



Operator Name: Layne Energy Operating, LLC Lease Name: Blake Well #: 4-16  
 Sec. 16 Twp. 31 S. R. 15  East  West County: Montgomery

**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	886 GL	106
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	1005 GL	-13
List All E. Logs Run:		V Shale	1061 GL	-69
Compensated Density Neutron		Mineral Coal	1102 GL	-110
Dual Induction		Mississippian	1386 GL	-394

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	8.65	24	21'	Class A	4	Type 1 cement
Casing	6.75	4.5	10.5	1477'	Thick Set	150	

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 <i>(Amount and Kind of Material Used)</i>	Depth
	See Attached		
		<b>RECEIVED</b>	
		<b>KANSAS CORPORATION COMMISSION</b>	
		<b>MAY 31 2006</b>	
		<b>CONSERVATION DIVISION</b>	
		<b>WICHITA, KS</b>	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8"	1228'			
Date of First, Resumed Production, SWD or Enhr.			Producing Method			
3/24/2006			<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	5	64			

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

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Blake 4-16		
	Sec. 16 Twp. 31S Rng. 15E, Montgomery County		
<b>API:</b>	15-125-30977		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	1061.5-1064, 1101.5-1105.5, 1168.5-1170, 1041-1044	Weir, Mineral, Croweberg, Ironpost-ATP 931, 15 min SI 511, 5900# 20/40 sand, 1650 gal 15% HCl acid, 589 bbls wtr	1041-1064
4	1005-1011, 986.5-990.5, 878.5-880	Mulky, Summit, Mulberry-ATP 1050, 15 min SI 703, 5200# 20/40 sand, 1725 gal 15% HCl acid, 447 bbls wtr	878.5-1011

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

TICKET NUMBER 08366  
LOCATION Eureka  
FOREMAN Troy Strickler

TREATMENT REPORT & FIELD TICKET  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																				
3-1-06	4758	Blake 4-16				MG																				
CUSTOMER <u>Layne Energy</u>		<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>463</td> <td>Alan</td> <td></td> <td></td> </tr> <tr> <td>479</td> <td>Calin</td> <td></td> <td></td> </tr> <tr> <td>436</td> <td>John</td> <td></td> <td></td> </tr> <tr> <td>452/T63</td> <td>Jim</td> <td></td> <td></td> </tr> </tbody> </table>					TRUCK #	DRIVER	TRUCK #	DRIVER	463	Alan			479	Calin			436	John			452/T63	Jim		
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463	Alan																									
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436	John																									
452/T63	Jim																									
MAILING ADDRESS <u>P.O. Box 160</u>																										
CITY <u>Sycamore</u>	STATE <u>Ks</u>	ZIP CODE																								
Gus Jones #2																										

JOB TYPE Longstring HOLE SIZE 6 5/8 HOLE DEPTH 1482' CASING SIZE & WEIGHT 4 1/2" 10.5# New  
CASING DEPTH 1477' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 13.2# SLURRY VOL 46.7Bbl WATER gal/sk 80 CEMENT LEFT in CASING 0'  
DISPLACEMENT 23.5Bbl DISPLACEMENT PSI 700 PSI 1200 Bump Plug RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Break Circulation w/ 30Bbl Fresh Water. Pump 4sk Gel Flush, 5Bbl water spacer, 10Bbl Metasilicate Pre-Flush, 14Bbl Dye Water. Mixed 150sks Thick Set Cement w/ 10# Perf/sk Kol-Seal @ 13.2# Perf/gal, yield 1.75. Wash out Pump + lines Shut Down. Released Plug. Displaced w/ 23.5Bbl Fresh Water. Final Pump Pressure 700 PSI. Bump Plug to 1200 PSI. Wait 2mins. Check Float. Float Held. Good Cement to Surface = 7Bbl Slurry to Pit.

Job Complete.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	800.00	800.00
5406	40	MILEAGE 1st of 2	3.15	126.00
1126A	150sks	Thick Set Cement	13.65	2047.50
1110A	30sks	Kol-Seal 10# Perf/sk	17.75	532.50
1118A	4sks	Gel - Flush	7.00	28.00
1111A	50#	Metasilicate pre-Flush	1.65#	82.50
5407A	8.25 Ton	Ton-mileage Bulk Truck	1.05	346.50
5501C	3hrs	Water Transport	98.00	294.00
5502C	3hrs.	80Bbl Vac Truck	90.00	270.00
1123	6000gal	City Water	12.81	76.80
4404	1	4 1/2" Top Rubber Plug	40.00	40.00
		Thank You!	Sub total	4643.80
			532 SALE TAX	148.78
			ESTIMATED TOTAL	4792.58

AUTHORIZATION Called by John Ed TITLE \_\_\_\_\_ DATE \_\_\_\_\_

MAY 3 1 2006

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**GEOLOGIC REPORT**

LAYNE ENERGY  
Blake 4-16  
NW NW, 660 FNL, 660 FWL  
Section 16-T31S-R15E  
Montgomery County, KS

Spud Date: 2/24/2006  
Drilling Completed: 2/28/2006  
Logged: 2/28/2006  
A.P.I. #: 15-125-30977  
Ground Elevation: 992'  
Depth Driller: 1482'  
Depth Logger: 1482'  
Surface Casing: 8.625 inches at 20'  
Production Casing: 4.5 inches at 1477'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, High Resolution  
Compensated Density/Neutron

**Formation**

Lansing Group  
Pawnee Limestone  
Excello Shale  
"V" Shale  
Mineral Coal  
Mississippian

**Tops (in feet below ground level)**

Surface (Stoner Limestone Member)  
886  
1,005  
1,061  
1,102  
1,386