



Operator Name: Layne Energy Operating, LLC Lease Name: Friess JD Well #: 2A-18  
 Sec. 18 Twp. 31 S. R. 17  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 <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;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Pawnee Lime</td> <td>629 GL</td> <td>318</td> </tr> <tr> <td>Excello Shale</td> <td>767 GL</td> <td>180</td> </tr> <tr> <td>V-Shale</td> <td>821 GL</td> <td>126</td> </tr> <tr> <td>Mineral Coal</td> <td>861 GL</td> <td>86</td> </tr> <tr> <td>Mississippi</td> <td>1164 GL</td> <td>-217</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	629 GL	318	Excello Shale	767 GL	180	V-Shale	821 GL	126	Mineral Coal	861 GL	86	Mississippi	1164 GL	-217
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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	21'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1192'	Thick Set	165	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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		<b>JUL 02 2008</b>	
		CONSERVATION DIVISION WICHITA, KS	
<b>TUBING RECORD</b> Size <u>2-3/8"</u> Set At <u>1163'</u> Packer At <u> </u>		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumerd Production, SWD or Enhr. <u>4/25/2008</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 <u>0</u>	Oil Bbls. <u>0</u>	Gas Mcf <u>31</u>	Water Bbls. <u>0</u>
		Gas-Oil Ratio	Gravity

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

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Friess JD 2A-18		
	Sec. 18 Twp. 31S Rng. 17E, Montgomery County		
<b>API:</b>	15-125-31583-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (April 2008)</b>			
4	Riverton 1145.5' - 1148'	3600 lbs 20/40 sand 514 bbls water 300 gals 15% HCl acid	1145.5' - 1148'
4	Bluejacket 978.5' - 980'	2500 lbs 20/40 sand 188 bbls water 300 gals 15% HCl acid	978.5' - 980'
4	Mineral 860.5' - 862' Croweburg 821' - 824' Iron Post 798' - 800'	7900 lbs 20/40 sand 457 bbls water 500 gals 15% HCl acid	798' - 862'
4	Mulky 768' - 773'	6200 lbs 20/40 sand 251 bbls water 350 gals 15% HCl acid	768' - 773'
4	Summit 743' - 746'	3200 lbs 20/40 sand 204 bbls water 350 gals 15% HCl acid	743' - 746'

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# GEOLOGIC REPORT

LAYNE ENERGY  
Friess 2A-18  
NW NE, 415 FNL, 3655 FWL  
Section 18-T31S-R17E  
Montgomery County, KS

Spud Date: 4/3/2008  
Drilling Completed: 4/7/2008  
Logged: 4/7/2008  
A.P.I. #: 15125315830000  
Ground Elevation: 947'  
Depth Driller: 1196'  
Depth Logger: 1196'  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1192'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

Formation	Tops	
	(below ground)	(subsea)
Kansas City Group	Surface (Cottage	
Pawnee Limestone	Grove Sandstone)	947
Excello Shale	629	318
"V" Shale	767	180
Mineral Coal	821	126
Mississippian	861	86
	1,164	-217

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# Daily Well Work Report

FRIESS JD 2A-18

4/3/2008

**Well Location:**  
MONTGOMERY KS  
31S-17E-18 NE NW NE  
415FNL / 3655FWL

**Cost Center** C01025400300  
**Lease Number** C010254  
**Property Code** KSCV31S17E1802A  
**API Number** 15-125-31583

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
4/3/2008	4/7/2008	4/22/2008	4/25/2008	4/25/2008	FRIESS_2A_18

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1196	1192	21	1192	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 4/3/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> THORNTON

## Narrative

MIRU THORNTON, DRILLED 11" HOLE 21' DEEP, RIH W/ 1 JOINT 8-5/8" CASING. MIXED 4 SX TYPE 1 CEMENT AND DUMPED DOWN THE BACKSIDE. SDFN. DWC:\$2,880

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



**ENTERED**

TICKET NUMBER 13836

LOCATION EUREKA

FOREMAN KEVIN McCOY

**TREATMENT REPORT & FIELD TICKET  
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
4-7-08	4158	FRIESS 2A-18				MC												
CUSTOMER Layne Energy			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>445</td> <td>Justin</td> <td></td> <td></td> </tr> <tr> <td>502</td> <td>Phillyp</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	445	Justin			502	Phillyp		
TRUCK #	DRIVER	TRUCK #					DRIVER											
445	Justin																	
502	Phillyp																	
MAILING ADDRESS P.O. Box 160																		
CITY Sycamore	STATE Ks	ZIP CODE																

JOB TYPE Longstring HOLE SIZE 6 7/8 HOLE DEPTH 1196' CASING SIZE & WEIGHT 4 1/2 10.5" NEW  
 CASING DEPTH 1192' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.9\* SLURRY VOL 41 BBL WATER gal/sk 6.1 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 19 BBL DISPLACEMENT PSI 600  PSI 1100 Bump Plug RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2 Casing. Break Circulation w/ 25 BBL Fresh water. Pump 6 SKS Gel Flush w/ HULLS, 15 BBL water Spacer, 5 BBL Dye water. Mixed 165 SKS 50/50 Pozmix Cement w/ 2% Gel, 2% CaCl2, 4" Kol-Seal, 3" Cal-Seal, 1/4" Floccate, 1/2% CFL-110, 1/4% CAF-38 @ 13.9\*/gal, yield 1.40. Wash out Pump & Lines. Shut down. Release Plug. Displace w/ 19 BBL Fresh water. Final Pumping Pressure 600 PSI. Bump Plug to 1100 PSI. Wait 2 minutes. Release Pressure, Float Held. Good Cement Returns to Surface = 12 BBL Slurry (48 SKS) to Pit. Job Complete. Rig down.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	875.00	875.00
5406	40	MILEAGE	3.45	138.00
1124	165 SKS	50/50 Pozmix Cement	9.30	1534.50
1118 A	275*	Gel 2%	.16*	44.00
1102	275*	CaCl2 2%	.70*	192.50
1110 A	660*	Kol-Seal 4"/sk	.40*	264.00
1101	495*	Cal-Seal 3"/sk	.35*	173.25
1107	41*	Floccate 1/4"/sk	1.98*	81.18
1135	70*	CFL-160 1/2%	7.15*	500.50
1146	35*	CAF-38 1/4%	7.30*	255.50
1118 A	300*	Gel Flush	.16*	48.00
1105	50*	Hulls	.37*	18.50
5407 A	6.93 TONS	40 miles Bulk Truck	1.14	316.00
4404	1	4 1/2 Top Rubber Plug	42.00	42.00
			Sub Total	4492.93
		THANK YOU	SALES TAX 5.3%	167.15
			ESTIMATED TOTAL	4650.08

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AUTHORIZATION witnessed By Jacob

TITLE Layne Co. Rep.

DATE \_\_\_\_\_

4650.08