



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215368  
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: \_\_\_\_\_

1215368

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|--|---|



**CONSOLIDATED**  
Oil Well Services, LLC

268389

TICKET NUMBER 47252

LOCATION Attawa

FOREMAN Alan 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 |
|---------|------------|--------------------|---------|----------|-------|--------|
| 5-21-14 | 4448       | Jorckel KAF-58     | SW 13   | 17       | 22    | M:     |

CUSTOMER  
Kansas Resources E&D  
MAILING ADDRESS  
9393 W 110th  
CITY  
Overland Park STATE  
Ks ZIP CODE  
66210

| TRUCK # | DRIVER   | TRUCK # | DRIVER |
|---------|----------|---------|--------|
| 730     | Alan Mad | Safety  | Mitch  |
| 368     | Art McD  |         |        |
| 369     | Mik Hag  |         |        |
| 503     | He: Car  |         |        |

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 733 CASING SIZE & WEIGHT 2 7/8  
 CASING DEPTH 723.1 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER 691.3 6F  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
 DISPLACEMENT 4 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm  
 REMARKS: held meeting. Established rate. Mixed + pumped 100# gel followed by 95 sk 50/50 cement plus 2% gel + 1/2# Phenoseal per sack. Circulated cement. Flushed pump. Pumped plug to bubble. Well held 800 PSI set floats.

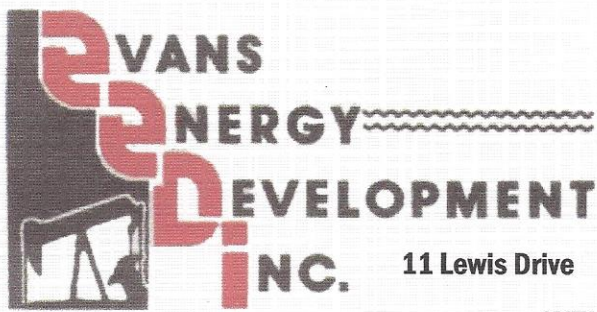
Evans, Mitchell  
Alan Maden

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL   |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401         | 1                 | PUMP CHARGE                        | 368             | 1085.00 |
| 5406         | 25                | MILEAGE                            | 368             | 105.00  |
| 5402         | 723.1             | casing footage                     | 368             |         |
| 5407         | 1/2 min           | for miles                          | 503             | 184.00  |
| 5502C        | 1 1/2             | 80 gal                             | 369             | 150.00  |
| 1124         | 95                | 50/50 cement                       | 1092.50         | ✓       |
| 1180         | 260#              | gel                                | 57.20           | ✓       |
| 1107A        | 48#               | Phenoseal                          | 64.80           | ✓       |
|              |                   | material sub                       | 1214.50         |         |
|              |                   | less 30%                           | -364.35         | ✓       |
|              |                   | Material total                     |                 | 850.15  |
| 4402         | 1                 | 2 1/2 plug                         |                 | 29.50   |
|              |                   |                                    | 2863.18         | ✓       |
|              |                   |                                    | SALES TAX       | 67.31   |
|              |                   |                                    | ESTIMATED TOTAL | 2470.96 |

Ravin 3737

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

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



11 Lewis Drive Paola, KS 66071

**Oil & Gas Well Drilling  
Water Wells  
Geo-Loop Installation**

Phone: 913-557-9083  
Fax: 913-557-9084

**WELL LOG**

Kansas Resource Exploration & Development, LLC  
Joeckel #KRI-58  
API # 15-121-30,342  
May 20 - May 21, 2014

