

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

10/10/09

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: 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>6/15/2007</u>	<u>6/19/2007</u>	<u>8/13/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27206-00-00
County: Wilson
_____ SW SE Sec. 32 Twp. 30 S. R. 16 East West
398 feet from S / N (circle one) Line of Section
1949 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Lange AX&P Well #: 15-32
Field Name: Cherokee Basin Coal Area

Producing Formation: Cherokee Coals
Elevation: Ground: 780' Kelly Bushing: _____
Total Depth: 737' Plug Back Total Depth: 727'
Amount of Surface Pipe Set and Cemented at 63 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 727
feet depth to Surface w/ 75 sx cm.

Drilling Fluid Management Plan AH 1113-009
(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: 10-10-09
Subscribed and sworn to before me this 10 day of October,
2007.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2009

KCC Office Use ONLY

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

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WICHITA, KS

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

Operator Name: Layne Energy Operating, LLC Lease Name: Lange AX&P Well #: 15-32
 Sec. 32 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 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

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Pawnee Lime	496 GL	284
Excello Shale	628 GL	152
V Shale	682 GL	98
Mineral Coal	720 GL	60

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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	63'	Class A	12	Type 1 cement
Casing	6.75"	4.5"	10.5	727'	Thick Set	75	

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 (Amount and Kind of Material Used)	Depth
	See Attached Page		

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	701'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
8/24/2007		<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	36	30		

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:	Lange AX&P 15-32		
	Sec. 32 Twp. 30S Rng. 16E, Wilson County		
API:	15-205-27206-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations			
4	V-Shale 683' - 685.5' Bevier 661' - 663'	5000 lbs 20/40 sand 426 bbls water 490 gals 15% HCl acid	661' - 685.5'
4	Mulky 629' - 636' Summit 611' - 615'	8600 lbs 20/40 sand 623 bbls water 500 gals 15% HCl acid	611' - 636'

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WICHITA, KS

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

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OCT 10 2007

TICKET NUMBER 12011

LOCATION EUREKA

FOREMAN KEVIN MCCOY

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-20-07	4158	LANGE AX&P 15-32				WILSON
CUSTOMER <u>Layne Energy</u>			Gus Jones Rig 1			
MAILING ADDRESS <u>P.O. Box 160</u>						
CITY <u>Sycamore</u>	STATE <u>Ks</u>	ZIP CODE	TRUCK # <u>445</u>	DRIVER <u>Justin</u>	TRUCK #	DRIVER
			<u>502</u>	<u>Shannon</u>		
JOB TYPE <u>Longstring</u>	HOLE SIZE <u>6 3/4</u>	HOLE DEPTH <u>732'</u>	CASING SIZE & WEIGHT <u>4 1/2 10.5" NBW</u>			
CASING DEPTH <u>727'</u>	DRILL PIPE	TUBING	OTHER			
SLURRY WEIGHT <u>13.2*</u>	SLURRY VOL <u>36 BBL</u>	WATER gal/sk <u>8.0</u>	CEMENT LEFT in CASING <u>0'</u>			
DISPLACEMENT <u>11.5 BBL</u>	DISPLACEMENT PSI <u>500</u>	PSI <u>1000 Bump Plug</u>	RATE			

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. BREAK Circulation w/ 15 BBL Fresh water. Pump 4 SKS Gel Flush w/ HULLS, 10 BBL water spacer, 20 BBL Metasilicate Pre Flush, 5 BBL Dye water. Mixed 75 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/ 11.5 BBL Fresh water. Final Pumping Pressure 500 PSI. Bump Plug to 1000 PSI. wait 2 minutes. Release Pressure. Float Held. Good Cement Returns to Surface = 6 BBL slurry. 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
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1126 A	75 SKS	THICK SET Cement	15.40	1155.00
1110 A	750 *	Kol-Seal 10" per/sk	.38 *	285.00
CONSERVATION DIVISION WICHITA, KS				
1118 A	200 *	Gel Flush	.15 *	30.00
1105	50 *	Hulls	.36 *	18.00
1102	80 *	CaCl2	.67 *	53.60
1111 A	100 *	Metasilicate Pre Flush	1.65 *	165.00
5407	4.1 Tons	Ton Mileage BULK TRUCK	MIC	285.00
4404	1	4 1/2 Top Rubber Plug	40.00	40.00
Sub Total				3003.60
THANK You			6.3%	SALES TAX 110.05
				ESTIMATED TOTAL 3113.65

