

ORIGINAL

AMENDED  
KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

CONFIDENTIAL

10-13-07

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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: Thorton Air  
License: 33606

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>6/21/2005</u>	<u>6/22/2005</u>	<u>8/24/2005</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-30788-00-00  
County: Montgomery  
\_\_\_\_\_ se \_\_\_\_\_ sw \_\_\_\_\_ se Sec. 9 Twp. 33 S. R. 16  East  West  
358 feet from (S) N (circle one) Line of Section  
1594 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Muller Well #: 15-9  
Field Name: Brewster

Producing Formation: Cherokee Coals  
Elevation: Ground: 744' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1171' Plug Back Total Depth: 1156'  
Amount of Surface Pipe Set and Cemented at 20 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1167'  
feet depth to Surface w/ 130 sx cmt.

Drilling Fluid Management Plan ALWAYS  
(Data must be collected from the Reserve Pit) 8-23-07  
Chloride content N/A ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used N/A - Air Drilled

Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_ **RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
Lease Name: \_\_\_\_\_ License No. \_\_\_\_\_  
**DEC 05 2005**  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R.  East  West  
County: \_\_\_\_\_ Docket No. \_\_\_\_\_ **CONSERVATION DIVISION**  
**WICHITA, KS**

**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: 10/13/05  
Subscribed and sworn to before me this 2<sup>nd</sup> day of December  
20 05  
Notary Public: [Signature]  
Date Commission Expires: 10/14/2008

**KCC Office Use ONLY**  
Y Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
\_\_\_\_\_ Wireline Log Received  
\_\_\_\_\_ Geologist Report Received  
\_\_\_\_\_ UIC Distribution

 **MARGARET ALLEN**  
Notary Public - State of Kansas  
My Appt. Expires 10/14/2008

Operator Name: Layne Energy Operating, LLC Lease Name: Muller Well #: 15-9  
 Sec. 9 Twp. 33 S. R. 16  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	467 GL	277
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	634 GL	110
List All E. Logs Run:		V Shale	686 GL	58
Compensated Density Neutron		Mineral Coal	729 GL	15
Dual Induction		Mississippian	1069 GL	-325

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	20'	Class A	4	Type 1 cement
Casing	6.75	4.5	10.5	1167'	Thick Set	130	

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	<b>RECEIVED</b> <b>KANSAS CORPORATION COMMISSION</b> <b>DEC 05 2005</b> <b>CONSERVATION DIVISION</b> <b>WICHITA, KS</b>	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	1074'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumerd Production, SWD or Enhr. <b>11/23/2005</b>	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
	0	16	40		

Disposition of Gas      **METHOD OF COMPLETION**      Production Interval

Vented  Sold  Used on Lease     
  Open Hole  Perf.  Dually Comp.  Commingled  
*(If vented, Submit ACO-18.)*       Other (Specify) \_\_\_\_\_

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Muller 15-9		
	Sec. 9 Twp. 33S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-30788		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	1050-1053, 993-994.5, 826.5-831, 729-730.5	Riverton, Rowe, Weir, Mineral - 5,700# 20/40 sand, 1,900 15% HCl acid, 498 bbls wtr	729-1053
4	686-688, 660-661', 634-639', 604-607, 500.5-501.5	Croweberg, Ironpost, Mulkey, Summit, Lexington - 7,000# 20/40 sand, 2,500 15% HCl acid, 551 bbls wtr	500.5-688

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**KANSAS CORPORATION COMMISSION**  
**DEC 05 2005**

**CONSERVATION DIVISION**  
**WICHITA, KS**

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OIL & GAS CONSERVATION DIVISION

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Purchaser: \_\_\_\_\_  
Operator Contact Person: M. B. Natrass  
Phone: ( 913 ) 748-3987  
Contractor: Name: Thorton Air  
License: 33606

API No. 15 - 125-30788-00-00  
County: Montgomery  
\_\_\_\_\_ se \_\_\_\_\_ sw \_\_\_\_\_ se Sec. 9 Twp. 33 S. R. 16  East  West  
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Lease Name: Muller Well #: 15-9  
Field Name: Brewster  
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Total Depth: 1171' Plug Back Total Depth: 1156'  
Amount of Surface Pipe Set and Cemented at 20 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
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If Alternate II completion, cement circulated from 1167'  
feet depth to Surface w/ 130 sx cmt.

