

ORIGINAL

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

Form ACO-1  
September 1999  
Form Must Be Typed

10/28/10

Operator: License # 33365  
Name: Layne Energy Operating, LLC  
Address: 1900 Shawnee Mission Parkway  
City/State/Zip: Mission Woods, KS 66205  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Timothy H. Wright  
Phone: (913) 748-3960  
Contractor Name: MoKat  
License: 5831

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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. \_\_\_\_\_

7/21/2008 7/23/2008 Pending  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 125-31649-00-00  
County: Montgomery  
W2 W2 SE SW NW Sec. 20 Twp. 34 S. R. 16  East  West  
2510 feet from S /  (circle one) Line of Section  
856 feet from E /  (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE  (circle one) SW  
Lease Name: Menefee Well #: 5-20  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 815' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1278' Plug Back Total Depth: 1270'  
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 1270  
feet depth to Surface w/ 180 sx cmf.

Drilling Fluid Management Plan Att 4 NJ 1-21-09  
(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: \_\_\_\_\_  
Title: Project Engineer Date: 10-28-10  
Subscribed and sworn to before me this 28 day of October  
20 08.  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2009

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**OCT 29 2008**

**MacLAUGHLIN DARLING**  
Notary Public - State of Kansas  
My Appt. Expires 1-4-2009

CONSERVATION DIVISION  
WICHITA, KS

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Operator Name: Layne Energy Operating, LLC Lease Name: Menefee Well #: 5-20  
 Sec. 20 Twp. 34 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	540 GL	275
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	726 GL	89
List All E. Logs Run:		V-Shale	776 GL	40
Compensated Density Neutron		Mineral Coal	829 GL	-14
Dual Induction		Mississippian	1216 GL	-401

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	1270'	Thick Set	180	50/50 posmix w/2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
..... Perforate				
..... Protect Casing				
..... Plug Back TD				
..... 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

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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>Pending</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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	0					

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) \_\_\_\_\_

# GEOLOGIC REPORT

LAYNE ENERGY  
Menefee 5-20  
SW NW, 2510 FNL, 856 FWL  
Section 20-T34S-R16E  
Montgomery County, KS

Spud Date: 7/21/2008  
Drilling Completed: 7/23/2008  
Logged: 7/23/2008  
A.P.I. #: 15125316490000  
Ground Elevation: 815'  
Depth Driller: 1278'  
Depth Logger: 1273'  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1270'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

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Formation	Tops	
	(below ground)	(subsea)
Surface (Noxie		
Kansas City Group	Sandstone)	815
Pawnee Limestone	540	275
Excello Shale	726	89
"V" Shale	776	40
Mineral Coal	829	-14
Mississippian	1,216	-401

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# Daily Well Work Report

MENEFEE 5-20  
7/21/2008

**Well Location:**  
MONTGOMERY KS  
34S-16E-20 W2 W2 SW NW  
2510FNL / 856FWL

**Cost Center** G01066000100  
**Lease Number** G010660  
**Property Code** KSDC34S16E2005  
**API Number** 15-125-31649

**Spud Date** 7/21/2008    **RDMO Date** 7/23/2008    **First Compl**    **First Prod**    **EFM Install**    **CygnetiD**

**TD** 1278    **PBTD** 1270    **Sf Csg Depth** 21    **Pr Csg Depth** 1270    **Tbg Size** 0    **Csg Size** 0

**Reported By** KRD    **Rig Number**    **Date** 7/21/2008  
**Taken By** KRD    **Down Time**  
**Present Operation** DRILL OUT SURFACE    **Contractor** MOKAT DRILLING

## Narrative

MIRU MOKAT DRILLING, DRILLED 11" HOLE, 21' DEEP, RIH W/1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.  
DWC:\$2880

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**CONSOLIDATED**  
ON Well Services, L.L.C.

**ENTERED**

TICKET NUMBER 18887

LOCATION Eureka

FOREMAN Troy Strickler

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
7-23-08	4758	Menefee S-20				MC																
CUSTOMER <u>Layne Energy</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>S20</td> <td>Cliff</td> <td>KCC</td> <td></td> </tr> <tr> <td>S15</td> <td>Jerrid</td> <td>OCT 29 2008</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;">CONFIDENTIAL</td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	S20	Cliff	KCC		S15	Jerrid	OCT 29 2008		CONFIDENTIAL			
TRUCK #	DRIVER	TRUCK #					DRIVER															
S20	Cliff	KCC																				
S15	Jerrid	OCT 29 2008																				
CONFIDENTIAL																						
MAILING ADDRESS <u>P.O. Box 160</u>																						
CITY <u>Syamore</u>		STATE <u>Ks</u>	ZIP CODE																			

JOB TYPE Longstring HOLE SIZE 6 3/4" HOLE DEPTH 1278' CASING SIZE & WEIGHT 4 1/2" 105"  
 CASING DEPTH 1270' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.9# SLURRY VOL 44.8 Bbl WATER gal/sk 6' CEMENT LEFT IN CASING 0'  
 DISPLACEMENT 20.2 Bbl DISPLACEMENT PSI 600 MIX PSI 1100 Byp Ply RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2" Casing. Break Circulation w/ 25 Bbl water. Pump 30 Bbl water. Mix 600 lbs Gel-Flush, 2 Bbl water. Mix 1000 lbs 50/50 Poz-mix w/ 2% Gel, 2% CaCl2, 4" Kol-Seal, 3" Cal-Seal, 1/2" Phenoxal 1/2% FL-110, 1/4% CAF-38 @ 13.9#/gal. Yield 1.40. Wash out Pump + liner. Release Plug Displace w/ 20.2 Bbl water. Final Pumping Pressure 600 PSI. Bump Ply to 1100 PSI. wait 2 min. Release Pressure. Float Held Good. Cement surface = 8 Bbl Slury to bit.  
Job Complete

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL	
5401	1	PUMP CHARGE	925.00	925.00	
5406		MILEAGE	3.65	N/C	
1124	180skt	50/50 Poz-mix	9.75	1755.00	
1102	300#	2% Gels	.75	225.00	
1118A	300#	2% Gel	.17	51.00	
110A	720#	4" Kol-Seal	.42	302.40	
1101	540#	3" Cal-Seal	.36	194.40	
1107A	22#	1/8" Phenoxal	1.15	25.30	
1135	75#	1/2% FL-110	7.50	562.50	
1146	38#	1/4% CAF-38	7.70	292.60	
1118A	300#	Gel-Flush	.17	51.00	
1105	50#	Hulls	.39	19.50	
5407A	7.5h	Ten-Mileage	1.20	362.85	
4404	1	4 1/2" Top Rubber Ply	45.00	45.00	
5605A	4hrs	welder	85.00	340.00	
4311	1	4 1/2" weldon collar	60.00	60.00	
			Sub Total	5211.58	
			5.3%	SALES TAX	189.94
				ESTIMATED TOTAL	5401.52

Ravin 3737

203896  
Ashp

AUTHORIZATION called by Jacob

DATE \_\_\_\_\_