

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

10/23/09

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: Timothy H. Wright  
Phone: (913) 748-3960  
Contractor: Name: McPherson Drilling  
License: 5675  
Wellsite Geologist: \_\_\_\_\_

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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>6/28/2007</u>	<u>7/9/2007</u>	<u>8/10/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31387-00-00  
County: Montgomery  
SW NE Sec. 19 Twp. 32 S. R. 14  East  West  
1980 feet from S / (N) (circle one) Line of Section  
1980 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) (NE) SE NW SW  
Lease Name: Fowler Well #: 7-19  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 831' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1490' Plug Back Total Depth: 1484'  
Amount of Surface Pipe Set and Cemented at 44 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1484  
feet depth to Surface w/ 155 sx cmt.

Drilling Fluid Management Plan ATTN 3-12-09  
(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: [Signature]  
Title: Agent Date: 10-22-07  
Subscribed and sworn to before me this 22 day of October,  
20 07.  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2009

**KCC Office Use ONLY**

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

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KANSAS CORPORATION COMMISSION  
CONSERVATION DIVISION  
WICHITA, KS

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

Operator Name: Layne Energy Operating, LLC Lease Name: Fowler Well #: 7-19  
 Sec. 19 Twp. 32 S. R. 14  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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>918 GL</td> <td>-87</td> </tr> <tr> <td>Excello Shale</td> <td>1062 GL</td> <td>-231</td> </tr> <tr> <td>V Shale</td> <td>1107 GL</td> <td>-276</td> </tr> <tr> <td>Mineral Coal</td> <td>1153 GL</td> <td>-322</td> </tr> <tr> <td>Mississippian</td> <td>1424 GL</td> <td>-593</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	918 GL	-87	Excello Shale	1062 GL	-231	V Shale	1107 GL	-276	Mineral Coal	1153 GL	-322	Mississippian	1424 GL	-593
Name	Top	Datum																	
Pawnee Lime	918 GL	-87																	
Excello Shale	1062 GL	-231																	
V Shale	1107 GL	-276																	
Mineral Coal	1153 GL	-322																	
Mississippian	1424 GL	-593																	

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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	# Sacjs Used	Type and Percent Additives
Surface	11"	8.625"	24	44'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1484'	Thick Set	155	#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 <i>(Amount and Kind of Material Used)</i>
	See Attached Page	

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TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	1410'		<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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Fowler 7-19		
	Sec. 19 Twp. 32S Rng. 14E, Montgomery County		
<b>API:</b>	15-125-31387-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations</b>			
4	Riverton 1386' - 1388' Rowe 1331' - 1334'	5700 lbs 20/40 sand 456 bbls water 900 gals 15% HCl acid	1331' - 1388'
4	Tebo 1194' - 1195.5' Mineral 1153' - 1154.5'	3700 lbs 20/40 sand 353 bbls water 350 gals 15% HCl acid	1153' - 1195.5'
4	V-Shale 1108' - 1111' Bevier 1086' - 1088' Mulky 1062' - 1068' Summit 1037' - 1040'	12500 lbs 20/40 sand 901 bbls water 800 gals 15% HCl acid	1037' - 1111'

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5

CONSOLIDATED OIL WELL SERVICES, INC.  
 P.O. BOX 884, CHANUTE, KS 66720  
 620-431-9210 OR 800-487-8676

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T ET NUMBER 12061

LOCATION FOREVA

FOREMAN RICK LEOPARD

**TREATMENT REPORT & FIELD TICKET  
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-10-07	4758	FOWLER 2-19				MG
CUSTOMER Layne Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 1100			463 Kyle			
CITY STATE ZIP CODE Sycamore KS			479 JEFF			

JOB TYPE long string HOLE SIZE 6 3/4" HOLE DEPTH 1490' CASING SIZE & WEIGHT 4 1/2" 10.5"  
 CASING DEPTH 1484' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.2" SLURRY VOL 48 bbl WATER gal/sk 8.0 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 23.5 bbl DISPLACEMENT PSI 900 PSI 1400 RATE \_\_\_\_\_

REMARKS: Safety meeting- Rig up to 4 1/2" casing wash down 280' to 1484  
w/ fresh water Pump 8 sks gel-flush w/ hulls, 10 bbl water spacer 20  
bbl metasilicate pre-flush, 5 bbl water spacer, 14 bbl dye water. Mixed  
155 sks thickset cement w/ 10" Kal-seal @ 13.2" / GAL. Washout  
pump & lines, shut down, release plug. Displace w/ 23.5 bbl fresh water.  
Final pump pressure 900 PSI. Bump plug to 1400 PSI. wait 2 minutes.  
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	840.00	840.00
5406	40	MILEAGE	3.30	132.00
1126A	155 sks	thickset cement	15.40	2387.00
1110A	1550"	Kal-seal 10" / sk	.38	589.00
1118A	400"	gel-flush	.15	60.00
1105	50"	hulls	.36	18.00
1102	80"	calc2	.67	53.60
1111A	100"	metasilicate pre-flush	1.65	165.00
5407A	8.53	ton-mileage bulk tx	1.10	325.92
4404	1	4 1/2" top rubber plug	40.00	40.00
		subtotal		4659.92
		SALES TAX		175.57
		ESTIMATED TOTAL		4835.49

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

# 17104

**GEOLOGIC REPORT**

LAYNE ENERGY  
Fowler 7-19  
SW NE, 1980 FNL, 1980 FEL  
Section 19-T32S-R14E  
Montgomery County, KS

Spud Date: 6/28/2007  
Drilling Completed: 7/9/2007  
Logged: 7/9/2007  
A.P.I. #: 15125313870000  
Ground Elevation: 831'  
Depth Driller: '  
Depth Logger: 14884'  
Surface Casing: 8.625 inches at 44'  
Production Casing: 4.5 inches at 1484'  
Cemented Job: 0  
Open Hole Logs: Dual Induction SFL/GR, High Resolution  
Compensated Density/Neutron

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<b>Formation</b>	<b>Tops</b>	
	<b>(below ground)</b>	<b>(subsea)</b>
	Surface (Weston	
Douglas Group	Shale Member)	831
Pawnee Limestone	918	-87
Excello Shale	1,062	-231
"V" Shale	1,107	-276
Mineral Coal	1,153	-322
Mississippian	1,424	-593

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# Daily Well Work Report

FOWLER 7-19

6/28/2007

**Well Location:**  
MONTGOMERY KS  
32S-14E-19 SW NE  
1980FNL / 1980FEL

**Cost Center** G01050900100  
**Lease Number** G010509  
**Property Code** KSLE32S14E1907  
**API Number** 15-125-31387

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnetiD
6/28/2007	7/9/2007	8/10/2007		8/21/2007	FOWLER_7_19

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1490	1484	44	1484		

**Reported By** krd                      **Rig Number**                      **Date** 6/28/2007  
**Taken By** krd                      **Down Time**  
**Present Operation** Drill out from under surface                      **Contractor** McPherson Drilling

## Narrative

MIRU Mcpherson Drilling, drilled 11 'hole, 44' deep, rih w/2 jts 8-5/8" surface casing. Mixed 8 sxs type 1 cement, dumped dn the back side. SDFN. DWC:\$3,160

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