Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1210832

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 Coppege
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 #:

03/24/2014	03/26/2014	04/08/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-093-21906-00-00
Spot Description:
SE - SE - SE - SE Sec. 32 Twp. 26 S. R. 38 ☐ East ☑ West
248 Feet from ☐ North / ☑ South Line of Section
190 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: Kearny
Lease Name: NEFF Well #: C-4 ATU-282
Field Name: Hugoton - Panoma
Producing Formation: Chase & Council Grove
Elevation: Ground: 3192 Kelly Bushing: 3199
Total Vertical Depth: 3108 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 728 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: 06/24/2014
☑ **Confidential Release Date:** 06/23/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 06/25/2014

1210832

Operator Name: Linn Operating, Inc. Lease Name: NEFF Well #: C-4 ATU-282

Sec. 32 Twp. 26 S. R. 38 ☐ East ☑ West County: Kearny

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	728	Premium Plus Class C	455	
PRODUCTION	7.875	5.50	15.50	3108	O-Tex LowDense	435	

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 - 2392-2400; 2412-22;	Frac Chase & Council Grove w/ N2 Foam 788,000 SCF &	
	2510-20; 2525-30; 2576-86; 2590-2600	300,198 LB 16/30 brown sand	
2	Council Grove Perfs - 2822-24		
	2830-40		

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

Date of First, Resumed Production, SWD or ENHR. 04/11/2014

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		300			

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	NEFF C-4 ATU-282
Doc ID	1210832

Tops

Name	Top	Datum
KRIDER	2406	KB
WINFIELD	2447	KB
TOWANDA	2505	KB
FT_RILEY	2568	KB
FUNSTON	2696	KB
CROUSE	2751	KB
MORRILL	2820	KB
GRENOLA	2872	KB

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	NEFF C-4 ATU-282
Doc ID	1210832

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	728	Premium Plus Class C	455	
PRODUCTION	7.875	5.50	15.50	3108	O-Tex LowDense	435	

JOB SUMMARY

COUNTY	COMPANY	PROJECT NUMBER	TICKET DATE
Kearney	Linn Operating	TN # 600	3/26/2014
LEASE NAME / Well No.	JOB TYPE	CUSTOMER REP	
Neff C4 ATU 282	Production	Orlando	
EMP NAME		EMPLOYEE NAME	
LAMONT PATTERSON		LAMONT PATTERSON	
CODY GLASSGOW			
SANTIAGO CALIXTO			

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	432-288-3213	03/26/14	03/26/14	03/26/14
Time		315	805	1045

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Valve	1	IR
Centralizers	5	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	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	15.5#	5 1/2" J-55	KB	3108	1000
Liner						
Liner						
Tubing						
Drill Pipe						
Open Hole						Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	0	Density 0	Lb/Gal	
Disp. Fluid	H20	Density 8.33	Lb/Gal	
Spacer type	LOWSTOP	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
03/26/14	4.0
Total	4.0

Operating Hours

Date	Hours
03/26/14	8.0
Total	8.0

Description of Job

Production

GOOD RETURNS THRU JOB
APPROX 78 BBLS TO PIT
JOB WAS COMPLETED
SAFELY

Pressures

MAX 1000 AVG. 250

Average Rates in BPM

MAX 3 AVG 3

Cement Left in Pipe

Feet 1 BBL Reason Shoe Joint

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	435	O-Tex Low Dense Cement	2% Gyp; 2% Calcium Chloride; 2% C-45; 0.4% C-15; 0.4% C-41P; 0.2% C-51; 0.25 #/sk Cellofalke	13.29	2.25	11.5
2	0	0	0	0	0	0
3						
4						

Summary

Preflush		Type:		Preflush: BBl	20.00
Breakdown		MAXIMUM		Load & Bkdn: Gal - BBl	
		Lost Returns-N	NO	Excess /Return BBl	78
Average		Actual TOC		Calc. TOC:	3,108
ISIP 5 Min.		Frac. Gradient		Treatment: Gal - BBl	
		10 Min	15 Min	Cement Slurry BBl	#VALUE!
				Total Volume BBl	#VALUE!

Type: FLOWSTOP
Pad:Bbl -Gal
Calc.Disp Bbl
Actual Disp. 73.00
Disp:Bbl

CUSTOMER REPRESENTATIVE Weldon Hughes

SIGNATURE

Thank You For Using
O - TEX Pumping

JOB SUMMARY

COUNTY: Kearney	COMPANY: Linn Energy	PROJECT NUMBER: TN # 597	TICKET DATE: 3/24/2014
LEASE NAME: Neff	Well No: C4 ATU 282	JOB TYPE: Surface	CUSTOMER REP: Orlando
			EMPLOYEE NAME: LAMONT PATTERSON

EMP NAME

LAMONT PATTERSON							
CODY GLASSCOW							
JOSE ARELLANO							
SANTIAGO CALIXTO							

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		03/24/14	03/24/14	03/24/14
Time		1845	2037	2245

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	1	IR
Insert Float Valve	1	IR
Centralizers	26	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	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 5/8"	J-55	KB	728	800
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	0	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
03/24/14	4.0
Total	4.0

Operating Hours

Date	Hours
03/24/14	4.0
Total	4.0

Description of Job

Surface

RETURNS THRU JOB
APPROX 54 BBLS TO PIT
JOB WAS COMPLETED
SAFELY

Pressures

MAX 800 AVG 150

Average Rates in BPM

MAX 3 AVG 3

Cement Left in Pipe

Feet 3 BBL Reason Shoe Joint

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	455	Premium Plus Class C	2% Calcium Chloride; 0.25 #/sk Cellofalke	6.34	1.32	14.8
2	0	0	0	0	0	0
3						
4						

Summary

Preflush		Type:		Preflush:	BBl	10.00	Type: H20
Breakdown		MAXIMUM		Load & Bkdn:	Gal - BBl		Pad Bbl -Gal
		Lost Returns !	NO	Excess /Return BBl		54	Calc Disp Bbl
		Actual TOC		Calc. TOC		728	Actual Disp 44.00
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