

8/24/09

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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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: M. Brent Natrass
Phone: (913) 748-3960
Contractor: Name: Thornton Air Rotary
License: 33606

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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)

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>5/1/2007</u>	<u>5/2/2007</u>	<u>8/2/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27161-00-00
County: Wilson
SE SW SW Sec. 34 Twp. 30 S. R. 16 East West
584 feet from (S) N (circle one) Line of Section
945 feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: Small AX&P Well #: 13-34
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 797' Kelly Bushing: _____
Total Depth: 722' Plug Back Total Depth: 717'
Amount of Surface Pipe Set and Cemented at 109 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 717
feet depth to Surface w/ 75 sx cmt.

Drilling Fluid Management Plan AKINJ 3/4/09
(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: MS Natrass
Title: Agent Date: 8/24/07
Subscribed and sworn to before me this 24 day of August
20 07.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1/4/2009

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

RECEIVED
KANSAS CORPORATION COMMISSION

MacLAUGHLIN DARLING
Notary Public - State of Kansas
My Appt. Expires 1/4/2009

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CONSERVATION DIVISION
WICHITA KS

Operator Name: Layne Energy Operating, LLC Lease Name: Small AX&P Well #: 13-34
 Sec. 34 Twp. 30 S. R. 16 East West County: Wilson

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>471 GL</td> <td>326</td> </tr> <tr> <td>Excello Shale</td> <td>602 GL</td> <td>195</td> </tr> <tr> <td>V Shale</td> <td>654 GL</td> <td>143</td> </tr> <tr> <td>Mineral Coal</td> <td>691 GL</td> <td>106</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	471 GL	326	Excello Shale	602 GL	195	V Shale	654 GL	143	Mineral Coal	691 GL	106
Name	Top	Datum														
Pawnee Lime	471 GL	326														
Excello Shale	602 GL	195														
V Shale	654 GL	143														
Mineral Coal	691 GL	106														

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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	109'	Class A	20	Type 1 cement
Casing	6.75"	4.5"	10.5	717'	Thick Set	75	#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				

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

TUBING RECORD		Size <u>2-3/8"</u>	Set At <u>696'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>8/16/2007</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>7</u>	Water Bbls. <u>3</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 Other (Specify) _____

Production Interval _____

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Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Small AX&P 13-34		
	Sec. 34 Twp. 30S Rng. 16E, Wilson County		
API:	15-205-27161-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations			
4	Mineral 690' - 692' Croweburg 655' - 657.5'	4400 lbs 20/40 sand 355 bbls water 600 gals 15% HCl acid	655' - 692'
4	Iron Post 634' - 637' Mulky 602' - 608' Summit 582' - 586'	6800 lbs 20/40 sand 574 bbls water 750 gals 15% HCl acid	582' - 637'

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WICHITA, KS

GEOLOGIC REPORT

LAYNE ENERGY
Small AX&P 13-34
SW SW, 584 FSL, 945 FWL
Section 34-T30S-R16E
Wilson County, KS

Spud Date: 5/1/2007
Drilling Completed: 5/2/2007
Logged: 5/2/2007
A.P.I. #: 1520527161
Ground Elevation: 797'
Depth Driller: 722'
Depth Logger: 719'
Surface Casing: 8.625 inches at 110'
Production Casing: 4.5 inches at 717'
Cemented Job: 0
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

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Formation	Tops	
	(below ground)	(subsea)
	Surface (Nellie Bly Formation)	797
Kansas City Group	471	326
Pawnee Limestone	602	195
Excello Shale	654	143
"V" Shale	691	106
Mineral Coal		
Mississippian		

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WICHITA KS

Daily Well Work Report

SMALL AX&P 13-34

5/2/2007

Well Location:

WILSON KS
30S-16E-34 SW SW
584FSL / 945FWL

Cost Center

Lease Number

Property Code

API Number

C010219bg

KSCV30S16E3413

15-205-27161

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
5/1/2007	5/2/2007	8/2/2007			

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
722	717	109	717		

Reported By krd

Rig Number

Date

5/1/2007

Taken By krd

Down Time

Present Operation Drill out from under surface

Contractor

Thornton Rotary Drillin

Narrative

MIRU Thorton Drilling, drilled 11'hole, 109' deep, rih w/5jts 8-5/8" surface casing. Mixed 20 sxs type 1 cement, dumped dn the back side. SDFN. 109' surf. 5 joints. DWC: \$3720.00

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Monday, August 13, 2007

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