CONFIDENTIAL

## Kansas Corporation Commission Oil & Gas Conservation Division

SSION OR/G/NAE®

Form ACO-1 September 1999 Form Must Be Typed

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License #	API No. 15 - 125-31003-00-01				
Name: Layne Energy Operating, LLC	County: Montgomery				
Address: 1900 Shawnee Mission Parkway	NENESec. 8 Twp. 34 S. R. 16 V East West				
City/State/Zip: Mission Woods, KS 66205	660 feet from S / N (circle one) Line of Section				
Purchaser:	660 feet from (E) W (circle one) Line of Section				
Operator Contact Person: M. Brent Nattrass  Phone: (913) 748-3960  Contractor: Name: McPherson Drilling  License: 5675	Footages Calculated from Nearest Outside Section Corner:  (circle one) NE SE NW SW  Lease Name: Applebaugh Well #: 1-8  Field Name: Jefferson-Sycamore				
License: OOTO	Producing Formation: Cherokee Coals				
	Elevation: Ground: 893' Kelly Bushing:				
Designate Type of Completion:	Total Depth: 1363' Plug Back Total Depth: 1350'				
New Well Re-Entry Workover					
OilSWDSIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 21 Feet				
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?				
Dry Other (Core, WSW, Expl., Cathodic, etc)  If yes, show depth set					
	feet depth to_Surfacew/_ 140sx cmt.				
Operator: Well Name:	feet depth to sx cmt.				
Original Comp. Date: 10/23/2006 Original Total Depth: 1363'  Deepening Re-perf Conv. to Enhr./SWD Plug Back 1350' Plug Back Total Depth Commingled	Drilling Fluid Management Plan WOWS BYFFF (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.:				
Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 1 107 for confidentiality in excess of 12 months). One copy of all wireline logs TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er 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-s and geologist well report shall be attached with this form. ALL CEMENTING s. Submit CP-111 form with all temporarily abandoned wells.				
Signature: Agent Date: 8/24/07	KCC Office Use ONLY				

Subscribed and sworn to before me this 34 day of August

CONSERVATION DIVISION WICHITA, KS

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**RECEIVED** 

Geologist Report Received

If Denied, Yes Date:

Wireline Log Received

**UIC** Distribution

Operator Name: Layne Energy Operating, LLC.
Lease Name: Applebaugh 1-8
Sec. 8 Twp. 34S Rng. 16E, Montgomery County
API: 15-125-31003-00-01

Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	lr	nitial Perforations (6/2006)	
4	Riverton 1235' - 1238'	116 bbls water	T
		250 gals 15% HCl acid	1235' - 1238'
		1 lb Biocide	
		5 gals Clay Treat TS	
		4 gals Clay Treat PP	
		22.5 gals CS-2	
	Recor	npletion Perforations ( 4/2007)	
4 Weir 958' - 960.5' Mineral 884' - 885.5		4400 lbs 20/40 sand	
		1363 bbls water	
	Wilheral 664 - 665.5	550 gals 15% HCl acid	
4   I	Croweburg 833.5' - 838.5'		
	Bevier 817' - 823.5'	10800 lbs 20/40 sand	
	Ironpost 805' - 808'	915 bbls water	745.5' - 838.5
	Mulky 779' - 783'	1050 gals 15% HCl acid	
	Summit 745.5' - 749'		

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## Side Two

Operator Name: Lay	ne Energy Opera	ating, LLC	Lease Nam	e: Applebaugh		_ Well #: <u>1-8</u>		
		✓ East	County: Mc					
tested, time tool oper temperature, fluid rec	n and closed, flowing covery, and flow rate	and base of formations p g and shut-in pressures, s if gas to surface test, a final geological well site	whether shut-in along with final c	pressure reached	static level, hydro	ostatic pressur	es, bottom hole	
Drill Stem Tests Taken			Į.	Log Formati	ion (Top), Depth	and Datum	Sample	
•		☐ Yes 🗹 No	N	Name		Тор	Datum	
Samples Sent to Geological Survey  Cores Taken  Electric Log Run  (Submit Copy)		Yes No	Pa	awnee Lime		592 GL	301	
		✓ Yes No	E	ccello Shale	ello Shale		113	
List All E. Logs Run:			V	Shale		834 GL	59	
Compensated D	ensity Neutron		М	Mineral Coal		884 GL	9	
Dual Induction	,		М	ississippian		1251 GL	-358	
		CASING Report all strings set-		New Used	etion, 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	21'	Class A	4	Type 1 cement	
Casing	6.75"	4.5"	10.5	1350'	Thick Set	140	10# KOL seal @ sx	
		ADDITIONAL	CEMENTING / S	POLICEZE DECORI				
Purpose: Depth Type of Cement			#Sacks Used	NG / SQUEEZE RECORD  Type and Percent Additives				
Perforate Protect Casing	Top Bottom	7.			Type and Percent Additives			
Plug Back TD Plug Off Zone				AUS 2 4 0007				
					<u>CO</u>	MEIDEN.	(W	
Shots Per Foot	PERFORAT Specify	gs Set/Type rforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Dep			rd Depth		
	See Attached P	age						
TUBING RECORD	Size 3/8"	Set At 1259'	Packer At	Liner Run	Yes ✓ No	)		
Date of First, Resumer			hod Flor	ving 🗸 Pumpi	ing Gas Li	ift Oth	er ( <i>Explain</i> )	
Estimated Production Per 24 Hours	Oil O	Bbls. Gas	Mcf v	/ater E	Bbls.	Gas-Oil Ratio	Gravity	
Disposition of Gas	METHOD OF (		1, =0	Production Inte	rvai	KANSAS COI	RECEIVED RPORATION COMMISSIO	
Vented Sold	Used on Lease	Open Hole	Perf.	Dually Comp.	✓ Commingled _		6 2 7 2007	

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