



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1305294
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 Recompletion Date | Date Reached TD | Completion Date or 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: _____

1305294

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: _____ _____ |
|--|---|---|

Miami County, KS
Well: Knoche #14
Lease Owner: Keith Crawford

Town Oil Company, Inc.
(913) 294-2125

Commenced Spudding:
6/20/2011

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---------------------|-----------------|-------------|
| 14 | Soil and Clay | 14 |
| 32 | Shale | 46 |
| 8 | Lime | 54 |
| 13 | Shale | 67 |
| 32 | lime | 99 |
| 7 | slate and shale | 106 |
| 20 | lime | 126 |
| 4 | slate and shale | 130 |
| 3 | Lime | 133 |
| 3 | slate and shale | 136 |
| 6 | Lime | 142 |
| 5 | slate and shale | 147 |
| 1 | Lime | 148 |
| 6 | sandy shale | 154 |
| 17 | Shale | 171 |
| 91 | sandy shale | 262 |
| 3 | slate and shale | 265 |
| 32 | sandy shale | 297 |
| 8 | sand | 305 |
| 5 | lime | 310 |
| 18 | sandy shale | 328 |
| 2 | lime | 330 |
| 15 | Shale | 345 |
| 7 | Lime | 352 |
| 12 | slate and shale | 364 |
| 2 | Lime | 366 |
| 2 | Shale | 368 |
| 2 | coal | 370 |
| 5 | shale | 375 |
| 8 | Lime | 383 |
| 15 | Shale | 398 |
| 6 | Lime | 404 |
| 9 | Shale | 413 |
| 25 | Lime | 438 |
| 7 | Shale | 445 |
| 3 | Lime | 447 |
| 66 | Shale | 513 |
| 1 | sand | 514 |

| Core Time Elapsed | Feet | Depth | Time |
|----------------------|------|-------|------|
| 31 | 1 | 513 | 31 |
| 38 | 2 | 514 | 1:09 |
| 30 | 3 | 515 | 1:39 |
| 34 | 4 | 516 | 2:13 |
| 32 | 5 | 517 | 2:45 |
| 30 | 6 | 518 | 3:15 |
| 34 | 7 | 519 | 3:49 |
| 36 | 8 | 520 | 4:26 |
| 38 | 9 | 521 | 5:04 |
| 35 | 10 | 522 | 5:39 |
| 30 | 11 | 523 | 6:09 |
| 36 | 12 | 524 | 6:45 |
| 35 | 13 | 525 | 7:20 |
| 33 | 14 | 526 | 7:53 |
| 39 | 15 | 527 | 8:32 |
| 39 | 16 | 528 | 9:11 |
| 39 | 17 | 529 | 9:50 |
| | 18 | 530 | |
| | 19 | 531 | |
| | 20 | 532 | |



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 32631

LOCATION Ottawa 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 |
|-------------------------------|------------|--------------------|---------|----------|--------|--------|
| 6/22/11 | 2571 | Knoche #14 | NW 14 | 16 | 24 | M1 |
| CUSTOMER | | | | | | |
| Crawford O:1 (Keith Crawford) | | | | | | |
| MAILING ADDRESS | | | | | | |
| 30842 Indianapolis Rd | | | | | | |
| CITY | STATE | ZIP CODE | | | | |
| Paola | KS | 66071 | | | | |
| TRUCK # DRIVER TRUCK # DRIVER | | | | | | |
| | | | 506 | Fred | Safety | WJG |
| | | | 368 | Harold | NJB | |
| | | | 523 | Tim | TL | |

JOB TYPE Long string HOLE SIZE 5 5/8 HOLE DEPTH 562 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 554 DRILL PIPE Pm @ TUBING 549 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 5' x Plug
 DISPLACEMENT 3.2 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Establish Circulation. Mix Pump 100 # Premium Gel Flush.
Mix Pump 72 sks 50/50 Por Mix Cement 2% Gel.
Cement to Surface. Flush pump & lines clean. Displace
2 1/2" Rubber plug to piston casing w/ 3.2 BBL Fresh Water
Pressure to 900 PSI. Hold pressure for 30 min MIT.
Release pressure to set float valve. Shut in casing

Rig Supplied Water
from Drilling

Fred Maden

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|--------------------|
| 5401 | 1 | PUMP CHARGE | | 975 ⁰⁰ |
| 5406 | 40 mi | MILEAGE | | 160 ⁰⁰ |
| 5402 | 554 | Casing footage | | N/C |
| 5407 | Minimum | 1000 Miles | | 330 ⁰⁰ |
| 1124 | 72 sks | 50/50 Por Mix Cement | | 752 ⁰⁰ |
| 118B | 221 ⁰⁰ | Premium Gel | | 442 ⁰⁰ |
| 4402 | 1 | 2 1/2" Rubber Plug | | 25 ⁰⁰ |
| | | | | WD # 242.15.3 |
| | | | | 7.55 ⁰⁰ |
| | | | SALES TAX | 62 ⁰⁰ |
| | | | ESTIMATED TOTAL | 2351 ⁰⁰ |

SCANNED

Revin 3737

AUTHORIZATION Scott Hickland

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