

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form
September
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

6/26/10

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: Thornton Air Rotary
License: 33606
Wellsite Geologist: _____

API No. 15 - 019-26884-00-00
County: Chautauqua
____ - ____ - NW - NW Sec. 22 Twp. 32 S. R. 13 East West
660 feet from S / (circle one) Line of Section
660 feet from E / (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Davidson Well #: 4-22
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 924' Kelly Bushing: _____
Total Depth: 1598' Plug Back Total Depth: 1594'
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 1594
feet depth to Surface w/ 220 sx cmt.

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Add.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
If Workover/Re-entry: Old Well Info as follows:

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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. _____

3/7/2008 3/11/2008 5/1/2008
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan AH II MS 7-14-09
(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: _____
Title: Agent Date: 6-26-08
Subscribed and sworn to before me this 26 day of June, 2008.
Notary Public: MacLaughlin Darling
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 **RECEIVED**
 Geologist Report Received **KANSAS CORPORATION COMMISSION**
JUN 27 2008
CONSERVATION DIVISION
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Davidson Well #: 4-22
 Sec. 22 Twp. 32 S. R. 13 East West County: Chautauqua

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>1090 GL</td> <td>-166</td> </tr> <tr> <td>Excello Shale</td> <td>1227 GL</td> <td>-303</td> </tr> <tr> <td>V-Shale</td> <td>1277 GL</td> <td>-353</td> </tr> <tr> <td>Mineral Coal</td> <td>1320 GL</td> <td>-396</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	1090 GL	-166	Excello Shale	1227 GL	-303	V-Shale	1277 GL	-353	Mineral Coal	1320 GL	-396
Name	Top	Datum														
Pawnee Lime	1090 GL	-166														
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V-Shale	1277 GL	-353														
Mineral Coal	1320 GL	-396														

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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	42'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1594'	Thick Set	220	50/50 posmix w/2% gel

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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TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	1404'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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Date of First, Resumerd Production, SWD or Enhr.	Producing Method
5/8/2008	<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	65	6		

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION

Production Interval Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Davidson 4-22		
	Sec. 22 Twp. 32S Rng. 13E, Chautauqua County		
API:	15-019-26884-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (April 2008)			
4	Mineral 1320.5' - 1321.5' Croweburg 1277.5' - 1279.5' Iron Post 1257' - 1258.5'	7000 lbs 20/40 sand 476 bbls water 500 gals 15% HCl acid	1257' - 1321.5'
4	Mulky 1227' - 1231' Summit 1204' - 1205.5'	6200 lbs 20/40 sand 580 bbls water 750 gals 15% HCl acid	1204' - 1231'

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Daily Well Work Report

DAVIDSON 4-22

3/7/2008

Well Location:
CHAUTAUQUA KS
32S-13E-22 NW NW
660FNL / 660FWL

Cost Center G01026500100
Lease Number G010265
Property Code KSLE32S13E2204
API Number 15-019-26884

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnatID
3/7/2008	3/11/2008	5/1/2008	5/8/2008	5/8/2008	DAVIDSON_4_22

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1598	1594	22	1594	0	0

Reported By KRD	Rig Number	Date 3/7/2008
Taken By KRD		Down Time
Present Operation DRILL OUT FROM UNDER SURFACE		Contractor THORNTON DRILLING

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Narrative

MIRU THORNTON, DRILLED 11" HOLE, 42' DEEP, RIF 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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Tuesday, June 24, 2008

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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

TICKET NUMBER 13634
 LOCATION FURREA
 FOREMAN RKK LEDNER

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-11-09	4758	Davidson 4-22				Cherokee
CUSTOMER <u>Layne Energy</u>			G.S. Jones			
MAILING ADDRESS <u>P.O. Box 160</u>						
CITY <u>Sycamore</u>	STATE <u>KS</u>	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
			<u>463</u>	<u>Kyle</u>		
			<u>441</u>	<u>J.P.</u>		

JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT
<u>logstring</u>	<u>6 3/4"</u>	<u>1598'</u>	<u>4 1/2" 10.5"</u>
CASING DEPTH	DRILL PIPE	TUBING	OTHER
<u>1598'</u>			
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT PUMP in CASING
<u>13.9"</u>	<u>55 Bbl</u>	<u>6'</u>	<u>0'</u>
DISPLACEMENT	DISPLACEMENT PSI	PSI	RATE
<u>25.3 Bbl</u>	<u>900</u>	<u>1300</u>	

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 35 Bbl fresh water. Pump 6 sks gel-flush w/ hulls 25 Bbl water spacer. 5 Bbl dye water. Mixed 220 sks 50/50 Permix cement w/ 270 gal, 270 cacle, 4" Katson 4" #1/sk, 3" Cal-sol 3" #1/sk, 1/4" flex 1/4" #1/sk, 1/2" 52-110, 1/4" CAF-38 @ 13.9" #1/sk. yield 1.20. Washout pump + lines. shut down. release plug. Displace w/ 25.3 Bbl fresh water. Final pump pressure 900 PSI. Pump plug to 1300 PSI. wait 2 minutes. release pressure, float held. Gravel cement returns to surface. 7 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	220 sks	50/50 Permex cement	9.30	2046.00
1118A	370"	270 gal	.16	59.80
1102	370"	270 cacle	.20	259.00
1110A	880"	Katson 4" #1/sk	.40	352.00
1101	660"	cal-sol 3" #1/sk	.35	231.00
1107	55"	1/4" flex 1/4" #1/sk	1.98	108.90
1135	90"	52-110 1/2"	7.15	643.50
1146	45"	CAF-38 1/4"	7.30	328.50
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1118A	300"	gel-flush	.16	48.00
1105	50"	hulls	.37	18.50
5407A	9.24	large blue trix	1.14	421.34
440Y	1	4 1/2" top rubber plug	42.00	42.00
			subtotal	5570.94
			6.3%	SALES TAX 246.62
				ESTIMATED TOTAL 5831.56

AUTHORIZATION Jacob Mecler TITLE 220626 DATE _____

GEOLOGIC REPORT

LAYNE ENERGY
Davidson 4-22
NW NW, 660 FNL, 660 FWL
Section 22-T32S-R13E
Chautauqua County, KS

Spud Date: 3/7/2008
Drilling Completed: 3/11/2008
Logged: 3/11/2008
A.P.I. #: 15019268840000
Ground Elevation: 924'
Depth Driller: 1598'
Depth Logger: 1590'
Surface Casing: 8.625 inches at 22'
Production Casing: 4.5 inches at 1594'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

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Formation	Tops	
	(below ground)	(subsea)
	Surface (Stranger Formation)	924
Douglas Group		
Pawnee Limestone	1,090	-166
Excello Shale	1,227	-303
"V" Shale	1,277	-353
Mineral Coal	1,320	-396
Mississippian		

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