



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1315849  
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 # \_\_\_\_\_

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
- Plug Back       Conv. to GSW       Conv. to Producer
- 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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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

1315849

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 <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><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 |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><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<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: <input type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|-------|---------|------------|---|

|   |  |         |             |               |         |  |
|---|--|---------|-------------|---------------|---------|--|
| Date of First, Resumed Production, SWD or ENHR. | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |         |             |               |         |  |
| Estimated Production Per 24 Hours               | Oil Bbls.  | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |  |

|  |   |   |
|--|---|---|
| <b>DISPOSITION OF GAS:</b><br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | <b>METHOD OF COMPLETION:</b><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><br><input type="checkbox"/> Other <i>(Specify)</i> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|---|---|



Jackman Oilfield Services  
1 West Mulberry St.  
Colony, KS 66015  
620-852-3350

WELL LOG  
Lakeshore Operating, LLC  
Sturdivan 3 LOI-8

August 16, 2016

| <u>Thickness<br/>of Strata</u> | <u>Formation</u> | <u>Total</u> |    |
|--------------------------------|------------------|--------------|----|
| 3.00                           | Soil             | 3.00         |    |
| 3.00                           | Clay             | 6.00         |    |
| 3.00                           | Shale            | 9.00         |    |
| 3.00                           | Lime             | 12.00        |    |
| 11.00                          | Broken lime      | 23.00        |    |
| 15.00                          | Gray shale       | 38.00        |    |
| 4.00                           | Lime             | 42.00        |    |
| 137.00                         | Shale            | 179.00       |    |
| 16.00                          | Lime             | 195.00       |    |
| 15.00                          | Sandstone        | 210.00       |    |
| 48.00                          | Lime             | 258.00       |    |
| 6.00                           | Sandstone        | 264.00       |    |
| 11.00                          | Lime             | 275.00       |    |
| 8.00                           | Shale            | 283.00       |    |
| 134.00                         | Lime             | 417.00       |    |
| 9.00                           | Shale            | 426.00       |    |
| 70.00                          | Lime             | 496.00       |    |
| 26.00                          | Shale            | 522.00       |    |
| 136.00                         | Lime             | 658.00       |    |
| 341.00                         | Shale            | 999.00       |    |
| 2.00                           | Lime             | 1,001.00     |    |
| 7.00                           | Shale            | 1,008.00     |    |
| 7.00                           | Oil sand         | 1,015.00     |    |
| 31.00                          | Shale            | 1,046.00     |    |
| 1.00                           | Lime             | 1,047.00     |    |
| 11.00                          | Oil sand         | 1,058.00     |    |
| 22.00                          | Shale            | 1,080.00     |    |
| 2.00                           | Lime             | 1,082.00     |    |
| 10.00                          | Shale            | 1,092.00     | TD |

Drilled a 9 7/8" hole to 39.5'  
Drilled a 5 7/8" hole to 1092'

Set 40' of 7" surface casing cemented with 10 sacks of portland cement  
Ran 1085' of 2 7/8"  
No cores  
No seating nipple  
Cemented on 8/19/16

Sturdivan 3 LOI-8



**CONSOLIDATED**  
Oil Well Services, LLC

6488  
6393

808390

TICKET NUMBER 50296

LOCATION Oshtawa KS

FOREMAN Fred Maden

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

| DATE                            | CUSTOMER # | WELL NAME & NUMBER | SECTION           | TOWNSHIP | RANGE | COUNTY |
|---------------------------------|------------|--------------------|-------------------|----------|-------|--------|
| 8-19-16                         | 4807       | Sturdivan #102-P   | NW 34             | 23       | 16    | W0     |
| CUSTOMER<br>Lakeshore Operatly. |            |                    | TRUCK #           |          |       |        |
| MAILING ADDRESS<br>340 S. Laura |            |                    | DRIVER            |          |       |        |
| CITY<br>Wichita                 |            | STATE<br>KS        | ZIP CODE<br>67211 | TRUCK #  |       |        |
|                                 |            |                    |                   | DRIVER   |       |        |

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 1052 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 1056 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL. \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 2 1/2" Plug  
 DISPLACEMENT 6.3 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4BPM

REMARKS: Hold safety pump up. Establish circulation. Mix + Pump 100# Gel  
 Flush. Mix + Pump 134 SKS Por Blend IIA Cement 2% Gel  
 5# Kal Seal 1# Pheno Seal/sk. Cement to surface. Flush pump +  
 lines clean. Displace 2 1/2" Rubber plug to casing TD. Pressure  
 to 800# PSI. Monitor pressure for 30 min MIT. Release  
 pressure to set float valve.

Jackman Oil Well Services. Fred Maden

| ACCOUNT CODE   | QUANTITY or UNITS | DESCRIPTION of SERVICES or PROD |
|----------------|-------------------|---------------------------------|
| CE0450 ✓       | 1                 | ✓ PUMP CHARGE                   |
| CE0602 ✓       | 40 mi             | ✓ MILEAGE                       |
| CE0711 ✓       | Minimum           | ✓ Ton Miles Delivery            |
| WE0853 ✓       | 3 hr              | ✓ 80 BBL Vac Truck              |
|                |                   | Sub Total                       |
|                |                   | less 47%                        |
| <b>SCANNED</b> |                   |                                 |
| 1540 CC5872 ✓  | 134#              | ✓ Por Blend IIA Cement          |
| CC5965 ✓       | 330#              | ✓ Bentonite Gel                 |
| CC6077 ✓       | 670#              | ✓ Kal Seal                      |
| CC6079 ✓       | 134#              | ✓ Pheno Seal                    |
| CP8174 ✓       | 1                 | ✓ 2 1/2" Rubber Plug            |
|                |                   | Sub Total                       |
|                |                   | less 47%                        |

Rev'n 8737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the account records, at our office, and conditions of service on the back of this form are