

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

Corrected

**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: M. B. Natrass  
Phone: ( 913 ) 748-3987  
Contractor: Name: MOKAT Drilling  
License: 5831

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: Layne Energy Operating, LLC  
Well Name: Cottrill 5-1

Original Comp. Date: 8/26/05 Original Total Depth: 873'  
\_\_\_\_ 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>5/18/2006</u>	<u>5/19/2006</u>
Spud Date or Recompletion Date	Date Reached TD Completion Date or Recompletion Date

API No. 15 - 125-30818-00-01 CORRECTED NAME  
County: Montgomery  
S/2 N/2 SW NW Sec. 1 Twp. 32 S. R. 16  East  West  
1800 feet from S /  (circle one) Line of Section  
700 feet from E /  (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: ~~X~~ Cottrill Well #: 5-1  
Field Name: Brewster

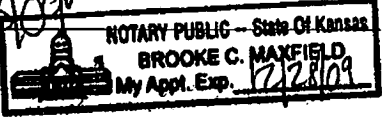
Producing Formation: Cherokee Coals  
Elevation: Ground: 873' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1212' Plug Back Total Depth: 1198'  
Amount of Surface Pipe Set and Cemented at 20 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1209'  
feet depth to Surface w/ 135 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.: \_\_\_\_\_

**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: 9/4/06  
Subscribed and sworn to before me this 11 day of September  
2006  
Notary Public: [Signature]  
Date Commission Expires: 12/28/09



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

Operator Name: Layne Energy Operating, LLC Lease Name: COTTERILL Well #: 5-1  
 Sec. 1 Twp. 32 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  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

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Pawnee Lime	552 GL	321
Excello Shale	704 GL	169
V. Shale	755 GL	118
Mineral Coal	796 GL	77
Mississippian	1113 GL	-240

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	8.65	24	20'	Class A	4	Type 1 cement
Casing	6.75	4.5	10.5	1209'	Thick Set	135	

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
	See Attached			Depth

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	1163'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.			Producing Method		
5/20/2006			<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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	0	3		

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 \_\_\_\_\_

**Operator Name:** Layne Energy Operating, LLC.  
**Lease Name:** ~~XXXXXX~~ COTTERILL 5-1  
 Sec. 1 Twp. 32S Rng. 16E, Montgomery County  
**API:** 15-125-30818-00-01

Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
<b>Initial Perforations (August 2005)</b>			
4	Riverton 1101.5' - 1103' Rowe 1045.5' - 1047' Bluejacket 942' - 943'	3400 lbs 20/40 sand 1000 bbls water 377 gals 15% HCl acid	942' - 1103'
4	Mineral 796' - 797' Croweburg 756' - 757.5' Iron Post 733.5' - 735.5' Mulky 703.5' - 709' Summit 676' - 680.5'	6300 lbs 20/40 sand 2500 bbls water 580 gals 15% HCl acid	676' - 797'
<b>Recompletion Perforations (May 2006)</b>			
4	Riverton 1076' - 1078.5'	1000 lbs 20/40 sand 134 bbls water 500 gals 15% HCl acid	1076' - 1078.5'