



KANSAS CORPORATION COMMISSION 1090311
OIL & GAS CONSERVATION DIVISION

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 # 5682
Name: Hughes Drilling Co, a General Partnership
Address 1: 122 MAIN
Address 2: _____
City: WELLSVILLE State: KS Zip: 66092 + 8522
Contact Person: Caly Hughes
Phone: (785) 883-2235
CONTRACTOR: License # 5682
Name: Hughes Drilling Co, a General Partnership
Wellsite Geologist: NA
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| <u>6/29/2012</u> | <u>7/3/2012</u> | <u>8/10/2012</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-059-25816-00-00

Spot Description: _____

S2 NE SW Sec. 33 Twp. 15 S. R. 20 East West

1650 Feet from North / South Line of Section

3300 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Franklin

Lease Name: Lutter Well #: I-5

Field Name: Norwood

Producing Formation: Mississippi

Elevation: Ground: 955 Kelly Bushing: 0

Total Depth: 775 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 24 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: 24 w/ 9 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 bbls

Dewatering method used: Evaporated

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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garrison Date: 08/21/2012



1090311

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: Lutter Well #: I-5
 Sec. 33 Twp. 15 S. R. 20 East West County: Franklin

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: GammaRay/Neutron/CCL | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum GammaRay |
|--|---|

| CASING RECORD <input checked="" 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 |
| Surface | 9 | 7 | 10 | 24 | Portland | 9 | 50/50 POZ |
| Completion | 5.6250 | 2.8750 | 8 | 760 | Portland | 94 | 50/50 POZ |
| | | | | | | | |

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

| 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 |
|----------------|---|--|-------|
| 3 | 714.0-722.0 | 2" DML RTG | 8 |
| | | | |
| | | | |
| | | | |

| | | | |
|---|-----------|---|-----------------------------------|
| 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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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> <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: _____ _____ |
|---|---|--|

Sec. 33, Twp. 15, Rng. 20
 Franklin Co., Kansas
 16.0 FSL 3300 FEL
 API # 15-659-25816-00-00

HUGHES DRILLING REPORT

Well No. I-5
 Farm: Luther
 SURFACE CASING
 Size: ~~7"~~ 7 1/2"
 Feet: 24.40
 Circulated 9 sx cement

PERMANENT CSG.
 Size: 2 7/8" galv (New)
 Feet: 760.10 of pipe
 Bolt cut 754.10

OPERATOR Hughes Drilling
 T. D. at Completion 775
 Contractor HUGHES DRILLING CO.

| STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|-------------------|----------------|
| 2 | soil | 2 |
| 20 | clay | 20 |
| 44 | shale | 66 |
| 5 | lime | 71 |
| 3 | shale | 74 |
| 16 | lime | 90 |
| 10 | shale | 100 |
| 10 | lime | 110 |
| 3 | shale | 113 |
| 20 | lime | 133 |
| 32 | shale | 165 |
| 19 | lime | 184 |
| 27 | shale | 261 |
| 20 | lime | 281 |
| 20 | shale | 301 |
| 8 | lime | 309 |
| 31 | shale | 340 |
| 18 | lime | 358 |
| 13 | shale | 371 |
| 30' | 26 lime | 397 |
| 5 | shale | 407 |
| 20 | 23 lime | 425 |
| 5 | shale | 430 |
| 4 | lime | 434 |
| 2 | shale | 436 |
| "Hortho" | 6 lime | 442 |
| 83 | shale | 525 |
| 10 | gray sue | 535 |
| 26 | shale | 561 |
| 4 | gray sue | 565 |
| 38 | shale | 603 |
| 3 | gray sue | 606 |
| 10 | shale | 616 |
| 8 | lime | 624 |
| 22 | shale | 646 |
| 16 | lime | 656 |
| 10 | shale | 666 |
| 2 | lime | 668 |
| 13 | shale | 681 |
| 3 | lime | 684 |
| 11 | shale | 695 |

