Kansas Corporation Commission OIL & GAS CONSERVATION DIVISION

Confidentiality Requested:

Yes No

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 #                             |   | API No. 15   |  |  |  |
|---|---|--|--|--|--|
| Name:   |   | Spot Description:  |  |  |  |
| Address 1:                                      |   | SecTwpS. R   |  |  |  |
| Address 2:                                      |   | Feet from North / South Line of Section                  |  |  |  |
| City: State: 2                                  | Zip:+                                   | Feet from East / West Line of Section                    |  |  |  |
| Contact Person:                                 |   | Footages Calculated from Nearest Outside Section Corner: |  |  |  |
| Phone: ()                                       |   | □NE □NW □SE □SW  |  |  |  |
| CONTRACTOR: License #                           |   | GPS Location: Lat:, Long:                                |  |  |  |
| Name:   |   | (e.g. xx.xxxxx) (e.gxxx.xxxxx)                           |  |  |  |
| Wellsite Geologist:                             |   | Datum: NAD27 NAD83 WGS84                                 |  |  |  |
| Purchaser:                                      |   | County:  |  |  |  |
| Designate Type of Completion:                   |   | Lease Name: Well #:                                      |  |  |  |
| New Well Re-Entry                               | Workover                                | Field Name:  |  |  |  |
|   |   | Producing Formation:                                     |  |  |  |
| Oil WSW SWD                                     | SIOW                                    | Elevation: Ground: Kelly Bushing:                        |  |  |  |
| ☐ Gas ☐ D&A ☐ ENHR☐ OG ☐ GSW                    | ☐ SIGW                                  | Total Vertical Depth: Plug Back Total Depth:             |  |  |  |
| ☐ OG ☐ GSW ☐ CM (Coal Bed Methane)              | Temp. Abd.                              | Amount of Surface Pipe Set and Cemented at: Feet         |  |  |  |
| Cathodic Other (Core, Expl., etc.):             |   | Multiple Stage Cementing Collar Used? Yes No             |  |  |  |
| If Workover/Re-entry: Old Well Info as follows: |   | If yes, show depth set: Feet                             |  |  |  |
| Operator:                                       |   | If Alternate II completion, cement circulated from:      |  |  |  |
| Well Name:                                      |   | feet depth to:w/sx cmt.                                  |  |  |  |
| Original Comp. Date: Original                   |   |  |  |  |  |
| Deepening Re-perf. Conv. to I                   | _                                       | Drilling Fluid Management Plan                           |  |  |  |
|   | GSW Conv. to Producer                   | (Data must be collected from the Reserve Pit)            |  |  |  |
|   | _                                       | Chloride content:ppm Fluid volume:bbls                   |  |  |  |
|   |   | Dewatering method used:                                  |  |  |  |
|   |   | Dewatering method dood.                                  |  |  |  |
|   |   | Location of fluid disposal if hauled offsite:            |  |  |  |
|   |   | Operator Name:   |  |  |  |
| GSW Permit #:                                   |   | Lease Name: License #:                                   |  |  |  |
| Canad Data as Data Data LTD                     | Completion Data are                     | Quarter Sec TwpS. R                                      |  |  |  |
| Spud Date or Date Reached TD Recompletion Date  | Completion Date or<br>Recompletion Date | 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 Approved by: Date: |  |  |  |  |  |



