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KANSAS CORPORATION COMMISSION

Form ACO-1  
September 1999  
Form Must Be Typed

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**MAR 10 2006**

**ORIGINAL**

**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE CONSERVATION DIVISION  
WICHITA, KS

Operator: License # 33365  
Name: Layne Energy Operating, LLC  
Address: 1900 Shawnee Mission Parkway  
City/State/Zip: Mission Woods, KS 66205  
Purchaser: \_\_\_\_\_  
Operator Contact Person: M. B. Natrass  
Phone: (913) 748-3987  
Contractor: Name: MOKAT Drilling  
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>11/10/2005</u>	<u>11/12/2005</u>	<u>11/30/2005</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-308910000  
County: Montgomery  
\_\_\_\_ NE NE Sec. 28 Twp. 31 S. R. 16  East  West  
1200 feet from S / **(N)** (circle one) Line of Section  
660 feet from **(E)** W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Heckman Well #: 1-28  
Field Name: Cherokee Basin Coal  
Producing Formation: Cherokee Coals  
Elevation: Ground: 809' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1187' Plug Back Total Depth: 1183'  
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 1184'  
feet depth to Surface w/ 135 sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit) *ALT II WITH 3-10-08*  
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: MB Natrass  
Title: Agent Date: 3/9/06  
Subscribed and sworn to before me this 9th day of March  
2006  
Notary Public: Brooke C. Maxfield  
Date Commission Expires: 12/28/09

**KCC Office Use ONLY**

Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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**MAR 09 2006**  
**KCC**

**NOTARY PUBLIC - State Of Kansas**  
**BROOKE C. MAXFIELD**  
My Appl. Exp. 12/28/09

Operator Name: Layne Energy Operating, LLC Lease Name: Heckman Well #: 1-28  
 Sec. 28 Twp. 31 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;"> <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>523 GL</td> <td>286</td> </tr> <tr> <td>Excello Shale</td> <td>672 GL</td> <td>137</td> </tr> <tr> <td>V Shale</td> <td>722 GL</td> <td>87</td> </tr> <tr> <td>Mineral Coal</td> <td>762 GL</td> <td>47</td> </tr> <tr> <td>Mississippian</td> <td>1087 GL</td> <td>-278</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	523 GL	286	Excello Shale	672 GL	137	V Shale	722 GL	87	Mineral Coal	762 GL	47	Mississippian	1087 GL	-278
Name	Top	Datum																	
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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	8.65	24	21'	Class A	4	Type 1 cement
Casing	6.75	4.5	10.5	1184'	Thick Set	135	

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		

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**WICHITA, KS**

<b>TUBING RECORD</b>		Size <u>2 3/8"</u>	Set At <u>1052'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>1/13/2006</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 Bbls. <u>0</u>	Gas Mcf <u>8</u>	Water Bbls. <u>92</u>	Gas-Oil Ratio	Gravity

Disposition of Gas <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION <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)	Production Interval
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<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Heckman 1-28		
	Sec. 28 Twp. 31S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-30891		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	1008-1010.5, 874-875.5, 821-822	Rowe, Bluejacket, Tebo - 3600# 20/40 sand, 1200 gal 15% HCl acid, 105 bbls wtr	821-1010.5
4	762-763.5, 723-725, 671.5-677, 647.5-650	Mineral, Croweberg, Mulky, Summit - 8300# 20/40 sand, 3500 gal 15% HCl acid, 626 bbls wtr	647.5-763.5

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# GEOLOGIC REPORT

LAYNE ENERGY

Heckman 1-28

NE¼, NE ¼, 1,200' FNL, 660' FEL

Section 28-T31S-R16E

MONTGOMERY COUNTY, KANSAS

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CONSERVATION DIVISION  
WICHITA, KS

Drilled: November 11-14, 2005

Logged: November 15, 2005

A.P.I.# 15-125-30891

Ground Elevation: 809'

Depth Driller: 1,187'

Depth Logger: 1,186'

Surface Casing: 8 5/8" @ 21'

Production Casing: 4 1/2" @ 1,184'

Cemented Job: Consolidated

Open Hole Logs: Compensated density neutron log, dual induction sfl/gr log

**FORMATION ..... TOPS (in feet below ground surface)**

Kansas City Group ..... Surface (Noxie Sandstone)

Lenapah Lime ..... 316

Altamont Lime ..... 373

Pawnee Lime ..... 523

Anna Shale ..... 545

First Oswego Lime ..... 611

Little Osage Shale ..... 648

Excello Shale ..... 672

Mulky Coal ..... 676

Iron Post Coal ..... 699

"V" Shale ..... 722

Croweburg Coal ..... 724

Mineral Coal ..... 762

Scammon Coal ..... 796

Tebo Coal ..... 822

Bluejacket Coal ..... 874

AW Coal ..... 1,008

BW Coal ..... 1,019

Riverton Coal ..... 1,062

Mississippian ..... 1,087



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CONSOLIDATED OIL WELL SERVICES, INC.  
P.O. BOX 884, CHANUTE, KS 66720  
620-431-8210 OR 800-467-8678

MAR 10 2006

TICKET NUMBER 07873  
LOCATION EUREKA  
FOREMAN Kevin McCoy

CONSERVATION DIVISION

TREATMENT REPORT & FIELD TICKET  
MICHOTA, KS  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-16-05	4758	HECKMAN 1-28				MG
CUSTOMER Layne Energy			Gus Jones Riq 2			
MAILING ADDRESS P.O. Box 160			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY SYCAMORE			445	Frick		
STATE KS			442	Steve		
ZIP CODE			434	Ed		

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1187' CASING SIZE & WEIGHT 4 1/2 10.5 nsw  
 CASING DEPTH 1184' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 19.2" SLURRY VOL 42 bbl WATER gal/sk 8.0 CEMENT LEFT IN CASING 0'  
 DISPLACEMENT 18.8 BBL DISPLACEMENT PSI 600 MAX PSI 1000 Bump Plug RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. BREAK circulation w/ 25 bbl fresh water. Pump 4 sks Gel flush, 5 bbl water spacer, 10 bbl Metasilicate Pre flush, 12 bbl Dye water. Mixed 135 sks Thick Set Cement w/ 10" KOL-SEAL plug @ 19.2" pugals yield 1.75. wash out Pump & lines. Shut down. Release Plug. Displace w/ 18.8 BBL Fresh water. Final Pumping Pressure 600 psi. Bump Plug to 1000 psi. wait 2 minutes. Release Pressure. float Held. Good Cement Returns to Surface = 9 BBL Slurry. Job Complete. Rig down.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	765.00	765.00
5406	40	MILEAGE	3.00	120.00
1126 A	135 sks	Thick Set Cement	13.00	1755.00
1110 A	27 sks	KOL-SEAL 10" plug	16.90	456.30
1118 A	4 sks	Gel flush	6.63	26.52
1111 A	50 "	Metasilicate Pre flush	1.55 "	77.50
5407 A	7.42 hrs	40 miles Bulk Truck	1.00	296.80
4404	1	4 1/2 Top Rubber Plug	38.00	38.00
5502 C	4 hrs	80 bbl VAC TRUCK	87.00	348.00
1123	3000 gals	City water	12.20 <sup>per 1000</sup>	36.60
5605 A	4 hrs	Welder	75.00	300.00
4311	1	4 1/2 weld on collar	48.00	48.00
			Sub Total	4267.72
			SALES TAX 5.3%	129.21
			ESTIMATED TOTAL	4396.93

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AUTHORIZATION Called By John Ed

TITLE \_\_\_\_\_

MAR 09 2006

DATE \_\_\_\_\_

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