



KANSAS CORPORATION COMMISSION 1050468
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 # 33365
Name: Layne Energy Operating, LLC
Address 1: 1900 SHAWNEE MISSION PKWY
Address 2: _____
City: MISSION WOODS State: KS Zip: 66205 + 2001
Contact Person: Victor H. Dyal
Phone: (913) 748-3955
CONTRACTOR: License # 33606
Name: Thornton Air Rotary, LLC
Wellsite Geologist: N/A
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
 Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

| | | |
|-----------------------------------|------------------|---|
| <u>9/21/2010</u> | <u>9/22/2010</u> | <u>10/12/2010</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-205-27862-00-00

Spot Description: _____

NE NW NE SE Sec. 28 Twp. 30 S. R. 14 East West
2,465 Feet from North / South Line of Section
860 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Wilson

Lease Name: HUMMER Well #: 9C-28

Field Name: Unnamed

Producing Formation: Cattleman Sands

Elevation: Ground: 890 Kelly Bushing: 0

Total Depth: 1211 Plug Back Total Depth: 1199

Amount of Surface Pipe Set and Cemented at: 42 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 1199

feet depth to: 0 w/ 135 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 0 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: 02/10/2011



1050468

Operator Name: Layne Energy Operating, LLC Lease Name: HUMMER Well #: 9C-28
 Sec. 28 Twp. 30 S. R. 14 East West County: Wilson

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: Compensated Density Dual Induction | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached |
|---|---|

| 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 | 11 | 8.624 | 24 | 42 | Type 1 | 8 | |
| Casing | 6.75 | 4.5 | 10.5 | 1199.45 | Thickset | 135 | |
| | | | | | | | |

| 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 |
|----------------|---|--|----------------------|
| 2 | Cattleman | 16,000 lbs 16/30 & 12/20 sand, 400 gal 15% HCL, 322 bbls gelled water | 1105-1109, 1123-1135 |
| | | | |
| | | | |
| | | | |

| | | | | |
|----------------|--------------------|---------------------|------------|--|
| TUBING RECORD: | Size: <u>2.375</u> | Set At: <u>1138</u> | Packer At: | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|----------------|--------------------|---------------------|------------|--|

| | |
|--|--|
| Date of First, Resumed Production, SWD or ENHR. <u>10/13/2010</u> | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ |
|--|--|

| | | | | | |
|-----------------------------------|------------------------|---------|-------------------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. <u>17</u> | Gas Mcf | Water Bbls. <u>1</u> | 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 checked="" 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 (Specify) _____ | PRODUCTION INTERVAL: <u>1105-1135</u> |
|---|--|--|

Air Drilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC
Office Phone: 620-879-2073

PO Box 449
Caney, KS 67333

| | |
|----------------|-----------|
| Date Started | 9/21/2010 |
| Date Completed | 9/22/2010 |

| Well No. | Operator | Lease | A.P.I.# | County | State |
|----------|------------------------|--------|--------------------|--------|--------|
| 9C-28 | Layne Energy Operating | Hummer | 15-205-27862-00-00 | Wilson | Kansas |

| 1/4 | 1/4 | 1/4 | Sec. | Twp. | Rge. |
|-----|-----|-----|------|------|------|
| | | | 28 | 30 | 14E |

| Driller | Type/Well | Cement Used | Casing Used | Depth | Size of Hole |
|---------|-----------|-------------|-------------|-------|--------------|
| Sean | Oil | 8 | 42 8 5/8 | 1211 | 6 3/4 |

Formation Record

| | | | | | |
|---------|-------------------|-----------|-----------------------|-----------|--------------------------|
| 0-2 | DIRT | 702-718 | LIME | 1036 | GAS TEST - SAME |
| 2-15 | CLAY | 718-741 | SANDY SHALE | 1040-1042 | LIME |
| 15-35 | SHALE | 741-752 | LIME | 1042-1045 | SHALE |
| 35-109 | LIME | 752-765 | SAND | 1045-1046 | COAL |
| 109-172 | SHALE | 765-787 | SHALE | 1046-1058 | SAND |
| 172-175 | LIME | 787-793 | SAND | 1058-1063 | SANDY SHALE |
| 175-190 | SHALE | 793-796 | SHALE | 1063-1081 | SHALE |
| 190-205 | LMY SHALE | 796-804 | SAND | 1081-1082 | COAL |
| 205-212 | SHALE | 804-815 | SHALE | 1082-1090 | SANDY SHALE |
| 212-228 | LIME | 815-848 | SANDY SHALE | 1086 | GAS TEST - SAME |
| 228-308 | SHALE | 848-855 | SHALE | 1090-1106 | SHALE |
| 308-313 | LIME | 855-858 | LIME | 1106-1110 | SAND /GOOD ODOR |
| 313-322 | SANDY SHALE | 858-859 | COAL (MULBERRY) | 1110-1115 | SANDY SHALE |
| 322-381 | SAND | 859-889 | LIME (PAWNEE) | 1115-1117 | LIME |
| 385 | WENT TO WATER | 861 | GAS TEST-SLIGHT BLOW | 1117-1133 | SAND/1122-1133 GOOD ODOR |
| 381-382 | COAL | 889-891 | SHALE | 1133-1160 | SANDY SHALE |
| 382-400 | SHALE | 891-896 | LIME | 1160-1211 | SHALE |
| 400-403 | LIME | 896-901 | BLK SHALE (LEXINGTON) | 1211 | TD |
| 403-436 | SHALE | 901-938 | SANDY SHALE | | |
| 410 | GAS TEST - NO GAS | 911 | GAS TEST - SAME | | |
| 436-540 | LIME | 938-959 | LIME (OSWEGO) | | |
| 540-546 | BLACK SHALE | 959-966 | BLK SHALE (SUMMIT) | | |
| 546-567 | LIME | 966-975 | LIME | | |
| 567-580 | SAND | 975-980 | BLK SHALE (EXCELLO) | | |
| 580-606 | LIME | 980-983 | LIME | | |
| 606-611 | SHALE | 983-990 | SANDY SHALE | | |
| 611-650 | LIME | 986 | GAS TEST - SAME | | |
| 650-683 | SHALE | 990-1025 | SHALE | | |
| 683-686 | LIME | 1025-1026 | COAL | | |
| 686-702 | SANDY SHALE | 1026-1040 | SHALE | | |