1317657 CORRECTION #1

| Operator Name:   |   |                                | Lease N                     | ame:   |                   |                        | _Well #:  |                               |
|--|---|--------------------------------|-----------------------------|--|-------------------|------------------------|---|-------------------------------|
| Sec Twp  | S. R  | East West                      | County:                     |  |                   |                        |   |                               |
| INSTRUCTIONS: Show open and closed, flowing and flow rates if gas to s                     | g and shut-in pressur   | res, whether shut-in բ         | oressure reach              | ed static lev  | el, hydrosta      | tic pressures, bot     |   |                               |
| Final Radioactivity Log, files must be submitted   |   |                                |                             |  | nust be ema       | iled to kcc-well-lo    | ogs@kcc.ks.go   | v. Digital electronic log     |
| Drill Stem Tests Taken (Attach Additional Sho  | eets)   | Yes No                         |                             | Log  | Formation         | on (Top), Depth a      |   | Sample                        |
| Samples Sent to Geolog   | gical Survey  | ☐ Yes ☐ No                     |                             | Name   |                   |                        | Тор   | Datum                         |
| Cores Taken<br>Electric Log Run  |   | Yes No                         |                             |  |                   |                        |   |                               |
| List All E. Logs Run:  |   |                                |                             |  |                   |                        |   |                               |
|  |   | CASIN<br>Report all strings se | IG RECORD et-conductor, sur | New face, interme  | Used              | on, etc.               |   |                               |
| Purpose of String  | Size Hole<br>Drilled  | Size Casing<br>Set (In O.D.)   | Weigh<br>Lbs. / I           | nt   | Setting<br>Depth  | Type of Cement         | # Sacks<br>Used                                       | Type and Percent<br>Additives |
|  |   |                                |                             |  |                   |                        |   |                               |
|  |   | ADDITION                       | AL CEMENTIN                 | G / SOLIFE:  | ZE BECORD         |                        |   |                               |
| Purpose:   | Depth   | Type of Cement                 | # Sacks U                   |  | L NECOND          | Type and F             | Percent Additives                                     |                               |
| Perforate Protect Casing Plug Back TD  | Top Bottom  | Type of comon                  | " Cache C                   | Type and referring and referri |                   | Crock / Additives      |   |                               |
| Plug Off Zone  |   |                                |                             |  |                   |                        |   |                               |
| Did you perform a hydraulic<br>Does the volume of the tota<br>Was the hydraulic fracturing | l base fluid of the hydra   | ulic fracturing treatment      |                             |  | Yes [ Yes [ Yes [ | No (If No, sk          | ip questions 2 ar<br>ip question 3)<br>out Page Three | •                             |
| Shots Per Foot   | hots Per Foot PERFORATION RECORD - Bridge Plugs S<br>Specify Footage of Each Interval Perfora |                                |                             |  |                   |                        | d Depth   |                               |
|  |   |                                |                             |  |                   |                        |   |                               |
|  |   |                                |                             |  |                   |                        |   |                               |
| TUBING RECORD:   | Size:   | Set At:                        | Packer At:                  | Liı  | ner Run:          | Yes No                 |   |                               |
| Date of First, Resumed Pr  | oduction, SWD or ENHI   | R. Producing M                 | lethod:                     | Gas  | Lift C            | Other (Explain)        |   |                               |
| Estimated Production<br>Per 24 Hours   | Oil Bb  | ols. Gas                       | Mcf                         | Water  | В                 | bls. (                 | Gas-Oil Ratio   | Gravity                       |
| DISPOSITION  | I OF GAS:   |                                | METHOD OF (                 | COMPLETIO  | N:                |                        | PRODUCTION  | ON INTERVAL:                  |
| Vented Sold  | Used on Lease   | Open Hole                      | Perf.                       | Dually Cor   | np. Cor           | nmingled<br>mit ACO-4) |   |                               |
| (If vented, Subm   | it ACO-18.)   | Other (Specify)                |                             | , Jasiiii AOO-   |                   |                        |   |                               |

| Form      | ACO1 - Well Completion            |
|-----------|-----------------------------------|
| Operator  | Birk, Brian L. dba Birk Petroleum |
| Well Name | Sutherland 20                     |
| Doc ID    | 1317657                           |

# Casing

| Purpose<br>Of String | Size Hole<br>Drilled | Size<br>Casing<br>Set | Weight | Setting<br>Depth | Type Of<br>Cement |     | Type and<br>Percent<br>Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|-----|----------------------------------|
| Surface casing       | 9.875                | 7.0                   | 17     | 41               | Portland          | 10  | Calcium                          |
| Long<br>String       | 5.875                | 2.875                 | 6.5    | 1156             | Portland          | 130 |                                  |
|                      |                      |                       |        |                  |                   |     |                                  |
|                      |                      |                       |        |                  |                   |     |                                  |

# **Summary of Changes**

Lease Name and Number: Sutherland 20

API/Permit #: 15-031-23979-00-00

Doc ID: 1317657

Correction Number: 1

Approved By: Karen Ritter

| Field Name    | Previous Value                                   | New Value  |
|---------------|--|--|
| Approved By   | NAOMI JAMES                                      | Karen Ritter                                     |
| Approved Date | 11/13/2014                                       | 09/23/2016                                       |
| Save Link     | //kcc/detail/operatorE<br>ditDetail.cfm?docID=12 | //kcc/detail/operatorE<br>ditDetail.cfm?docID=13 |
| Well Type     | 31410<br>EOR                                     | 17657<br>OIL                                     |