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Operator: \_\_\_\_\_  
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 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. \_\_\_\_\_

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
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. \_\_\_\_\_  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

6/21/2005 6/22/2005 8/24/2005  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

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KANSAS CORPORATION COMMISSION  
OCT 14 2005  
CONSERVATION DIVISION  
WICHITA, KS

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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: M B Natrass  
Title: Agent Date: 10/13/2005  
Subscribed and sworn to before me this 13<sup>th</sup> day of October  
20 05  
Notary Public: [Signature]  
Date Commission Expires: 10/14/2008

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

MARGARET ALLEN  
Notary Public - State of Kansas  
My Appt. Expires \_\_\_\_\_

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Side Two

ORIGINAL

Operator Name: Layne Energy Operating, LLC Lease Name: Muller Well #: 15-9
Sec. 9 Twp. 33 S. R. 16 [X] 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 [ ] Yes [X] No (Attach Additional Sheets)

Samples Sent to Geological Survey [ ] Yes [X] No

Cores Taken [ ] Yes [X] No

Electric Log Run [X] Yes [ ] No (Submit Copy)

List All E. Logs Run:

Compensated Density Neutron Dual Induction

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[X] Log Formation (Top), Depth and Datum [ ] Sample

Table with 3 columns: Name, Top, Datum. Rows include Pawnee Lime (467 GL, 277), Excello Shale (634 GL, 110), V Shale (686 GL, 58), Mineral Coal (729 GL, 15), and Mississippian (1069 GL, -325).

CASING RECORD table with columns: 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. Includes Surface and Casing rows.

ADDITIONAL CEMENTING / SQUEEZE RECORD table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

PERFORATION RECORD table with columns: Shots Per Foot, PERFORATION RECORD - Bridge Plugs Set/Type, Acid, Fracture, Shot, Cement Squeeze Record, Depth. Includes a RECEIVED stamp from KANSAS CORPORATION COMMISSION dated OCT 14 2005.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run, Date of First Resumerd Production, SWD or Enhr., Producing Method, Estimated Production Per 24 Hours, Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas METHOD OF COMPLETION Production Interval [ ] Vented [ ] Sold [ ] Used on Lease [ ] Open Hole [ ] Perf. [ ] Dually Comp. [ ] Commingled [ ] Other (Specify)

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Muller 15-9		
	Sec. 9 Twp. 33S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-30788		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	1050-1053, 993-994.5, 826.5-831, 729-730.5	Riverton, Rowe, Weir, Mineral - 5,700# 20/40 sand, 1,900 15% HCl acid, 498 bbls wtr	729-1053
4	686-688, 660-661', 634-639', 604-607, 500.5-501.5	Croweberg, Ironpost, Mulkey, Summit, Lexington - 7,000# 20/40 sand, 2,500 15% HCl acid, 551 bbls wtr	500.5-688

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**OCT 14 2005**

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**WICHITA, KS**

# GEOLOGIC REPORT

LAYNE ENERGY

Muller 15-9

SW ¼, SE ¼, 358' FSL, 1,594' FEL

Section 9-T33S-R16E

MONTGOMERY COUNTY, KANSAS

Drilled: June 21-22, 2005

Logged: June 23, 2005

A.P.I.# 15-125-30788

Ground Elevation: 744'

Depth Driller: 1,170'

Depth Logger: 1,171'

Surface Casing: 8 5/8" @ 20'

Production Casing: 4 1/2" @ 1,167'

Cemented Job: Consolidated

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

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

Kansas City Group ..... Surface (Nellie Bly Formation)

Lenapah Lime ..... 263

Altamont Lime ..... 311

Weiser Sand ..... 343

Pawnee Lime ..... 467

Anna Shale ..... 495

Lexington Coal ..... 501

First Oswego Lime ..... 565

Little Osage Shale ..... 605

Excello Shale ..... 634

Iron Post Coal ..... 660

Bevier Coal ..... 667

"V" Shale ..... 686

Croweburg Coal ..... 687

Mineral Coal ..... 729

Weir Pitt Coal ..... 827

AW Coal ..... 993

Riverton Coal ..... 1,051

Mississippian ..... 1,069

**MORNING COMPLETION REPORT**

Report Called in by: JES

Report taken by:

