

~~CONFIDENTIAL~~

ORIGINAL

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

8/29/10

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. \_\_\_\_\_

<u>5/12/2008</u>	<u>5/13/2008</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31599-00-00  
County: Montgomery  
SE SE SW Sec. 5 Twp. 32 S. R. 17  East  West  
384 feet from  N (circle one) Line of Section  
2276 feet from E /  W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW  SW  
Lease Name: Coffman Well #: 14-5

Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 807' Kelly Bushing: \_\_\_\_\_  
Total Depth: 986' Plug Back Total Depth: 985'  
Amount of Surface Pipe Set and Cemented at 21.5 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 985  
feet depth to Surface w/ 135 sx cmf.

Drilling Fluid Management Plan AKJH 10/14/08  
(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: Agent Date: 8/29/2008  
Subscribed and sworn to before me this 29 day of August  
08  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2009

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
UIC Distribution  
**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**SEP 02 2008**

**MacLAUGHLIN DARLING**  
Notary Public - State of Kansas  
My Appt. Expires 1-4-2009

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Coffman Well #: 14-5  
 Sec. 5 Twp. 32 S. R. 17  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 checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pawnee Lime	401 GL	406
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	538 GL	269
List All E. Logs Run:		V-Shale	590 GL	217
Compensated Density Neutron		Mineral Coal	631 GL	176
Dual Induction		Mississippian	979 GL	-172

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	# Sacjs Used	Type and Percent Additives
Surface	11"	8.625"	24	21.5'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	985'	Thick Set	135	50/50 posmix w/2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" 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
	See Attached Page		

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <b>Shut-In</b>			Producing Method			
			<input 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					

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled

Production Interval  Other (Specify) \_\_\_\_\_

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<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Coffman 14-5		
	Sec. 5 Twp. 32S Rng. 17E, Montgomery County		
<b>API:</b>	15-125-31599-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (August 2008)</b>			
4	Riverton 968.5' - 971.5'	3800 lbs 20/40 sand 324 bbls water 500 gals 15% HCl acid	968.5' - 971.5'
4	Mineral 631.5' - 633'	2400 lbs 20/40 sand 172 bbls water 200 gals 15% HCl acid	631.5' - 633'
4	Croweburg 591' - 593.5' Bevier 570.5' - 572.5'	6100 lbs 20/40 sand 312 bbls water 550 gals 15% HCl acid	570.5' - 593.5'
4	Mulky 539' - 544'	6200 lbs 20/40 sand 371 bbls water 600 gals 15% HCl acid	539' - 544'
4	Summit 512' - 514'	2600 lbs 20/40 sand 263 bbls water 570 gals 15% HCl acid	512' - 514'

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CONSERVATION DIVISION  
 WICHITA, KS

# GEOLOGIC REPORT

LAYNE ENERGY  
Coffman 14-5  
SE SW, 384 FSL, 2276 FWL  
Section 5-T32S-R17E  
Montgomery County, KS

Spud Date: 5/12/2008  
Drilling Completed: 5/13/2008  
Logged: 5/13/2008  
A.P.I. #: 15125315990000  
Ground Elevation: 807'  
Depth Driller: 986'  
Depth Logger: 988'  
Surface Casing: 8.625 inches at 21.5'  
Production Casing: 4.5 inches at 985'  
Cemented Job: 0  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

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Formation	Tops	
	(below ground)	(subsea)
	Surface (Dennis	
Kansas City Group	Limestone)	807
Pawnee Limestone	401	406
Excello Shale	538	269
"V" Shale	590	217
Mineral Coal	631	176
Mississippian	979	-172

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CONSERVATION DIVISION  
WICHITA, KS

# Daily Well Work Report

COFFMAN 14-5

5/13/2008

**Well Location:**  
MONTGOMERY KS  
32S-17E-5 SE SE SW  
384FSL / 2276FWL

**Cost Center** C01023200100  
**Lease Number** C010232  
**Property Code** KSCV32S17E0514  
**API Number** 15-125-31599

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
5/12/2008	5/13/2008				

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
9862	9	21.5	985	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 5/12/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> THORNTON

## Narrative

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 21.5' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.  
DWC:\$2880

Tuesday, July 29, 2008

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Page 8

CONSERVATION DIVISION  
WICHITA, KS



**ENTERED**

TICKET NUMBER 14033  
 LOCATION Eureka  
 FOREMAN Troy Strickler

**TREATMENT REPORT & FIELD TICKET  
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-18-08	4758	Cofman 14-5				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						

