

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

5/04/11

Operator: License # 33365
Name: Layne Energy Operating, LLC
Address: 1900 Shawnee Mission Parkway
City/State/Zip: Mission Woods, KS 66205
Purchaser: **CONFIDENTIAL**
Operator Contact Person: Timothy H. Wright MAY 04 2009
Phone: (913) 748-3960
Contractor: Name: McPherson Drilling
License: 5675
Wellsite Geologist:

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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. Pending Approval

| | | |
|-----------------------------------|-----------------|---|
| 1/29/2009 | 2/3/2009 | 2/27/2009 |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 125-31828-00-00
County: Montgomery
NW SW SE SE Sec. 17 Twp. 31 S. R. 14 East West
560 FSL feet from S / N (circle one) Line of Section
1241 FEL feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Greer SWD Well #: 16-17
Field Name: Cherokee Basin Coal Area
Producing Formation: Arbuckle Disposal Well
Elevation: Ground: 868' Kelly Bushing:
Total Depth: 1906' Plug Back Total Depth: 1703'
Amount of Surface Pipe Set and Cemented at 21 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set Feet
If Alternate II completion, cement circulated from 1703'
feet depth to Surface w/ 310 sx cmt.
Alt 2 - Dlg - H/100'

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
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: [Signature]
Title: Project Engineer Date: 4/30/09
Subscribed and sworn to before me this 30 day of April
20 09.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2013

(Mr. permitted)
KCC Office Use ONLY
 Letter of Confidentiality Received
 If Denied, Yes Date:
 Wireline Log Received
 Geologist Report Received
KANSAS CORPORATION COMMISSION
MAY 05 2009
RECEIVED
My Appt. Expires 1-4-2013

Operator Name: Layne Energy Operating, LLC Lease Name: Greer SWD Well #: 16-17
 Sec. 17 Twp. 31 S. R. 14 East West County: Montgomery

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 <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Pawnee Lime | 914 GL | -46 |
| Electric Log Run <i>(Submit Copy)</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Excello Shale | 1045 GL | -177 |
| List All E. Logs Run: | | V-Shale | 1107 GL | -239 |
| Compensated Density Neutron Dual Induction | | Mineral Coal | 1152 GL | -284 |
| | | Mississippian | 1428 GL | -560 |

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| CASING RECORD <input 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" | 8.625" | 24 | 21' | Class A | 4 | Type 1 cement |
| Casing | 7.875" | 5.5" | | 1703' | 60/40 pozmix | 310 | 5 lbs KOL seal |
| | | | | | | | 4% gel |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> 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 |
|----------------|---|--|-----------------|
| | Open Hole -- Arbuckle 1702.5' - 1906' | 1000 gals 20% KCl & 45 bbls water | 1702.5' - 1906' |
| | | | |
| | | | |
| | | | |

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| | | | | |
|--|---|---------------------|------------------------|---|
| TUBING RECORD | Size <u>2-3/8"</u> | Set At <u>1672'</u> | Packer At <u>1677'</u> | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumerd Production, SWD or Enhr. | Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| <u>Pending Docket Approval</u> | | | | |
| Estimated Production Per 24 Hours | Oil Bbls. <u>0</u> | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |

*Can
 May
 2009*

| | | |
|--|--|---------------------|
| Disposition of Gas | METHOD OF COMPLETION | Production Interval |
| <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled | |
| | <input checked="" type="checkbox"/> Other (Specify) <u>Arbuckle Disposal Well</u> | |

Layne Energy, Inc.

1900 Shawnee Mission Parkway, Mission Woods, Kansas 66205 Phone: (913) 748-3987 Fax: (913) 748-3950

May 4, 2009

Mr. Steve Bond
Kansas Corporation Commission
Oil & Gas Conservation Division
130 S. Market, Room 2078
Wichita, KS 67202

Re: Well Completion Form

CONFIDENTIAL

Dear Mr. Bond:

MAY 04 2009

I have enclosed the ACO-1 form ^{KCC} and associated data for the following well:

API # 15-125-31828-00-00

Green 16-17 SWD
SWD

We respectfully request that all information submitted be kept confidential. Per provision E-4 of K.A. R. 82-3-107, we request that the term of the confidentiality be extended by one year.

If you need additional information, please contact me at (913) 748-3960.

