Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1241351

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 #:

11/23/2014	11/25/2014	12/4/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-187-21311-00-00
Spot Description:
SW SW SW SW Sec. 19 Twp. 28 S. R. 39 ☐ East ☑ West
200 Feet from ☐ North / ☑ South Line of Section
215 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: SCHERLING Well #: 4 ATU-438
Field Name: Hugoton-Panoma
Producing Formation: Chase & Council Grove
Elevation: Ground: 3222 Kelly Bushing: 3229
Total Vertical Depth: 3062 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 771 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: 02/04/2015
☑ **Confidential Release Date:** 02/03/2017
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Rene Stucky **Date:** 02/04/2015

[redacted]

1241351

Operator Name: Linn Operating, Inc. Lease Name: SCHERLING Well #: 4 ATU-438

Sec. 19 Twp. 28 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	771	Premium Plus Class C	480	
PROUCTION	7.875	5.50	15.50	3062	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 - 2268 - 2470	Frac Chase & Council Grove w/N2	
	Council Grove Perfs - 2555 - 2560	Foam 745,000 SCF & 300,907 lbs	
		16/30 brown sand	

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

Date of First, Resumed Production, SWD or ENHR. 12/8/2014

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		236			

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	SCHERLING 4 ATU-438
Doc ID	1241351

Tops

Name	Top	Datum
KRIDER	2286	KB
WINFIELD	2328	KB
TOWANDA	2396	KB
FT_RILEY	2443	KB
FUNSTON_LM	2554	KB
CROUSE	2622	KB
MORRILL	2701	KB
GRENOLA	2742	KB

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	SCHERLING 4 ATU-438
Doc ID	1241351

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	771	Premium Plus Class C	480	
PROUCTION	7.875	5.50	15.50	3062	O-Tex LowDense	425	

JOB SUMMARY

COUNTY: Stanton	COMPANY: Linn Energy	PROJECT NUMBER: TN # 1350	TICKET DATE: 11/23/2014
LEASE NAME: Scherling	Well No.: 4 ATU 438	JOB TYPE: Surface	CUSTOMER REP: 0
EMP NAME: Steve Crocker			EMPLOYEE NAME: Steve Crocker

Steve Crocker							
Tony Lewis							
Charles Williams							
Johnny Blackwood							

Form. Name _____ Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

	Called Out	On Location	Job Started	Job Completed
Date		11/23/14	11/23/14	11/23/14
Time		1830	2115	2220

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	771	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
11/23/14	4.0
Total	4.0

Operating Hours

Date	Hours
11/23/14	1.0
Total	1.0

Description of Job

Surface

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	460	Premium Plus Class C	2% Calcium Chloride, 0.25 lb/sk Cellflake	6.34	1.32	14.8
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4						

Summary

Preflush _____ Type: _____

Breakdown _____ MAXIMUM _____

_____ Lost Returns? 0

_____ Actual TOC _____

Average _____ Frac. Gradient _____

ISIP _____ 5 Min _____ 10 Min _____ 15 Min _____

Preflush:	BBl	10.00	Type: H20
Load & Bkdn:	Gal - BBl		Pad Bbl -Gal
Excess /Return BBl		550	Calc Disp Bbl
Calc TOC		0	Actual Disp 49.00
Treatment:	Gal - BBl		Disp Bbl
Cement Slurry	BBl	113.0	
Total Volume	BBl	172.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

Thank You For Using

C - TEX Pumping

JOB SUMMARY

COUNTY: Stanton	COMPANY: Linn Energy	TN # 1355	TICKET DATE: 11/25/2014
LEASE NAME: Scherling	Well No.: 4 ATU 438	JOB TYPE: Production	CUSTOMER REP: 0
EMP NAME: MARIO ABREGO			EMPLOYEE NAME: MARIO ABREGO

MARIO ABREGO							
SHAWN COTTON							
CHARLES WILLIAMS							

Form. Name _____ Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

	Called Out	On Location	Job Started	Job Completed
Date	11/24/2014	11/25/14	11/25/14	11/25/14
Time	9:00PM	6:00AM	12:36PM	2:46PM

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	3062	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	DIUM SILC	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
11/25/14	6.0
Total	6.0

Operating Hours

Date	Hours
11/25/14	2.0
Total	2.0

Description of Job

Production

Pressures

MAX 950 AVG 130

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 Celloflake	13.29	2.25	11.5
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4						

Summary

Preflush _____ Type: _____

Breakdown MAXIMUM _____

Lost Returns ? 0

Actual TOC

Average Frac. Gradient

5 Min 10 Min 15 Min

Preflush:	BBl	30.00	Type: SODIUM SILCATE
Load & Bkdn:	Gal - BBl		Pad:Bbl -Gal
Excess /Return	BBl	45	Calc Disp Bbl
Calc. TOC:		SURFACE	Actual Disp 71.00
Treatment:	Gal - BBl		Disp.Bbl
Cement Slurry	BBl	170.0	
Total Volume	BBl	271.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

Thank You For Using O - TEX Pumping