

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

1/29/11

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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. \_\_\_\_\_

10/21/2008    10/23/2008    11/25/2008  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 125-31782-00-00

County: Montgomery

NE NE NE Sec. 6 Twp. 31 S. R. 14  East  West

350 feet from S /  (circle one) Line of Section

350 feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one)  NE     SE     NW     SW

Lease Name: Ratzlaff Well #: 1-6

Field Name: Cherokee Basin Coal Area

Producing Formation: Cherokee Coals

Elevation: Ground: 973' Kelly Bushing: \_\_\_\_\_

Total Depth: 1487' Plug Back Total Depth: 1475'

Amount of Surface Pipe Set and Cemented at 22 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 1475

feet depth to Surface w/ 155 sx cmt.

Drilling Fluid Management Plan AK II 104-1309  
(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: \_\_\_\_\_

Title: Project Engineer Date: 1/29/11

Subscribed and sworn to before me this 29 day of January

2009.

Notary Public: MacLaughlin Darline

Date Commission Expires: 1-4-2013

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
UIC Distribution

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**JAN 30 2009**

**MacLAUGHLIN DARLING**  
Notary Public - State of Kansas  
My Appt. Expires 1-4-2013

CONSERVATION DIVISION  
WICHITA, KS

KCC

JAN 20 2009

Slide Two

CONFIDENTIAL

Operator Name: Layne Energy Operating, LLC Lease Name: Ratzlaff Well #: 1-6

Sec. 6 Twp. 31 S. R. 14 [X] 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 [ ] Yes [X] No (Attach Additional Sheets)

Samples Sent to Geological Survey [X] Yes [ ] No

Cores Taken [ ] Yes [X] No

Electric Log Run [X] Yes [ ] No (Submit Copy)

List All E. Logs Run:

Compensated Density Neutron Dual Induction

[X] Log Formation (Top), Depth and Datum [ ] Sample

Table with 3 columns: Name, Top, Datum. Rows include Pawnee Lime, Excello Shale, V-Shale, Mineral Coal, and Mississippian.

CASING RECORD table with columns: Purpose of String, Size Hole Drilled, Size Casing Set, Weight Lbs. / Ft., Setting Depth, Type of Cement, # Sacs Used, Type and Percent Additives.

ADDITIONAL CEMENTING / SQUEEZE RECORD table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

PERFORATION RECORD - Bridge Plugs Set/Type table with columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record, Depth.

RECEIVED KANSAS CORPORATION COMMISSION JAN 30 2009 CONSERVATION DIVISION WICHITA, KS

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run.

Date of First, Resumerd Production, SWD or Enhr. Producing Method table.

Estimated Production Per 24 Hours table with columns: Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas METHOD OF COMPLETION Production Interval [ ] Vented [X] Sold [ ] Used on Lease [ ] Open Hole [X] Perf. [ ] Dually Comp. [X] Commingled [ ] Other (Specify)

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Ratzlaff 1-6		
	Sec. 6 Twp. 31S Rng. 14E, Montgomery County		
<b>API:</b>	15-125-31782-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (November 2008)</b>			
4	Mineral 1219.5' - 1221'	2800 lbs 20/40 sand 187 bbls water 100 gals 15% HCl acid	1219.5' - 1221'
4	Croweburg 1177' - 1179.5' Bevier 1158.5' - 1160'	6000 lbs 20/40 sand 390 bbls water 400 gals 15% HCl acid	1158.5' - 1179.5'
4	Mulky 1109' - 1112.5' Summit 1096.5' - 1098.5'	7500 lbs 20/40 sand 424 bbls water 450 gals 15% HCl acid	1096.5' - 1112.5'

KCC  
JAN 29 2009  
CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 30 2009  
CONSERVATION DIVISION  
WICHITA, KS

# GEOLOGIC REPORT

LAYNE ENERGY  
Rattzlaff 1-6  
SE SE, 350 FSL, 350 FEL  
Section 6-T31S-R14E  
Montgomery County, KS

