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

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

11/25/10

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

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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>8/11/2008</u>	<u>8/13/2008</u>	<u>9/17/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27593-00-00  
County: Wilson  
\_\_\_\_\_ SE - SE Sec. 13 Twp. 29 S. R. 13  East  West  
378 feet from  N (circle one) Line of Section  
864 feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE  SE NW SW  
Lease Name: Garner Well #: 16-13  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 888' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1411' Plug Back Total Depth: 1406'  
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 1406  
feet depth to Surface w/ 205 <sup>sq gmt.</sup>  
*Att 2 - Dig - 11/6/09*

**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: [Signature]  
Title: Project Engineer Date: 11/25/08  
Subscribed and sworn to before me this 25 day of November,  
2008.  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2009

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

**KCC Office Use ONLY**

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

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WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Garner Well #: 16-13  
 Sec. 13 Twp. 29 S. R. 13  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 checked="" type="checkbox"/> Yes <input 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 style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>937 GL</td> <td>-49</td> </tr> <tr> <td>Excello Shale</td> <td>1028 GL</td> <td>-140</td> </tr> <tr> <td>V-Shale</td> <td>1100 GL</td> <td>-212</td> </tr> <tr> <td>Mississippian</td> <td>1355 GL</td> <td>-467</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	937 GL	-49	Excello Shale	1028 GL	-140	V-Shale	1100 GL	-212	Mississippian	1355 GL	-467
Name	Top	Datum														
Pawnee Lime	937 GL	-49														
Excello Shale	1028 GL	-140														
V-Shale	1100 GL	-212														
Mississippian	1355 GL	-467														

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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	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1406'	Thick Set	205	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	CONSERVATION DIVISION WICHITA, KS	
		2-3/8"	1221'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumerd Production, SWD or Enhr. 9/25/2008			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	50	0				

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

METHOD OF COMPLETION

Production Interval  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Garner 16-13		
	Sec. 13 Twp. 29S Rng. 13E, Wilson County		
<b>API:</b>	15-205-27593-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (September 2008)</b>			
4	Mineral 1159' - 1160.5'	2500 lbs 20/40 sand 184 bbls water 100 gals 15% HCl acid	1159' - 1160.5'
4	Croweburg 1100.5' - 1103' Bevier 1085' - 1086.5'	6400 lbs 20/40 sand 367 bbls water 480 gals 15% HCl acid	1085' - 1103'
4	Mulky 1028.5' - 1032.5' Summit 1015.5' - 1017.5'	8300 lbs 20/40 sand 426 bbls water 420 gals 15% HCl acid	1015.5' - 1032.5'
4	Mulberry 933' - 934.5'	2900 lbs 20/40 sand 417 bbls water 450 gals 15% HCl acid	933' - 934.5'

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# GEOLOGIC REPORT

LAYNE ENERGY  
Garner 16-13  
SE SE, 378 FSL, 864 FEL  
Section 13-T29S-R13E  
Wilson County, KS

Spud Date: 8/11/2008  
Drilling Completed: 8/13/2008  
Logged: 8/13/2008  
A.P.I. #: 15205275930000  
Ground Elevation: 888'  
Depth Driller: 1406'  
Depth Logger: 1412'  
Surface Casing: 8.625 inches at 40'  
Production Casing: 4.5 inches at 1406'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

Formation	Tops	
	(below ground)	(subsea)
Quaternary	Surface (Alluvium)	888
Pawnee Limestone	937	-49
Excello Shale	1,028	-140
"V" Shale	1,100	-212
Mineral Coal		
Mississippian	1,355	-467

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# Daily Well Work Report

GARNER 16-13

8/13/2008

**Well Location:**  
WILSON KS  
29S-13E-13 SE SE  
378FSL / 864FEL

**Cost Center** G01016000200  
**Lease Number** G010160  
**Property Code** KSSY29S13E1316  
**API Number** 15-205-27593

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
8/11/2008	8/13/2008	9/17/2008	9/25/2008	9/25/2008	GARNER_16_13

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1411	1406	40	1406	0	0

<b>Reported By</b> krd	<b>Rig Number</b>	<b>Date</b> 8/11/2008
<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, 40' DEEP, RIH W/2 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.  
DWC:\$3160

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**CONSOLIDATED**  
Oil Well Services, LLC

ENTERED

TICKET NUMBER 18897  
LOCATION Eureka KS  
FOREMAN Troy Strickler

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
8-14-08	4758	Garner 16 13				Wilson
CUSTOMER <u>Layne Energy</u>			Gus Jones			
MAILING ADDRESS <u>Po. Box 160</u>						
CITY <u>Sycamore</u>	STATE <u>Ks</u>	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
			<u>520</u>	<u>Cliff</u>	<u>NOV 25 2008</u>	
			<u>515</u>	<u>Terrid</u>	<b>CONFIDENTIAL</b>	

JOB TYPE long string HOLE SIZE 6 3/4" HOLE DEPTH 1411' CASING SIZE & WEIGHT 4 1/2" x 10.5#  
 CASING DEPTH 1408' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.9 # SLURRY VOL 51 bbl WATER gal/sk 6 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 22.8 bbl DISPLACEMENT PSI 700# MIX PSI 1200# RATE \_\_\_\_\_

REMARKS: Safety meeting Rig up to 4 1/2" casing Break Circulation w/ 70 bbl fresh water Pump to sks Gel-flush w/hulls 5bbl water spacer, mixed 205 sks 50/50 Poz mix cement w/ 2% caclz, 2% Gel, 4# Kol Seal, 3# Cal Seal 1/8" phenoseal, 1/2% FL-110, + 1/4% Caf-38 @ 13.9# per gal yield 1.40 wash out pump and lines, shut down, release plug, Displace w/22.8 bbl fresh water. Final pump pressure 700psi bump plug to 1200psi, wait 2 minutes, release pressure float held. Good cement returns to surface 9 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	925.00	925.00
5406	n/c well #2 of 2	MILEAGE	n/c	n/c
1124	205 SKS	50/50 Poz Mix Cement	9.75	1998.75
1102	345 #	2% Caclz	.75	258.75
1118 A	345 #	2% Gel	.17	58.65
1110 A	820 #	4# Kol Seal per/sk	.42	344.40
1101	615 #	3# Cal Seal per/sk	.36	221.40
1107 A	25 #	1/8" phenoseal per/sk	1.15	28.75
1135	86 #	1/2% FL-110	7.50	645.00
1146	43 #	1/4% Caf-38	7.70	331.10
1118 A	300 #	gel flush	.17	51.00
1105	50 #	hulls	.39	19.50
5407 A	8.61	tan mileage bulk truck	1.20	10.332
4404	1	4 1/2" top rubber plug	45.00	45.00
5605 A	4 hrs	welder	85.00	340.00
4311	1	4 1/2" Weld on Collar	60.00	60.00
			SALES TAX	255.94
			ESTIMATED TOTAL	5996.52

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AUTHORIZATION \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_