



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

|                                   |                 |   |
|-----------------------------------|-----------------|---|
| Spud Date or<br>Recompletion Date | Date Reached TD | Completion Date or<br>Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1048200

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

|   |   |
|---|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|---|---|

| 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 |
| _____ Perforate<br>_____ Protect Casing<br>_____ Plug Back TD<br>_____ Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><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:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i><br><input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL:<br>_____<br>_____ |
|---|---|--|

|           |                                     |
|-----------|-------------------------------------|
| Form      | ACO1 - Well Completion              |
| Operator  | Pioneer Natural Resources USA, Inc. |
| Well Name | Lucas 4-16                          |
| Doc ID    | 1048200                             |

Tops

| Name         | Top  | Datum |
|--------------|------|-------|
| Glorieta     | 1179 | KB    |
| Hollenberg   | 2328 | KB    |
| Herington    | 2351 | KB    |
| Krider       | 2377 | KB    |
| Towanda      | 2493 | KB    |
| Ft. Riley    | 2548 | KB    |
| A1 Lime      | 2682 | KB    |
| B1 Lime      | 2739 | KB    |
| B2 Lime      | 2763 | KB    |
| Base B2 Lime | 2776 | KB    |

|           |                                     |
|-----------|-------------------------------------|
| Form      | ACO1 - Well Completion              |
| Operator  | Pioneer Natural Resources USA, Inc. |
| Well Name | Lucas 4-16                          |
| Doc ID    | 1048200                             |

Perforations

| Shots Per Foot | Perforation Record | Material Record  | Depth     |
|----------------|--------------------|------------------|-----------|
| 3              | Chase              | Shot & Fractured | 2515-2524 |
| 3              | Chase              | Shot & Fractured | 2526-2530 |
| 3              | Chase              | Shot & Fractured | 2556-2588 |
| 3              | Chase              | Shot & Fractured | 2612-2624 |
| 3              | Chase              | Shot & Fractured | 2646-2650 |
| 3              | Chase              | Shot & Fractured | 2656-2666 |
| 3              | Council Grove      | Shot & Fractured | 2746-2760 |
| 3              | Council Grove      | Shot & Fractured | 2770-2780 |

CEMENTING TREATMENT REPORT



|                               |                         |
|-------------------------------|-------------------------|
| TREATMENT NUMBER<br>SO2010017 | DATE<br>7/13/2010       |
| STAGE<br>1                    | JOB TYPE<br>Long String |

|  |  |   |                                  |
|--|--|---|----------------------------------|
| WELL NAME AND NO.<br>Lucas 4-16            | LOCATION (LEGAL)<br>Sec.16, T31S, R38W | RIG NAME:<br>Pioneer Natural Resources Rig # 3              | CEMENT PUMPER:<br>2305           |
| FIELD<br>Hugoton-Panoma                    | FORMATION                              | WELL DATA   | BOTTOM                           |
| COUNTY<br>Stevens                          | STATE<br>Kansas                        | API NO.<br>1518922743                                       | FT TOP                           |
| RIG FOREMAN<br>Derrick Berry/Tom Beardsley |  | BIT SIZE<br>7 7/8   | CSG/Liner Size<br>5 1/2          |
| CEMENT SUPERVISOR<br>Stan Owens            |  | TOTAL DEPTH<br>2950   | WEIGHT<br>15.5                   |
|  |  | MUD TYPE  | FOOTAGE<br>2930                  |
|  |  | <input type="checkbox"/> BHST                               | GRADE<br>J-55                    |
|  |  | <input type="checkbox"/> BHCT                               | THREAD<br>LT&C                   |
|  |  | MUD DENSITY   | LESS FOOTAGE (SHOE JOINTS)<br>42 |
|  |  | MUD VISC  | Disp. Capacity<br>68.7           |
|  |  | Include Footage From Ground Level To Head In Disp. Capacity |                                  |
|  |  | FLUX TYPE   | DEPTH                            |
|  |  | SHOE TYPE   | DEPTH                            |

|                      |                                       |  |                               |
|----------------------|---------------------------------------|--|-------------------------------|
| SPECIAL INSTRUCTIONS | Head & Plugs                          | <input type="checkbox"/> TBG                               | <input type="checkbox"/> D.P. |
|                      | <input type="checkbox"/> Double Box 6 | WEIGHT   | SIZE                          |
|                      | <input type="checkbox"/> Single       | GRADE  | TOOL TYPE                     |
|                      | <input type="checkbox"/> Swage        | THREADS  | DEPTH                         |
|                      | <input type="checkbox"/> Knockout     | <input type="checkbox"/> New <input type="checkbox"/> Used | TAIL PIPE: SIZE DEPTH         |
|                      |                                       | DEPTH  | TUBING VOLUME BBLs            |
|                      |                                       |  | CSG VOL BELOW TOOL BBLs       |
|                      |                                       |  | TOTAL ANNULAR VOLUME BBLs     |