KRD

LEASE NAME & #		AFE#	DATE	DAYS	CIBP	PBYD	
MULLER #16-9			6/21/2006	1	DEPTH	TYPE FLUID	
PRESENT OPERATION:		DRILL OUT FROM UNDER SURFACE				WT	VIS
DEEPEST CASING	LINERS OD TOP & SHOE DEPTH	REPAIR DOWN TIME HRS			CONTRACTOR MOKAT		
OD SHOE DEPTH	8 5/8" 24# J-65 -- 6ct 20'	TEST PERFS			RIG NO BILLY		
PACKER OR ANCHOR	FISHING TOOLS OD ID	TO			SQUEEZED OR PLUG BACK PERFS		
		TO			TO		
		TO			TO		
		TO			TO		
		TO			TO		
HRS	BRIEF DESCRIPTION OF OPERATION						
	MIRU MOKAT DRILLING, DRILLED 11" HOLE, 20' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING,						
	MIXED 4 SXS TYPE 1 CEMENT, DUMPED ON THE BACKSIDE, SDFN.						

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**DAILY COST ANALYSIS**

RIG	_____
SUPERVISION	200
RENTALS	_____
SERVICES	400
MISC	2280
<b>DAILY TOTALS</b>	<b>2880</b>

**DETAILS OF RENTALS, SERVICES, & MISC**

MOKAT DRILLING @ 6.50/R	
MOKAT (CEMENT)	80
DIRTWORKS (LOC, RD, PIT)	400
SURFACE CASING	200
LAND/ LEGAL	2000

**DAILY TOTALS**      2880      **PREVIOUS TCTD**      \_\_\_\_\_      **TCTD**      2880



CONSOLIDATED OIL WELL SERVICES  
 21<sup>st</sup> W. 14<sup>th</sup> STREET, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER 5462  
 LOCATION Frederick  
 FOREMAN Brad Butler

TREATMENT REPORT & FIELD TICKET  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-24-05	4758	Muller # 15-19				Montgomery
CUSTOMER <u>Layne Energy</u>			Gus Jones			
MAILING ADDRESS <u>P.O. Box 160</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Sycamore</u>			<u>446</u>	<u>Scott</u>		
STATE <u>Ks.</u>			<u>441</u>	<u>Larry</u>		
ZIP CODE			<u>436</u>	<u>Jason</u>		

JOB TYPE Logging HOLE SIZE 6 3/4" HOLE DEPTH 1171' CASING SIZE & WEIGHT 4 1/2" - 10.5 lb.  
 CASING DEPTH 1167' DRILL PIPE \_\_\_\_\_ TUBING PBTD 1156' OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.2 SLURRY VOL 41 Bbl. WATER gal/sk 8.0 CEMENT LEFT in CASING 11'  
 DISPLACEMENT 18 1/2 Bbls. DISPLACEMENT PSI 500 MAX PSI 900 Loaded Plug RATE 4BPM - 2BPM

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Break circulation with 30 Bbls water.  
Pumped 10 Bbl Metasilicate, 10 Bbl water spacer.  
Mixed 130 sks Thick Set cement w/ 10" PYSKOL KOI-SEAL @ 13.2 lb P/GAL.  
Shutdown - wash out pump & lines - Release Plug - Displace Plug with 18 1/2 Bbls water.  
Final pumping @ 500 PSI - Pumped Plug to 900 PSI - wait 2 min - Release Pressure  
Float Hold - close casing in with 0 PSI  
Good cement returns to surface with 8 Bbl slurry  
Job complete - Tear down

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THANK YOU

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	765.00	765.00
5406	25	MILEAGE	2.50	62.50
1126 A	130 SKS.	THICK SET cement	13.00	1690.00
1110 A	26 SKS.	KOI-SEAL 10" PYSKOL	16.90	439.40
1111 A	50 lbs.	Metasilicate - Pre flush	1.55 lb.	77.50
5407 A	7.15 TONS	25 miles - Bulk Truck	.92	164.45
5502 C	4 Hrs	80 Bbl. VAC. Truck	82.00	328.00
1123	3000 GAL.	City water	12.20	36.60
5605 A	4 Hrs	Welder	75.00	300.00
4311	1	4 1/2" Weld on Collar	48.00	48.00
4404	1	4 1/2" Top Rubber Plug	38.00	38.00
				1416.75
			5.3%	74.77
			SALES TAX	1491.52
			ESTIMATED TOTAL	1491.52

AUTHORIZATION Called by John Ed TITLE \_\_\_\_\_ DATE 10/16/05