

10/29/09
Form ACO-1
September 1999
Form Must Be Typed

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

CONFIDENTIAL

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: _____
 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>7/16/2007</u>	<u>7/18/2007</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27228-00-00
 County: Wilson
 _____ NW _____ Sec. 21 Twp. 30 S. R. 15 East West
502 feet from S / N (circle one) Line of Section
523 feet from E / W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Olenhouse Well #: 4-21
 Field Name: Cherokee Basin Coal Area
 Producing Formation: Cherokee Coals
 Elevation: Ground: 972' Kelly Bushing: _____
 Total Depth: 1398' Plug Back Total Depth: 1391'
 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 1391
 feet depth to Surface w/ 145 sx cmt.

Drilling Fluid Management Plan AK II NS 3-24-09
 (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: [Signature]
 Title: Agent Date: 10-27-07
 Subscribed and sworn to before me this 29 day of October
20 07
 Notary Public: MacLaughlin Darline
 Date Commission Expires: 1-4-2009

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

KCC Office Use ONLY

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

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OCT 30 2007
 CONSERVATION DIVISION
 WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Olenhouse Well #: 4-21
 Sec. 21 Twp. 30 S. R. 15 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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>856 GL</td> <td>116</td> </tr> <tr> <td>Excello Shale</td> <td>962 GL</td> <td>10</td> </tr> <tr> <td>V Shale</td> <td>1033 GL</td> <td>-61</td> </tr> <tr> <td>Mineral Coal</td> <td>1073 GL</td> <td>-101</td> </tr> <tr> <td>Mississippian</td> <td>1305 GL</td> <td>-333</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	856 GL	116	Excello Shale	962 GL	10	V Shale	1033 GL	-61	Mineral Coal	1073 GL	-101	Mississippian	1305 GL	-333
Name	Top	Datum																	
Pawnee Lime	856 GL	116																	
Excello Shale	962 GL	10																	
V Shale	1033 GL	-61																	
Mineral Coal	1073 GL	-101																	
Mississippian	1305 GL	-333																	

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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	1391'	Thick Set	145	#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>
	SI-waiting on completion	RECEIVED KANSAS CORPORATION COMMISSION OCT 30 2007 CONSERVATION DIVISION WICHITA, KS

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. SI - waiting on pipeline		Producing Method <input type="checkbox"/> Flowing <input 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

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

METHOD OF COMPLETION Production Interval

(If vented, Submit ACO-18.)

GEOLOGIC REPORT

LAYNE ENERGY
Olenhouse 4-21
NW NW, 502 FNL, 523 FWL
Section 21-T30S-R15E
Wilson County, KS

Spud Date: 7/16/2007
Drilling Completed: 7/18/2007
Logged: 7/18/2007
A.P.I. #: 15205272280000
Ground Elevation: 972
Depth Driller: 1398'
Depth Logger: 1394'
Surface Casing: 8.625 inches at 21'
Production Casing: 4.5 inches at 1391'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

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Formation	Tops	
	(below ground)	(subsea)
Lansing Group	Stanton Limestone	972
Pawnee Limestone	856	116
Excello Shale	962	10
"V" Shale	1,033	-61
Mineral Coal	1,073	-101
Mississippian	1,305	-333

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WICHITA, KS

CONSOLIDATED OIL WELL SERVICE, C.
 P.O. BOX 884, CHANUTE, KS 66720
 620-431-9210 OR 800-467-8676

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TICKET NUMBER 11107
 LOCATION EUREKA
 FOREMAN KEVIN MCCOY

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-19-07	4758	Olenhouse 4-21				Wilson

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Layne Energy	445	Justin		
	515	CALIN		

CITY	STATE	ZIP CODE
Sycamore	Ks	

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1398' CASING SIZE & WEIGHT 4 1/2 10.5 New
 CASING DEPTH 1391' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.2 # SLURRY VOL 45 BBL WATER gal/sk 8.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 22.2 BBL DISPLACEMENT PSI 700 PSI 1100 Bump Plug RATE _____

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. Break Circulation w/ 25 BBL Fresh water. Pump 8 sks Gel Flush w/ HULLS, 5 BBL water Spacer, 20 BBL Metasilicate Pre Flush, 14 BBL Dye water. Mixed 145 sks THICK Set Cement w/ 10" Kol-Seal per/sk @ 13.2 # per/gal, yield 1.75, wash out Pump & Lines. shut down. Release Plug. Displace w/ 22.2 BBL Fresh water. FINAL Pumping Pressure 700 psi. Bump Plug to 1100 psi, wait 2 minutes. Release Pressure, Float Held. Good Cement Returns to Surface = 9 BBL Slurry to Pit. Job Complete. Rig down.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	840.00	840.00
5406	40	MILEAGE	3.30	132.00
1126 A	145 sks	THICK Set Cement	15.40	2233.00
1110 A	1450 *	KOL-SEAL 10" per/sk RECEIVED	38 "	551.00
1118 A	400 #	Gel Flush	.15 #	60.00
1105	50 #	HULLS	.36 #	18.00
1102	80 #	CACL2	.67 #	53.60
1111 A	100 #	Metasilicate Pre Flush	1.65 #	165.00
5407 A	7.97 TONS	40 miles BULK TRUCK	1.10	350.68
4404	1	4 1/2 Top Rubber Plug	40.00	40.00
			Sub Total	4443.28
		THANK YOU	6.3%	SALES TAX
				ESTIMATED TOTAL
				4639.88

AUTHORIZATION Called By Gus Jones TITLE Contractor DATE _____

116290

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Daily Well Work Report

OLENHOUSE 4-21
7/16/2007

Well Location:
MONTGOMERY KS
30S-15E-21 NW NW
502FNL / 523FWL

Cost Center G01020400100
Lease Number G010204
Property Code GLNA196
API Number 15-205-27228

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
7/16/2007	7/18/2007				

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1398	1391	20	1391		

Reported By krd	Rig Number	Date 7/16/2007
Taken By krd		Down Time
Present Operation Drill out from under surface		Contractor Thornton Drilling

Narrative

Miru Thornton Drilling, drilled 11" hole, 20' deep, rih w/ 1 jt 8-5/8" surface casing, mxd 4 sxs type 1 cmt, dumped dn the backside, sdfn.
DWC: \$ 2,880

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