

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1105608

Form ACO-1 June 2009 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: | |
| Address 2: | Feet from North / South Line of Section |
| City: State: Zip:+ | Feet from Cast / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | |
| CONTRACTOR: License # | County: |
| Name: | Lease Name: Well #: |
| Wellsite Geologist: | Field Name: |
| Purchaser: | Producing Formation: |
| | |
| Designate Type of Completion: | Elevation: Ground: Kelly Bushing: |
| New Well Re-Entry Workover | Total Depth: Plug Back Total Depth: |
| | Amount of Surface Pipe Set and Cemented at: Feet |
| Gas D&A ENHR SIGW | Multiple Stage Cementing Collar Used? Yes No |
| OG GSW Temp. Abd. | If yes, show depth set: Feet |
| CM (Coal Bed Methane) | If Alternate II completion, cement circulated from: |
| Cathodic Other (Core, Expl., etc.): | feet depth to:w/sx cmt. |
| If Workover/Re-entry: Old Well Info as follows: | · · · · · · · · · · · · · · · · · · · |
| Operator: | Drilling Fluid Monogoment Plan |
| Well Name: | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| Original Comp. Date: Original Total Depth: | |
| Deepening Re-perf. Conv. to ENHR Conv. to SWD | Chloride content: ppm Fluid volume: bbls |
| Conv. to GSW | Dewatering method used: |
| Plug Back: Plug Back Total Depth | Location of fluid disposal if hauled offsite: |
| Commingled Permit #: | Operator Name: |
| Dual Completion Permit #: | |
| SWD Permit #: | Lease Name: License #: |
| ENHR Permit #: | Quarter Sec Twp S. R East West |
| GSW Permit #: | County: Permit #: |
| | |
| Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date | |

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 |
|------------------------------------|
| Letter of Confidentiality Received |
| Date: |
| Confidential Release Date: |
| Wireline Log Received |
| Geologist Report Received |
| UIC Distribution |
| ALT I II III Approved by: Date: |

| | Side Two | 1105608 |
|-------------------------|-------------|---------|
| Operator Name: | Lease Name: | Well #: |
| Sec TwpS. R East _ West | County: | |
| | | |

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| Drill Stem Tests Taken (Attach Additional She | eets) | Yes No | | - | n (Top), Depth an | | Sample |
|---|----------------------|---------------------------------------|----------------------------|--------------------|-------------------|-----------------|-------------------------------|
| Samples Sent to Geolog | ical Survey | Yes No | Nan | ie | | Тор | Datum |
| Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy) | Electronically | <pre>Yes □ No Yes □ No Yes □ No</pre> | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | CASIN | G RECORD | ew Used | | | |
| | | Report all strings se | et-conductor, surface, int | ermediate, product | 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 / SQUEEZE RECORD

| Purpose: Perforate | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|-----------------------------|---------------------|----------------|--------------|----------------------------|
| Protect Casing Plug Back TD | | | | |
| Plug Off Zone | | | | |

| Shots Per Foot | | PERFORATION Specify For | RECOF | RD - Bridge P Each Interval F | lugs Set/Typ Perforated | e | | | ement Squeeze Record of Material Used) | Depth |
|--------------------------------------|----------|----------------------------|---------|----------------------------------|----------------------------|---------------------|-----------------|------------------------------|---|---------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | Siz | ze: | Set At: | | Packe | r At: | Liner R | un: | No | |
| Date of First, Resumed | Product | ion, SWD or ENHF | ł. | Producing M | lethod: | ping | Gas Lift | Other (Explain) | | |
| Estimated Production Per 24 Hours | | Oil Bb | s. | Gas | Mcf | Wate | er | Bbls. | Gas-Oil Ratio | Gravity |
| | | | | | | | | | | |
| DISPOSITIO | ON OF (| BAS: | | | METHOD | OF COMPLE | TION: | | PRODUCTION INT | ERVAL: |
| Vented Sold | | Jsed on Lease | | Open Hole | Perf. | Uually (Submit) | Comp. ACO-5) | Commingled (Submit ACO-4) | | |
| (If vented, Sul | bmit ACC |)-18.) | | Other (Specify) | | | | | | <u></u> |