| DATE | DRILLED | | REMARKS - TYPE WORK - BILLING REF. | PIPE TALLY |
|----------|---------|-----|--|----------------|
| | FROM | TO | | |
| 12/1/2 | 0 | 2 | soil | ① 21.5 - 21.5 |
| 24' | 2 | 20 | clay | ② 22.5 - 44.0 |
| 2/1/2 | 20 | 66 | shale | ③ 22.5 - 66.5 |
| 5/8 | 66 | 71 | lime | ④ 22.5 - 89.0 |
| PDC | 71 | 74 | shale | ⑤ 22.5 - 111.5 |
| | 74 | 90 | lime | ⑥ 22.5 - 134.0 |
| | 90 | 100 | shale (slate 99-100) | ⑦ 22.5 - 156.5 |
| | 100 | 110 | lime | ⑧ 22.5 - 179.0 |
| | 110 | 113 | shale | ⑨ 22.5 - 201.5 |
| | 113 | 133 | lime | ⑩ 22.5 - 224.0 |
| | 133 | 165 | shale (red bed: 137-139) | ⑪ 22.5 - 246.5 |
| | 165 | 184 | lime | ⑫ 22.5 - 269.0 |
| | 184 | 261 | shale (sandy 186-192) | ⑬ 22.5 - 291.5 |
| | 261 | 281 | lime | ⑭ 22.5 - 314.0 |
| | 281 | 301 | shale (red bed 287-289) (Brk: 296-301) | ⑮ 22.5 - 336.5 |
| | 301 | 309 | lime | ⑯ 22.5 - 359.0 |
| | 309 | 340 | shale | ⑰ 22.5 - 381.5 |
| | 340 | 358 | lime | ⑱ 22.5 - 404.0 |
| | 358 | 371 | shale | ⑳ 22.5 - 426.5 |
| 30' | 371 | 397 | lime | ㉑ 22.5 - 449.0 |
| | 397 | 402 | shale (395-400 slate) | ㉒ 22.5 - 471.5 |
| 20' | 402 | 425 | lime | ㉓ 22.5 - 494.0 |
| | 425 | 430 | shale (431-432 slate) | ㉔ 22.5 - 516.5 |
| | 430 | 434 | lime | ㉕ 22.5 - 539.0 |
| | 434 | 438 | shale | ㉖ 22.5 - 561.5 |
| "Hortho" | 438 | 442 | lime | ㉗ 22.5 - 584.0 |
| | 442 | 525 | shale (Brk 445-449) (sandy 483-510) | ㉘ 22.5 - 606.5 |

Drillers: Janie Burdick
Justin Timken

Sec. 33 Twp. 15 Rng. 20
Phillips Co. Kansas
 1650 FSL 3300 FEL
 API # 15-019-25516

HUGHES DRILLING REPORT

Well No. E-5 SURFACE CASING PERMANENT CSG.
 Farm Luther Size 2 7/8" 8rd EUE (New)
 Feet 760.10 of pipe
 Bolt at 754.10"
 Circulated sx cement
 T. D. at Completion 775
 Contractor HUGHES DRILLING CO.
 OPERATOR Hughes Drilling

| STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|----------------------|------|
| 6 | Lime | 761 |
| 4 | Shale | 765 |
| 20 | Sand | 785 |
| 25 | Shale | 750 |
| 1 | Lime | 751 |
| 7 | Shale | 758 |
| 2 | Lime | 760 |
| 5 | W.B. Res. | 765 |
| 10 | Shale | 775 |
| | | T.D. |

| DATE | DRILLED | | REMARKS - TYPE WORK - BILLING REF. | PIPE TALLY |
|--------|------------|-----|------------------------------------|--|
| | FROM | TO | | |
| | 525 | 535 | Gray sand | (8) 22.5-629.0 |
| | 535 | 561 | Shale | (29) 22.5-651.5 |
| | 561 | 565 | Gray Sand (some bleeding oil) | (30) 22.5-674.0 |
| | 565 | 503 | Shale (Bk 594-600) | (31) 22.5-696.5 |
| | 603 | 606 | Gray Sand (Good bleeding oil) | (32) 22.5-719.0 |
| | 606 | 616 | Shale | (33) 22.5-741.5 |
| | 616 | 624 | Lime | (34) 22.5-764.0 |
| | 624 | 646 | Shale (Bk 631-637) | |
| | 646 | 656 | Lime | |
| | 656 | 666 | Shale | |
| | 666 | 668 | Lime (Brown) | |
| | 668 | 681 | Shale (Bk 675-XI) | |
| | 681 | 684 | Lime | |
| | 684 | 695 | Shale (Shale 689-690) | |
| | 695 | 701 | Lime (Some bleeding oil) | |
| | 701 | 705 | Shale | |
| | # squirrel | 705 | 725 | Sand |
| | | 725 | 750 | Shale |
| | | 750 | 751 | Lime |
| | | 751 | 758 | Shale |
| | | 758 | 760 | Lime |
| | | 760 | 765 | lt Brown Sand |
| 1/3/12 | | 765 | 775 | Shale |
| 76 | | | | T.D. |
| | | | | 7-3-12 set 760.10 of new 2 7/8" 8rd EUE used 3 centralizers Bolt at 754.10 |