Well Report

HUMMER 9C-28

API Number:

AFE Number: G01013600400

Project Area:

SYCAMORE

AFE Amount: \$0.00

KS Wilson

30S - 14E - 28

2465FSL - 860FEL

| Activity Date | Activity Description |
|----------------------|-----------------------------|
|----------------------|-----------------------------|

9/21/2010

MIRU THORNTON DRILLED 11" HOLE 42' DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 29058

LOCATION EUREKA KS

FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|---|--------------------|--------------------|--|----------|-------|--------|
| 9-23-10 | 4758 | Hummer 9C-28 | | | | Wilson |
| CUSTOMER <u>Layne Energy</u> | | | TRUCK # DRIVER TRUCK # DRIVER <u>445</u> <u>Justin</u> <u>543</u> <u>Dave</u> | | | |
| MAILING ADDRESS <u>P.O. Box 1160</u> | | | | | | |
| CITY <u>Sycamore</u> | STATE <u>KS</u> | ZIP CODE | | | | |

Safety markings
DS
JJ

| | | | |
|-----------------------------|-----------------------------|-------------------------|------------------------------------|
| JOB TYPE <u>logstring 0</u> | HOLE SIZE <u>6 7/8"</u> | HOLE DEPTH <u>1211'</u> | CASING SIZE & WEIGHT <u>4 1/2"</u> |
| CASING DEPTH <u>1200'</u> | DRILL PIPE | TUBING | OTHER |
| SLURRY WEIGHT <u>13.4"</u> | SLURRY VOL <u>42 BW</u> | WATER gal/sk <u>8.0</u> | CEMENT LEFT in CASING <u>0'</u> |
| DISPLACEMENT <u>19 BW</u> | DISPLACEMENT PSI <u>600</u> | PSI <u>1000</u> | RATE |

REMARKS: Safety markings. Rig up to 4 1/2" casing. Break circulation w/ 30 bbl fresh water. Pump 10 sacks gel-flush w/ bulls. 20 bbl caustic soda pre-flush, 10 bbl dye water. Mixed 135 sacks thickset cement w/ 8" Kel-seal 1sk, 1/2" phenol/sk 1/2" R-110 + 1/2" CAF-38 @ 13.4"/gal. Washout pump + line, shut down, release plug. Displace w/ 19 bbl fresh water. Final pump pressure 600 PSI. Bump plug to 1000 PSI. wait 2 minutes, release pressure, float held. Good cement returns to surface. 8 bbl slurry to pit. Job complete. Rig down.

"Thank You"

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401 | 1 | PUMP CHARGE | 925.00 | 925.00 |
| 5406 | 40 | MILEAGE | 3.65 | 146.00 |
| 1126A | 135 sacks | thickset cement | 17.00 | 2295.00 |
| 1110A | 1080" | 8" Kel-seal 1sk | .42 | 453.60 |
| 1107A | 12" | 1/2" phenol 1sk | 1.15 | 19.55 |
| 1135 | 68" | 1/2" R-110 | 7.50 | 510.00 |
| 1146 | 34" | 1/2" CAF-38 | 7.70 | 261.80 |
| 1118B | 500" | gel-flush | .20 | 100.00 |
| 1105 | 50" | bulls | .39 | 19.50 |
| 1103 | 100" | caustic soda | 1.45 | 145.00 |
| 5407A | 7.43 | ten mileage bull truck | 1.20 | 356.64 |
| 4404 | 1 | 4 1/2" top rubber plug | 45.00 | 45.00 |
| | | | Subtotal | 5277.09 |
| | | | SALES TAX | 242.63 |
| | | | ESTIMATED TOTAL | 5519.62 |

Revin 3737

AUTHORIZATION

Judy Mc...

TITLE

Drill Farmer

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.