[redacted] 1242550

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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 #:

| 12/15/2014 | 12/18/2014 | 1/6/2015 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-067-21805-00-00
Spot Description:
NE - NE - NE - NE Sec. 19 Twp. 27 S. R. 38 ☐ East ☑ West
180 Feet from ☑ North / ☐ South Line of Section
195 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: Grant
Lease Name: C.H. BINNEY Well #: 5 ATU-269
Field Name: Hugoton-Panoma
Producing Formation: Chase & Council Grove
Elevation: Ground: 3127 Kelly Bushing: 3134
Total Vertical Depth: 3068 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 772 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: 02/12/2015
☑ **Confidential Release Date:** 02/11/2017
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
**ALT** ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/13/2015

[redacted]

1242550

Operator Name: Linn Operating, Inc. Lease Name: C.H. BINNEY Well #: 5 ATU-269

Sec. 19 Twp. 27 S. R. 38 ☐ East ☑ West County: Grant

**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 Logs
PND-S Well Evaluation Logs

☑ 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 | 772 | Premium Class C | 480 | |
| Production | 7.875 | 5.50 | 15.50 | 3068 | O-Tex LowDense | 425 | |
| | | | | | | | |

ADDITIONAL CEMENTING / SQUEEZE RECORD

| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|---|---|---|---|---|
| ___ Perforate<br>___ Protect Casing<br>___ Plug Back TD<br>___ 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 |
|---|---|---|---|
| 2 | Chase Perfs - 2348 - 2419 | Frac Chase and Council Grove w/N2 | |
| 4 | 2465 - 2541 | Foam 610,000 SCF & 250,920 lb 16/30 | |
| 2 | Council Grove Perfs - 2681 - 2787 | brown sand | |
| | | | |
| | | | |

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

Date of First, Resumed Production, SWD or ENHR. 1/9/2015

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

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|---|---|---|---|---|---|
| | | 283 | | | |

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 | C.H. BINNEY 5 ATU-269 |
| Doc ID | 1242550 |

Tops

| Name | Top | Datum |
|---|---|---|
| KRIDER | 2359 | KB |
| WINDFIELD | 2400 | KB |
| TOWANDA | 2461 | KB |
| FT_RILEY | 2512 | KB |
| FUNSTON_LM | 2637 | KB |
| CROUSE | 2679 | KB |
| MORRILL | 2781 | KB |
| GRENOLA | 2822 | KB |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | Linn Operating, Inc. |
| Well Name | C.H. BINNEY 5 ATU-269 |
| Doc ID | 1242550 |

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 | 772 | Premium Class C | 480 | |
| Production | 7.875 | 5.50 | 15.50 | 3068 | O-Tex LowDense | 425 | |
| | | | | | | | |
| | | | | | | | |

# JOB SUMMARY

| | | | |
|---|---|---|---|
| | | PROJECT NUMBER: TN # 1402 | TICKET DATE: 12/16/2014 |
| COUNTY: Grant | COMPANY: Linn Energy | CUSTOMER REP: Orlando | |
| LEASE NAME: C.H. Binney | Well No.: #5 ATU-269 | JOB TYPE: Surface | EMPLOYEE NAME: Steve Crocker |

EMP NAME
Steve Crocker
Chris Lewis
Joe Arellano
Wilbert Arreguin

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 | | 12/15/14 | 12/16/14 | 12/16/14 |
| Time | | 2000 | 125 | 300 |

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 | 772 | 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 |
|---|---|
| 12/15/14 | 7.0 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 7.0 |

Operating Hours

| Date | Hours |
|---|---|
| 12/16/14 | 1.5 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 1.5 |

Description of Job
Surface
pres. Test
Pump spacer 10bbls H20
Pump 113bbls lead cmt
at 14.8ppg
s/d drop plug
pump 46bbls displacement
CMT to srface 0bbls

Pressures
MAX  AVG
Average Rates in BPM
MAX 3.6  AVG 3
Cement Left in Pipe
Feet: 44  Reason: Shoe Joint

Cement Data

| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
|---|---|---|---|---|---|---|
| 1 | 480 | Premium Class C | 2% Calcium Chloride and .25 #/sk Celloflake | 6.34 | 1.32 | 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 - 40 | Excess /Return BBl | 0 | Calc Disp Bbl |
| | | Actual TOC | Calc. TOC | | Actual Disp 46.00 |
| Average | | Frac. Gradient | Treatment: Gal - BBl | | Disp. Bbl |
| rsi: 5 Min | | 10 Min | 15 Min | Cement Slurry BBl | 113.8 |
| | | | | Total Volume BBl | 169.80 |

CUSTOMER REPRESENTATIVE  SIGNATURE

Thank You For Using
C - TEX Pumping

# JOB SUMMARY

| PROJECT NUMBER | TICKET DATE |
|---|---|
| TN # 1410 | 12/18/2014 |

| COUNTY | COMPANY | CUSTOMER REP |
|---|---|---|
| Grant | Linn Energy | Weldon Higgins |

| LEASE NAME | Well No. | JOB TYPE | EMPLOYEE NAME |
|---|---|---|---|
| C.H. Binney | 5 ATU 269 | Production | Chris Lewis |

| EMP NAME |
|---|
| Chris Lewis |
| Tony Lewis |
| Santia Calixto |

Form. Name _____ Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

| | Called Out | On Location | Job Started | Job Completed |
|---|---|---|---|---|
| Date | | 12/18/14 | 12/18/14 | 12/18/14 |
| Time | | 800 | | |

## 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 | | KB | 3068 | 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 | dium sylicate | 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 |
|---|---|
| 12/18/14 | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 0.0 |

## Operating Hours

| Date | Hours |
|---|---|
| 12/18/14 | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 0.0 |

## Description of Job

Production

## Pressures

MAX 2000 AVG

## 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 | 2% Gyp, 2% Calcium Chloride, 2% C-45, 0.4% C-15, 0.4% C-41P, 0.2% C-81, 0.25 #/sk Cellofiake | 13.29 | 2.25 | 11.5 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | | | | | | |
| 4 | | | | | | |

## Summary

Preflush _____ Type: _____

Breakdown _____ MAXIMUM _____

_____ Lost Returns-Y 0

_____ Actual TOC _____

Average _____ Frac. Gradient _____

_____ 5 Min _____ 10 Min _____ 15 Min _____

| | | | | | |
|---|---|---|---|---|---|
| Preflush: | BBl | 30.00 | Type: | Sodium sylicate | |
| Load & Bkdn: | Gal - BBl | | Pad Bbl -Gal | | |
| Excess /Return | BBl | 0 | Calc Disp Bbl | | |
| Calc TOC | | | Actual Disp | 72.00 | |
| Treatment | Gal - BBl | | Disp Bbl | | |
| Cement Slurry | BBl | 170.0 | | | |
| Total Volume | BBl | 272.00 | | | |

CUSTOMER REPRESENTATIVE W. Higgins

Thank You For Using

O - TEX Pumping