

Confiden	tiality Requested:
Yes	No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1162848

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:			Sec.	TwpS. R	East _ West
Address 2:			F6	eet 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 I II Approved by: Date:

Page Two



Operator Name:				_ Lease l	Name: _			Well #:		
Sec Twp	S. R	East \	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whether s with final chart(shut-in pre s). Attach	ssure reac extra shee	hed stati t if more	c level, hydrosta space is neede	tic pressures, bot d.	tom hole temp	erature, flui	d recovery,
Final Radioactivity Lo- files must be submitte						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital el	ectronic log
Drill Stem Tests Taker (Attach Additional S		Yes	☐ No		_		on (Top), Depth ar			mple
Samples Sent to Geo	logical Survey	Yes	No		Nam	е		Тор	Da	tum
Cores Taken Electric Log Run		Yes Yes	☐ No ☐ No							
List All E. Logs Run:										
			CASING		☐ Ne					
		1				ermediate, product		T	_	
Purpose of String	Size Hole Drilled	Size Cas Set (In O		Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used		d Percent itives
		AD	DITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Ce	ement	# Sacks	Used		Type and P	ercent Additives		
Perforate Protect Casing	100 20111111									
Plug Back TD Plug Off Zone										
1 lug 0 li 20110										
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	p questions 2 ar	nd 3)	
Does the volume of the to								p question 3)		
Was the hydraulic fractur	ing treatment information	on submitted to the	e chemical c	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - I					cture, Shot, Cement		d	Depth
						,		,		
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef		ducing Meth Flowing	od:	g 🗌	Gas Lift (Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls. 0	as-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		N/	1ETHOD OF	COMPLE	TION:		PRODUCTION)N INTER\/^	1.
Vented Sold		Open I	_	Perf.	Dually	Comp. Cor	mmingled	THODOCTIC	ZIN IIN I ERVA	L.
	bmit ACO-18.)	Other	(Specific)		(Submit)		mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	SCHULZ A-4 ATU-19
Doc ID	1162848

All Electric Logs Run

Compact Photo Density/Compensated Neutron/Microresistivity Log
Microresistivity Log
Array Induction/Shallow Focused/Electric Log
Spectral Gamma Ray
Repeat Log

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	SCHULZ A-4 ATU-19
Doc ID	1162848

Tops

Name	Тор	Datum
Krider	2283	KB
Winfield	2361	KB
Towanda	2404	КВ
Fort Riley	2463	KB
Funston	2576	KB
Middleborg	2669	KB
Cottonwood	2728	KB
Grenola	2773	КВ

	JOB SUMN	<u> IARY</u>	#.	TN# 13		(6/14/2013	3	
Stanton	COMPANY Linn Energy		CUSTOMER REP Weldon Higgins EMPLOYEE NAME						
EASE NAME W	el No. JOB TYPE								
Schulz A-4 ATU 1	9 Surface			Jessie M	cClain				
MP NAME	5.45,02			***					
Jessie McClain	-								
Jason Jones									
Mario Abrego					+				
amont Patterson									
Form, Name Council Grove T	vpe:	[Call	ed Out	On Locatio	n []	Started	Lioh C	ompleted	
Packer Type S	Set At	Date Can	6/14/13	06/14/	13	06/14/13		6/14/13	
Bottom Hole Temp.	ressure								
Retainer Depth 1	Total Depth	Time	1200	1700		2145	1	115	
Tools and Acce				Well D					
Type and Size Qh			New/Used		Size Grade	From	To	Max. All	
Auto Fill Tube 1		Casing	New	24#	8.625" 4	KB	730	1600	
Insert Float Valve 1 Centralizers 5		Liner						 	
Centralizers 5 Top Plug 1	IR IR	Liner Tubing		ļ				+	
HEAD 1	iR iR	Drill Pipe						 	
Limit clamp	iR	Open Hole						Shots/	
Weld-A 0	İR	Perforation	S						
Texas Pattern Guide Shoe 1	İR	Perforation	5						
Cement Basket 0	İR	Perforation	5				A1		
Materials	. 06 TIAT	Hours On I	ocation	Operating	Hours		otion of Job		
	ity 8.9 Lb/Gal ity 8.33 Lb/Gal	Date 06/14/13	Hours 6.5	Date 06/14/13	Hours 1.5	Surface	е		
Disp. Fluid H20 Dens Spacer type H20 BBL.	10 LD/Gall	00/14/13	0.0	00/14/13	1.0	Final no	ump pressi	ice 230 n	
Spacer typeBBL		-				28 bbls	cmt to pit	p	
Acid Type Gal	%	1						101111	
Acid Type Gal.	%							3,773,6	
Surfactant Gal.							MOVE PROF.		
NE Agent Gal	tn					-			
Fluid Loss Gal/Lb _	<u>In</u>		 			-			
Gelling Agent Gal/Lb _ Fric. Red Gal/Lb _	In	5	\vdash		 	-			
MISC. Gal/Lb	In	Total	6.5	Total	1.5	300000	71.7		
	1	J			2.54.1.33				
Perfpac Balls(Qty.	2	45		essures				
Other		MAX	1000	AVG.	50	38.0			
Other		MAX	4		Rates in BI	-IVI			
OtherOther		WAA	**		t Left in Pip	A			
Other		Feet 44			t cent at rip		Joint		
Outer	100.00	1 000 194		***************************************	•	0.100			
		Ceme	ent Data						
Stage Sacks Cement		Additives				W/R			
1 450 Class C	2% C.C. + 0.25#/3K, Cel	loflake				6.3	0 1.32	14.8	
2									
3								-	
4								+	
									
