

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

9/10/09  
Form ACO-1  
September 1999  
Form Must Be Typed  
AMENDED

Operator: License # 33365  
Name: Layne Energy Operating, LLC  
Address: 1900 Shawnee Mission Parkway  
City/State/Zip: Mission Woods, KS 66205  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Timothy H. Wright  
Phone: (913) 748-3960  
Contractor: Name: Thornton Air Rotary  
License: 33606  
Wellsite Geologist: \_\_\_\_\_

Designate Type of Completion:

☐ New Well ☐ Re-Entry ☐ Workover  
☐ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.  
☒ Gas ☐ ENHR ☐ SIGW  
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, 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./SWD  
☐ Plug Back ☐ Plug Back Total Depth  
☐ Commingled ☐ Docket No. \_\_\_\_\_  
☐ Dual Completion ☐ Docket No. \_\_\_\_\_  
☐ Other (SWD or Enhr.?) ☐ Docket No. \_\_\_\_\_

5/17/2007 5/21/2007 10/1/2007  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 205-27165-00-00  
County: Wilson  
SW NW Sec. 4 Twp. 30 S. R. 14 ☒ East ☐ West  
1978 feet from S / (N) (circle one) Line of Section  
659 feet from E / (W) (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE (NW) SW  
Lease Name: Hulse Well #: 5-4  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 896' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1405' Plug Back Total Depth: 1392'  
Amount of Surface Pipe Set and Cemented at 45 Feet  
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1392  
feet depth to Surface w/ 140 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit) Alt II NJ 1-9-09

Chloride content N/A ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used N/A - Air Drilled

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

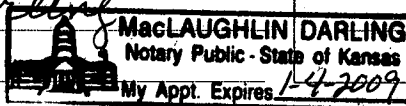
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: \_\_\_\_\_  
Title: Agent Date: 1/17/08

Subscribed and sworn to before me this 17 day of January  
08

Notary Public: MacLaughlin Darling

Date Commission Expires: 1-4-2009



KCC Office Use ONLY

Y Letter of Confidentiality Attached  
If Denied, Yes ☐ Date: \_\_\_\_\_  
\_\_\_\_\_ Wireline Log Received **RECEIVED**  
\_\_\_\_\_ Geologist Report Received **KANSAS CORPORATION COMMISSION**

**JAN 18 2008**

CONSERVATION DIVISION  
WICHITA, KS



Side Two

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JAN 18 2008

Operator Name: Layne Energy Operating, LLC Lease Name: Hulse Well #: 5-4 CONSERVATION DIVISION  
 Sec. 4 Twp. 30 S. R. 14 ☒ East ☐ West County: Wilson WICHITA, KS

**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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☒ No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No  
 (Submit Copy)

List All E. Logs Run:

Compensated Density Neutron  
 Dual Induction

☒ Log Formation (Top), Depth and Datum ☐ Sample

| Name          | Top     | Datum |
|---------------|---------|-------|
| Pawnee Lime   | 898 GL  | -2    |
| Excello Shale | 987 GL  | -91   |
| V Shale       | 1060 GL | -164  |
| Mississippian | 1308 GL | -412  |

### CASING RECORD ☒ New ☐ 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 | # Sacjs Used | Type and Percent Additives |
|-------------------|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Surface           | 11"               | 8.625"                    | 24                | 45'           | Class A        | 10           | Type 1 cement              |
| Casing            | 6.75"             | 4.5"                      | 10.5              | 1392'         | Thick Set      | 140          | #10 KOL seal @ sx          |
|                   |                   |                           |                   |               |                |              |                            |

### 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<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
|                | See Attached Page   |   |       |
|                |   |   |       |
|                |   |   |       |
|                |   |   |       |
|                |   |   |       |

| TUBING RECORD | Size   | Set At | Packer At | Liner Run   |
|---------------|--------|--------|-----------|---|
|               | 2-3/8" | 1322'  |           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| Date of First, Resumerd Production, SWD or Enhr. | Producing Method  |
|--|---|
| 12/17/2007                                       | <input checked="" 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 |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
|                                   | 0         | 21      | 17          |               |         |

Disposition of Gas **METHOD OF COMPLETION** Production Interval

☐ Vented ☒ Sold ☐ Used on Lease ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☒ Commingled  
 (If vented, Submit ACO-18.) ☐ Other (Specify) \_\_\_\_\_



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|                             |  |   |                   |
|-----------------------------|--|---|-------------------|
| <b>Operator Name:</b>       | Layne Energy Operating, LLC.                         |   |                   |
| <b>Lease Name:</b>          | Hulse 5-4  |   |                   |
|                             | Sec. 4 Twp. 30S Rng. 14E, Montgomery County          |   |                   |
| <b>API:</b>                 | 15-205-27165-00-00                                   |   |                   |
|                             |  |   |                   |
| <b>Shots per Foot</b>       | <b>Perforation Record</b>                            | <b>Acid, Fracture, Shot, Cement Squeeze Record</b>              | <b>Depth</b>      |
| <b>Initial Perforations</b> |  |   |                   |
| 4                           | Rowe 1257.5' - 1259.5'                               | 2700 lbs 20/40 sand<br>2212 bbls water<br>380 gals 15% HCl acid | 1257.5' - 1259.5' |
| 4                           | Croweburg 1061' - 1063'<br>Iron Post 1042.5' - 1044' | 5800 lbs 20/40 sand<br>441 bbls water<br>450 gals 15% HCl acid  | 1042.5' - 1063'   |
| 4                           | Mulky 988' - 992'<br>Summit 973' - 976'              | 10600 lbs 20/40 sand<br>669 bbls water<br>450 gals 15% HCl acid | 973' - 992'       |
| 4                           | Mulberry 893.5' - 895.5'                             | 2800 lbs 20/40 sand<br>224 bbls water<br>228 gals 15% HCl acid  | 893.5' - 895.5'   |

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 18 2008

CONSERVATION DIVISION  
WICHITA, KS