

1218199

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Electric Log Run | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | |

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Linn Operating, Inc. |
| Well Name | FARM MORTGAGE A-4 ATU-214 |
| Doc ID | 1218199 |

Tops

| Name | Top | Datum |
|----------|------|-------|
| KRIDER | 2361 | KB |
| WINFIELD | 2405 | KB |
| TOWANDA | 2472 | KB |
| FT_RILEY | 2523 | KB |
| FUNSTON | 2651 | KB |
| CROUSE | 2705 | KB |
| MORRILL | 2785 | KB |
| GRENOLA | 2827 | KB |

| | | | | |
|------------------------------------|-------------------------------|----------------------------|---------------------------------------|---------------------------------|
| JOB SUMMARY | | | PROJECT NUMBER TN # 803 | TICKET DATE 5/26/2014 |
| COUNTY Stanton | COMPANY Linn Energy | | CUSTOMER REP Weldon Higgins | |
| LEASE NAME Farm Mortgage | Well No A-4 ATU 214 | JOB TYPE Surface | EMPLOYEE NAME Bryon Hackett | |

| | | | | |
|-----------------------|--|--|--|--|
| Bryon Hackett | | | | |
| Miguel Murgado | | | | |
| David Mitchell | | | | |
| Justin Adams | | | | |

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 | 05/26/14 | 05/26/14 | 05/26/14 | 05/26/14 |
| Time | 1200 | 1715 | 2155 | 2258 |

| 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 | 400 | KB | 728 | 1500 |
| Liner | | | | | | | |
| Liner | | | | | | | |
| Tubing | | | | | | | |
| Drill Pipe | | | | | | | |
| Open Hole | | | | | | | Shots/Ft. |
| Perforations | | | | | | | |
| Perforations | | | | | | | |
| Perforations | | | | | | | |

| Materials | | | |
|---------------|---------|---------|--------|
| | Density | | Lb/Gal |
| Mud Type | 0 | Density | 0 |
| Disp. Fluid | H2o | Density | 8.33 |
| Spacer type | 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 |

| Hours On Location | | Operating Hours | | Description of Job |
|-------------------|-------|-----------------|-------|--------------------|
| Date | Hours | Date | Hours | |
| 05/26/14 | 6.0 | 05/26/14 | 1.0 | Surface |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total | 6.0 | Total | 1.0 | |

Perfpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

| Pressures | | | |
|----------------------|--|--------|------------|
| MAX | | AVG | |
| 820 | | 65 | |
| Average Rates in BPM | | | |
| MAX | | AVG | |
| 3 | | 3 | |
| Cement Left in Pipe | | | |
| Feet | | Reason | Shoe Track |
| 44 | | | |

| Cement Data | | | | WRq | Yield | Lbs/Gal |
|-------------|-------|-----------------|--|------|-------|---------|
| Stage | Sacks | Cement | Additives | | | |
| 1 | 455 | Premium Class C | 2% Calcium Chloride and .25 %/sk Cellulose | 6.34 | 1.35 | 14.8 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |

| Summary | | | | | | | |
|--------------------|-------------|---------------|--------------------|----------------------------|-------------------------|------------------------|------------------------------|
| Preflush Breakdown | Type: _____ | MAXIMUM _____ | Lost Returns _____ | Actual TOC _____ | Frac. Gradient _____ | Preflush: BBl _____ | Load & Bkdn: Gal - BBl _____ |
| Average | 5 Min _____ | 10 Min _____ | 15 Min _____ | Treatment: Gal - BBl _____ | Cement Slurry BBl _____ | Total Volume BBl _____ | 163.00 |
| | | | | Excess /Return BBl _____ | Calc TOC _____ | Actual Diso _____ | 44.00 |
| | | | | Pad: BBl - Gal _____ | Calc Diso BBl _____ | Actual Diso _____ | |
| | | | | | | | |

CUSTOMER REPRESENTATIVE Weldon Higgins SIGNATURE _____
 Thank You For Using
 O - TEX Pumping

| | | | |
|------------------------------------|-------------------------------|-----------------------------------|---------------------------------------|
| JOB SUMMARY | | PROJECT NUMBER TN # 804 | TICKET DATE 5/28/2014 |
| LOCATION Stanton | COMPANY Linn Energy | | CUSTOMER REP Weldon Higgins |
| LEASE NAME Farm Mortgage | Well No. A4 ATU 214 | JOB TYPE Production | EMPLOYEE NAME JESUS JIMENEZ |

| | | | | | |
|----------------------|--|--|--|--|--|
| EMP NAME | | | | | |
| JESUS JIMENEZ | | | | | |
| BEAU CLEM | | | | | |
| MARIO ABREGO | | | | | |

Form. Name _____ Type: _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

| | | | | |
|------|----------------|-----------------|-----------------|-----------------|
| | Called Out | On Location | Job Started | Job Completed |
| Date | 5-28-14 | 05/28/14 | 05/28/14 | 05/28/14 |
| Time | 4:00AM | 9:00AM | 10:30AM | 12:30PM |

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 | 440 | 0 | 3111 | 2000 |
| Liner | | | | | | | |
| Liner | | | | | | | |
| Tubing | | | | | | | |
| Drill Pipe | | | | | | | |
| Open Hole | | | | | | | Shots/Ft. |
| Perforations | | | | | | | |
| Perforations | | | | | | | |
| Perforations | | | | | | | |

Materials

| Mud type | Qty | Density | Lb/Gal |
|---------------|-----|---------|--------|
| Disp. Fluid | 0 | 8.33 | |
| Spacer type | 20 | | |
| Spacer type | | | |
| Acid Type | | | % |
| Acid Type | | | % |
| Surfactant | | | In |
| NE Agent | | | In |
| Fluid Loss | | | In |
| Gelling Agent | | | In |
| Fric. Red. | | | In |
| MISC. | | | In |

| Hours On Location | | Operating Hours | | Description of Job |
|-------------------|-------|-----------------|-------|--------------------|
| Date | Hours | Date | Hours | |
| 05/28/14 | 3.5 | 05/28/14 | 2.5 | Production |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total | 3.5 | Total | 2.5 | |

Perfpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures

| | | | |
|----------------------|------------|---------------|-------------------|
| MAX | 950 | AVG | 100 |
| 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 | 435 | O-Tex LowDense | 2% Gyp, 2% Calcium Chloride, 2% C-43, 0.4% C-15, 0.4% C-41P, 0.2% C-61, 0.25 #/sk Cellulose | 13.29 | 2.25 | 11.5 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | | | | | | |
| 4 | | | | | | |

Summary

| | | | | |
|--------------------|------------------|------------------------|---------|-----------------------|
| Preflush Breakdown | Type: MAXIMUM | Preflush: BBI | 20.00 | Type: SODIUM SILICATE |
| Average (5 min) | Lost Returns: NO | Load & Bkdn: Gal - BBI | 73 | Pad: BBI - Gal |
| | Actual TOC | Excess / Return BBI | SURFACE | Calc. Disp Bbl |
| | Frac. Gradient | Calc. TOC | | Actual Disp |
| | 10 Min | Treatment: Gal - BBI | 174.0 | Disp Bbl |
| | 15 Min | Cement Slurry BBI | 267.00 | |
| | | Total Volume BBI | | |

CUSTOMER REPRESENTATIVE Weldon Higgins SIGNATURE

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