JOB TYPE Longstrty HOLE SIZE 6 3/4' HOLE DEPTH 986' CASING SIZE & WEIGHT 4 1/2" 105"  
 CASING DEPTH 985' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.9" SLURRY VOL 3360W WATER gal/sk 6' CEMENT LEFT in CASING 0'  
 DISPLACEMENT 15.78W DISPLACEMENT PSI 400 MIX PSI 900 empty RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Break Circulation w/ 200W water. Pump bsk Gel-Flush, 10W Halls, 100W water, 50W Dye, Mixed 135SAS 50/50 Poz-mix w/ 2% Gel, 2% Cacl<sub>2</sub>, 4# Kol-Seal, 3# Cal-Seal, 1/2" Floccle, 1/2% FL-110, + 1/4% CAF-38 @ 13.9" Perf. Wash out Pump + lines Release Plug. Displace w/ 15.78W water. Final Pump Pressure 400 PSI. Bump Ply to 900 PSI wait 2mins. Release Pressure. Float Held. Good Cement to surface = 70W slung to Pit. Job Complete.

NOV 29 2008  
 KOC

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	875.00	875.00
5406	40	MILEAGE	3.45	138.00
1124	1353W	50/50 Poz-mix Cement	9.30	1255.50
1118A	225*	2% Gel	.16*	36.00
1102	225*	2% Cacl <sub>2</sub>	.70*	157.50
1110A	540*	4# Kol-Seal Perf	.40*	216.00
1101	405*	3# Cal-Seal Perf	.35*	141.75
1107	17*	1/2" Floccle Dyk	1.98*	33.66
1135	57*	1/2% FL-110	7.15*	407.55
1146	28*	1/4% CAF-38	7.30*	204.40
1118A	300*	Gel-Flush	.16*	48.00
1105	50*	Halls	.37*	18.50
5407		Ton-milage	n/c	300.00
4404	1	4 1/2" Top Rubber Ply	42.00	42.00
5605A	4hrs	welder	85.00	340.00
4311	1	4 1/2" weldon collar	60.00	60.00
				427.386
		Thank You!		738.90

AUTHORIZATION Called by Jacob TITLE Co-Op DATE SEP 02 2008  
 ESTIMATED 4412.16  
 RECEIVED  
 KANSAS CORPORATION COMMISSION  
 5.3%

CONSOLIDATED OIL WELL SERVICES  
 P.O. BOX 884, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676



TICKET NUMBER 14032  
 LOCATION Eureka  
 FOREMAN Troy Strickler

### TREATMENT REPORT & FIELD TICKET CEMENT

DATE <u>5-15-08</u>	CUSTOMER # <u>4758</u>	WELL NAME & NUMBER <u>Cofman 14-5</u>	SECTION	TOWNSHIP	RANGE	COUNTY <u>MG</u>																
CUSTOMER <u>Layne Energy</u>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">TRUCK # <u>520</u></td> <td style="width: 15%;">DRIVER <u>Cliff</u></td> <td style="width: 15%;">TRUCK #</td> <td style="width: 15%;">DRIVER</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				TRUCK # <u>520</u>	DRIVER <u>Cliff</u>	TRUCK #	DRIVER												
TRUCK # <u>520</u>	DRIVER <u>Cliff</u>	TRUCK #					DRIVER															
MAILING ADDRESS <u>P.O. Box 160</u>																						
CITY <u>Sycamore</u>	STATE <u>Ks</u>	ZIP CODE																				

JOB TYPE <u>Kill Job</u>	HOLE SIZE <u>6 3/4"</u>	HOLE DEPTH <u>960'</u>	CASING SIZE & WEIGHT <u>6"</u>
CASING DEPTH	DRILL PIPE <u>4 1/2" 900'</u>	TUBING	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety Meeting: Rig up to Rig. Drill pipe set @ 900'. Pump 50001 water shut down. Well Dead. Pull half way out Top hole off. Job Complete.

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ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>5609</u>	<u>4hrs</u>	<u>PUMP CHARGE</u>	<u>170.00</u>	<u>680.00</u>
<u>5406</u>	<u>40</u>	<u>MILEAGE</u>	<u>3.45</u>	<u>138.00</u>
RECEIVED KANSAS CORPORATION COMMISSION			SEP 02 2008	
CONSERVATION DIVISION WICHITA, KS				
<u>Thank You!</u>				
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION Called by Jacob      TITLE Co-Rp      DATE \_\_\_\_\_

818.00