Сс	onfiden	tiality	Requested:
	Yes	ΠN	0

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1240236

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: 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.xxxx) (e.gxxx.xxxx)
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 □ Gas □ D&A □ ENHR □ SIGW	Elevation: Ground: Kelly Bushing:
□ OG □ GSW □ Temp. Abd.	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? 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	Drilling Fluid Management Plan
Plug Back 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:
ENHR Permit #: GSW Permit #:	Operator Name:
dow remit #	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East West
Recompletion Date of Recompletion Date of Recompletion Date of Recompletion Date Rec	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	1240236
Operator Name:	Lease Name:	Well #:
Sec TwpS. R □ East □ West	County:	
INCTRUCTIONS. Show important tang of formations panatrated	Dotail all cores Report all final	popies of drill stoms tasts giving interval tasted time tool

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 (Attach Additional Sh	eets)	Yes No		-	n (Top), Depth an		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-c	onductor, surface, inte	ermediate, producti	on, 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
		ADDITIONAL	CEMENTING / SQL	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							

Did you perform a hydraulic	fracturing treatment of	on this well?		Yes	No	(If No,
Does the volume of the total	I base fluid of the hyd	Iraulic fracturing treatment ex	ceed 350,000 gallons?	Yes	No	(If No,
Was the hydraulic fracturing	treatment information	n submitted to the chemical d	lisclosure registry?	Yes	No	(If No,
Was the hydraulic fracturing	treatment information	n submitted to the chemical d	lisclosure registry?	Yes	No	

(If No, skip questions 2 and 3) (If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot				RD - Bridge Plu Each Interval Pe		e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed I	Producti	on, SWD or ENH	٦.	Producing Me	thod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIC	ON OF G	AS.			METHOD	OF COMPLE			PRODUCTION INTER	RVAL ·
Vented Sold	<u> </u>	Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp.	Commingled (Submit ACO-4)		
(If vented, Sub	mit ACO	-18.)		Other (Specify) _						

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	HARKRADER 3 ATU-361
Doc ID	1240236

Tops

Name	Тор	Datum
KRIDER	2385	КВ
WINFIELD	2434	КВ
TOWANDA	2485	КВ
FT_RILEY	2538	КВ
FUNSTON_LM	2668	КВ
CROUSE	2720	КВ
MORRILL	2797	КВ
GRENOLA	2840	КВ

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	HARKRADER 3 ATU-361
Doc ID	1240236

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
SURFACE	12.25	8.625	24	761	Premium Class C	480	
PRODUC TION	7.875	5.50	15.50	3062	O-Tex LowDense	425	

