

Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1205970

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 Deast / 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:
OG GSW GSW CM (Coal Bed Methane)	Temp. Abd.	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		
	Conv. to SWD	Drilling Fluid Management Plan
 	Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:		Chloride content: ppm Fluid volume: bbls
		Dewatering method used:
		Location of fluid disposal if hauled offsite:
		Operator Name:
		Lease Name: License #:
Spud Date or Date Reached TD C	ompletion Date or	QuarterSecTwpS. R East West
	ecompletion 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	1205970
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRINCTIONS. Charge important tang of formations parastrated	atail all aaraa Banart all final	conico of drill stome toste siving interval tosted, 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 Sheets)		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-o	conductor, surface, inte	ermediate, productio	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 / SQU	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 on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

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

No

No

No

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

Shots Per Foot			PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				٨	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner Ru	un:	No	
Date of First, Resumed	I Producti	ion, SWD or ENHF	ł.	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbl	S.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									I	
DISPOSITION OF GAS:		METHOD OF COMPLE			TION:		PRODUCTION INT	ERVAL:		
Vented Solo	d 🗌 l	Used on Lease		Open Hole	Perf.	Uually (Submit A		Commingled		
(If vented, Su	ıbmit ACC	D-18.)		Other (Specify))	(Subinit /	,	(Submit ACO-4)		

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	COLLINGWOOD C-4 ATU-252
Doc ID	1205970

Tops

Name	Тор	Datum
Krider	2322	КВ
Windfield	2362	КВ
Towanda	2423	КВ
FT_Riley	2471	КВ
Funston_LM	2590	КВ
Crouse	2638	КВ
Morrill	2738	КВ
Grenola	2782	КВ

Form	ACO1 - Well Completion
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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	770	Premium Plus Class C	480	
PRODUC TION	7.875	5.50	15.50	3118	O-Tex LowDense	430	

		JOB SUM	MAR	Y			TN # 5	16	ľ	CALETDATE	2/21/201	4
Stanton		Linn Energy				CUSTOMER REA	p		- 20			
LEASE NAME	Well N	o. JOB TYPE	10.000				Orlando	6				
Collingwood	C4 ATU 252	Surface	27.41		-		SEITH L	EE				
SENTH LEE												
MARIO ABREGO				+	<u> </u>							
ROBERT BUCKMAN	· · · · · · · · · · · · · · · · · · ·	······································		╉╍┥								
MIGUEL MURGAEO												
Form. Name 🔤	the Council Grove Type	:	· · · · · · · · · · · · · · · · · · ·	· · · ·								
Packer Type	Set		Date	Cal	led O 2/21		On Locati	on 🗌		Started	Jop C	ompleted
Bottom Hole Temp	Pres	sure _	Date		412	1719	02/21	/14	1	02/21/14	0	2/21/14
Retainer Depth	Tota	Depth	Time		1200)	1730			2125	2	230
Type and Siz	cols and Accesso	Make					Well					
Auto Fill Tube			Casino		<u>N(</u>	ew/Used	Weight 24#	Size Gr 8 5/8"	ade	From	To	Max. Alloy
Insert Float Valve	0	IR I	Liner			140.04	<u> </u>	0 3/0			770	2500
Centralizers	0	IR	Liner									t
Top Plug HEAD	0		Tubing									
Limit clamp		IR	Drill Pi Öpen I					ļ				
Weld-A	0	iR i	Perfora		s			<u> </u>				Shots/Fi
Texas Pattern Guid		IR	Perfora	ations	S							1
Cement Basket	Materials	R	Perfora	tions	Ş	_						
	Wam Density	8.9 Lb/Gal	Hours	un L	ocatio Hou		Operating Date	Hours Hours	<u> </u>		ion of Job)
	H20 Density	8.33 Lb/Gal	02/21	14	6.		Date 02/21/14	1.0	ή	Surface		
Spacer typeH Spacer type	20 BBL. 10 BBL.											
Acid Type	Gal						·					
Acid Type	Gal.	_%					<u> </u>			·	·	
Surfactant	Gal Gal	in										
Fluid Loss	Gal/Lb	- in		\rightarrow					_			
Gelling Agent	Gal/Lb	In							-			
Fric. Red.	Gal/Lb Gal/Lb	_in										
		in	Total	L	6.(Total	1.0				
Peripac Balls	Qty.						Pre	ssures	_			
Other			MAX		100	0	AVG.	80				
Diher			MAX		3		Average I AVG		BPM			
Other			100/04					Left in P	line			<u> </u>
Other			Feel	43			Reason			Shoe J	oint	
											·	-
Stage Sacks	Cement		Ce Additive:		<u>nt Data</u>	a6						
1 480 Pre	mium Plus Class C	2% Calcium Chloride; 0	25 lb/sk Celk	diake:						W/Rq. 6.34	Yield 1.32	Lbs/Gal
2 0	0	Take Flat equip fo	r next job	(1,5	.5" G.	S.; 1, 5.5	" Float inser	t W/auto	fill vä	1 0	1.32	14.0
3												
<u> </u>												
			Sun	nmar	N.						<u> </u>	
Preflush	Түре:			F	reflus		BBI	10.0	0	Type:	Ha	20
Ireakdown	MAXI	MUM	0	— L	.oad 8	Bkdn:	Gal - BBl			Pad:Bbl -	Gal	
<u></u>	Actua		0	E	alc 1	s /Return	1991	46		Calc Disp		46
verage5 Mm	Frac.	Gradient		T	reatm	nent:	Gal - BBI			Actual Dis Disp Bbl	su:	46.00
	TU Ma	n15 Mi	n			nt Slurry		113.				
······································				- 1	Utal V	/olume	BBI	169.0	10 T			
						- 1.	1	<				
CUSTOMER R	EPRESENTATI	VE				K		\geq				
		· · · · · · · · · · · · · · · · · · ·				/~	2 SIGNATURE					
	(5)							nk Yo	II F	or Using	7	
										umping	1	
							0	* IEX		unping		

