

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1219813

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

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #			API No. 15						
Name:			Spot Description:						
Address 1:									
Address 2:			Feet from North / South Line of Section						
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section				
Contact Person:			Footages Calculated from	Nearest Outside Section C	Corner:				
Phone: ()			□ NE □ NW	V □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:	W	ell #:				
	e-Entry	Workover	Field Name:						
	_		Producing Formation:						
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW ∏ SIGW	Elevation: Ground:	Kelly Bushing:					
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total D	epth:				
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet				
☐ Cathodic ☐ Other (Co	ore. Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No				
If Workover/Re-entry: Old Well I			If yes, show depth set:						
Operator:			If Alternate II completion, c	cement circulated from:					
Well Name:			feet depth to:	w/	sx cmt.				
Original Comp. Date:									
Deepening Re-perf	J	ENHR Conv. to SWD	Drilling Fluid Managemer	nt Plan					
Plug Back	Conv. to G		(Data must be collected from to						
Commingled	Permit #		Chloride content:	ppm Fluid volume	: bbls				
Dual Completion			Dewatering method used:_						
SWD			Location of fluid disposal if	hauled offsite:					
ENHR	Permit #:								
GSW	Permit #:		Operator Name:						
			Lease Name:						
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East West				
Recompletion Date		Recompletion Date	County:	Permit #:					

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY									
Confidentiality Requested									
Date:									
Confidential Release Date:									
Wireline Log Received									
Geologist Report Received									
UIC Distribution									
ALT I II III Approved by: Date:									

Page 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 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	v. 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	Type and Percent Additives							
Protect Casing Plug Back TD											
Plug Off Zone											
Did you 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		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)							
	Сроспу Г	octago of Laon morvari of	ioratou	(>1	mount and rand or ma	teriar Good)		Depth			
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No						
Date of First, Resumed	Production, SWD or EN										
Fotimeted Day 1 2	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)		-				



CEMENTING LOG

- o	IL & GAS SEE	RVICES, LLC				CEMEN	T DATA	A							
Date 7/15	/2014 Dist	rict Libera	# 21 Tick	ket No.	52783	Spacer	Type								
		rican Warrior		Duke	#10	Amt.	5.50	Sks	Yield			ft³/sk	Density	/	PPG
Lease		ate-Finney			157win										
County			Sta	te K	S										
		-				LEAD:	Time			hrs.	Type	Class A 3	3% CC		
Field							-			7	5.50			Excess	
Casing Data	Conducto	r 🗆 PTA	Пя	queeze	Misc.	Amt.	300	Sks	Yield		1.18	ft³/sk	Density	15.6	PPG
	Surface				Liner	TAIL:									-
Size	Tyn	e								_				Excess	
JIZC			_ **C-B-11 -			Δmt		Sks	Vield			ft³/sk	Density		PPG
														Total	
						WATER	Leau			all sk			alf sk	10001	_ 5555
Casing Donth	s Ton		Rottom			Pump T	Trucks I	Isad.	5/10	550					
casing Depti	is 10p					Bulk Equ			5-642	330					
						Buik Equ	ipment)3-04Z						
Drill Pipe:	BRIS	LIN. FT	LIN	. FT/BBL			_	_							
Open Hole:		LIN. FT		. FT/BBL		Float F	auipme	ent.	Manuf	acture	or.				
15명 46 11 15 15 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15				ET/BBI										Depth	
Capacity Factors: BBLS/LIN. FT			LIN	LIN. FT/BBLLIN. FT/BBL			Type –		_					Depth	
Casing BBLS/LIN. FT			LIN	LIN. FT/BBL			lizore:	Our	antity		Dli	igs Ton			
Open Holes BBLS/LIN. FT Drill Pipe BBLS/LIN. FT				. FT/DDL											
Drill Pipe			LIN	. FT/BBL		Stage Collars Special Equipment									
Annulus		LIN. FT		. FT/BBL		Special	Equipi	nent -		-		mt	bbls	Weight	PPG
		LIN. FT		. FT/BBL								mt	— DDIS		
Perforations	From	n	to	ft Am		Mud Ty	ype							_ Weight	
COMPANY R	EPRESENTAT	IVE				CEMEN	ITER _					Lenny Ba	eza		
TIME	PRESSU	JRES PSI	FLU	JID PUMPED D	ATA	I									
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN						REM	ARKS			
9:00pm				İ	ĺ	Rigged	up to	the w	ell hea	d					
10:30pm	200		63		5						ement t	otal of 63	bbls		
11:45pm	0		63		5									f 3 bbls to clear	n
						drill pi									
11:50pm						Washe		ning	line to	the n	t				
zzioopiii				-		1	ш рип	.рВ		and p					
						Leavin	g locati	ion @	12:00	PM					
						1									
				1		1									
				1		_									
	-	-				-			_	_	_				_
		-		-		1				_					
		-		1		+									
	1					+				_					
		-		1		+		_		_			_	-	
		1													