Miami County, KS Well: Haddock 4 Lease Owner: TOC

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---------------------|-------------|-------------|
| 4 | Soil-Clay | 4 |
| 12 | Lime | 16 |
| 20 | Shale | 36 |
| 8 | Lime | 44 |
| 6 | Red Bed | 50 |
| 37 | Shale | 87 |
| 13 | Lime | 99 |
| 13 | Shale | 112 |
| 28 | Lime | 140 |
| 8 | Shale | 148 |
| 23 | Lime | 171 |
| 6 | Shale | 177 |
| 3 | Lime | 180 |
| 2 | Shale | 182 |
| 5 | Lime | 187 |
| 109 | Shale | 296 |
| 28 | Sandy Shale | 324 |
| 4 | Red Bed | 328 |
| 23 | Lime | 351 |
| 14 | Lime | 365 |
| 5 | Shale | 370 |
| 8 | Sandy Lime | 378 |
| 34 | Shale | 412 |
| 4 | Lime | 416 |
| 17 | Shale | 433 |
| 3 | Lime | 436 |
| 14 | Shale | 450 |
| 7 | Lime | 457 |
| 20 | Shale | 477 |
| 3 | Lime | 480 |
| 1 | Shale | 481 |
| 4 | Sand | 485 |
| 2 | Lime | 487 |
| 6 | Sandy Shale | 493 |
| 5 | Sand | 498 |
| 62 | Sandy Shale | 560 |
| 4 | Sand | 564 |
| 18 | Sandy Shale | 582-TD |
| | | |

Miami County, KS Well: Haddock 4 Town Oilfield Service, Inc. Commenced Spudding: (913) 837-8400 10/12/2012

| | Oil Well Services, LLC | | | | <u>Ottaw</u> | <u> </u> |
|---|---|--|-----------------------|--|--------------|---|
| | | FIELD TICKET & TI | | FOREMAN | Han_ | [Vlade |
| 20-431=9210 | or 800-467-8676 | CE | MENT | UKI | | |
| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNT |
| D. 16 12 | 7823 Hadd | ock #4 | WW 24 | 18 | 21 | Mi |
| Town | 0:1 | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| AILING ADDRI | W 287 th | | 516 | Ala Mad | Safet | Mee |
| ITY | STATE | ZIP CODE | 523 | Den Det | DD | |
| Paola | KS | 66071 | | | | |
| B TYPE | 7 7 | | | CASING SIZE & V | | 7/8 |
| SING DEPTH | | | | | OTHER Pig | <u>v</u> ue |
| URRY WEIGH | | | gal/sk | CEMENT LEFT in | CASING 1 | <u> </u> |
| PLACEMENT | 3 | | 200 | RATE 7 | pm | |
| MARKS: 170 | eld meeting | 2. Establis | hed rate. | Mixed | + pun | ped |
| OD ^{tt} e | el follower | 2 6, 92 10 | 1 50150 r | sement | - plus | 20% |
| 1 20 | Cark Cic | Culto D C | eurent. | Flushed | 1 | |
| 2 per | GUCH | Charlen - | ewienr. | Provie C | - pagen | <u> </u> |
| Fring | tel plug + | o pin. W | ell neia | <u>SDD PC</u> | SI. | |
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| 10. 70. | un Scott un Water | · · · · · · · · · · · · · · · · · · · | | Alm | Mad | en la |
| | un water | DESCRIPTIC | | / · / · · · · · · · · · · · · · · · · · | | |
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| To. | un water | DESCRIPTIC PUMP CHARGE | DN of SERVICES or PRO | / · / · · · · · · · · · · · · · · · · · | | тотац 1030, с |
| | un water | | DN of SERVICES or PRÓ | / · / · · · · · · · · · · · · · · · · · | | 1030.6 |
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| 70. CODE 5401 5402 | QUANITY OF UNITS | PUMP CHARGE MILEAGE | optace | рист 368 Эсв | | 1030.0 80.00 |
| To. ACCOUNT CODE 5401 5401 5406 | QUANITY or UNITS | PUMP CHARGE MILEAGE | optace | DUCT 368 368 368 | | 1030.0 80.00 |
| 70. CODE 5401 5402 | QUANITY or UNITS | PUMP CHARGE MILEAGE | optace | DUCT 368 368 368 | | 1030.0 80.00 |
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AUTHORIZTION___

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.

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