

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

7/22/10

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: McPherson Drilling
License: 5675
Wellsite Geologist: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Exp. Calfluid, 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. _____

4/282008 4/29/2008 7/9/2008
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 125-31602-00-00
County: Montgomery
SW SW NW Sec. 22 Twp. 31 S. R. 14 East West
2231 feet from S / (circle one) N Line of Section
394 feet from E / (circle one) W Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Kramer Well #: 5-22
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 877' Kelly Bushing: _____
Total Depth: 1444 Plug Back Total Depth: 1435'
Amount of Surface Pipe Set and Cemented at 22 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1435
feet depth to Surface w/ 200 sx cmt.

Drilling Fluid Management Plan ACT II NH 8-13-08
(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: Agent Date: 7-21-08
Subscribed and sworn to before me this 21 day of July,
20 08.
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
 Distribution
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KANSAS CORPORATION COMMISSION
JUL 23 2008
CONSERVATION DIVISION
WICHITA, KS

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

Operator Name: Layne Energy Operating, LLC Lease Name: Kramer Well #: 5-22
 Sec. 22 Twp. 31 S. R. 14 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;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Pawnee Lime</td> <td>922 GL</td> <td>-45</td> </tr> <tr> <td>Excello Shale</td> <td>1072 GL</td> <td>-195</td> </tr> <tr> <td>V-Shale</td> <td>1122 GL</td> <td>-245</td> </tr> <tr> <td>Mineral Coal</td> <td>1168 GL</td> <td>-291</td> </tr> <tr> <td>Mississippian</td> <td>1433 GL</td> <td>-556</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	922 GL	-45	Excello Shale	1072 GL	-195	V-Shale	1122 GL	-245	Mineral Coal	1168 GL	-291	Mississippian	1433 GL	-556
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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	22'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1435'	Thick Set	200	50/50 posmix w/2% gel
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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		
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		JUL 23 2008	
		CONSERVATION DIVISION WICHITA, KS	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-3/8"	1376'			
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
Shut-In		<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
	0				

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> _____ <input type="checkbox"/> _____

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Kramer 5-22		
	Sec. 22 Twp. 31S Rng. 14E, Montgomery County		
API:	15-125-31602-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (July 2008)			
4	Rowe 1356.5' - 1358.5'	2800 lbs 20/40 sand 510 bbls water 570 gals 15% HCl acid	1356.5' - 1358.5'
4	Mineral 1140.5' - 1142.5' Croweburg 1096.5' - 1099' Iron Post 1077' - 1078.5'	8400 lbs 20/40 sand 553 bbls water 500 gals 15% HCl acid	1077' - 1142.5'
4	Mulky 1039.5' - 1044' Summit 1022.5' - 1024'	8600 lbs 20/40 sand 439 bbls water 500 gals 15% HCl acid	1022.5' - 1044'
4	Mulberry 906.5' - 908'	1000 lbs 20/40 sand 259 bbls water 600 gals 15% HCl acid	906.5' - 908'

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TOPEKA, KS

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



ENTERED

TICKET NUMBER 13988
LOCATION EUREKA
FOREMAN Rick Leonard

**TREATMENT REPORT & FIELD TICKET
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
4-30-08	4758	Kramer 5-22				ME												
CUSTOMER <u>Layne Energy</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>463</td> <td>Kyle</td> <td></td> <td></td> </tr> <tr> <td>502</td> <td>Phillip</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	463	Kyle			502	Phillip		
TRUCK #	DRIVER	TRUCK #					DRIVER											
463	Kyle																	
502	Phillip																	
MAILING ADDRESS <u>P.O. Box 160</u>																		
CITY <u>Sycamore</u>	STATE <u>KS</u>	ZIP CODE																

JOB TYPE long string HOLE SIZE 6 3/4" HOLE DEPTH 1408' CASING SIZE & WEIGHT 4 1/2" 16.5"
 CASING DEPTH 1406' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 139 # SLURRY VOL 48.6 cu WATER gal/sk 6' CEMENT LEFT in CASING 0'
 DISPLACEMENT 22.3 bbl DISPLACEMENT PSI 600 ⁵⁰⁰ PSI 1100 RATE _____

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 30 bbl fresh water. Pump 6 sec gel-flush w/ hulls, 20 bbl water spacer, 5 bbl dye water. Mixed 195 lbs 50/50 Azmix cement w/ 220 gal, 220 cases, 4" Kal-seal, 3" Cal-seal, 1/2" floccle #125, 1/2" FL-110, 1/4" CAF-38 @ 139 #. Yield 1.40. Washout pump & lines. release plug. Displace w/ 22.3 bbl fresh water. Final pump pressure 600 PSI. Pump plug to 1000 PSI wait 2 minutes. release pressure, float held. Good cement returns to surface = 8 bbl slurry to pit. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	875.00	875.00
5406	40	MILEAGE	3.45	138.00
1124	195 SWS	50/50 Azmix cement	9.30	1813.50
1118A	330 #	220 gel	.16	52.80
1102	330 #	220 case	.70	231.00
110A	280 #	Kal-seal 4" #125	.40	312.00
1101	585 #	Cal-seal 3" #125	.35	204.75
1107	24 #	1/2" floccle #125	1.98	47.52
1135	82 #	1/2" FL-110	7.15	586.30
1146	41 #	1/4" CAF-38	7.30	299.30
1118A	300 #	gel-flush	.16	48.00
1105	50 #	hulls	.37	18.50
5407A	8.2	con-milage built t/c	1.14	373.92
4404	1	4 1/2" top rubber plug	42.00	42.00
			Subtotal	5042.59
			SALES TAX	193.75
			ESTIMATED TOTAL	5236.34

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CONSERVATION DIVISION WICHITA, KS

201636

TITLE Field supervisor

DATE _____

AUTHORIZATION Jacks McClure

GEOLOGIC REPORT

LAYNE ENERGY
Kramer 5-22
SW NW, 2231 FNL, 394 FWL
Section 22-T31S-R14E
Montgomery County, KS

Spud Date: 4/28/2008
Drilling Completed: 4/29/2008
Logged: 4/30/2008
A.P.I. #: 15125316020000
Ground Elevation: 873'
Depth Driller: 1408'
Depth Logger: 1410'
Surface Casing: 8.625 inches at 22'
Production Casing: 4.5 inches at 1405.85'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

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Formation

	Tops	
	(below ground)	(subsea)
	Surface (South	
	Bend Limestone	
Lansing Group	Member)	873
Pawnee Limestone	911	-38
Excello Shale	1,039	-166
"V" Shale	1,096	-223
Mineral Coal	1,141	-268
Mississippian	1,399	-526

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WICHITA, KS

Daily Well Work Report

KRAMER 5-22
4/29/2008

Well Location:
MONTGOMERY KS
31S-14E-22 SW SW NW
2231FNL / 394FWL

Cost Center G01054100100
Lease Number G010541
Property Code KSSY31S14E2205
API Number 15-125-31602

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
4/28/2008	4/29/2008			7/14/2008	KRAMER_5_22

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1408	1405.85	22	1405.85	0	0

Reported By krd

Rig Number

Date

4/28/2008

Taken By krd

Down Time

Present Operation DRILL OUT SURFACE

Contractor

MCPHERSON

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Narrative

MIRU MCPHERSON, DRILLED 11" HOLE, 22' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC:\$2880

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