

CONFIDENTIAL

ORIGINAL 1/30/11

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

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: Thornton Air Rotary  
License: 33606

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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. \_\_\_\_\_

10/15/2008	10/16/2008	12/31/2008
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31770-00-00  
County: Montgomery  
NE SE SE Sec. 29 Twp. 31 S. R. 14  East  West  
932 feet from  N (circle one) Line of Section  
406 feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE  SE NW SW  
Lease Name: Fowler Well #: 16-29  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 841' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1437' Plug Back Total Depth: 1430'  
Amount of Surface Pipe Set and Cemented at 22 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1430  
feet depth to Surface w/ 195 sx cmt.

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

AITZ-Dlg - 4/20/09

**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: 1/30/2009  
Subscribed and sworn to before me this 30 day of January  
2009  
Notary Public: Maclaughlin Darling  
Date Commission Expires: 1-4-2013

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

Maclaughlin Darling  
Notary Public - State of Kansas  
My Appt. Expires 1-4-2013

Operator Name: Layne Energy Operating, LLC Lease Name: Fowler Well #: 16-29  
 Sec. 29 Twp. 31 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  Yes  No  
*(Attach Additional Sheets)*

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
*(Submit Copy)*

List All E. Logs Run:

Compensated Density Neutron  
 Dual Induction

Name	Top	Datum
Pawnee Lime	908 GL	-67
Excello Shale	1041 GL	-200
V-Shale	1095 GL	-254
Mineral Coal	1139 GL	-298
Mississippian	1399 GL	-558

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	22'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1430'	Thick Set	195	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 (Amount and Kind of Material Used)	Depth
	See Attached Page	<b>RECEIVED</b> <b>KANSAS CORPORATION COMMISSION</b> <b>KCC</b> <b>JAN 30 2009</b> <b>CONFIDENTIAL</b> <b>CONSERVATION DIVISION</b> <b>WICHITA, KS</b>	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	1375'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
1/15/2009			<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	4	0		

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled

Production Interval  Other (Specify) \_\_\_\_\_

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Fowler 16-29		
	Sec. 29 Twp. 31S Rng. 14E, Montgomery County		
<b>API:</b>	15-125-31770-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (December 2008)</b>			
4	Rowe 1354.5' - 1356.5'	2400 lbs 20/40 sand 218 bbls water 300 gals 15% HCl acid	1354.5' - 1356.5'
4	Mineral 1139' - 1140.5'	2400 lbs 20/40 sand 172 bbls water 100 gals 15% HCl acid	1139' - 1140.5'
4	Croweburg 1095' - 1097.5' Bevier 1076' - 1077'	5400 lbs 20/40 sand 360 bbls water 500 gals 15% HCl acid	1076' - 1097.5'
4	Mulky 1041' - 1046.5'	6600 lbs 20/40 sand 297 bbls water 300 gals 15% HCl acid	1041' - 1046.5'
4	Summit 1021.5' - 1024.5'	3600 lbs 20/40 sand 279 bbls water 420 gals 15% HCl acid	1021.5' - 1024.5'
4	Mulberry 904' - 905.5'	2400 lbs 20/40 sand 163 bbls water 300 gals 15% HCl acid	904' - 905.5'

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*Layne Energy, Inc.*

1900 Shawnee Mission Parkway, Mission Woods, Kansas 66205 Phone: (913) 748-3987 Fax: (913) 748-3950

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CONSERVATION DIVISION  
WICHITA, KS

January 30, 2009

Mr. Steve Bond  
Kansas Corporation Commission  
Oil & Gas Conservation Division  
130 S. Market, Room 2078  
Wichita, KS 67202

Re: Well Completion Form

Dear Mr. Bond:

I have enclosed the ACO-1 form and associated data for the following well:

API # 15-125-31770-00-00  
Fowler 16-29

We respectfully request that all information submitted be kept confidential. Per provision E-4 of K.A. R. 82-3-107, we request that the term of the confidentiality be extended by one year.

If you need additional information, please contact me at (913) 748-3960.