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JOB SUMMARY					19	HICKET DATE	2/23/2014		
Stanton	Linn Energy			CUSTOMER REP					
LEASE NAME Well No. JOB TYPE				Orlando	1È	_			
Collingwood C 4 ATU 252	Production			Brvon H	ackett				
Bryon Hackett									
Steve Crocker									
Tony Lewis									
Danny Parker									
Form. NameChase Counct GroveType:	<u> </u>								
Packer Type Set At		Date	ed Out 02/22/14	On Locatio 02/23	in J	ob Started 02/23/14		ompleted 2/23/14	
Bottom Hole Temp Pressu	ire				(17	UL/LO/ 14	ľ	2123114	
Retainer Depth Total E		Time	1830	430		1038	1	221	
Type and Size Qty	Make		New/Used	Well (Weight)ata Size Gra	de Ereme		Allow Allow	
Auto Fill Tube	IR	Casing	New	16.5 #		de From KB	<u>To</u> 3118	Max. Allow 2500	
Insert Float Valve 1 Centralizers 26	IR	Liner							
Centralizers 26		Liner							
HEAD 1	- iR	Tubing Drill Pipe							
Limit clamp 1	IR	Open Hole				+		Shots/Ft.	
Weld-A 2 Guide Shoe 1	R	Perforations							
Cement Basket 0		Perforations Perforations				-			
Materials		Hours On Lo		Operating I	Hours	Descrip	tion of Job	L	
Cenary	0 Lb/Gal 8.33 Lb/Gal	Date 02/23/14	Hours 8.0	Date 02/23/14	Hours	Product			
Spacer type iodSilcH2 BBL. 20		V2/23/14	<u>- 0.0</u>	02/23/14	2.0		-1		
Spacer type BBL						Cement	to surface	: 62 BBL	
Acid Type Gal Acid Type Gal	%					or 155 a	iks		
Surfactant Gal						Top of L	.ead: 0'		
NE Agent Gal. Fluid Loss Gal/Lb	ln								
Fluid Loss Gal/Lb Geliling Agent Gal/Lb	tn		F			-			
Fric. Red Gal/Lb	in						,		
MISCGal/Lb	In 1	Total	8.0	Total	2.0]			
Perfpac BallsQty.				Pre	ssures	-			
Other		MAX	1160	AVG	250	10			
Other		MAX	3	Average F		PM			
Other				AVG Cement	Left in Pig)e	-		
Other		Feet 44		Reason	Contrar of	Shoe 7	Track		
Stage Sacks Cement		<u>Cemeni</u> Additives				W/Ra	Visio	Lba(Cal	
1 430 D-TEX Low Dense Cemen	2% Gyp; 2% Calcium Chioric	1e; 2% C-45; 0.4%	C-15; 0.4% C-41P; 0.	2% C-51; 0.25 B	vsk Celloflake	13.29		Lbs/Gal 11.5	
2 0 0	10 gals Claymax					0	0	0	
4	Take 8 5/8" Float Eq	uipment. (T.F	P. Guide Shoe,	Float insert	with Auto	ə fiil, s			
		Summary							
Preflush Type: Breakdown MAXIM	IM			8BI	20.00		SodSi	icH20	
Lost Re	turns-N		oad & Bkdn: (xcess /Return		62	Calc Dis			
Average Actual Frac. G		C	alc. TOC:		0	Actual D)isp.	73.00	
Average Frac. G			reatment: 0 ement Siurry:	Gal - BBl 🛛 BBi 🛛 🕇	172.0	Disp Bbl			
				<u>88</u> 1	265.00				
l									
				14					
CUSTOMER REPRESENTATIV	E		V ₁	GNATURE					
			1		nk Voi	I For Usir	10		
						Pumping			
			L		- 155	runping	/		