

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

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

*ka  
mu  
1/20/09*

**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 **CONFIDENTIAL**  
Contractor: Name: Thornton Air Rotary JAN 29 2009  
License: 33606  
Wellsite Geologist: \_\_\_\_\_ **KCC**

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. \_\_\_\_\_  

10/31/2008	11/4/2008	12/12/2008
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27626-00-00  
County: Wilson  
5252 SE NE Sec. 24 Twp. 30 S. R. 15  East  West  
2528 feet from S / **(N)** (circle one) Line of Section  
670 feet from **(E)** W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) **(NE)** SE NW SW  
Lease Name: Springer Well #: 8-24  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 798' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1136' Plug Back Total Depth: 1011'  
Amount of Surface Pipe Set and Cemented at 44 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1011  
feet depth to Surface w/ 145 sx cmt.

**Drilling Fluid Management Plan** *Ref: 1/15/09*  
(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: 1/29/09  
Subscribed and sworn to before me this 29 day of January,  
2009.  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2013

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

**KCC Office Use ONLY**

Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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**JAN 30 2009**  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Springer Well #: 8-24  
 Sec. 24 Twp. 30 S. R. 15  East  West County: Wilson

**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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Compensated Density Neutron Dual Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Datum</th> </tr> </thead> <tbody> <tr> <td>Pawnee Lime</td> <td>601 GL</td> <td>197</td> </tr> <tr> <td>Excello Shale</td> <td>705 GL</td> <td>93</td> </tr> <tr> <td>V-Shale</td> <td>772 GL</td> <td>26</td> </tr> <tr> <td>Mineral Coal</td> <td>813 GL</td> <td>-15</td> </tr> <tr> <td>Mississippian</td> <td>1356 GL</td> <td>-558</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	601 GL	197	Excello Shale	705 GL	93	V-Shale	772 GL	26	Mineral Coal	813 GL	-15	Mississippian	1356 GL	-558
Name	Top	Datum																	
Pawnee Lime	601 GL	197																	
Excello Shale	705 GL	93																	
V-Shale	772 GL	26																	
Mineral Coal	813 GL	-15																	
Mississippian	1356 GL	-558																	

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	44'	Class A	55	Type 1 cement
Casing	6.75"	4.5"	10.5	1011'	Thick Set	145	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 <i>(Amount and Kind of Material Used)</i>	Depth
	See Attached Page		

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TUBING RECORD	Size <b>2-3/8"</b>	Set At <b>952'</b>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CONSERVATION DIVISION WICHITA, KS
Date of First, Resumerd Production, SWD or Enhr. <b>12/31/2008</b>		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. <b>0</b>	Gas Mcf <b>8</b>	Water Bbls. <b>0</b>	Gas-Oil Ratio	Gravity

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

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Springer 8-24		
	Sec. 24 Twp. 30S Rng. 15E, Wilson County		
<b>API:</b>	15-205-27626-00-00		
<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	Tebo 874.5' - 876'	2400 lbs 20/40 sand 166 bbls water 300 gals 15% HCl acid	874.5' - 876'
4	Mineral 812.5' - 814'	2400 lbs 20/40 sand 187 bbls water 100 gals 15% HCl acid	812.5' - 814'
4	Croweburg 773' - 775' Bevier 751.5' - 753'	4400 lbs 20/40 sand 657 bbls water 950 gals 15% HCl acid	751.5' - 775'
4	Mulky 705' - 709.5'	5200 lbs 20/40 sand 264 bbls water 300 gals 15% HCl acid	705' - 709.5'
4	Mulberry 595' - 596.5'	1000 lbs 20/40 sand 153 bbls water 300 gals 15% HCl acid	595' - 596.5'

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# GEOLOGIC REPORT

LAYNE ENERGY  
Springer 8-24  
SE NE, 2528 FNL, 670 FEL  
Section 24-T30S-R15E  
Wilson County, KS

Spud Date: 10/31/2008  
Drilling Completed: 1/0/1900  
Logged: 11/4/2008  
A.P.I. #: 15205276260000  
Ground Elevation: 798'  
Depth Driller: 1136'  
Depth Logger: 1136'  
Surface Casing: 8.625 inches at 44'  
Production Casing: 4.5 inches at 1011'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

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Formation	Tops	
	(below ground)	(subsea)
Quaternary	Surface (Alluvium)	798
Pawnee Limestone	601	197
Excello Shale	705	93
"V" Shale	772	26
Mineral Coal	813	-15
Mississippian	1,356	-558

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# Daily Well Work Report

SPRINGER 8-24  
10/31/2008

**Well Location:**  
WILSON KS  
30S-15E-24 SE NE  
2528FNL / 670FEL

**Cost Center** C01037200100  
**Lease Number** C010372  
**Property Code** KSCV30S15E2408  
**API Number** 15-205-27626

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
10/31/2008	11/4/2008	12/12/2008	12/31/2008	12/26/2008	SPRINGER_8_24

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1136	1011	44	1011	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 10/31/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> THORNTON ROTARY

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## Narrative

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 44' DEEP, RIH W/2 JTS 8 5/8" SURFACE CASING, RU CONSOLIDATED TO 8-5/8" CASING, BREAK CIRCULATION W/5 BBLS FRESH WATER. MIXED 55 SKS CLASS "A" CEMENT W/2% CACLZ AND 2% GEL @ 15 #/GAL. DISPLACE WITH 2 BBLS FRESH WATER SHUT CASING IN W/NO CEMENT RETURNS TO SURFACE. LOST CIRC HALF WAY THROUGH. RD MOL  
DWC:\$5160

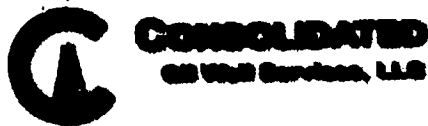
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WICHITA KS

Thursday, January 15, 2009

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ENTERED

TICKET NUMBER 20309  
 LOCATION Evans  
 FOREMAN Rick Lott

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-487-8676

FIELD TICKET & TREATMENT REPORT  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-31-08	4258	Springer 8-24				LeFlore
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Layne Energy			413	Shannon		
MAILING ADDRESS			479	John		
P.O. Box 1100			JAN 3 2009			
CITY	STATE	ZIP CODE	CONFIDENTIAL			
Sycamore	KS					

JOB TYPE surface HOLE SIZE 11" HOLE DEPTH 50' CASING SIZE & WEIGHT 5"  
 CASING DEPTH 43' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15" SLURRY VOL \_\_\_\_\_ WATER gal/sk 6.5 CEMENT LEFT in CASING 5'  
 DISPLACEMENT 2' bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 8 5/8" casing. Break circulation w/ 5 gal fresh water. Mixed 55 sacks class A cement w/ 2% casing + 2% gel @ 15" min. Dipper w/ 2' bbl fresh water. Shut casing in w/ no cement returns to surface. Last circulation half way through cement procedure. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405	1	PUMP CHARGE	725.00	725.00
5406	40	MILEAGE	4.50	180.00
11045	55 sacks	class A cement	13.50	742.50
1102	100 "	2% casing	.25	25.00
1118A	100 "	2% gel	.12	12.00
5407		ton-mileage bulk tax	3.15	315.00
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			6.3%	2030.50
			SALES TAX ESTIMATED	52.58
			TOTAL	2073.08

Ravin 3737

AUTHORIZATION

*Jacob Meeker*

001088

TITLE

DATE