

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1221318

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 🗌 East 🗌 West |
| Address 2: | Feet from |
| City: State: 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: |
| 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: | Producing Formation: Elevation: Ground: Kelly Bushing: Feet Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No 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 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 #: | 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: |
| ☐ ENHR Permit #: ☐ GSW Permit #: | Operator Name: |
| | Lease Name: License #: |
| Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date | 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: | | | | |

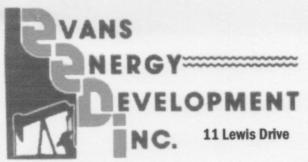


| Operator Name: | | | Lease Name: _ | | | Well #: | |
|---|-----------------------------|---|--------------------------|-------------------|---|---------------------------------|-------------------------------|
| Sec Twp | S. R | East West | County: | | | | |
| open and closed, flow | ring and shut-in pressu | ormations penetrated. Eures, whether shut-in predict final chart(s). Attach | essure reached stati | c level, hydrosta | atic pressures, bott | | |
| | | otain Geophysical Data a or newer AND an image | | ogs must be ema | ailed to kcc-well-lo | gs@kcc.ks.go | v. Digital electronic log |
| Drill Stem Tests Taken (Attach Additional S | | Yes No | | | on (Top), Depth an | | Sample |
| Samples Sent to Geol | logical Survey | Yes No | Nam | е | | Тор | Datum |
| Cores Taken Electric Log Run | | Yes No | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | CASING | RECORD Ne | ew Used | | | |
| | | | conductor, surface, inte | | ion, 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 / SQL | JEEZE RECORD | | | |
| Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone | Depth Top Bottom | Type of Cement | # Sacks Used | | Type and P | ercent Additives | |
| Did you perform a hydrau | ulic fracturing treatment o | n this well? | | Yes | No (If No, ski | p questions 2 aı | nd 3) |
| Does the volume of the to | otal base fluid of the hydr | aulic fracturing treatment ex | _ | = : | No (If No, ski | p question 3) out Page Three | |
| Shots Per Foot | PERFORATIO Specify F | N RECORD - Bridge Plug ootage of Each Interval Per | s Set/Type forated | | cture, Shot, Cement mount and Kind of Ma | | d Depth |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: | Yes No | | |
| Date of First, Resumed | Production, SWD or ENH | HR. Producing Meth | | Gas Lift (| Other (Explain) | | |
| Estimated Production Per 24 Hours | Oil E | Bbls. Gas | Mcf Wate | er B | bls. G | as-Oil Ratio | Gravity |
| DISPOSITIO | ON OF GAS: | Open Hole | | Comp. Comp. | mmingled | PRODUCTIO | ON INTERVAL: |
| | bmit ACO-18.) | Other (Specify) | (Submit) | 4CO-5) (Sub | omit ACO-4) | | |

| Form | ACO1 - Well Completion |
|-----------|------------------------|
| Operator | Tailwater, Inc. |
| Well Name | North Kempnich 52-T |
| Doc ID | 1221318 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|----|----------------------------------|
| Surface | 9.8750 | 7 | 17 | 22 | Portland | 5 | |
| Completio n | 5.6250 | 2.8750 | 6.45 | 646 | Portland | 95 | 50/50 POZ |
| | | | | | | | |
| | | | | | | | |



Oil & Gas Well Drilling Water Wells Geo-Loop Installation

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

Paola, KS 66071

WELL LOG

Tailwater, Inc. North Kempnich #52-T API #15-003-26,260 August 5 - August 6, 2014

| Thickness of Strata | Formation | Total |
|---------------------|---------------|----------------------------------|
| 5 | soil & clay | 5 |
| 7 | clay & gravel | 12 |
| 6 | clay | 18 |
| 50 | shale | 68 |
| 31 | lime | 99 |
| 5 | shale | 104 |
| 4 | lime | 108 |
| 62 | shale | 170 |
| 9 | lime | 179 |
| 7 | shale | 186 |
| 34 | lime | 220 |
| 7 | shale | 227 |
| 22 | lime | 249 |
| 3 | shale | 252 |
| 22 | lime | 274 base of the Kansas City |
| 31 | shale | 305 |
| 39 | sand | 344 grey, no oil |
| 105 | shale | 449 |
| 4 | lime | 453 |
| 4 | shale | 457 |
| 8 | lime | 465 oil show |
| 15 | shale | 480 |
| 10 | oil sand | 490 green, good bleeding |
| 1 | coal | 491 |
| 4 | shale | 495 |
| 15 | oil sand | 510 green, good bleeding |
| 4 | shale | 514 |
| 1 | coal | 515 |
| 6 | shale | 521 |
| 7 | lime | 528 |
| 14 | shale | 542 |
| 4 | lime | 546 |
| 19 | shale | 565 |
| 13 | lime | 578 |
| 18 | shale | 596 |
| 4 | lime | 600 |
| 23 | shale | 623 |
| 0.5 | broken sand | 623.5 brown & green 90% bleeding |