| <u>Thickness of Strata</u> | <u>Formation</u> | <u>Total</u>  |
|----------------------------|------------------|---|
| 25                         | soil & clay      | 25  |
| 31                         | shale            | 56  |
| 22                         | lime             | 78  |
| 11                         | shale            | 89  |
| 6                          | lime             | 95  |
| 37                         | shale            | 132   |
| 14                         | lime             | 146   |
| 4                          | shale            | 150   |
| 19                         | lime             | 169   |
| 1                          | shale            | 170   |
| 14                         | lime             | 184   |
| 6                          | shale            | 190   |
| 21                         | lime             | 211   |
| 3                          | shale            | 214   |
| 16                         | lime             | 230 base of the Kansas City                         |
| 24                         | shale            | 254   |
| 3                          | sand             | 257 green sand, light gas odor                      |
| 117                        | shale            | 374   |
| 2                          | broken sand      | 376 60% brown sand 40% shale light bleeding         |
| 7                          | oil sand         | 383 hard limey oil sand, light bleeding             |
| 3                          | lime             | 386 no show   |
| 5                          | broken sand      | 391 80% brown sand 20% shale, good bleeding         |
| 2                          | oil sand         | 393 brown sand, good bleeding                       |
| 1                          | broken sand      | 394 40% brown sand 60% shale, good bleeding         |
| 1                          | lime             | 395   |
| 2                          | broken sand      | 397 50% shale 50% brown sand, ok bleeding           |
| 1                          | lime             | 398   |
| 1                          | oil sand         | 399 brown sand, good saturation, very good bleeding |
| 2                          | broken sand      | 401 70% brown sand 30% shale, good bleeding         |
| 10                         | shale            | 411   |
| 3                          | lime             | 414 no oil  |
| 1                          | shale            | 415   |
| 2                          | lime             | 417 minimal show                                    |
| 5                          | lime             | 422 some porosity, good bleeding                    |
| 5                          | lime             | 427 minimal oil show                                |
| 33                         | shale            | 460   |
| 7                          | lime             | 467 light brown, makes water, light oil show        |
| 15                         | shale            | 482   |
| 4                          | lime             | 486   |
| 15                         | shale            | 501   |

|     |             |   |
|-----|-------------|---|
| 4   | lime        | 505   |
| 31  | shale       | 536   |
| 5   | lime        | 541   |
| 13  | shale       | 554   |
| 1   | lime        | 555   |
| 20  | shale       | 575   |
| 5   | oil sand    | 580 brown, ok bleeding                          |
| 13  | sand        | 593 light brown, no show                        |
| 14  | sand        | 607 brown & grey, no oil                        |
| 4   | shale       | 611   |
| 1   | coal        | 612   |
| 15  | shale       | 627   |
| 1   | broken sand | 628 50% sand 50% shale, light bleeding          |
| 1   | silty shale | 629   |
| 4   | broken sand | 633 50% sand 50% shale, light bleeding          |
| 1   | lime/shale  | 634   |
| 12  | silty shale | 646   |
| 1   | broken sand | 647 95% brown sand, 5% shale, ok bleeding       |
| 1   | oil sand    | 648 brown sand, minimal bleeding                |
| 1.5 | broken sand | 649.5 80% sand 20% shale, minimal bleeding      |
| 2.5 | oil sand    | 652 light brown, minimal bleeding               |
| 1   | lime        | 653   |
| 6   | oil sand    | 659 brown sand, good bleeding                   |
| 7   | oil sand    | 666 dark brown & black sand, very good bleeding |
| 8   | oil sand    | 674 black soft sand, very good                  |
| 36  | shale       | 710   |
| 1   | coal        | 711   |
| 22  | shale       | 733 TD  |

Drilled a 9 7/8" hole to 30.1'

Drilled a 5 5/8" hole to 733'

Set 30.1' of 7" surface casing threade and coupled cemented with 5 sacks of cement

Set 723.10' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.

Baffle set 31.8' from bottom of tally.

**Core Times**

|     | <u>Minutes</u> | <u>Seconds</u> |
|-----|----------------|----------------|
| 648 |                | 44             |
| 649 |                | 40             |
| 650 |                | 35             |
| 651 | 1              | 25             |
| 652 | 1              | 32             |
| 653 |                | 44             |
| 654 |                | 34             |
| 655 |                | 33             |
| 656 | 1              | 28             |
| 657 |                | 44             |
| 658 |                | 44             |
| 659 |                | 41             |
| 660 |                | 43             |
| 661 |                | 47             |
| 662 |                | 41             |
| 663 |                | 43             |
| 664 |                | 42             |
| 665 |                | 40             |
| 666 |                | 16             |