

**ORIGINAL  
CONFIDENTIAL**

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

**RECEIVED  
KANSAS CORPORATION COMMISSION**

**MAR 02 2006**

Form ACO-1  
September 1999  
Form Must Be Typed

**CONSERVATION DIVISION  
WICHITA, KS**

Operator: License # 33365  
Name: Layne Energy Operating, LLC  
Address: 1900 Shawnee Mission Parkway  
City/State/Zip: Mission Woods, KS 66205  
Purchaser: \_\_\_\_\_  
Operator Contact Person: M. B. Natrass  
Phone: (913) 748-3987  
Contractor: Name: MOKAT Drilling  
License: 5831

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. \_\_\_\_\_

<u>11/4/2005</u>	<u>11/8/2005</u>	<u>11/22/2005</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-26218 0000  
County: Wilson  
W/2 SE SE SE Sec. 34 Twp. 30 S. R. 14  East  West  
608 feet from  N (circle one) Line of Section  
902 feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Metzger Well #: 16-34  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 915' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1488' Plug Back Total Depth: 1475'  
Amount of Surface Pipe Set and Cemented at 21' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1481'  
feet depth to Surface w/ 160 sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit) *ALT II WITH 3-10-08*  
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.: \_\_\_\_\_

**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: MB Natrass  
Title: Agent Date: 3/1/06  
Subscribed and sworn to before me this 1 day of March  
20 06  
Notary Public: Brooke C. Maxfield  
Date Commission Expires: 12/28/09

**KCC Office Use ONLY**

Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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**MAR 01 2006**  
**KCC**

**NOTARY PUBLIC - State Of Kansas**  
**BROOKE C. MAXFIELD**  
My Appl. Exp. 12/28/09

Operator Name: Layne Energy Operating, LLC Lease Name: Metzger Well #: 16-34  
 Sec. 34 Twp. 30 S. R. 14  East  West County: Wilson

**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	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>876 GL</td> <td>39</td> </tr> <tr> <td>Excello Shale</td> <td>1009 GL</td> <td>-94</td> </tr> <tr> <td>V Shale</td> <td>1079 GL</td> <td>-164</td> </tr> <tr> <td>Mineral Coal</td> <td>1122 GL</td> <td>-207</td> </tr> <tr> <td>Mississippian</td> <td>1403 GL</td> <td>-488</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Pawnee Lime	876 GL	39	Excello Shale	1009 GL	-94	V Shale	1079 GL	-164	Mineral Coal	1122 GL	-207	Mississippian	1403 GL	-488
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																				
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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	8.65	24	21'	Class A	4	Type 1 cement
Casing	6.75	4.5	10.5	1481'	Thick Set	150	

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	<b>RECEIVED</b> <b>KANSAS CORPORATION COMMISSION</b> <b>MAR 02 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"	1374'			
Date of First, Resumerd Production, SWD or Enhr.			Producing Method			
1/14/2006			<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	35	91			

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 checked="" type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	

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<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Metzger 16-34		
	Sec. 34 Twp. 30S Rng. 14E, Montgomery County		
<b>API:</b>	15-205-26218		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	1336.5-1339, 1233-1234, 1198.5-1201, 1122-1123.5	Rowe, Bluejacket, Weir, Mineral - 4300# 20/40 sand, 1400 gal 15% HCl acid, 486 bbls wtr, ATP 833, 15 min SI 444	1122-1339
4	1079.5-1081.5, 1060-1062.5, 1008.5-1013, 992-994.5, 874.5-876	Croweberg, Ironpost, Mulky, Summit, Mulberry-ATP 926 psi, 15 min SI- 608, 6600# 20/40 sand, 2274 gal 15% HCl acid, 573 bbls wtr	874.5-1081.5

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**WICHITA, KS**

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# GEOLOGIC REPORT

LAYNE ENERGY

Metzger 16-34

SE 1/4, SE 1/4, 608' FSL, 902' FEL

Section 34-T30S-R14E

WILSON COUNTY, KANSAS

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KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION  
WICHITA, KS

