

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

5/28/10

**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. \_\_\_\_\_

2/27/2008      3/3/2008      4/16/2008  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 049-22500-00-00      AMENDED  
County: Elk

SE  SE  SW Sec. 15 Twp. 30 S. R. 13  East  West  
438 feet from  S  N (circle one) Line of Section  
2159 feet from E /  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW  SW  
Lease Name: Shay Well #: 14-15

Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals

Elevation: Ground: 1041' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1887' Plug Back Total Depth: 1886'

Amount of Surface Pipe Set and Cemented at 41 Feet  
Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1886  
feet depth to Surface w/ 260 sx cmt.

**Drilling Fluid Management Plan** DNA NO 7-15-09  
(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.: \_\_\_\_\_

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**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: 6/19/2009  
Subscribed and sworn to before me this 19 day of June  
20 09.  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2013

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
**RECEIVED**  
**JUN 25 2009**  
**KCC WICHITA**

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

Operator Name: Layne Energy Operating, LLC Lease Name: Shay Well #: 14-15  
 Sec. 15 Twp. 30 S. R. 13  East  West County: Elk

**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:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>1181 GL</td> <td>-140</td> </tr> <tr> <td>Excello Shale</td> <td>1271 GL</td> <td>-230</td> </tr> <tr> <td>V-Shale</td> <td>1341 GL</td> <td>-300</td> </tr> <tr> <td>Mineral Coal</td> <td>1383 GL</td> <td>-342</td> </tr> <tr> <td>Mississippian</td> <td>1582 GL</td> <td>-541</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	1181 GL	-140	Excello Shale	1271 GL	-230	V-Shale	1341 GL	-300	Mineral Coal	1383 GL	-342	Mississippian	1582 GL	-541
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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	41'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1886'	Thick Set	260	50/50 posmix w/2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
..... Perforate				
..... Protect Casing				
..... Plug Back TD				
..... 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	CONFIDENTIAL	

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>1642'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	KCC WICHITA
Date of First, Resumerd Production, SWD or Enhr. <u>2/12/2009</u>		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 Bbbls. <u>0</u>	Gas Mcf <u>25</u>	Water Bbbls. <u>0</u>	Gas-Oil Ratio	Gravity

Disposition of Gas  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

(If vented, Submit ACO-18.)

RECEIVED  
JUN 25 2009

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Shay 14-15		
	Sec. 15 Twp. 30S Rng. 13E, Elk County		
<b>API:</b>	15-049-22500-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (March/April 2008)</b>			
4	Chattanooga Shale 1878' - 1884'	4300 lbs 20/40 sand 408 bbls water 300 gals 15% HCl acid	1878' - 1884'
4	Riverton 1567' - 1569'	1600 lbs 20/40 sand 253 bbls water 446 gals 15% HCl acid	1567' - 1569'
4	Croweburg 1341.5' - 1344.5'	3700 lbs 20/40 sand 244 bbls water 400 gals 15% HCl acid	1341.5' - 1344.5'
4	Mulky 1271.5' - 1274.5' Summit 1257' - 1258.5'	7100 lbs 20/40 sand 379 bbls water 500 gals 15% HCl acid	1257' - 1274.5'
4	Anna Shale 1205.5' - 1207' Mulberry 1177' - 1178.5'	5200 lbs 20/40 sand 324 bbls water 500 gals 15% HCl acid	1177' - 1207'

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