
					to MUD
	9:04pm	250	207	6	80 bbls gone
	9:06pm	760	227	5	100 bbls gone
	9:17pm	1030	247pm	3 ~	120 bbls gone slowing down
				3	to land plug
	9:20pm	1800	260		133 bbls gone and laned plu
	9:22pm		260		Dropping bomb to open too
	9:42pm	840	260		Tool opened and circluate fo
					4 hrs
5-19-16	1:00am			3	Plugging rat and mouse hole
2nd Stage	1:30am		5	5	5 bbls flush
	1:40am	210	97	5	Mixing lead cement 11.5#
	2:04am	180	110	4	Mixing Tail cement 14.8#
	2:10am	0	110	0	Shut down to wash to pit
	2:16am	80	110	4	Plug left head and started
					displacement of 76 bbls
	2:24am	280	150	6	40 bbls gone
	2:28am	540	170	5	60 bbls gone
	2:29am	570	176	3	66 bbls gone slowing down
					to land the plug
	2:32am	2000	186	3	76 bbls gone and landed plu
					Released and float holding
		2500			Went up to 2500 psi to make
					Sure DV Tool Closed
		}			Full returns threw job
					Rigging up
		1			Leaving location @3:30am

<u>St. Laeneuleue St. Louis</u> TD SEC DRILLING TIME KEPT FROM 3500 RTD FIELD SAMPLES SAVED FROM No. of COUNTY SAMPLES EXAMINED FROM 3500 COMM. CONTRACTOR Beredico Dala. Rig # LOCATION 335'FNL & 3040'FEL LEASE COMPANY FORMATION TOPS GEOLOGIST ON WELL GEOLOGICAL SUPERVISION FROM 4226 TO TD MerrowFm Marmaton Lansing For Base Heebner t Scott DST'S 26.14 5-6-2016 Ezel Arnold O TWP. Stanton ARROYO NORTHERST Berenco C C None No. of CORES None 61 DRILLING 295 0 Q 5013 3765 3765 5674 LTD COMP. STATE Kansas TIME Lawin H. (JARIEVES 3500 5-18-2016 RNG. 40W 06 œ NO. SAMPLE 7-2 V 3 SBUS T0 NTTON' -0 TO TR Den New GRESSE CASING RECORD コロ MEASUREMENTS ALL FROM KB APT# 15-187-21327 70 LOG ML. Sonic 0 S D K F F B 0 ELEVATIONS å 3328 AORes-SP-GR 0 -***/ × / ¥4 / ARE 68 74 639 Jud 60 30 etection trailer on ed gas total e feet to to MARKS This d had Earth -Tech a.u. depth -EROM 3500 well Greves 109 e.o CHROMATOGRAPH C 1 2 3 4 C C 3 4 C 3 5 4 4 4 4 4 4 4 7-10L0G> ANDSTONE SLISTOME HOT WIRE TOTAL GAS B DOLOMITE IMESTONE VOLME GRANTE WASH VTANE SHALE NTANE ANHY & GYP £777 GAS SCALE ILL TIME SAMPLE DESCRIPTION CALE 10 100 1000 3500 ╞┼╂╂┽╂╋

L/77+10L0GY CHRONIATOGRAPH = ITHANE = PROPANE = ISOPTANE = BUTANE = ISOPENTANE = PENTANE 128080 SANDSTONE SITSTOME HOT WIRE BY 10 LIMESTONE DOLOMITE ORANTE WASH TOTAL GAS VOLLAVE SHALE I A CHENT ANHY & OYP DRILL TIME GAS SCALE SAMPLE DESCRIPTION SCALE 10 100 1000 3500 (Ha -++++++++++++┝┼┼┼╫ Interbedded Limestones OF Ester Drig. Lms. huy. Trs. to extr. abu. wht: to crm-chik, trs. w/chik oolites & GRM., H. Tr. To tru, crypto to v. ufn. Xin.; subebly sub-sucke. to sucrojdul. yel. to dul. H. yel. fluor.; Nocut; abu. PR to fre + trs.gd. to excell micro-pp.por 2) Slower Prig. Lms. H. grx to tran crypto. to v.V. fn. Xin.; sub-chik sub-sucro. to pachestn. Phantom politic 1P's. to colitic IP's; dul. yel. to dul. H. yel. floor No Cut; No Vis, Por Interbedded Limestones c 3600 $\{\cdot,\cdot\}$ C DI Bas Aleer Dr CRI Sh v. dekge-toblack-carb. 3700 3 Luss. gr. vight an; Grey Hoxlu. Packstu To sub-fithogr.; dul. yel. flubr; Dolut Novis lok. Novis Pok. Sh. H. gay to H. green, Soft thursday when wet; Silty 11's Threebedded Limestones D Faster Prig Lms. hugtres. white cra-chile + Grin + otan; Crypto to V.V. (w Xin.; sub - Colk, sub Guseo to tres. Sucho.; dwl. yel-Guore; Nocut; w/wideby scattered Trespa. microphylo D Slower Drag. Lms. gayshtantolar crypto to v. v. Cn. xin; dressub chilly sub Sucred

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