

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**AMENDED**

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: 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>10/12/2005</u>	<u>10/13/2005</u>	<u>12/22/2005</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-30863--00-00  
County: Montgomery  
S/2 NW SW Sec. 33 Twp. 32 S. R. 16  East  West  
1664 feet from  N (circle one) Line of Section  
708 feet from E /  W (circle one) Line of Section

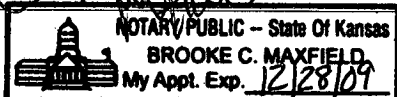
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Shepherd Well #: 12-33  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 751' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1162' Plug Back Total Depth: 1152'  
Amount of Surface Pipe Set and Cemented at 39' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1159'  
feet depth to Surface w/ 120 sx cmt.  
HCTA WPM 12-11-04

**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. 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: 4/10/06  
Subscribed and sworn to before me this 10th day of April  
20 06  
Notary Public: Brooke C. Maxfield



**KCC Office Use ONLY**

Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**APR 11 2006**  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Shepherd Well #: 12-33  
 Sec. 33 Twp. 32 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 <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	<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>398 GL</td> <td>353</td> </tr> <tr> <td>Excello Shale</td> <td>653 GL</td> <td>98</td> </tr> <tr> <td>V Shale</td> <td>706 GL</td> <td>45</td> </tr> <tr> <td>Mineral Coal</td> <td>744 GL</td> <td>7</td> </tr> <tr> <td>Mississippian</td> <td>1063 GL</td> <td>-312</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	398 GL	353	Excello Shale	653 GL	98	V Shale	706 GL	45	Mineral Coal	744 GL	7	Mississippian	1063 GL	-312
Name	Top	Datum																	
Pawnee Lime	398 GL	353																	
Excello Shale	653 GL	98																	
V Shale	706 GL	45																	
Mineral Coal	744 GL	7																	
Mississippian	1063 GL	-312																	

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	39'	Thick Set	130	
Casing	6.75	4.5	10.5	1159'	Thick Set	120	24 sks Kol-seal

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		

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**APR 11 2006**  
**CONSERVATION DIVISION**  
**WICHITA, KS**

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	2 3/8"	1052'					
Date of First, Resumerd Production, SWD or Enhr.			Producing Method				
2/23/2006			<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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity		
	0	22	20				

Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION

Production Interval  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Shepherd 12-33		
	Sec. 33 Twp. 32S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-30863		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	994-995, 850-856, 818-819, 744-744.5	Rowe, Sycamore Shale, Weir, Mineral - 5800# 20/40 sand, 2200 gal 15% HCl acid, 445 bbls wtr	744-995
4	713-714.5, 706-708.5, 678-679.5, 653.5-658, 621.5-626.5	Fleming, Croweberg, Ironpost, Mulky, Summit - 8000# 20/40 sand, 1800 gal 15% HCl acid, 608 bbls wtr	621.5-714.5

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OIL & GAS CONSERVATION DIVISION**

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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)

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Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
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ORIGINAL

**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: KANSAS CORPORATION COMMISSION  
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Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

ART J. W. HAN  
2-6-08

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**KANSAS CORPORATION COMMISSION**  
**FEB 02 2006**  
**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: MR Natrass  
Title: Agent Date: 2/1/06  
Subscribed and sworn to before me this 1 day of February  
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

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

X

Operator Name: Layne Energy Operating, LLC Lease Name: Shepherd Well #: 12-33  
 Sec. 33 Twp. 32 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.

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ORIGINAL

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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
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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		

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 CONSERVATION DIVISION  
 WICHITA, KS

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <b>Shut in, waiting on production</b>		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity

Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_

Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

CONFIDENTIAL

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Shepherd 12-33		
	Sec. 33 Twp. 32S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-30863		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	994-995, 850-856, 818-819, 744-744.5	Rowe, Sycamore Shale, Weir, Mineral - 5800# 20/40 sand, 2200 gal 15% HCl acid, 445 bbls wtr	744-995
4	713-714.5, 706-708.5, 678-679.5, 653.5-658, 621.5-626.5	Fleming, Croweberg, Ironpost, Mulky, Summit - 8000# 20/40 sand, 1800 gal 15% HCl acid, 608 bbls wtr	621.5-714.5

15-125-30863-00-00

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FEB 02 2006

CONSERVATION DIVISION  
WICHITA, KS

15-125-30863-00-00

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ORIGINAL

MORNING COMPLETION REPORT

Report Called in by: JES

Report taken by: KRD

LEASE NAME & #	AFE#	DATE	DAYS	CIBP	PBYD
SHEPHERD 12-33		10/12/05	1	DEPTH	TYPE FLUID
PRESENT OPERATION:					WT
DRILL OUT FROM UNDER SURFACE					VIS
DEEPEST CASING	LINERS OD TOP & SHOE DEPTH	REPAIR DOWN TIME HRS	CONTRACTOR MOKAT		
OD SHOE DEPTH	8 5/8" 24# J-55 — Set 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, 39' DEEP, RIH W/ 2 JT 8 5/8" SURFACE CASING. MIRU CONSOLIDATED,				
	MIXED 130 SXS THICKSET CEMENT W/ 1/4 # FLOCELE PER SK @13.8 # PER GAL., YIELD 1.68. DISPLACE W/ 1.9				
	BBL FRESH WATER. SHUT CASING IN. 3/4 BBL SLURRY TO PIT. RDMO.				