Sincerely,

MacLaughlin Darling

MacLaughlin Darling
Engineering Technician

Enclosures

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GEOLOGIC REPORT

LAYNE ENERGY

Greer ^{SW} 16-17

^{NW} A SW SE SE, 560 FSL, 1,241 FEL

Section 17-T31S-R14E

MONTGOMERY County, KS

*kan
my
5/05/09*

Spud Date: 1/29/2009
 Drilling Completed: 2/3/2009
 Logged: 2/3/2009
 A.P.I. #: 15205276670000
 Ground Elevation: 868
 Depth Driller: 1,882
 Depth Logger: 1,906
 Surface Casing: 8.625 inches at 21'
 Production Casing: 5.5 inches at 1,703'
 Cemented Job:
 Open Hole Logs: High Resolution Compensated Density Sidewall
 Neutron Log; Dual Induction LL3/GR Log

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Formation MAY 04 2009

KCC

| | Tops | |
|-------------------|-----------------------|-----------------|
| | (below ground) | (subsea) |
| Surface (Iola | | |
| Limestone) | | 868 |
| Kansas City Group | | |
| Pawnee Limestone | 914 | -46 |
| Excello Shale | 1,045 | -177 |
| "V" Shale | 1,107 | -239 |
| Mineral Coal | 1,152 | -284 |
| Mississippian | 1,428 | -560 |

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*ku
7/5/08/09*

Daily Well Work Report

SWD
GREER 16-17 SWD
1/30/2009

Well Location:
MONTGOMERY KS
31S-14E-17 NW SW SE SE
560FSL / 1241FEL

Cost Center G01024500200
Lease Number G010245
Property Code KSSY31S14E1716D
API Number 15-125-31828

| Spud Date | RDMO Date | First Compl | First Prod | EFM Install | CygnetiD |
|-----------|-----------|-------------|------------|-------------|----------------|
| 1/29/2009 | 2/3/2009 | 2/27/2009 | | 3/12/2009 | GREER_16_17SWD |

| TD | PBTD | Sf Csg Depth | Pr Csg Depth | Tbg Size | Csg Size |
|------|------|--------------|--------------|----------|----------|
| 1906 | 1703 | 21 | 1703 | 0 | 0 |

| | | |
|--|-------------------|-----------------------------|
| Reported By KRD | Rig Number | Date 1/29/2009 |
| Taken By KRD | | Down Time |
| Present Operation DRILL OUT SURFACE | | Contractor MCPHERSON |

Narrative

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MCPHERSON DRILLING, DRILLED 11" HOLE, 21' DEEP, RIH W/1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC: \$2880

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CONSOLIDATED
Oil Field Services, L.L.C.

9/28/09
9/28/09

ENTERED

TICKET NUMBER 20774
LOCATION Everett
FOREMAN Rick Ladd

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 |
|--|------------|--------------------|---------|----------|-------|--------|
| 2-4-09 | 4758 | Green 116-17 SW 25 | | | | MOG |
| CUSTOMER <u>Layne Energy</u> | | | TRUCK # | | | |
| MAILING ADDRESS <u>P.O. Box 114</u> | | | DRIVER | | | |
| CITY <u>Sycamore</u> | | | TRUCK # | | | |
| STATE <u>KS</u> | | | DRIVER | | | |
| ZIP CODE | | | TRUCK # | | | |
| | | | DRIVER | | | |

JOB TYPE logstring HOLE SIZE 7 7/8" HOLE DEPTH 1882' CASING SIZE & WEIGHT 5 1/2"
 CASING DEPTH 1702.5' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14# SLURRY VOL 82 bbl WATER gal/ok 2° CEMENT LEFT IN CASING 0'
 DISPLACEMENT 5 1/2 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Ran 5 1/2" casing w/ open hole brass well packer w/ part collar set @ 1702.5'
Ran tubing w/ opening + closing tool. Load casing w/ fresh water. Close annulus of tubing w/
part collar. Run circulation w/ 10 bbl fresh water. Pump to set gel-flush, 5 min under pump.
3 sets caustic soda. Mixed 310 sets lead/oz Permox cement w/ 470 gal, 5° Kal-sol 10% w/ 270 cact 2
@ 14# yield 1.48. Displace w/ 5 1/2 bbl fresh water. Close part collar. Pressure casing to
1000 PSI. Test cement. Close annulus of tubing. Back wash w/ 15 bbl the short way. Amer wash
w/ 50 bbl water the long way. casing clean. Good cement returns to surface = 7 bbl
slurry to set. Job complete. Rig down.
"Thank You"

KCC

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401 | 1 | PUMP CHARGE | 870.00 | 870.00 |
| 5406 | 40 | MILEAGE | 3.45 | 138.00 |
| 1131 | 310 sets | 60/40 Permox cement | 10.20 | 3162.00 |
| 1118A | 1865" | 470 gal | .16 | 170.40 |
| 1118A | 1550" | 5° Kal-sol 10% | .39 | 604.50 |
| 1102 | 535" | 270 cact 2 | .71 | 379.85 |
| 1118A | 300 | gel-flush | .16 | 48.00 |
| 1103 | 150" | caustic soda | .85 | 127.50 |
| 5407A | 13.33 | fuel-mileage bills tax | 1.16 | 15.47 |
| 5605A | 4 hrs | welder | 82.00 | 328.00 |
| 4311 | 1 | 5 1/2" weld on collar | 80.00 | 80.00 |
| | | | Subtotal | 6683.76 |
| | | | SALES TAX | 250.54 |
| | | | ESTIMATED TOTAL | 6944.30 |

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Revin 3737

228688
TITLE Co. Lp

AUTHORIZATION Witnessed by Messer

DATE _____