|                |      |     |              |      |     |                     |    |                     |    |                |        |     |    |      |    |
|----------------|------|-----|--------------|------|-----|---------------------|----|---------------------|----|----------------|--------|-----|----|------|----|
| LIFT PRESSURE  | 800  | psi | BUMP PLUG TO | 2000 | psi | NO. of Centralizers | 12 | CEMENT TEMPERATURE: | 80 | WATER QUALITY: | 8.5 pH | 320 | SG | TEMP | 86 |
| PRESSURE LIMIT | 1500 | psi |              |      |     |                     |    |                     |    |                |        |     |    |      |    |

|      |              |          |     |     |               |      |     |                   |             |                 |                    |             |                 |        |            |                 |               |                 |                 |
|------|--------------|----------|-----|-----|---------------|------|-----|-------------------|-------------|-----------------|--------------------|-------------|-----------------|--------|------------|-----------------|---------------|-----------------|-----------------|
| TIME | 0001 to 2400 | PRESSURE | TBG | CSG | VOLUME PUMPED | INCR | CUM | JOB SCHEDULED FOR | TIME: 20:00 | DATE: 7/12/2010 | ARRIVE ON LOCATION | TIME: 18:00 | DATE: 7/12/2010 | RIG UP | TIME: 8:30 | DATE: 7/13/2010 | LEFT LOCATION | TIME: 7/13/2010 | DATE: 7/13/2010 |
|      |              |          |     |     |               |      |     |                   |             |                 |                    |             |                 |        |            |                 |               |                 |                 |

| TIME  | THG | CSG  | VOLUME PUMPED INCR | CUM | RATE | FLUID TYPE | DENSITY | DESCRIPTION  |
|-------|-----|------|--------------------|-----|------|------------|---------|--|
| 12:00 |     |      |                    |     |      |            |         | Pre job safety meeting.  |
| 12:27 |     | 2000 | 0.5                |     | 0.5  | H2O        | 8.3     | Test Pumps and Lines.  |
| 12:30 |     | 50   | 20                 |     | 3    | H2O        | 8.3     | Pump H2O ahead.  |
| 12:37 |     |      | 110                |     | 3    | CMT        | 12.5    | Mix and pump lead cement @ 12.5 ppg.   |
| 13:13 |     | 50   | 45                 |     | 3    | CMT        | 15      | Mix and pump tail cement @ 15 ppg.   |
| 13:28 |     |      |                    |     |      |            |         | Shut down and wash pumps and lines.  |
| 13:30 |     |      |                    |     |      |            |         | Drop top plug.   |
| 13:35 |     |      | 68.7               |     | 3    | KCL        | 8.3     | Pump displacement.   |
| 13:56 |     | 1500 |                    |     | 2    | KCL        | 8.3     | Bump plug and check floats. ( Did not hold.)   |
| 14:00 |     | 2000 |                    |     | 2    | KCL        | 8.3     | Pump again to close floats. ( Held O.K. )  |
|       |     |      |                    |     |      |            |         | Call Outs 20 Bbls 200 Psi. 50 Bbls 540 Psi 68 Bbls Final 800 Psi. Bumped @ 1500 psi. |
|       |     |      |                    |     |      |            |         | Well circulated cement at 40 bbls KCL displacement away.                             |
|       |     |      |                    |     |      |            |         | Pumped 25 bbls good cement to the pit.   |
| 14:30 |     |      |                    |     |      |            |         | Post job safety meeting.   |

| System Used | No. of Sacks | Yield ft <sup>3</sup> /sk | COMPOSITION OF SYSTEM |  | SLURRY MIXED |         |
|-------------|--------------|---------------------------|-----------------------|--|--------------|---------|
|             |              |                           |                       |  | BBLs         | DENSITY |
|             | 300          | 2.06                      | SDC                   |  | 110          | 12.5    |
|             | 200          | 1.25                      | Surface Cement        |  | 45           | 15      |

|                   |   |                    |  |                  |     |       |      |       |
|-------------------|---|--------------------|--|------------------|-----|-------|------|-------|
| CIRCULATION       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | WASHED CASING DOWN | <input type="checkbox"/> Yes <input type="checkbox"/> No | BREAKDOWN        | PSI | FINAL | 2000 | PSI   |
| DISPLACEMENT VOL. | 68.7  | BBLs               | RETURNED TO SURFACE                                      | BEFORE PLUG BUMP | 800 | PSI   | RATE | 2 BPM |
|                   |   |                    | 25 Bbls.   |                  |     |       |      |       |