Spud Date: 10/21/2008  
Drilling Completed: 11/25/2008  
Logged: 10/23/2008  
A.P.I. #: 15125317820000  
Ground Elevation: 973'  
Depth Driller: 1487'  
Depth Logger: 1486'  
Surface Casing: 8.625 inches at 22'  
Production Casing: 4.5 inches at 1475'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

Formation	Tops	
	(below ground)	(subsea)
Quaternary	Surface (Alluvium)	973
Pawnee Limestone	993	-20
Excello Shale	1,109	-136
"V" Shale	1,177	-204
Mineral Coal	1,220	-247
Mississippian	1,440	-467

KCC  
JAN 29 2009  
CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 30 2009

CONSERVATION DIVISION  
WICHITA, KS

# Daily Well Work Report

RATZLAFF 1-6  
10/21/2008

**Well Location:**  
MONTGOMERY KS  
31S-14E-6 NE NE NE  
350FNL / 350FEL

**Cost Center** G01014200500  
**Lease Number** G010142  
**Property Code** KSSY31S14E0601  
**API Number** 15-125-31782

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnelID
10/21/2008	10/23/2008	11/25/2008	12/4/2008	12/4/2008	RATZLAFF_1_6

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1487	1475	22	1475	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 10/21/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> THORNTON DRILLING

## Narrative

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 22' DEEP, RIH W/1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.  
DWC:\$2880

KCC  
JAN 2 3 2009  
CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 3 0 2009  
CONSERVATION DIVISION  
WICHITA, KS



**CONSOLIDATED**  
Oil Well Services, L.L.C.



**ENTERED**

TICKET NUMBER 20258  
LOCATION EURAGE  
FOREMAN Kevin McCoy

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	
10-24-08	4758	RATZLAFF 1-6	6	315	14E	MC	
CUSTOMER Layne Energy			Gus Jones				
MAILING ADDRESS P.O. Box 160							
CITY Sycamore		STATE Ks	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
				445	Justin		
				439	Calvin		

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1487' CASING SIZE & WEIGHT 4 1/2" A.S. New  
CASING DEPTH 1475' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 13.2\* SLURRY VOL 48 BBL WATER gal/sk 8.0 CEMENT LEFT in CASING 0  
DISPLACEMENT 23.8 BBL DISPLACEMENT PSI 700 MIX PSI 1200 Bump Plug RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. BREAK CIRCULATION w/ 40 BBL fresh water. Pump 10 sks GEL flush w/ HULLS, 2 BBL water spacer, mixed 155 sks THICK Set Cement w/ 8" Kol-Seal /sk, 1/2% CFL-110, 1/4% CAF-38, 1/8" Pheno Seal /sk @ 13.2\* /gal. yield 1.75. Wash out Pump & Lines. Shut down. Release Plug. Displacement w/ 23.8 BBL fresh water. Final Pumping Pressure 700 psi. Bump Plug to 1200 PSI. wait 5 minutes Release Pressure. Float Held. Good Cement Returns to Surface = 10 BBL Slurry to Art. Job Complete. Rig down. Displacement Rate 4 BPM.

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
1126 A	155 SKS	THICK Set Cement	17.00	2635.00
1110 A	1240 *	Kol-Seal 8" /sk	.48 *	597.60
1135	75 *	CFL-110 1/2%	7.50 *	562.50
1146	37 *	CAF-38 1/4%	7.70 *	284.90
1107 A	20 *	Pheno Seal 1/8" /sk	1.15 *	23.00
1118 A	500 *	GEL flush	.17 *	85.00
1105	50 *	HULLS	.39 *	19.50
5407 A	8.53 Tons	40 miles Buck TRUCK	1.20	102.36
4404	1	4 1/2 Top Rubber Plug	45.00	45.00
			Sub Total	3556.14
			SALES TAX 5.3%	189.32
			TOTAL	5877.46

KCC  
JAN 29 2009  
CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 30 2009  
CONSERVATION DIVISION  
WICHITA KS

THANK YOU

206896

Ravin 3737

AUTHORIZATION Witnessed By Jacob

TITLE Layne Co. Rep.

DATE \_\_\_\_\_