

CONFIDENTIAL

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

Form ACO-1  
September 1999  
Form Must Be Typed  
11/5/10

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: MoKat  
 License: 5831  
 Wellsite Geologist: \_\_\_\_\_  
 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>8/4/2008</u>	<u>8/13/2008</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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API No. 15 - 205-27606-00-00  
 County: Wilson  
W2 NE SE Sec. 5 Twp. 30 S. R. 16  East  West  
2119 feet from  N (circle one) Line of Section  
886 feet from  W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE  SE NW SW  
 Lease Name: Hare Well #: 9-5  
 Field Name: Cherokee Basin Coal Area  
 Producing Formation: Cherokee Coals  
 Elevation: Ground: 827' Kelly Bushing: \_\_\_\_\_  
 Total Depth: 1162' Plug Back Total Depth: 1156'  
 Amount of Surface Pipe Set and Cemented at 22 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from 1156  
 feet depth to Surface w/ 170 sx cmt.

Drilling Fluid Management Plan ATLUS 1-209  
 (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: Project Engineer Date: 11-5-08  
 Subscribed and sworn to before me this 5 day of November  
20 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  
 UIC Distribution  
 RECEIVED  
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Operator Name: Layne Energy Operating, LLC Lease Name: Hare Well #: 9-5  
 Sec. 5 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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>534 GL</td> <td>293</td> </tr> <tr> <td>Excello Shale</td> <td>670 GL</td> <td>157</td> </tr> <tr> <td>V-Shale</td> <td>741 GL</td> <td>86</td> </tr> <tr> <td>Mississippian</td> <td>1111 GL</td> <td>-284</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	534 GL	293	Excello Shale	670 GL	157	V-Shale	741 GL	86	Mississippian	1111 GL	-284
Name	Top	Datum														
Pawnee Lime	534 GL	293														
Excello Shale	670 GL	157														
V-Shale	741 GL	86														
Mississippian	1111 GL	-284														

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	22'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1156'	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

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Date of First, Resumerd Production, SWD or Enhr. <b>Pending</b>	Producing Method <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. <u>0</u> Gas Mcf _____ Water Bbbs. _____ Gas-Oil Ratio _____ Gravity _____

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

**METHOD OF COMPLETION**

Production Interval  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_  
 Other (Specify) \_\_\_\_\_

# GEOLOGIC REPORT

LAYNE ENERGY  
Hare 9-5  
NE SE, 2119 FSL, 886 FEL  
Section 5-T30S-R16E  
Wilson County, KS

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Spud Date: 8/4/2008  
Drilling Completed: 8/13/2008  
Logged: 8/13/2008  
A.P.I. #: 15205276060000  
Ground Elevation: 827'  
Depth Driller: 1162'  
Depth Logger: 1162'  
Surface Casing: 8.625 inches at 22'  
Production Casing: 4.5 inches at 1156'  
Cemented Job: Consolidated  
Open Hole Logs: Dual Induction SFL/GR, Litho Density /  
Neutron Logs

## Formation

	Tops	
	(below ground)	(subsea)
	Surface (Bonner Springs Shale)	827
Kansas City Group		
Pawnee Limestone	534	293
Excello Shale	670	157
"V" Shale	741	86
Mineral Coal		
Mississippian	1,111	-284

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# Daily Well Work Report

HARE 9-5  
8/13/2008

**Well Location:**  
WILSON KS  
30S-16E-5 W2 NE SE  
2119FSL / 886FEL

**Cost Center** C01026900100  
**Lease Number** C010269  
**Property Code** KSCV30S16E0509  
**API Number** 15-205-27606

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
8/4/2008	8/13/2008				
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1162	1156	22	1156	0	0

<b>Reported By</b> KRD	<b>Rig Number</b>	<b>Date</b> 8/4/2008
<b>Taken By</b> KRD		<b>Down Time</b>
<b>Present Operation</b> DRILL OUT SURFACE		<b>Contractor</b> MOKAT

### Narrative

MIRU MOKAT DRILLING, DRILLED 11" HOLE, 22' 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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WICHITA KS



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 19209  
LOCATION Eureka  
FOREMAN Tray Strickler

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
8-14-08	4758	Hare 9-5				Wilson
CUSTOMER <u>Layne Energy</u>			Gus Jones			
MAILING ADDRESS <u>P.O. Box 160</u>						
CITY <u>Sycamore</u>	STATE <u>Ks</u>	ZIP CODE	TRUCK # <u>520</u>	DRIVER <u>Cliff</u>	TRUCK # <u>479</u>	DRIVER <u>John</u>
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JOB TYPE longstring HOLE SIZE 6 3/4" HOLE DEPTH 1162' CASING SIZE & WEIGHT 4 1/2" x 10.5"  
CASING DEPTH 1156' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 13.9 SLURRY VOL 43 bbl WATER gal/sk 6.2 CEMENT LEFT in CASING 0'  
DISPLACEMENT 18.7 DISPLACEMENT PSI 500psi MIX PSI 1000 psi RATE \_\_\_\_\_

REMARKS: Safety Meeting. Rig up to 4 1/2" casing. Break Circulation w/ 20 bbl fresh water. Pump 6 sks Gel flush, w/hulls, 5bbl water spacer Mixed 170 sks 50/50 Poz mix cement w/ 2% caciz, 2% gel, 4# Kal Seal, 3# Cal Seal 1/8# phenoseal, 1/2# FL-110, & 1/4# Caf-38 @ 13.9 ppgal, yield 1.40. wash out pump and lines, shut down, release plug, Displace w/ 18.7 bbl fresh water. Final pump pressure 500psi, Bump plug to 1000 psi, wait 2 minutes, release pressure, float held. Good Cement returns to surface, 7 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	170 sks	50/50 Poz Mix Cement	9.75	1657.50
1102	285 #	2% Caciz	.75	213.75
1118 A	285 #	2% Gel	.17	48.45
1110 A	680 #	4# Kal Seal per/sk	.42	285.60
1101	510 #	3# Cal Seal per/sk	.36	183.60
1107 A	21 #	1/8# phenoseal per/sk	1.15	24.15
1135	70 #	1/2# FL-110	7.50	525.00
1146	35 #	1/4# Caf-38	7.70	269.50
1118 A	300 #	gel flush	.17	51.00
1105	50 #	hulls	.39	19.50
5407 A	7.14	top-mileage bulk truck	1.20	347.22
4404	1	4 1/2" Top rubber plug	45.00	45.00
5605 A	4	welder	85.00	340.00
4311	1	4 1/2" Weld on collar	60.00	60.00
			SALES TAX	213.14
			ESTIMATED TOTAL	5349.91

Ravin 3737

224120

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_