Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1223312

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 # 33999
Name: Linn Operating, Inc.
Address 1: 600 TRAVIS STE 5100
Address 2:
City: HOUSTON State: TX Zip: 77002 + 3018
Contact Person: Shawn Hildreth
Phone: (281) 840-4234
CONTRACTOR: License # 32721
Name: Eldredge Well Service LLC
Wellsite Geologist: Bill Coppedge
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☑ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

8/4/2014	8/6/2014	8/14/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-187-21287-00-00
Spot Description:
SW SW SW SW Sec. 18 Twp. 30 S. R. 39 ☐ East ☑ West
202 Feet from ☐ North / ☑ South Line of Section
255 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Stanton
Lease Name: SHORE Well #: C-4 ATU-58
Field Name: Hugoton-Panoma
Producing Formation: Chase & Council Grove
Elevation: Ground: 3225 Kelly Bushing: 3232
Total Vertical Depth: 3057 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 729 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
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: 09/16/2014
☑ **Confidential Release Date:** 09/15/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 09/17/2014

[redacted] 1223312

Operator Name: Linn Operating, Inc. Lease Name: SHORE Well #: C-4 ATU-58

Sec. 18 Twp. 30 S. R. 39 ☐ East ☑ West County: Stanton

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Pulse Neutron Decay Log
PND-S Well Evaluation Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, 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
SURFACE	12.25	8.625	24	729	Premium Class C	455	
PRODUCTION	7.875	5.50	15.50	3057	O-Tex LowDense	425	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☑ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☑ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ 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	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	Chase Perfs - 2305-2512	Frac Chase & Council Grove w/n2	
2	Council Grove Perfs - 2666-2847	Foam 763,000 SCF & 300,468 lb	
		16/30 brown sand	

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 8/18/2014

Producing Method: ☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		234			

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	SHORE C-4 ATU-58
Doc ID	1223312

Tops

Name	Top	Datum
KRIDER	2319	KB
WINFIELD	2365	KB
TOWANDA	2440	KB
FT_RILEY	2478	KB
FUNSTON_LM	2609	KB
CROUSE	2663	KB
MORRILL	2747	KB
GRENOLA	2780	KB

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	SHORE C-4 ATU-58
Doc ID	1223312

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	729	Premium Class C	455	
PRODUCTION	7.875	5.50	15.50	3057	O-Tex LowDense	425	

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
TN # 1039	8/4/2014

COUNTY	COMPANY	CUSTOMER REP
Stanton	Linn Energy	Orlando

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Shore	C-4 ATU 58	Surface	JASON JONES

EMP NAME							
JASON JONES		DANIEL BUSTOS					
DAVID SIGALA							
TYLER LEE							
JOE ARELLANO							

Form. Name Chase-Council Grove Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

	Called Out	On Location	Job Started	Job Completed
Date		08/04/14	08/04/14	08/04/14
Time		1930	2200	2300

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	1	IR
Insert Float Valve	1	IR
Centralizers	5	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	1	IR
Weld-A	2	IR
Texas Pattern Guide Shoe	1	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	24	8.625	J-55	KB	729	2000
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	8	Density	0	Lb/Gal	
Disp. Fluid	H20	Density	8.33	Lb/Gal	
Spacer type	H20	BBL.	10		
Spacer type		BBL.			
Acid Type		Gal.		%	
Acid Type		Gal.		%	
Surfactant		Gal.		In	
NE Agent		Gal.		In	
Fluid Loss		Gal/Lb		In	
Gelling Agent		Gal/Lb		In	
Fric. Red.		Gal/Lb		In	
MISC.		Gal/Lb		In	
Perfpac Balls		Qty.			
Other					
Other					
Other					
Other					
Other					

Hours On Location

Date	Hours
08/04/14	4.0
Total	4.0

Operating Hours

Date	Hours
08/04/14	2.0
Total	2.0

Description of Job

Surface

GOOD RETURNS THRU JOB

JOB WAS COMPLETED SAFEL

APPROX 50 BBLS OF CMT.

WAS CIRCULATED TO SURFAC

APPROX 207 SKS

Pressures

MAX 1400 AVG 270

Average Rates in BPM

MAX 3 AVG 3

Cement Left in Pipe

Feet 44 Reason Shoe Joint

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	455	Premium Class C	2% Calcium Chloride and .25 #/sk Cellofalke	6.34	1.35	14.8
2						
3						
4						

Summary

Preflush		Type:		Preflush:	BBl	10.00	Type: H20
Breakdown		MAXIMUM		Load & Bkdn:	Gal - BBl		Pad:Bbl -Gal
		Lost Returns-N	NO	Excess /Return	BBl	50	Calc.Disp Bbl
		Actual TOC	SURFACE	Calc TOC		SURFACE	Actual Disp 43.00
Average		Frac. Gradient		Treatment:	Gal - BBl		Disp.Bbl
ISIP	5 Min	10 Min	15 Min	Cement Slurry	BBl	#VALUE!	
				Total Volume	BBl	#VALUE!	

CUSTOMER REPRESENTATIVE _____ SIGNATURE

Thank You For Using

O - TEX Pumping

JOB SUMMARY

COUNTY: Stanton	COMPANY: Linn Energy	PRODUCT NUMBER: TN # 1045	TICKET DATE: 8/6/2014
LEASE NAME: Shore	Well No.: C4 ATU 58	JOB TYPE: Production	CUSTOMER REP: 0
EMP NAME: JESUS JIMENEZ		EMPLOYEE NAME: JESUS JIMENEZ	

EMP NAME
JESUS JIMENEZ
LAMONT PATTERSON
SANTIAGO CALIXTO

Form. Name 0 Type:

Packer Type Set At

Bottom Hole Temp. Pressure

Retainer Depth Total Depth

	Called Out	On Location	Job Started	Job Completed
Date	8/6/2014	08/06/14	08/06/14	08/06/14
Time	12:00AM	7:00AM	8:30AM	11:00AM

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Valve	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	15.5	5.5	J-55	0	3857	2000
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	0	Density 0		Lb/Gal
Disp. Fluid	H2o	Density 8.33		Lb/Gal
Spacer type	SODIUM SILIC	BBL. 20		
Spacer type		BBL.		
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	
Perfpac Balls		Qty.		
Other				
Other				
Other				
Other				
Other				

Hours On Location

Date	Hours
08/06/14	4.0
Total	4.0

Operating Hours

Date	Hours
08/06/14	2.5
Total	2.5

Description of Job

Production

Pressures

MAX 1100 AVG 50

Average Rates in BPM

MAX 3 AVG 3

Cement Left in Pipe

Feet 44 Reason Shoe Joint

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	425	O-Tex LowDense Cement	2% Gyp, 2% Calcium Chloride, 2% C-45, 0.4% C-15, 0.4% C-41P, 0.2% C-51, 0.25 lb/sk Cellofleke	13.29	2.25	11.5
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4						

Summary

Preflush		Type:	Preflush: BBl	20.00	Type: SODIUM SILICATE
Breakdown		MAXIMUM	Load & Bkdn: Gal - BBl		Pad Bbl -Gal
		Lost Returns ? NO	Excess /Return BBl	72	Calc Disp Bbl
		Actual TOC	Calc. TOC	SURFACE	Actual Disp 72.00
Average		Frac. Gradient	Treatment Gal - BBl		Disp Bbl
(psi) 5 Min		10 Min	15 Min	Cement Slurry BBl	170.0
				Total Volume BBl	262.00

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

Thank You For Using
O - TEX Pumping