

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

11/25/08

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
 Contractor: Name: McPherson Drilling
 License: 5675
 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:
 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. Pending

<u>8/20/2008</u>	<u>8/22/2008</u>	<u>9/30/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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API No. 15 - 125-31730-00-00
 County: Montgomery
S2 - S2 - S2 Sec. 31 Twp. 31 S. R. 17 East West
70 feet from N (circle one) Line of Section
2489 feet from W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Harriman SWD Well #: 16A-31
 Field Name: Cherokee Basin Coal Area
 Producing Formation: Arbuckle Disposal
 Elevation: Ground: 797' Kelly Bushing: _____
 Total Depth: 1474' Plug Back Total Depth: 1280'
 Amount of Surface Pipe Set and Cemented at 45 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from 1280
 feet depth to Surface w/ 205 ^{bx cnt.}
Drilling Fluid Management Plan
 (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.: _____

Alt 2 - Dig - 1/6/09

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: 11/25/08
 Subscribed and sworn to before me this 25 day of November,
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
 Geologist Report Received
RECEIVED
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Operator Name: Layne Energy Operating, LLC Lease Name: Harriman SWD Well #: 16A-31
 Sec. 31 Twp. 31 S. R. 17 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	450 GL 347
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	602 GL 195
List All E. Logs Run:		V-Shale	656 GL 141
Compensated Density Neutron		Mineral Coal	695 GL 102
Dual Induction		Mississippian	1010 GL -213

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	45'	Class A	50	Type 1 cement
Casing	6.75"	5.5"	10.5	1280'	Thick Set	205	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
	Open Hole Arbuckle Disposal 1280' - 1486'	200 gals 20% HCL Acid	1280' - 1486'

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TUBING RECORD		Size	Set At	Packer At	Liner Run	CONSERVATION DIVISION WICHITA, KS	
		2-3/8"		1277'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumerd Production, SWD or Enhr.			Producing Method				
Pending			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity		
	0						

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) Arbuckle Disposal

Production Interval _____

GEOLOGIC REPORT

LAYNE ENERGY
Harriman 16A-31 SWD
SW SE, 70 FSL, 2489 FEL
Section 31-T31S-R17E
Montgomery County, KS

Spud Date: 8/20/2008
Drilling Completed: 8/22/2008
Logged: 8/22/2008
A.P.I. #: 15125317300000
Ground Elevation: 797'
Depth Driller: 1474'
Depth Logger: 1480'
Surface Casing: 8.625 inches at 45'
Production Casing: 5.5 inches at 1280'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

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Formation	Tops	
	(below ground)	(subsea)
Quaternary	Surface (Alluvium)	797
Pawnee Limestone	450	347
Excello Shale	602	195
"V" Shale	656	141
Mineral Coal	695	102
Mississippian	1,010	-213

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WICHITA, KS

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Daily Well Work Report
HARRIMAN 16A-31 SWD
8/22/2008

Well Location:
MONTGOMERY KS
31S-17E-31 S2 S2 S2
70FSL / 2489FEL

Cost Center C01025200400
Lease Number C010252
Property Code KSCV31S17E3116AD
API Number 15-125-31730

Spud Date 8/20/2008 **RDMO Date** 8/22/2008 **First Compl** **First Prod** **EFM Install** 11/4/2008 **CygnnetID** HARR_16A_31SWD

TD 1474 **PBTD** 1280 **Sf Csg Depth** 45 **Pr Csg Depth** 1280 **Tbg Size** 0 **Csg Size** 0

Reported By KRD **Rig Number** **Date** 8/20/2008
Taken By KRD **Down Time**
Present Operation DRILL OUT SURFACE **Contractor** MCPHERSON

Narrative

MIRU MCPHERSON DRILLING, DRILLED 11" HOLE, 45' DEEP, RIH W/2 JTS 8 5/8" SURFACE CASING, RU CONSOLIDATED TO 8-5/8" CASING. BREAK CIRCULATION W/6.5 BBLs WATER 50 SX CLASS A CEMENT W/2% GEL, 2% CACLZ @ 15#/GAL, DISPLACE W/2 BBLs WATER. SHUT CASING IN W/ GOOD CEMENT RETURNS TO SURFACE.
DWC:\$4900

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CONSERVATION DIVISION
WICHITA, KS



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 19240
LOCATION Eureka
FOREMAN Kevin McCoy

