

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

7/02/10

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, Explor., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: **JUL 02 2008**
Well Name: **KCC**
Original Comp. Date: 11/30/2006 Original Total Depth: 1650'
____ 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. ____

3/11/2008 3/13/2008
Spud Date or Date Reached TD Completion Date or
Recompletion Date

API No. 15 - 019-26762-00-01
County: Chautauqua
____ NE ____ SW ____ NW Sec. 4 Twp. 32 S. R. 13 ☒ East ☐ West
1904 feet from S / **(N)** (circle one) Line of Section
806 feet from E / **(W)** (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE **(NW)** SW
Lease Name: Vaughn Well #: 5-4
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 929' Kelly Bushing:
Total Depth: 1650' Plug Back Total Depth: 1645'
Amount of Surface Pipe Set and Cemented at 45 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No
If yes, show depth set Feet
If Alternate II completion, cement circulated from 1645
feet depth to Surface w/ 165 sx cmt.

Drilling Fluid Management Plan: **WD-MH-10-27-08**
(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: *MacLaughlin Darling*
Title: Agent Date: 7/3/08
Subscribed and sworn to before me this 2 day of July
20 08
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2009

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

KCC Office Use ONLY

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

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JUL 03 2008

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Vaughn Well #: 5-4
 Sec. 4 Twp. 32 S. R. 13 ☒ East ☐ West County: Chautauqua

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	1114 GL	-185
Excello Shale	1228 GL	-299
V-Shale	1286 GL	-357
Mississippian	1554 GL	-625

CASING RECORD ☒ New ☐ 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	45'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1645'	Thick Set	165	

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
	See Attached Page		
	CONFIDENTIAL JUL 02 2008 KCC		
TUBING RECORD		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Size Set At Packer At		2-3/8" 914'	
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

☐ Vented ☐ Sold ☐ Used on Lease
 (If vented, Submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☒ Commingled
☐ Other (Specify) _____

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JUL 03 2008

CONSERVATION DIVISION
WICHITA, KS

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Vaughn 5-4		
	Sec. 4 Twp. 31S Rng. 16E, Montgomery County		
API:	15-019-26762-00-01		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (November 2006)			
4	Croweburg 1286' - 1290.5' Bevier 1267.5' - 1269'	5000 lbs 20/40 sand 530 bbls water 600 gals 15% HCl acid	1267.5' - 1290.5'
4	Mulky 1228.5' - 1233.5' Summit 1212' - 1215.5'	6000 lbs 20/40 sand 525 bbls water 850 gals 15% HCl acid	1212' - 1233.5'
Recompletion Perforations (March 2008)			
4	Hushpuckney 871.5' - 873'	4100 lbs 20/40 sand 297 bbls water 350 gals 15% HCl acid	871.5' - 873'

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