FINAL DISP. PRESS. _____PSI__BUMP PLUG TO _____PSI__BLEEDBACK _____BBLS ____THANK YOU



CEMENTING LOG

Data 7/17	/2014 District	liberal#21	Tielest No.	F2702	CEMENT DA							* =	
Company	/2014 District American V		-	52783 Duke #10	Spacer Type Amt.		s Yield			ft³/sk Γ)ensity		PPG
Lease O'Brate-Finney		Well No	#5-157win			, iicia				chistry	-		
County	Finney		State	KS									
Location					LEAD: Time			hrs.	Туре	Class A 39	% CC		
Field												Excess	
Casing Data		PTA Intermediate	Squeeze Production	✓ Misc.	Amt. 300 TAIL: Time	_	s Yield		. 18 Type	ft³/sk [Density	15.6	_ PPG
Size	Type	Weig	ght (Collar				_				Excess	
	i in the second	***************************************			Amt.	Sks	s Yield			ft³/sk [ensity		PPG
					WATER Lea	d .	5.2	Gal/sk	Tail_	Gal	l/sk 1	Total	BBLS
Casing Depth	s Top	Во	ttom		Pump Truck Bulk Equipmen		d: <u>549</u> 869-554						
Drill Pipe:	BBLS/LIN. FT		LIN. FT/BBL										
Open Hole:	BBLS/LIN. FT		LIN. FT/BBL		Float Equip	ment:	Manu	facture					
Capacity Fact	tors: BBLS/LIN. FT		LIN. FT/BBL		Shoe: Type							Depth	
Casing	BBLS/LIN. FT		LIN. FT/BBL		Float: Type							Depth	
Open Holes	BBLS/LIN. FT		LIN. FT/BBL		Centralizers	: 0	uantity		Plu	gs Top		Bottom	
Drill Pipe	BBLS/LIN. FT		LIN. FT/BBL		Stage Collar	's							
Annulus	BBLS/LIN. FT		LIN. FT/BBL		Special Equi	ipmen	t						
	BBLS/LIN. FT		LIN. FT/BBL	6	Disp: Flu	id Typ	e		A	mt	bbls	Weight	PPG
Perforations	From	_ft to	ft	Amt	_ Mud Type _							Weight	
COMPANY RE	EPRESENTATIVE	,			CEMENTER	_				Lenny Bae	za		

TIME PRESSU		JRES PSI	FLUID PUMPED DATA							
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	REMARKS				
2:45am						Rigged up to the well head				
3:10am	200		63		4	Started to pump 300 sacks of cement total of 63bbls				
3:45am	0		63		4	End of cement and no cement to surface and displace of 1 bbls to clean				
						2 3/8 tubing				
3:50am						Washed pumping line to the pit				
						Leaving location @ 4:30am				
	_									
	1		400							
-	-			-						
	-									
					-					
				-						
			2000	ach	1 2	Name :				
		. 3			100					
	-	100		1	1000					



CEMENTING LOG

Company		rict <u>Libera</u> rican Warrior		Duke		Spacer Ty	Sks Viold	ft³/sk Densit	v	PPC
Lease		FINNEY TWIN			5-15	AIII		Tr /sk Delisio	у	
	F		Sta	te I	(s					
Location						LEAD: Tim	e	hrs. Type CLASS A		
Field							GEL, 2%CC		Excess	
Casing Data	Conductor	✓ PTA	□ s	queeze	Misc.	Amt. 60	00 Sks Yield	1.5 ft³/sk Densit	y 13.5	PPC
	Surface	Intermed	diate Pr	roduction	Liner	TAIL: Tim	e	hrs. Type CLASS A		
Size 20	Тур	e	_Weight _	Collar		2%CC			Excess	
								1.18 ft³/sk Densit		_ PPC
						WATER Le	ad Gal	/sk Tail 5.2 Gal/sk	Total	BBL
			200000000000000000000000000000000000000							
Casing Depti	hs Top		Bottom	60)		ks Used: 903-50	1		
						Bulk Equipme	993-467			
						457.054				
Drill Dings	DDI C/I	IIN ET	LIM	ET/DDI		457-251				
Drill Pipe: Open Hole:		LIN. FT LIN. FT0.	1458 LIN	I. FT/BBL		Float Faulin	ment: Manufac	turor		
Capacity Fac			LIN OCT	I. FT/BBL		Shoe: Tue	Americ Iviariulac	turer	Depth	
Capacity Fac		LIN. FT	LIN	ET/BBL		Float: Typ	е		Depth —	
Open Holes		LIN. FT	LIN	I. FT/BBL		Controlizor	c: Quantity	Plugs Top	Bottom —	
Drill Pipe			0039 110	I. FT/BBL				riugs top		
Annulus			LIN	I. FT/BBL		Special For	uipment			
Aimulus			LIN	I. FT/BBL		Disn: Flu	uid Type	Amt bbls	Weight	PP
Perforations		ft t				Mud Type			Weight	
COMPANY R	REPRESENTATI	VF				CEMENTER	t	ALDO ESPINOZA		
COMPANT	EFRESENTATI					CEIVIENTEN	`-	ALDO ESPINOZA		
TIME	PRESSU	IRES PSI	FLU	JID PUMPED I	DATA			AND DESIGNATION OF THE PARTY OF		
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN			REMARKS		
700PM						ARRIVE TO	LOCATION			
730PM						RIG UP				
900PM						SAFETY ME	EETING			
910PM							SK @ 1243 FT			
1015 PM						+		W TO TAG CEMENT		
840AM				1		+	SK OF CEMENT,			
1015 AM								EW TO TAG CEMENT		
408PM	-			1		PUMP 150	SK TO SURFACE,	RAT, AND MOUSE HOLES		
	-									
				-	-					
	 									
	+			+		 				
				1						
						 				
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