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
8-25-08	4758	HARRIMAN 16A-31 SWD				MG
CUSTOMER			TRUCK #			
Layne Energy			DRIVER			
MAILING ADDRESS			TRUCK # <u>KC</u> DRIVER			
P.O. Box 160			445 Justin			
CITY			515 Jerrid			
STATE			NOV 25 2008			
ZIP CODE			CONFIDENTIAL			
Sycamore						
KS						

JOB TYPE Logging HOLE SIZE 7 7/8 HOLE DEPTH 1474' CASING SIZE & WEIGHT 5 1/2 15.50" New
 CASING DEPTH 1280 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14* SLURRY VOL 62 BBL WATER gal/sk 7 CEMENT LEFT in CASING 0'
 DISPLACEMENT 3.5 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting: Ran 5 1/2 casing w/ open tab hook wall packer w/ Port Collar Set @ 1280'. Ran 2 3/8 Tubing w/ opening & Closing Tool. Load 5 1/2 casing w/ fresh water. Close in annulus of 2 3/8 tubing. Open Port Collar. Break Circulation w/ 20 BBL Fresh water. Pump 6.5 gal flush, 10 BBL foam, 5 BBL dye water. Mixed 205 sks 60/40 Pozmix Cement w/ 4% GCL, 5" KOL-SEAL/sk, 2% Cactz @ 14" / gal, yield 1.48. Displace w/ 3.5 BBL fresh water. Close Port Collar. Pressure casing to 1100 psi. Tool Closed. Open Annulus of 2 3/8 tubing. Back wash w/ 10 BBL water the short way. Back wash w/ 35 BBL water the long way. Casing I D clean. Good Cement Return to Surface = 5 BBL Slurry (19 sks) To Pit. After Job was Complete Cement on Annulus of 5 1/2 went down the hole. Top of Annulus w/ 30 sks 60/40 Pozmix Cement. Annulus Standing Full of Cement. Job Complete. Rig down.

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	
1131	235 SKS	60/40 Pozmix Cement	11.35	2667.25	
1118 A	800 *	GCL 4%	.17 *	136.00	
1110 A	1175 *	KOL-SEAL 5" / SK	.42 *	493.50	
1102	400 *	Cactz 2%	.75 *	300.00	
1118 A	300 *	Gel flush	.17 *	51.00	
5407 A	10.10 Tons	40 miles Bulk TRUCK	1.20	484.80	
1143	1 GAL	Soap	38.50	38.50	
				Sub Total	5242.05
				SALES TAX	193.33
				ESTIMATED TOTAL	5435.38

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CONSERVATION DIVISION
WICHITA, KS

THANK YOU

205109

5.3%

AUTHORIZATION Witnessed By Jacob TITLE Layne Co. Rep. DATE _____

Revin 3737



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 19246

LOCATION Euads

FOREMAN Troy Stricker

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												
8-20-08	4758	Harrison 16A-31 SW0				MC												
CUSTOMER <u>Layne Energy</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>520</td> <td>Cliff</td> <td></td> <td></td> </tr> <tr> <td>479</td> <td>Dave</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	520	Cliff			479	Dave		
TRUCK #	DRIVER	TRUCK #					DRIVER											
520	Cliff																	
479	Dave																	
MAILING ADDRESS <u>P.O. Box 160</u>																		
CITY <u>Syamore</u>		STATE <u>KS</u>	ZIP CODE															

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JOB TYPE Surface HOLE SIZE 11" HOLE DEPTH _____ CASING SIZE & WEIGHT 8 5/8"
 CASING DEPTH 45' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15" SLURRY VOL 1281 WATER gal/sk 6.5 CEMENT LEFT in CASING 10'
 DISPLACEMENT 281 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting. Rig up to 8 5/8" Casing. Break Circulation. Mixed 50lbs Class A Cement w/ 2% Gel, 2% Cacl₂ @ 15" / min. Displace w/ 281 water. Shut Casing in w/ Good Cement to surface.
Job Complete

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	725.00	725.00
5406	40	MILEAGE	N/C	N/C
11045	50lbs	Class A Cement	13.50	675.00
1118A	95#	2% Gel	.17	16.15
1102	95#	2% Cacl ₂	.75	71.25
5407		Ton-mileage	n/c	315.00
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		<u>Thank You!</u>	<u>Sub total</u>	<u>1802.40</u>
			<u>5.52</u> SALES TAX	<u>40.40</u>
			ESTIMATED TOTAL	<u>1842.82</u>

Rawin 3737

004900

AUTHORIZATION witnessed by Jacob

TITLE G-ep

DATE _____