

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

7/21/10

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 Drilling  
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, Expt. Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_

Well Name: KCC  
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. \_\_\_\_\_

4/23/2008      4/24/2008      7/3/2008  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 125-31529-00-00  
County: Montgomery  
\_\_\_\_\_ NE SW Sec. 5 Twp. 34 S. R. 16  East  West  
1741 feet from  N (circle one) Line of Section  
2036 feet from E /  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW  W  
Lease Name: Crutchfield Well #: 11-5  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals

Elevation: Ground: 837' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1230' Plug Back Total Depth: 1229'  
Amount of Surface Pipe Set and Cemented at 21 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1229  
feet depth to Surface w/ 170 sx cmt.

Drilling Fluid Management Plan A1+II NH 9-3-08  
(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  
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**  
4 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_ RECEIVED  
 Wireline Log Received KANSAS CORPORATION COMMISSION  
 Geologist Report Received  
JUL 22 2008  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Crutchfield Well #: 11-5  
Sec. 5 Twp. 34 S. R. 16  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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pawnee Lime	553 GL	284
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	735 GL	102
List All E. Logs Run:		V-Shale	790 GL	47
Compensated Density Neutron		Mineral Coal	843 GL	-6
Dual Induction		Mississippian	1199 GL	-362

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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	KCC 11"	8.625"	24	21'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1229'	Thick Set	170	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 <i>(Amount and Kind of Material Used)</i>	Depth
	See Attached Page		

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TUBING RECORD	Size 2-3/8"	Set At 1208'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumerd Production, SWD or Enhr. 7/9/2008	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls. 0	Gas Mcf 6	Water Bbls. 0	Gas-Oil Ratio	Gravity
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Disposition of Gas      METHOD OF COMPLETION      Production Interval

Vented    Sold    Used on Lease       Open Hole    Perf.    Dually Comp.    Commingled \_\_\_\_\_  
*(If vented, Submit ACO-18.)*       Other (Specify) \_\_\_\_\_

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Crutchfield 11-5		
	Sec. 5 Twp. 34S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-31529-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (May 2008)</b>			
4	Riverton 1183.5' - 1186.5'	2500 lbs 20/40 sand 416 bbls water 450 gals 15% HCl acid	1183.5' - 1186.5'
4	Weir 920.5' - 923'	1700 lbs 20/40 sand 139 bbls water 100 gals 15% HCl acid	920.5' - 923'
4	Croweburg 790.5' - 794' Bevier 776.5' - 777.5' Iron Post 762.5' - 764'	7400 lbs 20/40 sand 519 bbls water 750 gals 15% HCl acid	762.5' - 794'
4	Mulky 735' - 738.5' Summit 702.5' - 704.5'	7800 lbs 20/40 sand 376 bbls water 500 gals 15% HCl acid	702.5' - 738.5'

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# GEOLOGIC REPORT

LAYNE ENERGY  
Crutchfield 11-5  
NE SW, 1741 FSL, 2036 FWL  
Section 5-T34S-R16E  
Montgomery County, KS

Spud Date: 4/23/2008  
Drilling Completed: 4/24/2008  
Logged: 4/24/2008  
A.P.I. #: 15125315290000  
Ground Elevation: 837'  
Depth Driller: 1230'  
Depth Logger: 1230'  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1228.9'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

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Formation  
**KCC**

	Tops	
	(below ground)	(subsea)
Surface (Noxie		
Sandstone)		837
Kansas City Group		
Pawnee Limestone	553	284
Excello Shale	735	102
"V" Shale	790	47
Mineral Coal	843	-6
Mississippian	1,199	-362

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# Daily Well Work Report

CRUTCHFIELD 11-5

4/24/2008

**Well Location:**  
MONTGOMERY KS  
34S-16E-5 NE SW  
1741FSL / 2036FWL

**Cost Center** G01064600100  
**Lease Number** G010646  
**Property Code** KSDC34S16E0511  
**API Number** 15-125-31529

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
4/23/2008	4/24/2008	7/3/2008	7/9/2008	7/9/2008	CRUTFIELD11_5

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1230	1228.9	21	1228.9	0	0

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<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 4/23/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> THORNTON

## Narrative

MIRU THORNTON, DRILLED 11" HOLE, 21' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.  
dwc:\$2,880

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13984

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

TICKET NUMBER
LOCATION EUREKA
FOREMAN RICK LEAFORD

TREATMENT REPORT & FIELD TICKET
CEMENT

Table with columns: DATE, CUSTOMER #, WELL NAME & NUMBER, SECTION, TOWNSHIP, RANGE, COUNTY. Includes customer info for Layne Energy and driver info for GUS JONES.

Table with columns: JOB TYPE, HOLE SIZE, HOLE DEPTH, CASING SIZE & WEIGHT, CASING DEPTH, DRILL PIPE, TUBING, OTHER, SLURRY WEIGHT, SLURRY VOL, WATER gal/sk, CEMENT LEFT in CASING, DISPLACEMENT, DISPLACEMENT PSI, RATE.

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 25 Bbl fresh water. Washdown 65' to T.D. Pump 6 hrs gel-flush w/ hulls, 20 Bbl water pump, 10 Bbl dye water. Mixed 170 sacks 50/50 Permox cement w/ 270 gal, 270 cacl2, 4" Kol-seal, 3" cal-seal, 1/8" floacle 1/8" x 1/8", 1/2" FE-110 + 1/4" CAF-38 @ 13.9 lbs/gal. yield 1.40. Washout pump + lines shut down. Displace w/ 19 1/2 Bbl fresh water. Final pump pressure 600 PSI. Pump plug to 12000 RIG. wait 2 minutes release pressure, flat held. Card cement returns to surface = 2 Bbl slurry to pit. Job complete. Rig down.

KCC
"Thank You"

Table with columns: ACCOUNT CODE, QUANTITY or UNITS, DESCRIPTION of SERVICES or PRODUCT, UNIT PRICE, TOTAL. Lists items like PUMP CHARGE, MILEAGE, 50/50 Permox cement, etc.

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