

**CONFIDENTIAL**

**ORIGINAL**

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1  
September 1999  
Form Must Be Typed

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

12/03/08

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 **CONFIDENTIAL**  
Contractor Name: Thornton Air Rotary **DEC 03 2008**  
License: 33606  
Wellsite Geologist: KCC

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     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>8/13/2008</u>	<u>8/15/2008</u>	<u>9/19/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31729-00-00  
County: Montgomery  
     -      - SW - SE Sec. 5 Twp. 31 S. R. 14  East  West  
503 feet from (S) N (circle one) Line of Section  
1968 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE (SE) NW SW  
Lease Name: McCabe Well #: 15-5  
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 989' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1573' Plug Back Total Depth: 1570'  
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 1570  
feet depth to Surface w/ 220 sx cmt.

**Drilling Fluid Management Plan** AFI WS 29-09  
*(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: Project Engineer Date: 12/3/08  
Subscribed and sworn to before me this 3 day of December  
08  
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  
 Geologist Report Received  
RECEIVED  
KANSAS CORPORATION COMMISSION  
DEC 04 2008  
UIC Distribution

CONSERVATION DIVISION  
WICHITA, KS



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 19196  
LOCATION Eureka  
FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-18-08	4758	Average 15-5				MG
CUSTOMER Layne Energy McCabe			Gus Jones			
MAILING ADDRESS P.O. Box 160			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Syramore			463	Shannon		
STATE KS			502	Phillip		
ZIP CODE						

JOB TYPE logstring HOLE SIZE 6 3/4" HOLE DEPTH 1573' CASING SIZE & WEIGHT 4 1/2" 16.5"  
CASING DEPTH 1570' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 13.9" SLURRY VOL 55 bbl WATER gal/sk 6 CEMENT LEFT in CASING 0'  
DISPLACEMENT 25 bbl DISPLACEMENT PSI 700 <sup>Comp</sup> PSI 1100 RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 30 bbl fresh water. Washdown 100' to T.O. Pump 60 bbl ahead. Pump 6 ses gal-flush w/ hulls 25 bbl water spacer. Mixed 220 sus 50/50 Pacmix cement w/ 270 cement, 220 gal, 4" Kol-seal, 3" col-seal, 1/8" phos-seal, 1/2" FL-110 + 1/4" CAF-38 @ 13.9 gal. yield 1.20. Washout pump + lines, shut down, release plug. Displace w/ 25 bbl fresh water. Final pump pressure 200 PSI. Pump plug to 1100 PSI, wait 2 minutes, release pressure, flame held. Good cement returns to surface = 9 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	925.00	925.00
5406	40	MILEAGE	3.65	146.00
1124	220 sus	50/50 Pacmix cement	9.75	2145.00
1102	370"	270 cement	.75	277.50
1118A	370"	270 gal	.17	62.90
1110A	880"	4" Kol-seal <sup>per gal</sup>	.42	369.60
1101	660"	3" col-seal <sup>per gal</sup>	.36	237.60
1107A	28"	1/8" phos-seal <sup>per gal</sup>	1.15	32.20
1135	110"	1/2" FL-110	7.50	825.00
1146	55"	1/4" CAF-38	7.70	423.50
1118A	300"	gal-flush	.17	51.00
1105	50"	hulls	.39	19.50
5407A	9.81	ton-mileage bulk truck	1.80	176.58
4404	1	4 1/2" top rubber plug	45.00	45.00
5605A	4 hrs	welder	85.00	340.00
4311	1	4 1/2" weld on collar	60.00	60.00
			Sub total	6403.32
			SALES TAX	241.10
			ESTIMATED TOTAL	6644.42

Revin 3737

AUTHORIZATION

*Tracy Miller*

TITLE

224848

DATE

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WICHITA, KS

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KCC 5.39

# Daily Well Work Report

MCCABE 15-5

8/15/2008

**Well Location:**  
MONTGOMERY KS  
31S-14E-5 SW SE  
503FSL / 1968FEL

**Cost Center** G01015400600  
**Lease Number** G010154ABC  
**Property Code** KSSY31S14E05SE  
**API Number** 15-125-31729

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
8/13/2008	8/15/2008	9/19/2008	9/25/2008	9/25/2008	MCCABE_15_5
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1573	1569	21	1569		

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 8/13/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> THORNTON ROTARY

## Narrative

MIRU THORNTON DRILLING, 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:\$2880

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Friday, November 21, 2008

Page 7 of 7

# GEOLOGIC REPORT

LAYNE ENERGY  
McCabe 15-5  
SW SE, 503 FSL, 1968 FEL  
Section 5-T31S-R14E  
Montgomery County, KS

Spud Date: 8/13/2008  
Drilling Completed: 8/15/2008  
Logged: 8/15/2008  
A.P.I. #: 15125317290000  
Ground Elevation: 989'  
Depth Driller: 1573'  
Depth Logger: 1570'  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1569'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

Formation	Tops	
	(below ground)	(subsea)
	Surface (Revard	
Douglas Group	Sandstone Bed)	989
Pawnee Limestone	994	-5
Excello Shale	1,115	-126
"V" Shale	1,182	-193
Mineral Coal	1,227	-238
Mississippian	1,480	-491

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WICHITA, KS

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	McCabe 15-5		
	Sec. 5 Twp. 31S Rng. 14E, Montgomery County		
<b>API:</b>	15-125-31729-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (September 2008)</b>			
4	Rowe 1424.5' - 1426.5'	2200 lbs 20/40 sand 354 bbls water 300 gals 15% HCl acid	1424.5' - 1426.5'
4	Mineral 1226' - 1228.5'	3100 lbs 20/40 sand 287 bbls water 340 gals 15% HCl acid	1226' - 1228.5'
4	Croweburg 1183' - 1185.5' Bevier 1164.5' - 1166.5'	6400 lbs 20/40 sand 385 bbls water 420 gals 15% HCl acid	1164.5' - 1185.5'
4	Mulky 1115.5' - 1119.5' Summit 1101' - 1102.5'	8800 lbs 20/40 sand 441 bbls water 500 gals 15% HCl acid	1101' - 1119.5'
4	Mulberry 991.5' - 993'	2900 lbs 20/40 sand 164 bbls water 200 gals 15% HCl acid	991.5' - 993'

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WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: McCabe Well #: 15-5  
 Sec. 5 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 checked="" type="checkbox"/> Yes <input 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>994 GL</td> <td>-5</td> </tr> <tr> <td>Excello Shale</td> <td>1115 GL</td> <td>-126</td> </tr> <tr> <td>V-Shale</td> <td>1182 GL</td> <td>-193</td> </tr> <tr> <td>Mineral Coal</td> <td>1227 GL</td> <td>-238</td> </tr> <tr> <td>Mississippian</td> <td>1480 GL</td> <td>-491</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	994 GL	-5	Excello Shale	1115 GL	-126	V-Shale	1182 GL	-193	Mineral Coal	1227 GL	-238	Mississippian	1480 GL	-491
Name	Top	Datum																	
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V-Shale	1182 GL	-193																	
Mineral Coal	1227 GL	-238																	
Mississippian	1480 GL	-491																	

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	21'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1570'	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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
	See Attached Page			Depth

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TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>1515'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CONSERVATION DIVISION WICHITA, KS
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Date of First, Resumerd Production, SWD or Enhr. <u>9/25/2008</u>	Producing Method <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 Bbbs. <u>0</u>	Gas Mcf <u>15</u>	Water Bbbs. <u>0</u>	Gas-Oil Ratio
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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 \_\_\_\_\_