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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

4/21/11

Form ACO-1
September 1999
Form Must Be Typed

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: Thornton Air Rotary
License: 33606
Wellsite Geologist: _____

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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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. _____

<u>1/6/2009</u>	<u>1/7/2009</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31815-00-00
County: Montgomery
W2 SE NW Sec. 16 Twp. 33 S. R. 16 East West
1963 feet from S / (circle one) Line of Section
1526 feet from E / (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE SW
Lease Name: Hare Well #: 6-16
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 767' Kelly Bushing: _____
Total Depth: 1186' Plug Back Total Depth: 1178'
Amount of Surface Pipe Set and Cemented at 42 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1178
feet depth to Surface w/ 125 sx cmt.

Drilling Fluid Management Plan ANILS 7-9-08
(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: 4/20/09
Subscribed and sworn to before me this 20 day of April,
2009.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2013

MacLAUGHLIN DARLING
Notary Public - State of Kansas
My Appt. Expires 1-4-2013

KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
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Operator Name: Layne Energy Operating, LLC Lease Name: Hare Well #: 6-16
 Sec. 16 Twp. 33 S. R. 16 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	490 GL	277
Excello Shale	662 GL	105
V-Shale	714 GL	54
Mineral Coal	758 GL	-9
Mississippian	1101 GL	-334

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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	42'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1178'	Thick Set	125	8 lbs KOL seal

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
_____ Perforate				
_____ Protect Casing				
_____ Plug Back TD				
_____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumerd Production, SWD or Enhr. Pending Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0				

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease (If vented, Submit ACO-18.) Open Hole Perf. Dually Comp. Commingled Other (Specify)

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GEOLOGIC REPORT

LAYNE ENERGY

Hare 6-16

W2 SE NW, 1963 FNL, 1526 FWL

Section 16-T33S-R16E

Montgomery County, KS

Spud Date: 1/6/2009
Drilling Completed: 1/0/1900
Logged: 1/7/2009
A.P.I. #: 15125318150000
Ground Elevation: 767'
Depth Driller: 1186'
Depth Logger: 1185'
Surface Casing: 8.625 inches at 42'
Production Casing: 4.5 inches at 1178'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

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Formation

Tops

(below ground)

(subsea)

Quaternary	Surface (Alluvium)	767
Pawnee Limestone	490	277
Excello Shale	662	105
"V" Shale	714	54
Mineral Coal	758	9
Mississippian	1,101	-334

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Daily Well Work Report

HARE 6-16
1/7/2009

Well Location:
MONTGOMERY KS
33S-16E-16 W2 SE NW
1963FNL / 1526FWL

Cost Center G01064400100
Lease Number G010644
Property Code KSDC33S16E1606
API Number 15-125-31815

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Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnetiD
1/6/2009	1/7/2009				

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1186	1178	42	4.5	0	0

Reported By krd	Rig Number	Date 1/6/2009
Taken By krd		Down Time
Present Operation DRILL OUT SURFACE		Contractor THORNTON

Narrative

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 42' DEEP, RIH W/2 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC:\$3160

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