AUTHORIZATION Called By Mike Taylor TITLE Co. Rep DATE _____

214199

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

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TICKET NUMBER 17493
 LOCATION Europe
 FOREMAN Troy Stricker

TREATMENT REPORT & FIELD TICKET
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-18-07	4758	Large 15-32 AX+P				Wilson

CUSTOMER
Layne Energy

MAILING ADDRESS
P.O. Box 160

CITY
Sycamore

STATE
KS

ZIP CODE

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Kyle		
479	Jeff		
486	Shannon		

JOB TYPE Surface HOLE SIZE 11" HOLE DEPTH 62' CASING SIZE & WEIGHT 8 5/8"

CASING DEPTH 60' DRILL PIPE _____ TUBING _____ OTHER _____

SLURRY WEIGHT 14.7* SLURRY VOL _____ WATER gal/sk 6.5* CEMENT LEFT in CASING 10'

DISPLACEMENT 38bl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rig up to 8 5/8" casing. Break circulation w/ 50bl water. Mixed 100lbs Class A Cement w/ 22 Gal, 2% Cacl₂ + 1/4" Floccle @ 14.7 * w/gal. Displace w/ 38bl water. Shut casing in w/ lite cement to surface.
Job Complete

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	650.00	650.00
5406	40	MILEAGE	3.30	132.00
1104S	100lbs	Class A Cement	12.20	1220.00
1118A	190*	Gel 2%	.15*	28.50
1102	190*	Cacl ₂ 2%	.67*	127.30
1107	25*	Floccle 1/4" w/gal	1.90*	47.50
5502C	3hrs	808bl Vac Truck	90.00	270.00
1123	3000gal	City Water	12.80%	38.40
5407		Ton-mileage Bulk Truck	n/c	285.00
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CONSERVATION DIVISION WICHITA, KS				
Thank You!				
			5.67%	2798.70
			SALES TAX	92.09
			ESTIMATED TOTAL	2890.79

AUTHORIZATION Called by Bill Horton TITLE _____ DATE _____

2890.79

Daily Well Work Report

LANGE AX&P 15-32

6/15/2007

Well Location:
WILSON KS
30S-16E-32 SW SE
398FSL / 1949FEL

Cost Center C01021901600
Lease Number C010219ai
Property Code KSCV30S16E3215
API Number 15-205-27206

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
6/15/2007	6/19/2007	8/13/2007	8/24/2007	8/23/2007	LANG_AXP_15_32

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
737	727	63	727	0	0

Reported By KRD **Rig Number** **Date** 6/15/2007
Taken By KRD **Down Time**
Present Operation Cmt Surface **Contractor** Thornton Drilling

Narrative

MIRU Thorton Drilling, drilled 11'hole, 63' deep, rih w/ 3 jts 8-5/8" surface casing. Mixed 12 sxs type 1 cement, dumped dn the back side. SDFN. \$3,360

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GEOLOGIC REPORT

LAYNE ENERGY
Lange AX&P 15-32
SW SE, 398 FSL, 1949 FEL
Section 32-T30S-R16E
Wilson County, KS

Spud Date: 6/15/2007
Drilling Completed: 6/19/2007
Logged: 6/19/2007
A.P.I. #: 15205272060000
Ground Elevation: 780'
Depth Driller: 737'
Depth Logger: 736'
Surface Casing: 8.625 inches at 60'
Production Casing: 4.5 inches at 727'
Cemented Job: 0'
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

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Formation	Tops	
	(below ground)	(subsea)
Quaternary	Surface (Alluvium)	780
Pawnee Limestone	496	284
Excello Shale	628	152
"V" Shale	682	98
Mineral Coal	720	60
Mississippian		

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