

**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 Air Rotary  
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, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows: **KCC**

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. \_\_\_\_\_

4/7/2008    4/8/2008    4/29/2008  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 205-27475-00-00  
County: Wilson  
SW NE SE Sec. 34 Twp. 30 S. R. 16  East  West  
1734 feet from  S / N (circle one) Line of Section  
915 feet from  E / W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE  SE NW SW  
Lease Name: Harper Well #: 9-34

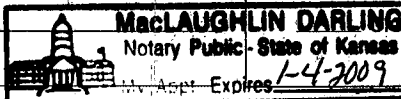
Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 878' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1091' Plug Back Total Depth: 1088'  
Amount of Surface Pipe Set and Cemented at 21 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1088  
feet depth to Surface w/ 145 sx cmt.

**Drilling Fluid Management Plan** At II NH 10-24-08  
(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  
**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**JUL 22 2008**  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Harper Well #: 9-34  
 Sec. 34 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 <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>554 GL</td> <td>325</td> </tr> <tr> <td>Excello Shale</td> <td>685 GL</td> <td>194</td> </tr> <tr> <td>V-Shale</td> <td>739 GL</td> <td>139</td> </tr> <tr> <td>Mineral Coal</td> <td>780 GL</td> <td>98</td> </tr> <tr> <td>Mississippian</td> <td>1072 GL</td> <td>-194</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	554 GL	325	Excello Shale	685 GL	194	V-Shale	739 GL	139	Mineral Coal	780 GL	98	Mississippian	1072 GL	-194
Name	Top	Datum																	
Pawnee Lime	554 GL	325																	
Excello Shale	685 GL	194																	
V-Shale	739 GL	139																	
Mineral Coal	780 GL	98																	
Mississippian	1072 GL	-194																	

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	21'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1088'	Thick Set	145	50/50 posmix w/2% gel
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ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth	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	Top Bottom KCO			

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		
		<b>RECEIVED</b>	
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		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"	1052'			
Date of First, Resumerd Production, SWD or Enhr.			Producing Method			
5/2/2008			<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	5	70			

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

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Harper 9-34		
	Sec. 34 Twp. 30S Rng. 16E, Wilson County		
<b>API:</b>	15-205-27475-00-00		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
<b>Initial Perforations (April 2008)</b>			
4	Rowe 1041' - 1042.5'	1700 lbs 20/40 sand 315 bbls water 300 gals 15% HCl acid	1041' - 1042.5'
4	Mineral 779.5' - 781'	1200 lbs 20/40 sand 256 bbls water 500 gals 15% HCl acid	779.5' - 781'
4	Croweburg 740' - 742' Iron Post 718' - 719'	4700 lbs 20/40 sand 415 bbls water 680 gals 15% HCl acid	718' - 742'
4	Mulky 685.5' - 691'	6800 lbs 20/40 sand 390 bbls water 570 gals 15% HCl acid	685.5' - 691'
4	Summit 665.5' - 667'	2600 lbs 20/40 sand 253 bbls water 400 gals 15% HCl acid	665.5' - 667'

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WICHITA, KS

**GEOLOGIC REPORT**

LAYNE ENERGY  
Harper 9-34  
NE SE, 1734 FSL, 915 FEL  
Section 34-T30S-R16E  
Wilson County, KS

Spud Date: 4/7/2008  
Drilling Completed: 4/8/2008  
Logged: 4/8/2008  
A.P.I. #: 15205274750000  
Ground Elevation: 878'  
Depth Driller: 1091'  
Depth Logger: 1091'  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1088'  
Cemented Job: 0  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

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**KCC** Formation

	<b>Tops</b>	
	<b>(below ground)</b>	<b>(subsea)</b>
Surface (Chanute Shale)		878
Kansas City Group		
Pawnee Limestone	554	325
Excello Shale	685	194
"V" Shale	739	139
Mineral Coal	780	98
Mississippian	1,072	-194

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WICHITA, KS

# Daily Well Work Report

HARPER 9-34

4/8/2008

**Well Location:**  
WILSON KS  
30S-16E-34 SW NE SE  
1734FSL / 915FEL

**Cost Center** C01023800100  
**Lease Number** C010238  
**Property Code** KSCV30S16E3409  
**API Number** 15-205-27475

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
4/7/2008	4/8/2008	4/29/2008	5/2/2008	5/1/2008	HARPER_9_34

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1091	1088	21	1088	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 4/7/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT FROM UNDER SURFACE		<b>Contractor</b> THORNTON

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Narrative

KCC  
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:\$2880

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

TICKET NUMBER 13857  
 LOCATION EUREKA  
 FOREMAN Kevin McCoy

TREATMENT REPORT & FIELD TICKET  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-9-08	4758	HARPER 7-34				Wilson
CUSTOMER Layne Energy		Gus Jones Rig 1		TRUCK #		DRIVER
MAILING ADDRESS P.O. Box 160				445		Justin
CITY Sycamore		STATE Ks		ZIP CODE		
				515		Jerrid

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1091' CASING SIZE & WEIGHT 4 1/2 10.5" New  
 CASING DEPTH 1088' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.9\* SLURRY VOL 26 BBL WATER gal/sk 6.1 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 17.5 DISPLACEMENT PSI 600  PSI 1100 Bump Plug RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. Break Circulation w/ 20 BBL Fresh water. Pump 6 sks Gel flush w/ Halls, 10 BBL water spacer, 5 BBL Dye water. Mixed MS sks 50/50 Pozmix Cement w/ 2% CaCl2, 2% Gel, 4" Kol-Seal, 3" Cal-Seal, 1/4" Flocle, 1/2% CFL-110, 1/4% CAF-38 @ 13.9\*/gal, yield 1.40. wash out Pump & Lines. Shut down. Release Plug. Displace w/ 17.5 BBL Fresh water. FINAL Pumping Pressure 600 PSI. Bump Plug to 1100 PSI. Wait. Release Pressure. Float Held. Good Cement Returns to Surface = 5 BBL Slurry (20 sks) Pit. Job Complete. Rig down.  
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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	145 SKS	50/50 Pozmix Cement	9.30	1348.50
1102	245 *	CaCl2 2%	.70 *	171.50
1118 A	245 *	Gel 2%	.16 *	39.20
1110 A	580 *	Kol-Seal 4"/sk	.40 *	232.00
1101	435 *	Cal-Seal 3"/sk	.35 *	152.25
1107	36 *	Flocle 1/4"/sk	1.98 *	71.28
1135	60 *	CFL-110 1/2 %	7.15 *	429.00
1146	30 *	CAF-38 1/4 %	7.30 *	219.00
1118 A	300 *	Gel Flush	.16 *	48.00
1105	50 *	Halls	.37 *	18.50
5407	6.09 Tons	Ton Mileage BULK TRUCK	Mic	300.00
4404	1	4 1/2 Top Rubber Plug	42.00	42.00
			Sub Total	4258.23
			SALES TAX 6.3%	174.00
			ESTIMATED TOTAL	4258.23

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THANK YOU

201174

AUTHORIZATION Called By Jacob

TITLE Layne Co. Rep.

DATE \_\_\_\_\_

4258.83