

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

4/30/10

WELL HISTORY - DESCRIPTION OF WELL & LEASE

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: Thornton Air Rotary
License: 33606
Wellsite Geologist: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Tapered
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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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. _____

1/8/2008 1/10/2008 2/14/2008
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 125-31498-00-00
County: Montgomery
 - - NW SW Sec. 25 Twp. 31 S. R. 14 East West
2159 feet from (S) / N (circle one) Line of Section
422 feet from E / (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: Ritter Well #: 12-25

Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 917' Kelly Bushing: _____
Total Depth: 1482' Plug Back Total Depth: 1471'
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 1471
feet depth to Surface w/ 200 sx cmt.

Drilling Fluid Management Plan AT IN 6-3009
(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: [Signature]
Title: Agent Date: 4/30/2008
Subscribed and sworn to before me this 30 day of April,
2008.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2009

KCC Office Use ONLY

Y Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received

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MAY 01 2008
CONSERVATION DIVISION
WICHITA, KS

MacLAUGHLIN DARLING
Notary Public - State of Kansas
My Appt. Expires 1-4-2009

Operator Name: Layne Energy Operating, LLC Lease Name: Ritter Well #: 12-25
 Sec. 25 Twp. 31 S. R. 14 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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>900 GL</td> <td>17</td> </tr> <tr> <td>Excello Shale</td> <td>1038 GL</td> <td>-121</td> </tr> <tr> <td>V-Shale</td> <td>1089 GL</td> <td>-172</td> </tr> <tr> <td>Mineral Coal</td> <td>1133 GL</td> <td>-216</td> </tr> <tr> <td>Mississippian</td> <td>1396 GL</td> <td>-479</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	900 GL	17	Excello Shale	1038 GL	-121	V-Shale	1089 GL	-172	Mineral Coal	1133 GL	-216	Mississippian	1396 GL	-479
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"	8.625"	24	21'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1471'	Thick Set	200	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>
	See Attached Page	

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>1423'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>2/22/2008</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>45</u>	Water Bbls. <u>16</u>	Gas-Oil Ratio <u> </u> Gravity <u> </u>

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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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MAY 01 2008

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Ritter 12-25		
	Sec. 25 Twp. 31S Rng. 14E, Montgomery County		
API:	15-125-31498-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (February 2008)			
4	Rowe 1349' - 1351'	2500 lbs 20/40 sand 231 bbls water 350 gals 15% HCl acid	1349' - 1351'
4	Mineral 1133' - 1134.5' Croweburg 1090' - 1092' Bevier 1069' - 1070'	9800 lbs 20/40 sand 691 bbls water 500 gals 15% HCl acid	1069' - 1134.5'
4	Mulky 1039' - 1043.5' Summit 1017.5' - 1019.5'	8800 lbs 20/40 sand 389 bbls water 800 gals 15% HCl acid	1017.5' - 1043.5'

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GEOLOGIC REPORT

LAYNE ENERGY
Ritter 12-25
NW SW, 2159 FSL, 422 FWL
Section 25-T31S-R14E
Montgomery County, KS

Spud Date: 1/8/2008
Drilling Completed: 1/10/2008
Logged: 1/10/2008
A.P.I. #: 15125314980000
Ground Elevation: 917'
Depth Driller: 1482'
Depth Logger: 1482'
Surface Casing: 8.625 inches at 21'
Production Casing: 4.5 inches at 1471'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

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Formation APR 30 2008

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	Tops	
	(below ground)	(subsea)
Surface (Stoner Limestone		
Lansing Group Member)		917
Pawnee Limestone	900	17
Excello Shale	1,038	-121
"V" Shale	1,089	-172
Mineral Coal	1,133	-216
Mississippian	1,396	-479

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WICHITA, KS

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

ENTERED

TICKET NUMBER 13431
 LOCATION EUREKA
 FOREMAN KEVIN MCCOY

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-10-08	4758	Ritter 12-25				MO
CUSTOMER Layne Energy			Gus Jones			
MAILING ADDRESS P.O. Box 160						
CITY Sycamore		STATE KS	ZIP CODE			

TRUCK #	DRIVER	TRUCK #	DRIVER
445	Justin		
479	Shannon		

JOB TYPE long string HOLE SIZE 6 3/4 HOLE DEPTH 1482' CASING SIZE & WEIGHT 4 1/2 10.5 lb/ft
 CASING DEPTH 1471' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.9* SLURRY VOL 50 BBL WATER gal/sk 6.1 CEMENT LEFT in CASING 0'
 DISPLACEMENT 23.4 BBL DISPLACEMENT PSI 600 PSI 1000 Bump Plug RATE _____

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. BREAK CIRCULATION w/ 35 BBL Fresh water. Pump 6 sks Gel Flush w/ HULLS, 10 BBL water spacer, 5 BBL Dye water. Mixed 200 sks 50/50 Pozmix Cement w/ 2% Gel, 2% CaCl2, 4* Kol-Seal, 3* CAL-Seal, 1/4* Flocc, 1/2% FL-110, 1/4% CAF-38 @ 13.9*/gal, yield 1.40. wash out Pump & Lines. Shut down. Release Plug. Displace w/ 23.4 BBL Fresh water. Final Pumping Pressure 600 PSI. Bump Plug to 1000 PSI. wait 2 mins. Release Pressure. Float Held. Good Cement Returns to Surface = 5 BBL Slurry (20 sks) to Pit. Job Complete. Rig down.

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ACCOUNT CODE	QUANTITY or 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	200 sks	50/50 Pozmix Cement	9.30	1860.00
1118 A	340 *	Gel 2%	.16 *	54.40
1102	340 *	CaCl2 2%	.70 *	238.00
1110 A	800 *	Kol-Seal 4*/sk	.40 *	320.00
1101	600 *	CAL-Seal 3*/sk	.35 *	210.00
1107	50 *	Flocc 1/4*/sk	1.98 *	99.00
1135	84 *	FL-110 Fluid Loss 1/2%	7.15 *	600.60
1146	42 *	CAF-38 Deformer 1/4%	7.30 *	306.60
1118 A	300 *	Gel Flush	.16 *	48.00
1105	50 *	Hulls	.37 *	18.50
5407 A	8.4 tons	40 miles BULK TRUCK	1.14	955.20
4404	1	4 1/2 Top Rubber Plug	42.00	42.00
			Sub Total	5195.14
			SALES TAX 5.3%	276.34
			ESTIMATED TOTAL	5471.48

Thank you
 219609

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

5394.38

Daily Well Work Report

RITTER 12-25
1/8/2008

Well Location:
MONTGOMERY KS
31S-14E-25 NW SW
2159FSL / 422FWL

Cost Center G01025600100
Lease Number G010256
Property Code KSSY31S14E2512
API Number 15-125-31498

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
1/8/2008	1/10/2008	2/14/2008	2/22/2008	2/21/2008	RITTER_12_25

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1482	1471	21	1471	0	0

Reported By KRD	Rig Number	Date 1/8/2008
Taken By KRD		Down Time
Present Operation DRILL OUT SURFACE		Contractor THORNTON ROTARY

Narrative

MIRU THORNTON ROTARY, DRILLED 11" HOLE, 21' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC: \$2,880 CWC:\$2,880

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