Sincerely,

*MacLaughlin Darling*

MacLaughlin Darling  
Engineering Technician

Enclosures

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# GEOLOGIC REPORT

LAYNE ENERGY  
Fowler 16-29  
SE SE, 932 FSL, 406 FEL  
Section 29-T31S-R14E  
Montgomery County, KS

Spud Date: 10/15/2008  
Drilling Completed: 10/16/2008  
Logged: 10/17/2008  
A.P.I. #: 15125317700000  
Ground Elevation: 841  
Depth Driller: 1,437'  
Depth Logger: 1,436'  
Surface Casing: 8.625 inches at 22'  
Production Casing: 4.5 inches at 1,430'  
Cemented Job:  
Open Hole Logs: High Resolution Compensated Density Sidewall  
Neutron Log; Dual Induction LL3/GR Log

Formation	Tops	
	(below ground)	(subsea)
Quaternary	Surface (Alluvium)	841
Pawnee Limestone	908	-67
Excello Shale	1,041	-200
"V" Shale	1,095	-254
Mineral Coal	1,139	-298
Mississippian	1,399	-558

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WICHITA, KS

# Daily Well Work Report

FOWLER 16-29  
10/16/2008

**Well Location:**  
MONTGOMERY KS  
31S-14E-29 NE SE SE  
932FSL / 406FEL

**Cost Center** G01050800200  
**Lease Number** G010508  
**Property Code** KSSY31S14E2916  
**API Number** 15-125-31770

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
10/15/2008	10/16/2008	12/31/2008		1/13/2009	FOWLER_16_29

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1437	1430	22	1430	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 10/15/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> THORNTON DRILLING

## Narrative

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 22' 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**  
Oilfield Services, L.L.C.



**ENTERED**

TICKET NUMBER 20260

LOCATION Furness

FOREMAN Rex Lottel

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-487-8878

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-17-08	4258	Fowler 16-29				236
CUSTOMER <u>Layne Energy</u>			GUS Jones			
MAILING ADDRESS <u>P.O. Box 1100</u>						
CITY <u>Sycamore</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
STATE <u>KS</u>			<u>463</u>	<u>Shannon</u>		
ZIP CODE			<u>502</u>	<u>Phillip</u>		

JOB TYPE logstring HOLE SIZE 6 7/8" HOLE DEPTH 1437' CASING SIZE & WEIGHT 9 5/8" 12.5"  
 CASING DEPTH 1430' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13 1/2" SLURRY VOL 45 cu WATER gal/sk 8.0 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 22 3/4 cu DISPLACEMENT PSI 600 ~~400~~ PSI 1000 RATE 4 bpm while displacing

REMARKS: Safety meeting - Rig up to 4 1/2" casing. Break circulation w/ 50 bbl fresh water. Pump 10 sacks gel-flush w/ bulls. 2 bbl water spacer. Mixed 145 sacks thickset cement w/ 8" Kol-seal, 12 phoscel, 1/2 to EZ-110 + 4 1/2 to CAF-38 @ 13 1/2" yield 1.25. Washbit pump + lines, shut down, release plug. Displace w/ 22 3/4 cu fresh water. Final pump pressure 600 PSI. Pump plug to 1000 PSI. wait 2 minutes, release pressure, float held. Good cement returns to surface - 2 cu 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	925.00	925.00
5406	40	MILEAGE	3.65	146.00
1106A	145 sacks	thickset cement	12.00	2040.00
1110A	1160*	8" Kol-seal	.42	487.20
1107A	12*	12" phoscel	1.15	20.20
1135	22*	1/2 to EZ-110	7.50	500.00
1196	36*	4 1/2 to CAF-38	7.26	277.80
1118A	500*	gel-flush	.17	85.00
1105	50*	bulls	.39	19.50
54070	7.98	con-mileage bulk tax	1.20	308.04
4404	1	4 1/2" top rubber plug	45.00	45.00
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			SALES TAX	208.21
			ESTIMATED TOTAL	5602.45

Ravin 3737

226710

AUTHORIZATION Witnessed by Jacob

TITLE Co. Fr.

DATE

5/602.45