

ORIGINAL

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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
September 1999
Form Must Be Typed

Handwritten signatures and date 9/17/09

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:

API No. 15 - 125-31372-00-00 Amended
County: Montgomery
NE SW SE Sec. 30 Twp. 31 S. R. 17 [X] East [ ] West
759 feet from (S) N (circle one) Line of Section
3312 feet from E / (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: Harriman Well #: 15A-30
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 832' Kelly Bushing:
Total Depth: 1144' Plug Back Total Depth: 1139'
Amount of Surface Pipe Set and Cemented at 20 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [X] No
If yes, show depth set Feet
If Alternate II completion, cement circulated from 1139
feet depth to Surface w/ 125 sx cmt.

Designate Type of Completion:
[X] New Well [ ] Re-Entry [ ] Workover
[ ] Oil [ ] SWD [ ] SLOW [ ] Temp. Abd.
[X] 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.

5/24/2007 5/29/2007 5/6/2008
Spud Date or Date Reached TD Completion Date or
Recompletion Date

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Drilling Fluid Management Plan ALT II NH 11-2008
(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: [Handwritten Signature]
Title: Agent Date: 8/18/2008
Subscribed and sworn to before me this 18 day of August
20 08.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2009

KCC Office Use ONLY
[X] Letter of Confidentiality Attached
If Denied, Yes [ ] Date:
[ ] Wireline Log Received RECEIVED
[ ] Geologist Report Received KANSAS CORPORATION COMMISSION
AUG 20 2008
MacLAUGHLIN DARLING
Notary Public - State of Kansas
My Appt. Expires 1-4-2009

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Harriman Well #: 15A-30  
 Sec. 30 Twp. 31 S. R. 17  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;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>490 GL</td> <td>343</td> </tr> <tr> <td>Excello Shale</td> <td>634 GL</td> <td>198</td> </tr> <tr> <td>V Shale</td> <td>687 GL</td> <td>145</td> </tr> <tr> <td>Mineral Coal</td> <td>729 GL</td> <td>103</td> </tr> <tr> <td>Mississippian</td> <td>1039 GL</td> <td>-207</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	490 GL	343	Excello Shale	634 GL	198	V Shale	687 GL	145	Mineral Coal	729 GL	103	Mississippian	1039 GL	-207
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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	20'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1139'	Thick Set	125	#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		CONFIDENTIAL		

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 <u>2-3/8"</u> Set At <u>1071'</u> Packer At _____ Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of First, Resumerd Production, SWD or Enhr. <u>5/9/2008</u> Producing Method <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. <u>0</u> Gas Mcf <u>5</u> Water Bbls. <u>24</u> Gas-Oil Ratio _____ Gravity _____	

Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_

Production Interval  Other (Specify) \_\_\_\_\_

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Harriman 15A-30		
	Sec. 30 Twp. 31S Rng. 17E, Montgomery County		
<b>API:</b>	15-125-31372-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (May 2008)</b>			
4	Riverton 1026' - 1028'	2600 lbs 20/40 sand 196 bbls water 300 gals 15% HCl acid	1026' - 1028'
4	Neutral 980.5' - 981.5' Rowe 971.5' - 972.5'	3100 lbs 20/40 sand 271 bbls water 400 gals 15% HCl acid	971.5' - 981.5'
4	Bluejacket 856.5' - 857.5' Tebo 795' - 796.5'	3200 lbs 20/40 sand 254 bbls water 400 gals 15% HCl acid	795' - 857.5'
4	Croweburg 728' - 729.5' Bevier 687' - 689.5' Bevier 665' - 666.5'	7900 lbs 20/40 sand 507 bbls water 750 gals 15% HCl acid	665' - 729.5'
4	Mulky 634.5' - 639'	6100 lbs 20/40 sand 260 bbls water 300 gals 15% HCl acid	634.5' - 639'

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