

**CONFIDENTIAL**

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

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

6/02/11

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

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>2/13/2009</u>	<u>2/17/2009</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31804-00-00  
County: Montgomery  
\_\_\_\_\_ W2 SW Sec. 16 Twp. 33 S. R. 16  East  West  
1476 feet from  N (circle one) Line of Section  
504 feet from E /  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW  SW  
Lease Name: Bogart Well #: 12-16  
Field Name: Cherokee Basin Coal Area

Producing Formation: Cherokee Coals  
Elevation: Ground: 771' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1186' Plug Back Total Depth: 1183'  
Amount of Surface Pipe Set and Cemented at 43 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1183  
feet depth to Surface w/ 130 sx cmt.

Drilling Fluid Management Plan AM INS 7-9-09  
(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.: \_\_\_\_\_

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JUN 02 2009

REC

**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: 6/2/09  
Subscribed and sworn to before me this 2 day of June  
09  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2013

**MacLAUGHLIN DARLING**  
Notary Public - State of Kansas  
My Appt. Expires 1-4-2013

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 LIC Distribution  
**RECEIVED**  
JUN 03 2009

KCC WICHITA

Operator Name: Layne Energy Operating, LLC Lease Name: Bogart Well #: 12-16  
 Sec. 16 Twp. 33 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 checked="" type="checkbox"/> Yes <input 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>493 GL</td> <td>278</td> </tr> <tr> <td>Excello Shale</td> <td>665 GL</td> <td>106</td> </tr> <tr> <td>V-Shale</td> <td>717 GL</td> <td>54</td> </tr> <tr> <td>Mineral Coal</td> <td>763 GL</td> <td>8</td> </tr> <tr> <td>Mississippian</td> <td>1097 GL</td> <td>-326</td> </tr> </table> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">JUN 02 2009</p>	Name	Top	Datum	Pawnee Lime	493 GL	278	Excello Shale	665 GL	106	V-Shale	717 GL	54	Mineral Coal	763 GL	8	Mississippian	1097 GL	-326
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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	43'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1183'	Thick Set	130	8 lbs 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 (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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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) \_\_\_\_\_

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# GEOLOGIC REPORT

LAYNE ENERGY  
Bogart 12-16  
NW SW, 1,476 FSL, 504 FWL  
Section 16-T33S-R16E  
Montgomery County, KS

Spud Date: 2/13/2009  
Drilling Completed: 2/17/2009  
Logged: 2/17/2009  
A.P.I. #: 15125318040000  
Ground Elevation: 771  
Depth Driller: 1,186  
Depth Logger: 1,185  
Surface Casing: 8.625 inches at 43'  
Production Casing: 4.5 inches at 1,183'  
Cemented Job:  
Open Hole Logs: High Resolution Compensated Density Sidewall  
Neutron Log; Dual Induction LL3/GR Log

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Formation	Tops	
	(below ground)	(subsea)
	Surface (Noxie	
Kansas City Group	Sandstone)	771
Pawnee Limestone	493	278
Excello Shale	665	106
"V" Shale	717	54
Mineral Coal	763	8
Mississippian	1,097	-326

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# Daily Well Work Report

BOGART 12-16  
2/13/2009

**Well Location:**  
MONTGOMERY KS  
33S-16E-16 W2 SW  
1476FSL / 504FWL

**Cost Center** G01063600100  
**Lease Number** G010636  
**Property Code** KSDC33S16E1612  
**API Number** 15-125-31804

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnelID
2/13/2009	2/17/2009				

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1186	1183	43	1183	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 2/13/2009
<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, 43' DEEP, RIH W/2 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.  
DWC:\$3160

GOVERNMENTAL

JUN 13 2009

END

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KCO WICHTA