Drilled: November 4-8, 2005

Logged: November 8, 2005

A.P.I.# 15-205-26218

Ground Elevation: 915'

Depth Driller: 1,488'

Depth Logger: 1,487'

Surface Casing: 8 5/8" @ 21'

Production Casing: 4 1/2" @ 1,485'

Cemented Job: Consolidated

Open Hole Logs: Compensated density neutron log, dual induction sfl/gr log

**FORMATION ..... TOPS (in feet below ground surface)**

Douglas Group ..... Surface (Stranger Formation)

Lenapah Lime ..... 702

Altamont Lime ..... 747

Mulberry Coal ..... 875

Pawnee Lime ..... 876

Anna Shale ..... 913

First Oswego Lime ..... 963

Little Osage Shale ..... 992

Excello Shale ..... 1,009

Mulky Coal ..... 1,012

Iron Post Coal ..... 1,060

"V" Shale ..... 1,079

Croweburg Coal ..... 1,081

Mineral Coal ..... 1,122

Weir Pitt Coal ..... 1,199

Bluejacket Coal ..... 1,233

AW Coal ..... 1,337

Mississippian ..... 1,403



CONSOLIDATED OIL WELL SERVICES, INC.  
 P.O. BOX 884, CHANUTE, KS 66720  
 20-431-9210 OR 800-467-8676

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MAR 02 2006

TICKET NUMBER 07804

LOCATION Eureka

FOREMAN Troy Strickler

CONSERVATION DIVISION  
 WICHITA, KS  
 TREATMENT REPORT & CEMENT TICKET

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-9-05	4758	Metzger 16-34				Wilson
CUSTOMER <u>Layne Energy</u>		Gus Jones Rd 2	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 160</u>			463	Alan		
CITY <u>Sycamore</u>			479	Calin		
STATE <u>Ks</u>	ZIP CODE		438	Steve		

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1488' CASING SIZE & WEIGHT 4 1/2"  
 CASING DEPTH 1481' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER P80 1475'  
 CEMENT WEIGHT 13.2<sup>2</sup> SLURRY VOL 47861 WATER gal/sk 8<sup>0</sup> CEMENT LEFT IN CASING 6'  
 DISPLACEMENT 23.5 Bbl DISPLACEMENT PSI 800 PSI BUMP PSI 1400 Bump Plug RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Break Circulation w/ 35 Bbl Fresh Water Pump 4skts Gel Flush, 5 Bbl spacer, 10 Bbl Metasilicate Pre-Flush, 16 Bbl Dye water, mixed 150skts Thickset Cement w/ 10" Kol-Seal Perfs @ 13.2 # Per gal - Yield 1.75. Wash out Pump + lines. Shut down Release Plug. Displace w/ 23.5 Bbl water. Final Pump pressure 800 PSI Bump Plug to 1400 PSI. Wait 2min Released Pressure Float Heb. Good Cement Returns to surface = 8 Bbl slurry to Pit. Job Complete Rig down.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	765.00	765.00
5406	40	MILEAGE	3.00	120.00
		CONFIDENTIAL MAR 01 2006		
1126 A	150skts	Thick Set Cement	13.00	1950.00
1110 A	30skts	Kol-Seal 10" Perfs KCC	16.90	507.00
1118 A	4skts	Gel - Flush	6.63	26.52
1111 A	50 <sup>#</sup>	Metasilicate Pre-Flush	1.55 <sup>#</sup>	77.50
5407 A	8.25 tons	40 miles Bulk Truck	1.00	330.00
4404	1	4 1/2 Top Rubber Plug	38.00	38.00
5605 A	4hrs	Welder	75.00	300.00
4311	1	weld on Collar	48.00	48.00
5502 C	4hrs	80 Bbl Vac Truck	87.00	348.00
1123	300gal	City water	12.20 <sup>per gal</sup>	36.60
		Thank You!	Sub Total	4546.62
			6.3% SALES TAX	169.06
			ESTIMATED TOTAL	4715.68

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_