| 5 | oil sand | 628.5 brown 90% bleeding |
|-----|-------------|--------------------------------|
| 0.5 | broken sand | 629 brown & green 80% bleeding |
| 23 | shale | 652 TD |

Drilled a 9 7/8" hole to 21.6' Drilled a 5 5/8" hole to 652'

Set 21.6' of 7" surface casing threaded and coupled cemented with 5 sacks of cement.

Set 646.2' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.

Core Times

| | Minutes | Seconds |
|-----|---------|---------|
| 624 | | 38 |
| 625 | | 30 |
| 626 | | 35 |
| 627 | | 33 |
| 628 | | 31 |
| 629 | | 30 |
| 630 | | 27 |
| 631 | | 31 |
| 632 | | 26 |
| 633 | | 34 |
| 634 | | 39 |
| 635 | | 38 |
| 636 | | 28 |
| 637 | | 29 |
| 638 | | 30 |
| | | |

Harricane Services, Inc. 104 Prairie Plaza Parkway Garnett, KS 66032 Office # 785-448-3100 Toll Free # 855-718-8027



| Ticket | No. | 50267 |
|-----------|------|---------|
| Location_ | Gar | Nett, |
| Foreman_ | Dury | ne/ Joe |

Cement Service ticket

| Date | Customer# | Well Name & Number | Sec./T | ownship/Range | County |
|----------|---------------|---------------------|--------|---------------|----------|
| 8/6/14 | | North Kempnich #52- | 7 | | Andorson |
| Customer | oil Propertus | Mailing Address | City | State | Zip |

| Martinoil Prope | 147 | | | |
|------------------|-------------------------------------|---|-----------------|----------------------------|
| ob Type: | | | Truck # | Driver |
| Long String | Casing Size: 2 1/2 | | 231 | Alex |
| lole Size: 5 5 | Casing Size: 2 1/2 | Displacement: 3, 75 | 242 | Danny |
| ole Size: 5 S | Casing Weight: | Displacement PSI: 400 BI | | Tom |
| ridge Plug: | Tubing: | Cement Left in Casing: | 25 | Dwayne : |
| acker: | PBTD: | | | 7 |
| uantity Or Units | Description of | Servcies or Product | Pump charge | 790 00 |
| 5 mi | Mileage Cement | Pump | \$3.25/Mile | nt |
| 5 m: | Forman Picky | if ! | 1.5 m | rik |
| 95 Sack | 5 50 /50 Poz | nix | 11.30 5% | 1073 50 |
| 164 46 | 7 | 2% | . 30 16 | 49, 20 |
| 200 66 | | =1454 | 130 46 | 6000 |
| 24 46 | Flo Seal | | 2.15 | 5160 |
| 3700 Gal | City Water | | 1.3 Fgg/ | 15750 |
| 1,5 hr | City Water Water TRuck | × - | 105 hr | 15750 |
| | Ok at 1 | 573 | 1 | |
| 3, 99 Tons | Bulk Truck Min (| Delivery 6 | \$1.15/Mile | 3000 |
| 1 | Plugs 2 = 70 | Rubben Plug | 2500 | 25 66 |
| | | , ago | Subtotal | 2554 90 |
| | | 7.8% | Sales Tax | 101 98 |
| | | | Estimated Total | al 3656 80 |
| Gel Flush ! | Extraved By 20 B, CKS OF Cement, | Stablish Circulations of water and The Stop and Flush and Set Float | Pump | 10 DBrl Leement Then |
| In well of | PSE | | | |
| Tha | iks forthe | Less 5% Pay | AFter Jo | 6-2524 |
| 24 1 2011) | , | Custo | mar Signatura | |

(Rev. 1-2011)

Customer Signature