

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

9/26/09

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: Timothy H. Wright
Phone: (913) 748-3960
Contractor: Name: McPherson Drilling
License: 5675
Wellsite Geologist:

Designate Type of Completion:
____ New Well ____ Re-Entry ____ Workover
____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
 Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

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.

6/4/2007 6/6/2007 9/6/2007
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 125-31376-00-00 Amended
County: Montgomery
____ NW NE Sec. 15 Twp. 32 S. R. 14 East West
470 feet from S / N (circle one) Line of Section
1872 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Metcalf Well #: 2-15

Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 864' Kelly Bushing:
Total Depth: 1490' Plug Back Total Depth: 1477'
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 1477 feet depth to Surface w/ 155 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: Manager of Engineering Date: 6/26/09
Subscribed and sworn to before me this 26 day of June, 2009.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2013

KCC Office Use ONLY
Y Letter of Confidentiality Attached
If Denied, Yes Date:
Wireline Log Received
Geologist Report Received
RECEIVED JUN 30 2009
KCC WICHITA
MacLAUGHLIN DARLING
Notary Public - State of Kansas
My Appt. Expires 1-4-2013

Operator Name: Layne Energy Operating, LLC Lease Name: Metcalf Well #: 2-15
 Sec. 15 Twp. 32 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Compensated Density Neutron Dual Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Pawnee Lime</td> <td>889 GL</td> <td>-25</td> </tr> <tr> <td>Excello Shale</td> <td>1037 GL</td> <td>-173</td> </tr> <tr> <td>V Shale</td> <td>1082 GL</td> <td>-218</td> </tr> <tr> <td>Mineral Coal</td> <td>1129 GL</td> <td>-265</td> </tr> <tr> <td>Mississippian</td> <td>1403 GL</td> <td>-539</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	889 GL	-25	Excello Shale	1037 GL	-173	V Shale	1082 GL	-218	Mineral Coal	1129 GL	-265	Mississippian	1403 GL	-539
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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	# Sacjs Used	Type and Percent Additives
Surface	11"	8.625"	24	20'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1477'	Thick Set	155	#10 KOL seal @ sx

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				
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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		

TUBING RECORD	Size	Set At	Packer At	Liner Run	
	2-3/8"	1396'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	KCC WICHITA

Date of First, Resumerd Production, SWD or Enhr. 10/3/2007	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	35	0		

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input checked="" type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	

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JUN 30 2009

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Metcalf 2-15		
	Sec. 15 Twp. 32S Rng. 14E, Montgomery County		
API:	15-125-31376-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations			
4	Riverton 1357.5' - 1359.5'	2300 lbs 20/40 sand 223 bbls water 150 gals 15% HCl acid	1357.5' - 1359.5'
4	Mineral 1128' - 1130' V-Shale 1083' - 1085.5' Bevier 1061' - 1062.5'	3200 lbs 20/40 sand 602 bbls water 380 gals 15% HCl acid	1061' - 1130'
4	Mulky 1037' - 1043' Summit 1012.5' - 1015'	10800 lbs 20/40 sand 709 bbls water 456 gals 15% HCl acid	1012.5' - 1043'
4	Dawson 699' - 701'	3000 lbs 20/40 sand 224 bbls water 150 gals 15% HCl acid	699' - 701'

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