Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1222486

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 #:

7/23/2014	7/25/2014	8/4/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-187-21282-00-00
Spot Description:
SE - SE - SE - SE Sec. 10 Twp. 27 S. R. 39 ☐ East ☑ West
270 Feet from ☐ North / ☑ South Line of Section
270 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: BRATTIN Well #: 6 ATU-271
Field Name: Hugoton-Panoma
Producing Formation: Chase & Council Grove
Elevation: Ground: 3188 Kelly Bushing: 3195
Total Vertical Depth: 3060 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 730 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: 09/10/2014
☑ **Confidential Release Date:** 09/09/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 09/12/2014

[redacted] 1222486

Operator Name: Linn Operating, Inc. Lease Name: BRATTIN Well #: 6 ATU-271

Sec. 10 Twp. 27 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	730	Premium Class C	455	
PRODUCTION	7.875	5.50	15.50	3060	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 - 2324-2526	Frac Chase & Council Grove w/N2	
	Council Grove Perfs - 2712-2780	Foam 762,000 SCF & 300,874 lb	
		16/30 brown sand	

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

Date of First, Resumed Production, SWD or ENHR. 8/7/2014

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		336			

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	BRATTIN 6 ATU-271
Doc ID	1222486

Tops

Name	Top	Datum
KRIDER	2340	KB
WINFIELD	2380	KB
TOWANDA	2440	KB
FT_RILEY	2499	KB
FUNSTON	2619	KB
CROUSE	2686	KB
MORRILL	2769	KB
GRENOLA	2814	KB

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	BRATTIN 6 ATU-271
Doc ID	1222486

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	730	Premium Class C	455	
PRODUCTION	7.875	5.50	15.50	3060	O-Tex LowDense	425	

JOB SUMMARY

		PROJECT NUMBER: TN # 999	TICKET DATE: 7/24/2014
COUNTY: Stanton	COMPANY: Linn Energy	CUSTOMER REP: Orlando	
LEASE NAME: Brattin	Well No.: 6 ATU 271	JOB TYPE: Surface	EMPLOYEE NAME: Steve Crocker

EMP NAME

Steve Crocker			
Tony Lewis			
Daniel Muniz			
Chris Layton			

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		07/24/14	07/24/14	07/24/14
Time		1900	2300	15

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	24	8.625	J-55	0	730	1500
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
07/24/14	5.0
Total	5.0

Operating Hours

Date	Hours
07/24/14	1.3
Total	1.3

Description of Job

Surface

Pump 10bbls Spacer

Pump 109bbls Lead CMT at 14.8ppg

Pump 44bbls Displacement

CMT to Surface: 50bbls

207sks

Pressures

MAX 1000 AVG 100

Average Rates in BPM

MAX 3.5 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:

Breakdown MAXIMUM

Lost Returns-Y/N 0

Actual TOC

Average Frac. Gradient

ISIP 5 Min 10 Min 15 Min

Preflush:	BBl	10.00
Load & Bkdn:	Gal - BBl	
Excess /Return	BBl	50
Calc. TOC		0
Treatment:	Gal - BBl	
Cement Slurry	BBl	109.0
Total Volume	BBl	163.00

Type: H20

Pad Bbl -Gal

Calc Disp Bbl

Actual Disp. 44.00

Disp Bbl

CUSTOMER REPRESENTATIVE Wilbur Hughes

SIGNATURE

Thank You For Using

O - TEX Pumping

JOB SUMMARY

PROJECT NUMBER: TN # 1003		TICKET DATE: 7/25/2014
COUNTY: Stanton	COMPANY: Linn Energy	CUSTOMER REP: 0
LEASE NAME: Brattin / Well No: 6 ATU 271	JOB TYPE: Production	EMPLOYEE NAME: BEAU CLEM

EMP NAME

BEAU CLEM							
MARIO ABREGO							
ANGEL GARCIA							

Form. Name _____ Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

	Called Out	On Location	Job Started	Job Completed
Date	7/24/14	07/25/14	07/25/14	07/25/14
Time	8:41PM	9:00AM	12:33PM	2:25PM

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	3060	2000
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	LOW STD	BBL.	30		
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	Operating Hours Date	Hours
07/25/14	6.5	07/25/14	2.0
Total	6.5	Total	2.0

Description of Job

Production

Pressures

MAX 1190 AVG. 220

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% Gypsum, 2% Calcium Chloride, 2% C-45, 0.4% C-15, 0.4% C-41P, 0.2% C-51, 0.25 lb/sk Cellofiak	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	30.00	Type:	FLOW STOP
Breakdown		MAXIMUM		Load & Bkdn: Gal - BBl		Pad:Bbl -Gal	
		Lost Returns-Y	0	Excess /Return BBl	57	Calc.Disp Bbl	
		Actual TOC		Calc. TOC:	SURFACE	Actual Disp.	72.00
Average		Frac. Gradient		Treatment: Gal - BBl		Disp:Bbl	
ISIP	5 Min.	10 Min	15 Min	Cement Slurry BBl	170.0		
				Total Volume BBl	272.00		

CUSTOMER REPRESENTATIVE _Wilden Huggin_

SIGNATURE

Thank You For Using

O - TEX Pumping