

**CONFIDENTIAL**

**ORIGINAL** 2/27/11

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

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     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. \_\_\_\_\_

<u>12/2/2008</u>	<u>12/4/2008</u>	<u>1/7/2009</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31831-00-00  
County: Montgomery  
\_\_\_\_ - \_\_\_\_ - NW NW Sec. 35 Twp. 32 S. R. 13  East  West  
606 feet from S /  (circle one) Line of Section  
623 feet from E /  (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE  NW SW  
Lease Name: Rohleder Well #: 4-35  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 907' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1612' Plug Back Total Depth: 1597'  
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 1597  
feet depth to Surface w/ 90 <sup>sq. cm ft</sup>  
Alt 2 - Dlg - 4/13/09

**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: \_\_\_\_\_  
Title: Project Engineer Date: 2/26/09  
Subscribed and sworn to before me this 26 day of February,  
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  
KANSAS CORPORATION COMMISSION  
UIC Distribution

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

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Operator Name: Layne Energy Operating, LLC Lease Name: Rohleder Well #: 4-35  
 Sec. 35 Twp. 32 S. R. 13  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  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

Name	Top	Datum
Pawnee Lime	1073 GL	-166
Excello Shale	1214 GL	-307
V-Shale	1260 GL	-353
Mineral Coal	1305 GL	-398
Mississippian	1579 GL	-672

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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	# Sacs Used	Type and Percent Additives
Surface	11"	8.625"	24	21'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1597'	Thick Set	90	50/50 posmix w/2% 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 (Amount and Kind of Material Used)	Depth
	See Attached Page		

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TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2-3/8"	1361'			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>RECEIVED</b>
Date of First, Resumerd Production, SWD or Enhr. 1/15/2009			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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	0	1	0				

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Rohleder 4-35		
	Sec. 35 Twp. 32S Rng. 13E, Montgomery County		
<b>API:</b>	15-125-31831-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (December 2008)</b>			
4	Mineral 1304' - 1305.5'	2400 lbs 20/40 sand 192 bbls water 100 gals 15% HCl acid	1304' - 1305.5'
4	Croweburg 1260.5' - 1263.5' Bevier 1241' - 1242'	5400 lbs 20/40 sand 365 bbls water 500 gals 15% HCl acid	1241' - 1263.5'
4	Mulky 1215' - 1219.5'	5400 lbs 20/40 sand 301 bbls water 120 gals 15% HCl acid	1215' - 1219.5'
4	Summit 1189.5' - 1191'	2400 lbs 20/40 sand 213 bbls water 420 gals 15% HCl acid	1189.5' - 1191'
4	Thayer 524.5' - 526'	2400 lbs 20/40 sand 262 bbls water 420 gals 15% HCl acid	524.5' - 526'

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# Daily Well Work Report

ROHLEDER 4-35  
12/4/2008

**Well Location:**  
MONTGOMERY KS  
32S-13E-35 NW NW  
606FNL / 623FWL

**Cost Center** G01059700100  
**Lease Number** G010597  
**Property Code** KSLE32S13E3504  
**API Number** 15-125-31831

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnetiD
12/2/2008	12/4/2008	1/7/2009	1/15/2009	1/15/2009	ROHLEDER_4_35
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1612	1597	21	4.5	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 12/2/2008
<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, 21' DEEP. RIH W/1 JT 8-5/8" SURFACE CASING. MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN. DWC:\$2,880

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**CONSOLIDATED**  
Oilfield Services, LLC

**ENTERED**

TICKET NUMBER 20679

LOCATION Enochs

FOREMAN Toy Stichter

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
12-5-08	4758	Robleder 4-35				MG
CUSTOMER <u>Layne Energy</u>			TRUCK #			
MAILING ADDRESS <u>P.O. Box 160</u>			DRIVER			
CITY <u>Sycamore</u>			TRUCK #			
STATE <u>KS</u>		DRIVER				
ZIP CODE		TRUCK #				
		DRIVER				

JOB TYPE L/S HOLE SIZE 6 3/4" HOLE DEPTH 1612' CASING SIZE & WEIGHT 4 1/2" 10.5"  
 CASING DEPTH 1596' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 12.8-13.4" gal SLURRY VOL 53001 WATER gal/sk 6'-8" CEMENT LEFT in CASING 0'  
 DISPLACEMENT 25.401 DISPLACEMENT PSI 600 MIX PSI 1100 Rupt P/B RATE \_\_\_\_\_

REMARKS: Safety Meeting! Rig up to 4 1/2" casing. Break Circulation w/ 5000L water.  
Ramp 1000 Gal-Flush w/ Halls 200 water spacer, Mixed 1000lbs 50/50 Poz-mix  
w/ 2% Cacth, 2% Gel, 4% Kal-Seal, 3% Cal-Seal 1/2" Phenoxal, 1/2% CFL-110, 1/4%  
CAF-38 @ 13.8" gal. Tail in w/ 900lbs Thick Set Cement w/ 8" Kal-Seal, 1/2%  
CFL-110, 1/4% CAF-38 + 1/2" Phenoxal @ 13.4" gal. Wash out Pump + liner. Release  
Plug Displace w/ 25.401 water. Final Pumping Pressure 600PSI Rupt P/B to 1100PSI  
wait 2mins Release Pressure. Float Hole. Good Cement to surface = 1000L  
Slurry to Pit. (Displace Plug @ 4000 Rupt P/B)

Job Complete

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
1124	1000lbs	50/50 Poz-mix Cement	9.75	975.00
1102	170"	Cacth 2%	.75	127.50
1118A	170"	Gel 2%	.17	28.90
1110A	400"	Kal-Seal 4 1/2"	.42	168.00
1101	300"	Cal-Seal 3 1/2"	.36	108.00
1107A	24"	Phenoxal 1/2"/sk (in All Cement)	1.15	27.60
1135	100"	CFL-110 1/2% (in All Cement)	7.50	750.00
1146	50"	CAF-38 1/4% (in All Cement)	7.70	385.00
1126A	900lbs	Thick Set Cement	17.00	1530.00
1110A	720"	Kal-Seal 8 1/2"	.42	302.40
1118A	500"	Gel-Flush	.17	85.00
1105	50"	Halls	.39	19.50
5407	9.15 hrs	Ten-Mileage	19.62	180.00
4404	1	4 1/2" Top Roller P/B	45.00	45.00
		Thick Set	5.3%	6252.90
				SALES TAX 241.86
				ESTIMATED TOTAL 6494.16

Ravin 3737

227885

AUTHORIZATION witnessed by Jacob

TITLE Co-Rep

DATE

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**GEOLOGIC REPORT**

LAYNE ENERGY  
Rohleder 4-35  
NW NW, 606 FNL, 623 FWL  
Section 35-T32S-R13E  
Montgomery County, KS

Spud Date: 12/2/2008  
Drilling Completed: 12/4/2008  
Logged: 12/4/2008  
A.P.I. #: 15125318310000  
Ground Elevation: 907  
Depth Driller: 1,612  
Depth Logger: 1,612  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1,597'  
Cemented Job:  
Open Hole Logs: High Resolution Compensated Density Sidewall  
Neutron Log; Dual Induction LL3/GR Log

<b>Formation</b>	<b>Tops</b>	
	<b>(below ground)</b>	<b>(subsea)</b>
	Surface (Stranger Formation)	907
Douglas Group	1,073	-166
Pawnee Limestone	1,214	-307
Excello Shale	1,260	-353
"V" Shale	1,305	-398
Mineral Coal	1,579	-672
Mississippian		

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