

CONFIDENTIAL

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

ORIGINAL

8/8/09

Form ACO-1  
September 1999  
Form Must Be Typed

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. Brent Natrass  
 Phone: (913) 748-3960  
 Contractor: Name: Thornton Air Rotary  
 License: 33606  
 Wellsite Geologist: \_\_\_\_\_  
 Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     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>4/12/2007</u>	<u>4/13/2007</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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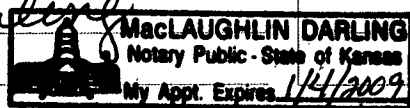
API No. 15 - 125-31327-00-00  
 County: Montgomery  
 \_\_\_\_\_ SW NW Sec. 21 Twp. 31 S. R. 16  East  West  
1980 feet from S /  (circle one) Line of Section  
660 feet from E /  (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW SW  
 Lease Name: Smith Well #: 5-21  
 Field Name: Cherokee Basin Coal Area  
 Producing Formation: Cherokee Coals  
 Elevation: Ground: 816' Kelly Bushing: \_\_\_\_\_  
 Total Depth: 1188' Plug Back Total Depth: 1182'  
 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 1182'  
 feet depth to Surface w/ 125 sx cmt.

Drilling Fluid Management Plan ALP INS 22009  
 (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: MBS Natrass  
 Title: Agent Date: 8/8/07  
 Subscribed and sworn to before me this 8 day of August  
 2007  
 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  
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Operator Name: Layne Energy Operating, LLC

Lease Name: Smith

Well #: 5-21

Sec. 21 Twp. 31 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;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>550 GL</td> <td>266</td> </tr> <tr> <td>Excello Shale</td> <td>688 GL</td> <td>128</td> </tr> <tr> <td>V Shale</td> <td>736 GL</td> <td>80</td> </tr> <tr> <td>Mineral Coal</td> <td>773 GL</td> <td>43</td> </tr> <tr> <td>Mississippian</td> <td>1110 GL</td> <td>-294</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	550 GL	266	Excello Shale	688 GL	128	V Shale	736 GL	80	Mineral Coal	773 GL	43	Mississippian	1110 GL	-294
Name	Top	Datum																	
Pawnee Lime	550 GL	266																	
Excello Shale	688 GL	128																	
V Shale	736 GL	80																	
Mineral Coal	773 GL	43																	
Mississippian	1110 GL	-294																	

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	20'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1182'	Thick Set	125	10# KOL seal @ sx

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
	SI-waiting on completion		

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.		Producing Method		
SI - waiting on pipeline		<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 \_\_\_\_\_

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CONSERVATION DIVISION  
WICHITA, KS

# Daily Well Work Report

SMITH 5-21  
4/13/2007

**Well Location:**  
MONTGOMERY KS  
31S-16E-21 SW NW  
1980FNL / 660FWL

**Cost Center**  
**Lease Number** C010322  
**Property Code** KSCV31S16E2105  
**API Number** 15-125-31327

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Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
4/12/2007	4/13/2007				

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1188	1182	21	1182		

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 4/12/2007
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> Drill out from under surface		<b>Contractor</b> Thornton Drilling

## Narrative

Miru Thornton Drilling, drilled 11" hole, 20' deep, rih w/ 1 jt 8-5/8" surface casing, mxd 4 sxs type 1 cmt, dumped dn the backside, sdfn.  
DWC: \$ 2,880

Monday, August 06, 2007

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WICHITA, KS

ATTN: MGC

CONSOLIDATED OIL WELL SERVICES, LLC  
 P.O. BOX 884, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

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TICKET NUMBER 17277

LOCATION EUREKA

FOREMAN RICK LEDFORD

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 TREATMENT REPORT & FIELD TICKET  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-16-07	4758	SMITH S-21				MG
CUSTOMER Layne Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 1160			463 Kyle			
CITY STATE ZIP CODE Sycamore KS			439 Jarrod			
			437 Jim			

JOB TYPE Logging HOLE SIZE 6 3/4" HOLE DEPTH 1182' CASING SIZE & WEIGHT 4 1/2" 16.5 #  
 CASING DEPTH 1182' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.2 # SLURRY VOL 39 Bbl WATER gal/bk 8.0 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 18 3/4 Bbl DISPLACEMENT PSI 600 ~~800~~ PSI 1100 RATE \_\_\_\_\_

REMARKS: Safety meeting - Rig up to 4 1/2" casing. Break circulation w/ 25 Bbl fresh water. Pump 4 sacks gel-flush, 10 Bbl fresh water spacer, 1 sack metasilicate pre-flush, 9 Bbl dye water. Mixed 125 sacks thickset cement w/ 10" Kel-seal @ 13.2 #/sack. Washout pump & lines, shut down, release plug. Displace w/ 18 3/4 Bbl fresh water. Final pump pressure 600 PSI. Pump plug to 1100 PSI, wait 2 mins, release pressure, float held. Good cement returns to surface = 8 Bbl slurry to pit. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	810.00	810.00
5406	1	MILEAGE	0	0
1106A	125	thickset cement	15.40	1925.00
1109A	1250 #	Kel-seal 10" #/sack	.38	475.00
1118A	200 #	gel-flush	.15	30.00
1119A	50 #	metasilicate pre-flush	1.65	82.50
5407A	6.88	ten-mileage bulk tire	1.10	308.72
4404	1	4 1/2" top rubber plug	40.00	40.00
5502C	3 hrs	80 Bbl IAC. TRK	90.00	270.00
1125	3000 gals	city water	12.80	38.40
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SALES TAX				4005.62
ESTIMATED TOTAL				157.38
TOTAL				4140.95

212980

# GEOLOGIC REPORT

LAYNE ENERGY  
Smith 5-21  
SW NW, 1980 FNL, 660 FWL  
Section 21-T31S-R16E  
Montgomery County, KS

Spud Date: 4/12/2007  
Drilling Completed: 4/13/2007  
Logged: 4/13/2007  
A.P.I. #: 15125313270000  
Ground Elevation: 816'  
Depth Driller: 1188'  
Depth Logger: 1187'  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1182'  
Cemented Job: 0  
Open Hole Logs: Dual Induction SFL/GR, High Resolution  
Compensated Density/Neutron

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Formation	Tops	
	(below ground)	(subsea)
	Surface (Chanute Shale)	816
Kansas City Group	550	266
Pawnee Limestone	688	128
Excello Shale	736	80
"V" Shale	773	43
Mineral Coal	1,110	-294
Mississippian		

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