

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

RECEIVED  
KANSAS CORPORATION COMMISSION

12/7/09

Form ACO-1  
September 1999  
Form Must Be Typed

ORIGINAL

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. \_\_\_\_\_

8/22/2007 8/27/2007 Pending  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 025-27256-00-00  
County: Wilson  
\_\_\_\_\_ SW \_\_\_\_\_ NW Sec. 5 Twp. 30 S. R. 14  East  West  
1835 feet from S /  (circle one) Line of Section  
159 feet from E /  (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE  (NW) SW  
Lease Name: Shire SWD Well #: 5-5  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Arbuckle Disposal  
Elevation: Ground: 947' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1803' Plug Back Total Depth: 1657'  
Amount of Surface Pipe Set and Cemented at 40 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1657  
feet depth to Surface w/ 260 sx cm.

Drilling Fluid Management Plan SWD SW 42909  
(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: 12-6-07  
Subscribed and sworn to before me this 6 day of December  
20 07.  
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  
copy to UIC 102

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

WICHITA, KS

DEC 10 2007

Operator Name: Layne Energy Operating, LLC Lease Name: Shire SWD CONSERVATION DIVISION # 5-5  
 Sec. 5 Twp. 30 S. R. 14  East  West County: Wilson **WICHITA, KS**

**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	964 GL	-17
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	1052 GL	-105
List All E. Logs Run:		V Shale	1124 GL	-177
Compensated Density Neutron		Mineral Coal	1169 GL	-222
Dual Induction		Mississippian	1374 GL	-427

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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	# Sacjs Used	Type and Percent Additives
Surface	11"	8.625"	24	40'	Class A	10	Type 1 cement
Casing	6.75"	5.5"	10.5	1657'	60/40 Pozmix	260	#5 KOL seal @ sx
							4% gel & 2% catlz @ 14# gal

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
	SI-waiting on completion		

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>SI - waiting on Docket approval</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	

Disposition of Gas      METHOD OF COMPLETION      Production Interval

Vented    Sold    Used on Lease       Open Hole    Perf.    Dually Comp.    Commingled

*(If vented, Submit ACO-18.)*       Other (Specify) Arbuckle Disposal Well

# GEOLOGIC REPORT

LAYNE ENERGY  
Shire 5-5 SWD  
SW NW, 1835 FNL, 159 FWL  
Section 5-T30S-R14E  
Wilson County, KS

Spud Date: 8/22/2007  
Drilling Completed: 8/27/2007  
Logged: 8/27/2007  
A.P.I. #: 15205272560000  
Ground Elevation: 947'  
Depth Driller: '  
Depth Logger: 1802'  
Surface Casing: 8.625 inches at 41'  
Production Casing: 5.5 inches at 1657'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, High Resolution  
Compensated Density/Neutron

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## Formation

	Tops	
	(below ground)	(subsea)
	Surface (Stranger Formation)	947
Douglas Group		
Pawnee Limestone	964	-17
Excello Shale	1,052	-105
"V" Shale	1,124	-177
Mineral Coal	1,169	-222
Mississippian	1,374	-427

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DEC 10 2007

CONSERVATION DIVISION  
WICHITA, KS

# Daily Well Work Report

SHIRE 5-5 SWD

8/22/2007

Well Location:  
WILSON KS  
30S-14E-5 SW NW  
1835FNL / 159FWL

Cost Center  
Lease Number G010158  
Property Code KSSY30S14E0505D  
API Number 15-205-27256

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
8/22/2007	8/27/2007			11/16/2007	SHIRE_5_5_SWD

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1803	1657	40	1657	0	0

<b>Reported By</b> krd	<b>Rig Number</b>	<b>Date</b> 8/22/2007
<b>Taken By</b> krd		<b>Down Time</b>
<b>Present Operation</b> Drill out from under surface		<b>Contractor</b> Thornton Drilling

## Narrative

MIRU Thornton Drilling, drilled 11' hole, 40' deep, rih w/2jt 8-5/8" surface casing. Mixed 10 sxs type 1 cement, dumped dn the back side. SDFN. DWC:\$3,160

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Wednesday, December 05, 2007

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CONSERVATION DIVISION  
WICHITA, KS

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

TICKET NUMBER 12555  
 LOCATION EUROPA  
 FOREMAN BOB LEONARD

TREATMENT REPORT & FIELD TICKET  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-28-07	4258	SHIRE SWD				Wilson
CUSTOMER <u>LAME Energy</u>		MAILING ADDRESS <u>P.O. Box 160</u>		CITY <u>Sycamore</u>		STATE <u>KS</u>
TRUCK #		DRIVER		TRUCK #		DRIVER
<u>485</u>		<u>ALM</u>		<u>439</u>		<u>JEFF</u>
STATE		ZIP CODE		CONFIDENTIAL		DEC 17 2007
<u>KS</u>				KCC		

JOB TYPE Logging HOLE SIZE 2 7/8" HOLE DEPTH 1460' CASING SIZE & WEIGHT 5 1/2"  
 CASING DEPTH 1657' DRILL PIPE \_\_\_\_\_ TUBING 2 7/8" OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14 # SLURRY VOL 69 bbl WATER gal/sk 7.0 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 5 1/2 bbl DISPLACEMENT PSI 700 MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Ran 1657' 5 1/2" casing w/ open hole packer w/ part collar. Ran 2 7/8" tubing w/ open + closing tool. Rig up to 2 7/8" tubing w/ wash head. Load 5 1/2" casing w/ water. Shut in annulus of tubing. open part collar. Break circulation w/ 10 bbl water. Pump 6 gal gel-flush, 10 bbl foam, 10 bbl water spacer mixed 260 sacks 60/40 Perm v cement w/ 5" Kalsol #2, 4% gel + 2% caust @ 14 #/bbl. yield 1.48. Packer w/ 5 1/2 bbl fresh water. close part collar. pressure casing to 1200 PSI. Tool closed. open annulus of 2 7/8" tubing. Back wash w/ 15 bbl water the short way. Back wash w/ 40 bbl water the long way. casing clean. pull tubing. shut casing in @ 0 PSI. Load cement returns to surface + 2 bbl slurry to pit. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	840.00	840.00
5406	40	MILEAGE	3.30	132.00
1131	260 sacks	60/40 Perm v cement	9.80	2548.00
1110A	1300 #	Kalsol 5" #2/34	.38	494.00
1118A	895 #	4% gel	.15	134.25
1109	450 #	2% caust	.67	301.50
1118A	300 #	gel-flush	.15	45.00
5407A	11.18	ton-mileage bulk ton	1.10	491.92
1143	1 gal	soap	35.45	35.45
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CONSERVATION DIVISION WICHITA, KS			Subtotal	5022.12
			6.38 SALES TAX	221.93
			ESTIMATED TOTAL	5244.05

AUTHORIZATION Witnessed by Justin TITLE Co. Rep. DATE 19492