

Operator Name: Layne Energy Operating, LLC. Lease Name: Chism Well #: 12-31
 Sec. 31 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	917 GL 44
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	1069 GL -108
List All E. Logs Run:		V Shale	1117 GL -156
Compensated Density Neutron		Mineral Coal	1163 GL -202
Dual Induction		Mississippian	1417 GL -456

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	20	Class A	4	Type 1 cement
Casing	7 7/8	5.5	15.5	1513	Thick Set	190	

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 <i>(Amount and Kind of Material Used)</i>	Depth
	See Attached	KCC	
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TUBING RECORD	Size <u>2 3/8</u>	Set At <u>1452</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>August 21, 2004</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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		<u>10.7</u>	<u>258</u>	

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented	<input checked="" type="checkbox"/> Sold RECEIVED <i>(If KANSAS CORPORATION COMMISSION)</i>	<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)	

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Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Chism 12-31		
	Sec. 31 Twp. 31S Rng. 15E, Montgomery County		
API:	15-125-30536		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
4	1409-1410.5, 1367.5-1370	Riverton, Rowe: 700G 15% HCL Acid, 418bbls 1% KCL Water, 3150# 20/40 Sand, Balls	1370-1410.5
4	1247-1251, 1239.5-1242.5, 1212.5-1213.5, 1162.5-1164.5	Sycamore Shale, Weir, Tebo, Mineral: 1225G 15% HCL Acid, 620 bbls 1% KCL Water, 5356# 20/40 Sand, Balls	1162.5-1251
4	1119-1120, 1094.5-1096, 1067-1072.5, 1042-1045, 913.5-914.5	Croweburg, Bevier, Mulky, Summit & Mulberry: 1875G 15% HCL Acid, 731 bbls 1% KCL Water, 6617# 20/40 Sand, Balls	913.5-1120

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GEOLOGIC REPORT

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LAYNE ENERGY
Chism 12-31
NW ¼, SW ¼, 1,945' FSL, 578' FWL
Section 31-T31S-R15E
MONTGOMERY COUNTY, KANSAS

Drilled: July 15-19, 2004
Logged: July 19, 2004
A.P.I.# 15-125-30536
Ground Elevation: 961'
Depth Driller: 1,515'
Depth Logger: 1,516'
Surface Casing: 8 5/8" @ 20'
Production Casing: 5 1/2" @ 1,513'
Cemented Job: Consolidated
Open Hole Logs: Compensated density neutron log, dual induction sfl/gr log

FORMATION	TOPS (in feet below ground surface)
Lansing Group	Surface (Captain Creek Limestone Member)
Lenapah Lime	729
Altamont Lime	776
Mulberry Coal	914
Pawnee Lime	917
Anna Shale	941
First Oswego Lime	1,010
Little Osage Shale	1,043
Excello Shale	1,069
Mulky Coal	1,072
Iron Post Coal	1,094
"V" Shale	1,117
Croweburg Coal	1,119
Mineral Coal	1,163
Tebo Coal	1,212
Weir Pitt Coal	1,240
AW Coal	1,368
Riverton Coal	1,410
Mississippian	1,417

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CONSOLIDATED OIL WELL SERVICES, II...
211 W. 14TH STREET, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

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TICKET NUMBER 1391

LOCATION Eureka

FOREMAN Brad Butler

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WICHITA, KS

TREATMENT REPORT & FIELD TICKET
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-20-04	4758	Chism 12-31				Montgomery
CUSTOMER <u>Layne Energy</u>						
MAILING ADDRESS <u>P.O. Box 160</u>						
CITY <u>Sycamore</u>	STATE <u>KS</u>	ZIP CODE				

TRUCK #	DRIVER	TRUCK #	DRIVER
446	Rick		
436	Ed	441	Alan

JOB TYPE Logging HOLE SIZE 7 7/8" HOLE DEPTH 1575' CASING SIZE & WEIGHT 5 1/2" - 15.5 lb
 CASING DEPTH 1573' DRILL PIPE 1 1/2" ~~TRIP~~ PBTD 1570' OTHER _____
 SLURRY WEIGHT 13² SLURRY VOL 11 Bbl WATER gal/sk _____ CEMENT LEFT in CASING 3'
 DISPLACEMENT 36 Bbls DISPLACEMENT PSI 600 MIX PSI _____ RATE 3 BPM

REMARKS: Safety Meeting: Rig up to 5 1/2" casing, break circulation with fresh water, wash casing to bottom
circulate hole clean. Pump 5 Bbl. Metasilicate. Preflush, followed with 25 Bbls. Dye water.
Mixed 190 SKS. Thick Set cement w/ 10" PYSK of KOL-SEAL at 132 lbs. P/GAL., shutdown
washout pump & lines - Release Plug - Displace Plug with 36 Bbls water.
Final pumping at 600 PSI - Bumped Plug to 1100 PSI - wait 2 min. Release Pressure - Float Held
close casing in with OPST Good cement returns to surface w/ 11 Bbl slurry
Job complete - Tear down

"Thank you"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	710.00	710.00
	0	MILEAGE		N/C
1126A	190 SKS.	Thick Set Cement	11.85	2251.50
1110 A	38 SKS.	KOL-SEAL 10" PYSK	15.75	598.50
1111 A	50 lbs.	Metasilicate Preflush	1.40 lb.	70.00
5502 C	4 Hrs.	80 Bbl. VAC Truck KCC	78.00	312.00
1123	3000 GAL.	City water	11.50 P/GAL	34.50
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5605 A	4 Hrs.	Welder	70.00	280.00
4406	1	5 1/2" Top Rubber Plug	40.00	40.00
5407 A	10.45 Ton	25 miles	.85	222.06
		5.3%	SALES TAX	158.71
			ESTIMATED TOTAL	4679.27