		JOB SUN	IMAD	v		TN # 1		Inc	KET DATE	.	
Stanton		Linn Energy				CUSTOMER RE	P			10/8/20	14
LEASE NAME Harkrader	3 ATU 361	O. JOB TYPE				HARMA EMPLOYEE NA	ME				
EMP NAME	3 ATU 301	Surface				JESUS	JIMENE	Z			
JESUS JIMENEZ											
LAMONT PATTERSON CHRISTOPHER LAYTON											
JOHNSON KESHAAH	<u> </u>			_							
Form. Name Chase-Con	uncil Grove Type):									
Packer Type	_			Calle	d Out	On Locati	on T	Job St	arted	Lioh	Complete
Bottom Hole Temp.	Set A	sure	Date		10-8-14	10/08	3/14		0/08/14	- 000 (0/08/14
Retainer Depth	Total and Accessor	Depth	Time	8	B:00AM	5:00F	PM	9:	OOPM		0:00PM
Type and Size	Qty	Make			New/Used	Well I	Data				0.001 11
Auto Fill Tube	0	IR	Casing		New	Weight 24		Jde J	From 0	To 761	Max. All
Centralizers	0	IR IR	Liner							/01	2000
op Plug	0	IR	Liner Tubing								
EAD mit clamp	0	IR	Drill Pipe							The second second	1
/eld-A		IR IR	Open Ho Perforati								Shots/
exas Pattern Guide Sh ement Basket	0e 0	IR	Perforati	ons							
M	aterials	IR	Perforati Hours O	ons	ation a						ł
ud Type 0 isp. Fluid H20	Density	0 Lb/Gal	Date		Hours	Operating Date	Hours Hours			ion of Jot)
pacer type H20	Density BBL. 10	8.33 Lb/Gal	10/08/1	4	5.0	10/08/14	1.0	1 3	Surface		
pacer type	BBL.			+-							
cid Type	Gal Gal.	%						1 :			
	Gal Gal	In		+				-			
uid Loss	Gal/Lb							1 :			
	Gal/Lb	In		+				-			
00	Gal/Lb Gal/Lb	In	Total	-	5.0	Fatal		1 -			
rfpac Balls			roter	L	5.0	Fotal	1.0				
ner	Qty.		MAX		900		sures				
her						AVG. Average R	50 ates in B	PM			
ner			MAX		3	AVG	3				
ner			Feet 43			Cement L Reason	eft in Pip		Shoe Jo	int	
						riou out			01106 00		
ge Sacks Ce	ment		Additives	ent D	ata						
480 Premiu	m Class C	2% Calcium Chloride and		ake					W/Rq. 6.34	Yield 1.35	Lbs/Gal 14.8
									0.04	1.35	14.0
										├ ──┼	
llush	Type:		Summ		lush: B	ві Г	10.00	-			
akdown	Lost Rei	JM	10	Load	& Bkdn; G	al - BBI 📩	10.00		/pe: ad:BbT-G	H20)
	Actual T	OC	NO		ss /Return E	BI	46 SURFAC	Ca	Ic. Disp E	Bbl	
5 Min.	Frac. Gr 10 Min	adient 15 Min		Trea	tment: G	al - BBI			tual Disp sp:Bbl		46.00
		13 MIN			ent Slurry B Volume B	BI L	115.0 171.00				
		-		AL							
CUSTOMER REPRE	OFAITATO -	1100	-4	2							
	SENTATIVE	allena	al la	r	pi al			-		1	
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Contraction of the second se						The second					
JOB SUMMARY TN # 1234 10/10/2014											
JOB SUMMARY									10/10/2014		
0 Linn Energy							CUSTOMER REP				
LEASE NAME Well No. JOB TYPE							EMPLOYEE NAME				
Harkrader 3 ATU 361 Production							Chris Lewis				
EMP NAME							*****				
Chris Lewis	T						T	T			
Tim Burke	1							+			
Adam Morris	-										
Form. Name 0	Typ	P-				and the second second second			and the second second		
	-	and the second		Calle	ed Out	On Locati		b Started	Lioh (Completed	
Packer Type	Set	At	Date	Oune		10/10	/14	10/10/14	1300 0	Completed	
Bottom Hole Temp. Pressure						1		10/10/14	1	0/10/14	
Retainer Depth	Time		500								
Tools and Acc	ess					Well [Data				
	lty	Make			New/Used	Weight	Size Grade	From	To	Max. Allow	
	0	IR	Casing		New	15.5	5.5 14		3062	2000	
	0	IR	Liner							1	
	0	IR	Liner							1	
	0	IR	Tubing								
	D	IR	Drill Pip	e							
	0	IR	Open H							Shots/Ft.	
Weld-A 0 IR Perforations											
Texas Pattern Guide Shoe 0 IR Perforations											
		IR	Perforat						College Comme		
Materials			Hours C	n Lo	cation	Operating	Hours	Descrip	tion of Jol	2	
Mud Type Der		0 Lb/Gal	Date	_	Hours	Date	Hours	Product			
Disp. Fluid H20 Den	sity	8.33 Lb/Gal	10/10/1	4	8.0	10/10/14	1.5	Fibuuce	ion		
Spacer type Flow Stop BBL.	20										
Spacer type BBL. Acid Type Gal.				_							
Acid Type Gal. Acid Type Gal.	_	_%									
		%		_							
Surfactant Gal. NE Agent Gal.								-			
Fluid Loss Gal/Lb											
Gelling Agent Gal/Lb		In									
Fric. Red. Gal/Lb											
MISC. Gal/Lb		In	Total		8.0	Total	1.5				
			TULA	L	0.0	Total L	1.0				
Perfpac Balls Qty. Pressures											
Dther Average Rates in BPM											
Other MAX 3 AVG 3											
Other Cement Left in Pipe											
Other	2	Reason Shoe Joint									
			Feet 4	-		Reason		ener e	Unit		
			Con	nont l	Data					1	
Stage Sacks Cement		1	Additives	ICI IL I	udia			W/Rg.	Yield	Lbs/Gal	
	eme	nt 2% Gyp, 2% Calcium Chi		5.0.4%	C-15. 0.4% C-41P	0 2% C.51 0 25	ibisk Colloffet	a 13.29	2.25	11.5	
2 0 0	3.110	10				0.2.76 0.401, 0.20	toren wenonan	0	0	0	
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Preflush	ype		Sum		aflush:	вві Г	20.00	Tuno	Elaw (
Concerning of the second se							20.00	Pad:Bbl -	Flow S	stop	
	reakdown MAXIMUM Load & Bkdn: Gal - BBI										
Actual TOC Calc. TOC: 0								Calc.Disp Actual Di		72.00	
verage Frac. Gradient Treatment: Gal - BBI								Disp:Bbl	30	1 21.00	
¹⁹ 5 Min10 Min15 MinCement Slurry BBI170.0											
	Total Volume BBI 262.00										
		\cap		01			Т				
		7.7	r	0							
CURTOMED DEDDERENT	A.T.	UEL INAMA		5	5						
CUSTOMER REPRESENT	AII	VE (4	KA	a						
SIGNATURE											
Thank You For Using											
O - TEX Pumping											