



Operator Name: Layne Energy Operating, LLC Lease Name: Harper Well #: 4-3  
 Sec. 3 Twp. 32 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 <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>528 GL</td> <td>289</td> </tr> <tr> <td>Excello Shale</td> <td>670 GL</td> <td>147</td> </tr> <tr> <td>V-Shale</td> <td>720 GL</td> <td>97</td> </tr> <tr> <td>Mineral Coal</td> <td>763 GL</td> <td>54</td> </tr> <tr> <td>Mississippian</td> <td>1077 GL</td> <td>-260</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	528 GL	289	Excello Shale	670 GL	147	V-Shale	720 GL	97	Mineral Coal	763 GL	54	Mississippian	1077 GL	-260
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<b>KCC</b> 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	1090'	Thick Set	150	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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		CONSERVATION DIVISION WICHITA, KS	

TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2-3/8"	1050'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumerd Production, SWD or Enhr.			Producing Method				
5/22/2008			<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	7	70				

Disposition of Gas  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>	Harper 4-3		
	Sec. 3 Twp. 32S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-31543-00-00		
<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 1062.5' - 1065'	2500 lbs 20/40 sand 520 bbls water 500 gals 15% HCl acid	1062.5' - 1065'
4	Rowe 1008.5' - 1010'	2700 lbs 20/40 sand 256 bbls water 300 gals 15% HCl acid	1008.5' - 1010'
4	Bluejacket 896.5' - 898'	3100 lbs 20/40 sand 582 bbls water 500 gals 15% HCl acid	896.5' - 898'
4	Mineral 763' - 764' Croweburg 721' - 724' Iron Post 698' - 699.5'	7900 lbs 20/40 sand 533 bbls water 750 gals 15% HCl acid	698' - 764'
4	Mulky 671.5' - 676'	6100 lbs 20/40 sand 325 bbls water 500 gals 15% HCl acid	671.5' - 676'

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# GEOLOGIC REPORT

LAYNE ENERGY  
Harper 4-3  
NW NW, 435 FNL, 657 FWL  
Section 3-T32S-R16E  
Montgomery County, KS

Spud Date: 4/1/2008  
Drilling Completed: 4/2/2008  
Logged: 4/2/2008  
A.P.I. #: 15125315430000  
Ground Elevation: 817'  
Depth Driller: 1093'  
Depth Logger: 1094'  
Surface Casing: 8.625 inches at 21'  
Production Casing: 4.5 inches at 1090'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

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## Formation

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Formation	Tops	
	(below ground)	(subsea)
Surface (Dewey		
Limestone)		817
Kansas City Group		
Pawnee Limestone	528	289
Excello Shale	670	147
"V" Shale	720	97
Mineral Coal	763	54
Mississippian	1,077	-260

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# Daily Well Work Report

HARPER 4-3

4/1/2008

**Well Location:**  
MONTGOMERY KS  
32S-16E-3 N2 NW NW  
435FNL / 657FWL

**Cost Center** C01035300100  
**Lease Number** C010353  
**Property Code** KSCV32S16E0304  
**API Number** 15-125-31543

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
4/1/2008	4/2/2008	5/16/2008	5/22/2008	5/22/2008	HARPER_4_3

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1093	1090	21	1090	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 4/1/2008
<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:\$2880

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



**ENTERED**

TICKET NUMBER 13831  
 LOCATION EUREKA  
 FOREMAN KEVIN MCCOY

**TREATMENT REPORT & FIELD TICKET  
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
4-2-08	4758	HARPER 4-3				MG												
CUSTOMER <b>Layne Energy</b>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>445</td> <td>Justin</td> <td></td> <td></td> </tr> <tr> <td>515</td> <td>JERRID</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	445	Justin			515	JERRID		
TRUCK #	DRIVER	TRUCK #					DRIVER											
445	Justin																	
515	JERRID																	
MAILING ADDRESS <b>P.O. Box 160</b>																		
CITY <b>Sycamore</b>	STATE <b>Ks</b>	ZIP CODE	<table border="1"> <thead> <tr> <th colspan="2">Gus Jones</th> </tr> <tr> <th colspan="2">Rig 1</th> </tr> </thead> </table>				Gus Jones		Rig 1									
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JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1093' CASING SIZE & WEIGHT 4 1/2 10.5" N80  
 CASING DEPTH 1089' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.9 # SLURRY VOL 38 BBL WATER gal/sk 6.1 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 17.3 BBL DISPLACEMENT PSI 600 ~~MARK~~ PSI 1100 Bump Plug RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. BREAK CIRCULATION w/ 25 BBL Fresh water. Pump 6 sks Gel flush w/ HULLS, 10 BBL water spacer, 5 BBL Dye water. Mixed 150 sks 50/50 Pozmix Cement w/ 2% Gel, 2% CaCl2, 4" Kol-Seal, 3" Cal-Seal, 1/4" Floccle, 1/2% FL-110, 1/4% CAF-38 @ 13.9 #/gal, yield 1.40. Wash out Pump & Lines, shut down. Release Plug. Displace w/ 17.3 BBL Fresh water. FINAL Pumping Pressure 600 psi. Bump Plug to 1100 psi. wait 2 minutes Release Pressure. Float Mod. Good Cement Returns to SURFACE = 4 BBL Slurry (16 sks) to Pit. Job Complete. Rig down.

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ACCOUNT CODE	QUANTITY OF 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	150 SKS	50/50 Pozmix Cement	9.30	1395.00
1118 A	250 *	Gel 2%	.16 *	40.00
1102	250 *	CaCl2 2%	.70 *	175.00
1110 A	600 *	Kol-Seal 4" /sk	.40 *	240.00
1101	450 *	Cal-Seal 3" /sk	.35 *	157.50
1107	38 *	Floccle 1/4" /sk	1.98 *	75.24
1135	63 *	FL-110 1/2%	7.15 *	450.45
1146	32 *	CAF-38 1/4%	7.30 *	233.60
1118 A	300 *	Gel Flush	.16 *	48.00
1105	50 *	Hulls	.37 *	18.50
5407	6.3 TONS	Ten Mileage BULK TRUCK	1416	8900.00
4404	1	4 1/2 Top Rubber Plug	42.00	42.00
			Sub Total	4100.29
THANK YOU			5.3%	SALES TAX
				ESTIMATED TOTAL
				4340.69

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AUTHORIZATION witnessed By Jacob

TITLE Layne Co. Rep.

DATE \_\_\_\_\_