ORIGINAL 829 KANSAS CORPORATION COMMISSION

Form ACO-1 September 1999 Form Must Be Typed

CONSERVATION DIVISION WICHITA, KS

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OIL & GAS CONSERVATION DIVISION

Operator: License # 33365	API No. 15 - 125-31647-00-00 AMENDED
Name: Layne Energy Operating, LLC	County: Montgomery
Address: 1900 Shawnee Mission Parkway	
City/State/Zip: Mission Woods, KS 66205	730 feet from S / N (circle one) Line of Section
Purchaser:	711 feet from E / ((circle one) Line of Section
Operator Contact Person: Timothy H. Wright	Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3960	(circle one) NE SE (W) SW
Contractor: Name: Thornton Air Rotary	Lease Name: Duke Well #: 4-16
License: 33606	Field Name: Cherokee Basin Coal Area
Wellsite Geologist:	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 859' Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 1036' Plug Back Total Depth: 1034'
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 22 Feet
✓ Gas SIGW	Multiple Stage Cementing Collar Used? Yes No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1034
Operator:	feet depth to Surface w/ 100 sx cmt.
Well Name:	'
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan AH AH WHITE OF (Data must be collected from the Reserve Pit)
DeepeningRe-perfConv. to Enhr./SWD	Chloride content N/A ppm Fluid volume bbls
Plug Back Plug Back Total Depth	Dewatering method used N/A - Air Drilled
Commingled Docket No	Dewatering method used 1477 741 2711100
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No.	Operator Name:
	Lease Name: License No.:
6/5/2008 6/9/2008 10/15/2008 Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workov Information of side two of this form will be held confidential for a period of	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, the rest or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-130) and geologist well report shall be attached with this form. ALL CEMENTING S. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regul herein are complete and correct to the best of my knowledge.	ate the oil and gas industry have been fully complied with and the statements
Signature	KCC Office Use ONLY
Title: Project Engineer Date: 1/29/09	Letter of Confidentiality Attached
Subscribed and sworn to before me this 29 day of Janua	If Denied, Yes Date:
20 09	Wireline Log Received RECEIVED
Maa Tanon 1. Dan Din	Geologist Report Received SASS CORPORATION COMMISSIO
Notary Public: // / / / / / / / / / / / / / / / / /	MacLAUGHLIN DARLING JAN 3 0 2009
Date Commission Expires: 1-4-30/3	Notary Public - State of Kansas

My Appt. Expires_

Operator Name: Lay	Layne Energy Operating, LLC			Leas	e Name:	Duke		Well #: 4-16		
Sec. 16 Twp. 3	31 S. R. 17 / East West				ty: Monto					
INSTRUCTIONS: SI tested, time tool oper temperature, fluid red Electric Wireline Loga	n and closed, flowi covery, and flow ra	ng and shut tes if gas to	-in pressures surface test,	, whether s along with	shut-in pre	ssure reached	l static level, l	hydrostatic pressi	ures, bottom	n hole
Drill Stem Tests Take		Y	es 📝 No		7 L	og Formal	tion (Top), De	pth and Datum	□s	ample
Samples Sent to Geological Survey ✓ Yes ☐ No				Name			Тор		Datum	
Cores Taken	-		es 🗸 No		Paw	nee Lime		483 GL	3	76
Electric Log Run (Submit Copy)		✓ Y			Exce	ello Shale	i	599 GL		61
List All E. Logs Run:	(org. 1895	s)			Mississippian			1035 GL	-1	76
Compensated D	V									
Sog		Repo		RECORD		w Used ermediate, produ	ction, etc.			······································
Purpose of String	Size Hole Drilled		e Casing t (In O.D.)		eight s. / Ft.	Setting Depth	Type of Cemen			nd Perce
Surface	11"	8.625"		24		22'	Class A	4	Type 1	cem
Casing	6.75"	4.5"		10.5		1034'	Thick Se	et 100	50/50 pos	mix w/2
Perforate Top Bottom			ADDITIONAL CEMENTING / So Type of Cement #Sacks Used			SQUEEZE RECORD Type and Percent Additives				
Protect Casing Plug Back TD Plug Off Zone										
Shots Per Foot	Shots Per Foot PERFORATION RECORD - Bridge Plugs Specify Footage of Each Interval Perfo								Dep	
	See Attached Page						; ;			
				\Box	MEII	IFNTIA			RECEN	/EN
				UU	MAN FF			KANSAS	CORPORATION	
									JAN 30	2009
								Cf)NSERVATIO	VDIVIS
TUBING RECORD 2-3	Size 3/8"	Set At 1023'		Packer	At	Liner Run	Yes •	/ No	WICHITA	
I	d Production, SWD o	r,Enhr.	Producing Me	ethod	Flowing	g 🗸 Pump	oing G	ias Lift 🔲 O	ther (Explain)	
Date of First, Resument 10/24/2008			Į.							
	Oil	Bbls.	Gas 70	Mcf	Wate	er	Bbls.	Gas-Oil Ratio		Gravit
10/24/2008 Estimated Production	0	Bbls.	70	Mcf		er Production Inte		Gas-Oil Ratio		Gravi

Operator Name:	Layne Energy Operating, LLC.				
Lease Name:	Duke 4-16				
	Sec. 16 Twp. 31S Rng. 17E, Montgomery County				
API:	15-125-31647-00-00				
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth		
•	Initial Perforati	ons (October 2008)			
4 Riverton 1010.5' - 1012'		2400 lbs 20/40 sand			
	Riverton 1010.5' - 1012'	215 bbls water	1010.5' - 1012'		
	· ·	300 gals 15% HCl acid			
4 Weir 801' - 802.5'		2400 lbs 20/40 sand	801' - 802.5'		
	Weir 801' - 802.5'	180 bbls water			
		300 gals 15% HCl acid			
4 Mulky 599' - 603.5'		6000 lbs 20/40 sand			
	Mulky 599' - 603.5'	360 bbls water	599' - 603.5'		
	·	200 gals 15% HCl acid			
4 Lexington 520		2300 lbs 20/40 sand	520' - 521.5'		
	Lexington 520' - 521.5'	288 bbls water			
		300 gals 15% HCl acid			

CONFIDENTIAL

RECEIVED KANSAS CORPORATION COMMISSION

JAN 3 0 2009

CONSERVATION DIVISION WICHITA, KS