TD 775

HUGHES DRILLING CO.

Wellsville, Kansas 66092

Roger 913-883-2235
Darrel 913-883-4027

CORE TIME

Ron 913-883-4855
Clay 913-883-4383

LEASE Butter I-5
FORMATION #1 squirrel
DATE: 7/2/12

(SPM) Chip Sande

| FROM | FEET TO | TIME | MINUTES | REMARKS |
|------|---------|------|---------|---------------------------------------|
| 705 | 706 | } | 705-713 | Sand very lamin. w/shale (some bleed) |
| 706 | 707 | | | |
| 707 | 708 | | | |
| 708 | 709 | | | |
| 709 | 710 | | | |
| 710 | 711 | | | |
| 711 | 712 | | | |
| 712 | 713 | } | | Solid Sand (exc. Bleeding) |
| 713 | 714 | | | |
| 714 | 715 | | | |
| 715 | 716 | | | |
| 716 | 717 | | | |
| 717 | 718 | | | |
| 718 | 719 | | | |
| 719 | 720 | } | | sdy shale (oil trace) |
| 720 | 721 | | | |
| 721 | 722 | } | | sand lamin. w/shale (Bleeding) |
| 722 | 723 | | | |
| 723 | 724 | } | | shale (Best Perf Zone) |
| 724 | 725 | | | |
| 725 | 726 | } | | 713-721 core |
| 726 | 727 | | | |
| 727 | 728 | | | |



CONSOLIDATED
Oil Well Services, LLC

API #
15-059-25316

TICKET NUMBER 37356

LOCATION Ottawa

FOREMAN Alan Mad

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 |
|--------|------------|--------------------|---------|----------|-------|--------|
| 7-3-12 | 3425 | Lutter T-5 | SW 33 | 15 | 20 | FR |

| CUSTOMER | | TRUCK # | DRIVER | TRUCK # | DRIVER |
|-----------------|-------|----------|----------|---------|--------|
| Hughes Drilling | | 516 | Alan Mad | Safety | Meer |
| MAILING ADDRESS | | 368 | Al Mad | AM | |
| 122 Main | | 558 | Rya Sin | RS | |
| CITY | STATE | ZIP CODE | | | |
| Wellsville | KS | 66092 | | | |

JOB TYPE long string HOLE SIZE 5 5/8 HOLE DEPTH 775 CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 760 DRILL PIPE _____ TUBING _____ OTHER pin 754
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING yes
 DISPLACEMENT _____ DISPLACEMENT PSI 600 MIX PSI 200 RATE 4 bpm

REMARKS: Held crew meet. Established rate. Mixed & pumped 100# gel followed by 94 sk 50/50 cement plus 2% gel. Circulated cement. Flushed pump. Pumped plug to pin. Well held 800 PSI for 30 minute MIT. Closed valve.

Hughes Drilling + water

Alan Mad

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|-----------------|-------------------|------------------------------------|------------|---------|
| 5401 | 1 | PUMP CHARGE | | 1030.00 |
| 5406 | 15 | MILEAGE | | 60.00 |
| 5402 | 760 | casing footage | | — |
| 5407 | min | ton miles | | 350.00 |
| 1184 | 94 | 50/50 cement | | 1029.30 |
| 1183 | 258# | gel | | 54.18 |
| 4402 | 1 | 2 1/2 plug | | 28.00 |
| SALES TAX | | | | 816.70 |
| ESTIMATED TOTAL | | | | 2638.18 |

Rev 03/07

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.