

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL Form ACO-1
September 1999
Form Must Be Typed

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WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

10/28/10

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: MoKat
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)

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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. _____
7/15/2008 7/18/2008 2/4/2009
Spud Date or Date Reached TD Completion Date or Recompletion Date

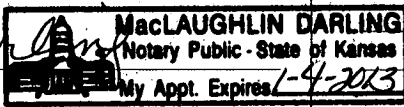
API No. 15 - 125-31711-00-00 AMENDED
County: Montgomery
_____ - _____ NW _____ NW Sec. 21 Twp. 31 S. R. 14 East West
530 feet from S / (circle one) Line of Section
390 feet from E / (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE SW
Lease Name: Ratzlaff Well #: 4-21
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 853' Kelly Bushing: _____
Total Depth: 1458' Plug Back Total Depth: 1447'
Amount of Surface Pipe Set and Cemented at 21 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1447
feet depth to Surface w/ 200 sx cmt.

Drilling Fluid Management Plan Att II NJ 7-0-09
(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.: _____

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: 5/21/09
Subscribed and sworn to before me this 21 day of May,
20 09.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2013



KCC Office Use ONLY

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

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MAY 28 2009
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Operator Name: Layne Energy Operating, LLC Lease Name: Ratzlaff Well #: 4-21
 Sec. 21 Twp. 31 S. R. 14 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	894 GL	-41
Excello Shale	1026 GL	-173
V-Shale	1086 GL	-233
Mineral Coal	1131 GL	-278
Mississippian	1393 GL	-540

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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	# Sacs Used	Type and Percent Additives
Surface	11"	8.625"	24	21'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1447'	Thick Set	200	50/50 posmix w/2% gel

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		

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TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2-3/8"	1409'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	KCC WICHITA		
Date of First, Resumerd Production, SWD or Enhr.			Producing Method					
2/23/2009			<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	14	0					

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. #33365

Lease Name: RATZLAFF 4-21

Lease Location: NW NW 21 - 31S - 14E MONTGOMERY, KS

API: 15-125-31711-00-00



Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (February 2009)			
4	Rowe 1347' - 1349.5' Neutral 1359' - 1360'	5400 Sand (20/40) (lbs) 432 Water (bbls) 600 HCl (15%) (gal)	1347' - 1360'
4	Mineral 1131' - 1132.5'	2500 Sand (20/40) (lbs) 471 Water (bbls) 500 HCl (15%) (gal)	1231' - 1132.5'
4	Iron Post 1068' - 1069' Croweburg 1087' - 1089.5'	5400 Sand (20/40) (lbs) 400 HCl (15%) (gal) 623 Water (bbls)	1068' - 1089.5'
4	Summit 1010' - 1011.5' Mulky Coal 1027' - 1031'	7800 Sand (20/40) (lbs) 451 Water (bbls) 500 HCl (15%) (gal)	1010' - 1031'
4	Mulberry 885.5' - 890'	300 HCl (15%) (gal) 2400 Sand (20/40) (lbs) 225 Water (bbls)	885.5' - 890'

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