

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

9/10/09
Form ACO-1
September 1999
Form Must Be Typed

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. Brent Natrass
Phone: (913) 748-3960
Contractor: Name: Thornton Air Rotary
License: 33606

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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>5/17/2007</u>	<u>5/21/2007</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27165-00-00
County: Wilson
_____ SW NW Sec. 4 Twp. 30 S. R. 14 East West
1978 feet from S / (circle one) Line of Section
659 feet from E / (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Hulse Well #: 5-4
Field Name: Cherokee Basin Coal Area

Producing Formation: Cherokee Coals
Elevation: Ground: 896' Kelly Bushing: _____
Total Depth: 1405' Plug Back Total Depth: 1392'
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 1392
feet depth to Surface w/ 140 sx cmt.

Drilling Fluid Management Plan ATTN 2-1908
(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: MB Natrass
Title: Agent Date: 9/10/07
Subscribed and sworn to before me this 10 day of September,
20 07.
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
 UIC Distribution
RECEIVED
KANSAS CORPORATION COMMISSION
SEP 11 2007

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Hulse Well #: 5-4
 Sec. 4 Twp. 30 S. R. 14 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>898 GL</td> <td>-2</td> </tr> <tr> <td>Excello Shale</td> <td>987 GL</td> <td>-91</td> </tr> <tr> <td>V Shale</td> <td>1060 GL</td> <td>-164</td> </tr> <tr> <td>Mississippian</td> <td>1308 GL</td> <td>-412</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	898 GL	-2	Excello Shale	987 GL	-91	V Shale	1060 GL	-164	Mississippian	1308 GL	-412
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Pawnee Lime	898 GL	-2														
Excello Shale	987 GL	-91														
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Mississippian	1308 GL	-412														

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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	# Sacs Used	Type and Percent Additives
Surface	11"	8.625"	24	45'	Class A	10	Type 1 cement
Casing	6.75"	4.5"	10.5	1392'	Thick Set	140	#10 KOL seal @ sx

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
	SI-waiting on completion		

TUBING RECORD		Size	Set At	Packer At	Liner Run
					<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. SI - waiting on pipeline			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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas <input type="checkbox"/> Vented <input 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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval
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 WICHITA KS

Daily Well Work Report

HULSE 5-4
5/21/2007

Well Location:
MONTGOMERY KS
30S-14E-4 SW NW
1978FNL / 659FWL

Cost Center G01027300100
Lease Number G010273
Property Code KSSY30S14E0405
API Number 15-205-27165

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Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
5/17/2007	5/21/2007				

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1405	1392	45	1392	0	0

Reported By krd	Rig Number	Date 5/17/2007
Taken By krd		Down Time
Present Operation Drill out from under surface		Contractor McPherson Drilling

Narrative

MIRU Thorton Drilling, drilled 11" hole, 45' deep, rih w/2jt 8-5/8" surface casing. Mixed 10 sxs type 1 cement, dumped dn the back side. SDFN.
45' surf. 2 joints \$3,160

Thursday, August 23, 2007

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WICHITA, KS

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

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TICKET NUMBER 17397
 LOCATION Europa
 FOREMAN Kevin McCoy

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
5-22-07	4758	Hulse 5-4				Cherokee												
CUSTOMER Layne Energy			<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>Jared</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	445	Justin			515	Jared		
TRUCK #	DRIVER	TRUCK #					DRIVER											
445	Justin																	
515	Jared																	
MAILING ADDRESS P.O. Box 160																		
CITY Sycamore		STATE KS	ZIP CODE															

Gus
 Jones
 Rig 1

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1405' CASING SIZE & WEIGHT 4 1/2" 12.75 lb/ft
 CASING DEPTH 1392' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.2 # SLURRY VOL 44 BBL WATER gal/sk 0.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 22.1 BBL DISPLACEMENT PSI 700 BUMP PSI 1200 Bump Plug RATE _____

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Break circulation w/ 2000
Fresh water. Pump 4 sks Gel flush, 10 BBL water spacer, 10 BBL
Pre flush, 12 BBL Dye water. Mixed 140 sks Thick Set Cement
KOL-Seal per/sk @ 13.2 # per/gal, yield 1.75. Wash out Pump &
Release Plug. Displace w/ 22.1 BBL Fresh water. Final Pumping
700 psi. Bump Plug to 1200 psi. wait 2 minutes. Release Pressure
Good Cement Returns to Surface = 9 BBL Slurry. Job Complete.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	240.00	240.00
5406	0	MILEAGE 2nd well of 2	0	0
1126 A	140 SKS	THICK SET CEMENT	15.40	2156.00
1110 A	1400 #	KOL-SEAL 10 # per/sk	3.50	4900.00
1118 A	200 #	Gel Flush	.15 #	30.00
1111 A	50 #	Metasilicate Pre Flush	1.65 #	82.50
5407 A	7.7 tons	40 miles Bulk Truck	1.10	847.00
4404	1	4 1/2" Top Rubber Plug	40.00	40.00
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		THANK YOU	6.3%	SALES TAX
				ESTIMATED TOTAL

AUTHORIZATION Called By Mike Taylor TITLE Co-Rep. DATE _____

4198.26

GEOLOGIC REPORT

LAYNE ENERGY
Hulse 5-4
SW NW, 1978 FNL, 659 FWL
Section 4-T30S-R14E
Wilson County, KS

Spud Date: 5/17/2007
Drilling Completed: 5/21/2007
Logged: 5/21/2007
A.P.I. #: 15205271650000
Ground Elevation: 896'
Depth Driller: 1405'
Depth Logger: 1404'
Surface Casing: 8.625 inches at 45'
Production Casing: 4.5 inches at 1392'
Cemented Job: 0
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

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Formation	Tops	
	(below ground)	(subsea)
Douglas Group	Surface (Stranger Formation)	896
Pawnee Limestone	898	-2
Excello Shale	987	-91
"V" Shale	1,060	-164
Mineral Coal	0	896
Mississippian	1,308	-412

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