



Operator Name: Layne Energy Operating, LLC Lease Name: Elliot Well #: 14-21  
 Sec. 21 Twp. 29 S. R. 12  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 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 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>1383 GL</td> <td>-283</td> </tr> <tr> <td>Excello Shale</td> <td>1464 GL</td> <td>-364</td> </tr> <tr> <td>V-Shale</td> <td>1538 GL</td> <td>-438</td> </tr> <tr> <td>Mississippian</td> <td>1761 GL</td> <td>-661</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	1383 GL	-283	Excello Shale	1464 GL	-364	V-Shale	1538 GL	-438	Mississippian	1761 GL	-661
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V-Shale	1538 GL	-438														
Mississippian	1761 GL	-661														

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	43'	Class A	10	Type 1
Casing	6.75"	4.5"	10.5	1753'	Thick Set	185	10# KOL seal @ sack

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	<div style="font-size: 2em; font-weight: bold; opacity: 0.5;">CONFIDENTIAL</div>			

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		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	1213'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method		
SI-Waiting for Pipeline		<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	RECEIVED KANSAS CORPORATION COMMISSION
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____		APR 03 2008

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Elliot 14-21		
	Sec. 21 Twp. 29S Rng. 12E, Elk County		
<b>API:</b>	15-049-22455-00-01		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (September 2007)</b>			
4	V-Shale 1538' - 1542' Bevier 1523' - 1524'	7000 lbs 20/40 sand 624 bbis water w/ 1% KCL & biocide 500 gals 15% HCl acid	1523' - 1542'
4	Excello 1465' - 1468'	5300 lbs 20/40 sand 426 bbis water w/ 1% KCL & biocide 350 gals 15% HCl acid	1465' - 1468'
4	Mulberry 1378.5' - 1380'	3000 lbs 20/40 sand 300 bbis water w/ 1% KCL & biocide 350 gals 15% HCl acid	1378.5' - 1380'
<b>Recompletion Perforations (December 2007)</b>			
4	Hushpuckney 1149.5' - 1152'	4999 lbs 20/40 sand 365 bbis water w/ 1% KCL & biocide 300 gals 15% HCl acid	1149.5' - 1152'

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