

CONFIDENTIAL

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

ORIGINAL 1/29/11

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: Timothy H. Wright
 Phone: (913) 748-3960
 Contractor: Name: Thornton Air Rotary
 License: 33606 **JAN 29 2009**
 Wellsite Geologist: _____
 Designate Type of Completion: **KCC**
 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. _____

10/17/2008	10/21/2008	12/16/2008
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31771-00-00
 County: Montgomery
 _____ SW _____ NW Sec. 10 Twp. 32 S. R. 14 East West
1999 feet from S / (circle one) Line of Section
582 feet from E / (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Copenhaver Well #: 5-10
 Field Name: Cherokee Basin Coal Area
 Producing Formation: Cherokee Coals
 Elevation: Ground: 887' Kelly Bushing: _____
 Total Depth: 1537' Plug Back Total Depth: 1521'
 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 1521
 feet depth to Surface w/ 150 sx cmt.

Drilling Fluid Management Plan *AH IWS 4-13-09*
 (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: Project Engineer Date: 1/21/09
 Subscribed and sworn to before me this 29 day of January
 20 09
 Notary Public: MacLaughlin Darling
 Date Commission Expires: 1-4-2013

MACLAUGHLIN DARLING
 Notary Public - State of Kansas
 My Appt. Expires 1-4-2013

KCC Office Use ONLY

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

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 WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Copenhaver Well #: 5-10
 Sec. 10 Twp. 32 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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

Compensated Density Neutron
 Dual Induction

Name	Top	Datum
Pawnee Lime	914 GL	-27
Excello Shale	1067 GL	-180
V-Shale	1113 GL	-226
Mineral Coal	1159 GL	-272
Mississippian	1434 GL	-547

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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	22'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1521'	Thick Set	150	50/50 posmix w/2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ 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 Page		

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TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	1436'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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Date of First, Resumerd Production, SWD or Enhr.	Producing Method							
1/8/2009	<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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity			
	0	10	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) _____

Production Interval _____

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Copenhaver 5-10		
	Sec. 10 Twp. 32S Rng. 14E, Montgomery County		
API:	15-125-31771-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (December 2008)			
4	Rowe 1381' - 1383'	3000 lbs 20/40 sand 236 bbls water 300 gals 15% HCl acid	1381' - 1383'
4	Mineral 1159' - 1161.5'	2400 lbs 20/40 sand 190 bbls water 100 gals 15% HCl acid	1159' - 1161.5'
4	Croweburg 1113' - 1117' Iron Post 1091.5' - 1093'	7200 lbs 20/40 sand 427 bbls water 525 gals 15% HCl acid	1091.5' - 1117'
4	Mulky 1067' - 1072'	6000 lbs 20/40 sand 299 bbls water 300 gals 15% HCl acid	1067' - 1072'
4	Summit 1042' - 1044.5'	3000 lbs 20/40 sand 203 bbls water 240 gals 15% HCl acid	1042' - 1044.5'

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GEOLOGIC REPORT

LAYNE ENERGY
Copenhaver 5-10
SW NW, 1999 FNL, 582 FWL
Section 10-T32S-R14E
Montgomery County, KS

Spud Date: 10/17/2008
Drilling Completed: 10/21/2008
Logged: 10/21/2008
A.P.I. #: 15125317710000
Ground Elevation: 887'
Depth Driller: 1537'
Depth Logger: 1534'
Surface Casing: 8.625 inches at 22'
Production Casing: 4.5 inches at 1521'
Cemented Job: 0
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

Formation	Tops	
	(below ground)	(subsea)
	Surface (South	
	Bend Limestone	
Lansing Group	Member)	887
Pawnee Limestone	914	-27
Excello Shale	1,067	-180
"V" Shale	1,113	-226
Mineral Coal	1,159	-272
Mississippian	1,434	-547

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Daily Well Work Report

COPENHAVER 5-10

10/21/2008

Well Location:
MONTGOMERY KS
32S-14E-10 SW NW
1999FNL / 582FWL

Cost Center G01013500700
Lease Number G010135
Property Code KSSY32S14E1005
API Number 15-125-31771

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
10/17/2008	10/21/2008	12/16/2008	1/8/2009	1/7/2009	COPENHVR_5_10
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1537	1521	22	1521		

Reported By KRD	Rig Number	Date 10/17/208
Taken By KRD		Down Time
Present Operation DRILL OUT SURFACE		Contractor THORNTON DRILLING

Narrative

MIRU THORNTON 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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CONSOLIDATED
ENERGY SERVICES, LLC

ENTERED

TICKET NUMBER 20268

LOCATION Enigma

FOREMAN Rex Leavelle

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												
10-22-08	4752	Copthorn 5-10				McPherson												
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>463</td> <td>Shannon</td> <td></td> <td></td> </tr> <tr> <td>515</td> <td>Jarrod</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	463	Shannon			515	Jarrod		
TRUCK #	DRIVER						TRUCK #	DRIVER										
463	Shannon																	
515	Jarrod																	
MAILING ADDRESS																		
P.O. Box 1100																		
CITY	STATE	ZIP CODE																
Sycamore	KS																	

JOB TYPE Logging HOLE SIZE 6 3/4" HOLE DEPTH 1582' CASING SIZE & WEIGHT 4 1/2" x 5"
 CASING DEPTH 1521' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4" SLURRY VOL 46 Bbl WATER gal/sk 9.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 24.2 Bbl DISPLACEMENT PSI 700 PSI 1100 RATE 4 Bbl per minute

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 100 gal fresh water. Pump 10 sacs gal-flush w/ bulls, 5 Bbl water spacer. Mixed the sacs thickest cement w/ 8" Katsol @ 13.4% yield 1.23. Washout pump + lines shut down, release plug. Displace w/ 24.2 Bbl fresh water. Final pump pressure 700 PSI. Pump plug to 1000 PSI. wait 2 minutes, release pressure, hold. Good cement returns to surface = 2 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	285.00	285.00
5406	46	MILEAGE	3.65	167.30
1126A	150 sacs	thickest cement	17.00	2550.00
1160A	1200"	8" Katsol @ 13.4%	.42	504.00
1102A	20"	1/8" phenosan @ 1/4"	1.15	23.00
1135	25"	1/2" FL-10	7.50	187.50
1146	38"	1/4" CAE-38	7.20	273.60
1118A	500"	gal-flush	.12	60.00
1105	50"	bulls	.30	15.00
5407A	8.25	ten-mileage bulk DR	3.65	30.06
4404	1	4 1/2" top rubber plug	45.00	45.00
			5.33	26.65
			SALVAGE TAX ESTIMATED	216.30
			TOTAL	5764.93

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Ravin 3737

2026811

AUTHORIZATION Witnessed by Jacob

TITLE Co. Rep.

DATE

5764.93