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DAILY COST ANALYSIS

RIG	
SUPERVISION	200
RENTALS	
SERVICES	3514
MISC	2400

MOKAT DRILLING @ 6.50/ft	
CONSOLIDATED	3114
DIRTWORKS (LOC, RD, PIT)	400
SURFACE CASING	400
LAND/ LEGAL	2000

DAILY TOTALS      6114      PREVIOUS TCTD      0      TCTD      6114

15-125-30863-00-00

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

CONFIDENTIAL  
 ORIGINAL  
 TREATMENT REPORT & FIELD TICKET  
 CEMENT

TICKET NUMBER 07703  
 LOCATION Eureka  
 FOREMAN Brad Butler

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-18-05	4758	Shepard 12-33	2	33s	16E	MG
CUSTOMER <u>Layne Energy</u>		Gus Jones	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 160</u>			446	Scott		
CITY <u>Sycamore</u>			439	Justin		
STATE <u>Ks</u>						
OBJ TYPE <u>Longstring</u>	HOLE SIZE <u>6 7/8</u>	HOLE DEPTH	CASING SIZE & WEIGHT <u>4 1/2" - 10.5 lb</u>			
CASING DEPTH <u>1157</u>	DRILL PIPE	TUBING	OTHER <u>PBTD 1152'</u>			
SLURRY WEIGHT <u>13.2 lb</u>	SLURRY VOL <u>37 Bbl</u>	WATER gal/sk <u>8.0</u>	CEMENT LEFT in CASING <u>7'</u>			
DISPLACEMENT <u>18 1/2 Bbls</u>	DISPLACEMENT PSI <u>600</u>	<del>PSI</del> <u>1000 Loaded Plug</u>	RATE <u>4BPM - 2BPM</u>			

REMARKS: Safety Meeting: Rig up to 4 1/2" casing, Break circulation with 20 Bbls water.  
Pumped 10 Bbl Gel Flush, 10 Bbl water Spacer, 10 Bbl Metasilicate Preflush, 10 Bbl Dye water  
Mixed 120 sks Thick Set cement w/ 10\*P<sup>2</sup>/SK of KOI-SEAL at 13.2 lb yield (1.75)  
Shut down - wash out pump & lines - Release Plug - Displace Plug with 18 1/2 Bbls water.  
Final pumping @ 600 PSI - Bumped Plug to 1000 PSI - wait 2 minutes - Release Pressure  
Float Held - Good cement returns to surface with 7 Bbls slurry  
Job complete - Teardown

"Thank you"

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
1126A	120 SKS	Thick Set cement	13.00	1560.00
1110A	24 SKS	KOI-SEAL 10*P <sup>2</sup> /SK	16.90	405.60
1118A	4 SKS	Gel Flush	6.63	26.52
1111A	50 lbs	Metasilicate - Pre flush	1.55 lb	77.50
5407A	6.6 Ton	40 miles - Bulk Truck	6.00	264.00
5605A	4 Hrs	Welder	75.00	300.00
4311	1	4 1/2" weld on collar	48.00	48.00
4201	1	4 1/2" Guide shoe	92.00	92.00
4404	1	4 1/2" Top Rubber Plug	38.00	38.00
			5.3%	SALES TAX
				ESTIMATED TOTAL
				119.12
				3815.15

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 KANSAS CORPORATION COMMISSION  
 FEB 12 2005  
 CONSERVATION DIVISION  
 WICHITA, KS

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

200313



CONFIDENTIAL

# GEOLOGIC REPORT

LAYNE ENERGY  
Shepherd 12-33  
NW ¼, SW ¼, 1,664' FSL, 708' FWL  
Section 33-T32S-R16E  
MONTGOMERY COUNTY, KANSAS

Drilled: October 12-13, 2005  
Logged: October 13, 2005  
A.P.I.# 15-125-30863 - 00-00  
Ground Elevation: 751'  
Depth Driller: 1,162'  
Depth Logger: 1,162'  
Surface Casing: 8 5/8" @ 39'  
Production Casing: 4 1/2" @ 1,159'  
Cemented Job: Consolidated  
Open Hole Logs: Compensated density neutron log, dual induction sfl/gr log

ORIGINAL

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

Quaternary Alluvium .....	Surface
Lenapah Lime .....	255
Altamont Lime .....	330
Weiser Sand .....	360
Pawnee Lime .....	398
Anna Shale .....	514
Lexington Coal .....	520
First Oswego Lime .....	580
Little Osage Shale .....	622
Excello Shale .....	653
Mulky Coal .....	657
Iron Post Coal .....	678
"V" Shale .....	706
Croweburg Coal .....	708
Fleming Coal .....	713
Mineral Coal .....	744
Scammon Coal .....	761
Weir Pitt Coal .....	818
AW Coal .....	994
Riverton Coal .....	1,050
Mississippian .....	1,063

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