Deaff sale	Tumas	Summa		0.01	10.00	7		H20	
	Type: MAXIMUM		Preflush: Load & Bkdn:	BBI Gal - BBI	10.00	Type: Pad:Bl		120	
	Lost Returns-N	0	Excess /Retur		28	Calc.D	isp Bbl	44	
	Actual TOC	Surface	Calc. TOC:		Surfac	e Actual	Disp.	43.60	
	Frac. Gradient		Treatment:	Gal - BBI	4027	Disp:8	lbl		
ISIP5 Min	10 Min15 M	m	Cement Slurn		106.0				
			Total Volume	BBI	103.01	,			
		. /							
	///////	2/-	,						
CUSTOMER REPRESEN	ITATIVE Welste	- 174552		CICALATICAL					
	0.000000			SIGNATURE		. E !!-	in a		
						u For Us			
				_	TEV	Pumpir			

		JOB SUM	MARY	,		TN# 13		HCKEI DATE	6/17/201	3
COUNTY Stanton				CUSTOMER REP	Llinaine					
LEASE NAME	Well	Linn Energy	·		.	Weldon				
	ATU 19	Production				Jessie N	lcClain_			
EMPNAME								322 330	- 2 3	
Jessie McClain	-									
Jason Jones			-							
Lamont Patterson	-		+							
-	ليل									
Form, Name Council - Grov	•Тур	e;		Sallani A	O+4	10-1				
Packer Type	Set	Δt —	Date	alled (16/13	On Locatio	n (Jo	b Started 06/17/13	Top C	ompleted 6/17/13
Bottom Hole Temp.		ssure	100.0	•	10/10	00,11	'''	00/1//13	۱ '	0111110
Retainer Depth	Tota	al Depth	Time	22	00	230		1000	1 1	200
Tools and						Well [Med and
Type and Size	Oty	Make			New/Used		Size Grad		To	Max. Allo
Auto Fill Tube Insert Float Valve	1	IR	Casing		New	15.5	5,5	# KΒ	3113	2000
Centralizers	26	IR IR	Liner							
Top Plug	1	IR IR	Liner Tubing		_		-	+	 	+
HEAD	1	IR IR	Drill Pipe	,—		-	-	+	-	+
Limit clamp	1	IR	Open Ho			1		1	 	Shots/F
Weld-A	0	IR.	Perforation	-				1	 	3110(8/1
Guide Shoe	1	IR	Perforation	ons					<u> </u>	1
Cement Basket	0	İR	Perforation	ons						
Mate Vlud Type WBM	Density	8.9 Lb/Gal	Hours O	n Loca	tion lours	Operating Date	Hours	Descri	otion of Job	
Disp. Fluid H20	Density	8.33 1 h/Gal	06/17/1	3 7	10.0	06/17/13	Hours 2.0	Produc	tion:	
Spacer type H2O BB	L. <u>1</u> 1)	557 111 1			00/1//10		Final P	ump psi 90	0#
Spacer typeBB	L								cmt to sur	
Acid Type Ga		%						58.5 sk	s back	
Acid Type Ga Surfactant Ga			ļ							
NE Agent Ga	i —	in		+-	——					
Fluid Loss Ga	i/Lb	In In			\neg			_	-	
Geiling Agent Ga	I/I b	in i								
rric. RedGa	/Lb	[n							100	
			Total		10.0	Total	2.0	340-277		
Peripac Balls	Olv					Dec	essures			
Other			MAX		50	AVG				
Jiner						Average	Rates in B	PM		
Other			MAX		4	AVG	3			
Other							Left in Pig			
Other			Feet 4	4		Reason		Shoe	Joint	
18020 1800			Cer	ment D	ata					
Stage Sacks Cem			Additives					W/R		Lbs/Ga
1 205 Clas 2 95 Clas		0.2% C-41P, + 5% GYP,						23.4		10.8
2 95 Clas	B C	2% GEL. + 0.2% DO NOT PUMP O	C-16A, + 2%	C.C.	COLLEGE T	DA 11	mi si i more e	10.4	1 1.90	13.0
4		DO NOT PUMPO	VER 4 B.P.	vi. VVAT	CH FOR C	IKC. WHILE	PUMPING	JOB!		
· -										
			Sumi	manı						
reflush	Type	3'	Suilli		ilush:	B8I	10.00	Type:		120
Breakdown	MA)	(IMUM		Load	d & Bkdn:	Gal - BBI		Pad:Bt		
		Returns-N	0 Surface		ess /Return	ı BBI	38	Calc.D	isp Bbl 🔃	73
Verage		Gradient	ourrace		c. TOC: atment:	Gal - BBI	Surfac	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		73.00
5IP5 Min	10 N		in		nent Slurry:	BBI I	165.0	Disp:B		
					l Volume	BBI	248.00			
								T		
		11/00	2 Hice	,						
CUSTOMER REPRE	SENTA	TIVE Wille	2 Hisc	·		SIGNATURE				
			10/2011				ank Va	. For He	ine	
				-				ı For Usi		
						0	- TEX	Pumpin	g	

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

October 14, 2013

Shawn Hildreth Linn Operating, Inc. 600 TRAVIS STE 5100 HOUSTON, TX 77002-3018

Re: ACO1 API 15-187-21230-00-00 SCHULZ A-4 ATU-19 NE/4 Sec.21-27S-39W Stanton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Shawn Hildreth