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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

9/26/09
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: McPherson Drilling
License: 5675

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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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>6/4/2007</u>	<u>6/6/2007</u>	<u>9/6/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31376-00-00
County: Montgomery
____ NW NE Sec. 15 Twp. 32 S. R. 14 East West
470 feet from S / (N) (circle one) Line of Section
1872 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Metcalf Well #: 2-15
Field Name: Cherokee Basin Coal Area

Producing Formation: Cherokee Coals
Elevation: Ground: 864' Kelly Bushing: _____
Total Depth: 1490' Plug Back Total Depth: 1477'
Amount of Surface Pipe Set and Cemented at 20 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1477
feet depth to Surface w/ 155 sx cmt.

Drilling Fluid Management Plan AKF NJ 2 18 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: MB Natrass
Title: Agent Date: 9/26/07
Subscribed and sworn to before me this 26 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

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

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WICHITA, KS

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Operator Name: Layne Energy Operating, LLC Lease Name: Metcalf Well #: 2-15
 Sec. 15 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pawnee Lime	889 GL	-25
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	1037 GL	-173
List All E. Logs Run:		V Shale	1082 GL	-218
Compensated Density Neutron		Mineral Coal	1129 GL	-265
Dual Induction		Mississippian	1403 GL	-539

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	20'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1477'	Thick Set	155	#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 <i>(Amount and Kind of Material Used)</i>	Depth
	See Attached Page		

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>1396'</u>	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

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

(If vented. Submit ACO-18.) *(Specify)*

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Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Metcalf 2-15		
	Sec. 15 Twp. 32S Rng. 14E, Montgomery County		
API:	15-125-31376-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations			
4	Riverton 1357.5' - 1359.5'	2300 lbs 20/40 sand 223 bbls water 150 gals 15% HCl acid	1357.5' - 1359.5'
4	Mineral 1128' - 1130' V-Shale 1083' - 1085.5' Bevier 1061' - 1062.5'	3200 lbs 20/40 sand 602 bbls water 380 gals 15% HCl acid	1061' - 1130'
4	Mulky 1037' - 1043' Summit 1012.5' - 1015'	10800 lbs 20/40 sand 709 bbls water 456 gals 15% HCl acid	1012.5' - 1043'
4	Dawson 699' - 701'	3000 lbs 20/40 sand 224 bbls water 150 gals 15% HCl acid	699' - 701'

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Daily Well Work Report

METCALF 2-15
6/6/2007

Well Location:
MONTGOMERY KS
32S-14E-15 NW NE
470FNL / 1872FEL

Cost Center G01025900100
Lease Number G010259
Property Code KSSY32S14E1502
API Number 15-125-31376

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Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
6/4/2007	6/6/2007	9/6/2007			
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1490	1477	20	1477	0	0

Reported By krd **Rig Number** **Date** 6/4/2007
Taken By krd **Down Time**
Present Operation Drill out from under surface **Contractor** McPherson

Narrative

Miru McPherson Drilling, drilled 11" hole, 20' deep, rih w/ 1 jt 8-5/8" surface casing, mxd 4 sxs type 1 cmt, dumped dn the backside, sdfn.
DWC: \$ 2,880

Tuesday, September 25, 2007

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

TICKET NUMBER 17463
 LOCATION EUREKA
 FOREMAN RICK LEDFORD

TREATMENT REPORT & FIELD TICKET
 CEMENT 15-125-31374

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-8-07	4758	METCALF 2-15				MO
CUSTOMER <u>Layne Energy</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>P.O. Box 160</u>			KCC			
CITY <u>Sycamore</u>			SEP 26 2007			
STATE <u>KS</u>			CONFIDENTIAL			
ZIP CODE						

JOB TYPE longstring HOLE SIZE 6 3/4" HOLE DEPTH 1490' CASING SIZE & WEIGHT 4 1/2"
 CASING DEPTH 1477' DRILL PIPE TUBING OTHER
 SLURRY WEIGHT 13.2* SLURRY VOL 48 Bbl WATER gal/sk 8.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 23 1/2 Bbl DISPLACEMENT PSI 700 ~~1200~~ PSI 1200' RATE

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 30 Bbl fresh water. Pump 6 sks gel-flush, 1 sk metasilicate pre-flush, 20 Bbl fresh water spacer, 13 Bbl dye water. Mixed 155 sks thickset cement w/ 10" Kol-seal 10" @ 13.2* @ 10" washout pump + lines, shut down, release plug. Displace w/ 23 1/2 Bbl fresh water. Final pump pressure 700 psig. Pump plug to 1200 psig, wait 2 mins, release pressure, float held. Good cement returns to surface = 8 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	840.00	840.00
5406	40	MILEAGE	3.30	132.00
1126A	155 sks	thickset cement	15.40	2387.00
1110A	1550 #	Kol-seal 10" @ 10"	.38	589.00
1118A	300 #	gel-flush	.15	45.00
1111A	50 #	metasilicate pre-flush	1.65	82.50
5407A	8.53	con-milage bulk trip	1.10	375.32
4404	1	4 1/2" top rubber plug	40.00	40.00
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CONSERVATION DIVISION WICHITA, KS			subtotal	4490.82
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION called by Mugga TITLE _____ DATE _____

- 365TS - 1447'

DWC - 16713

GEOLOGIC REPORT

LAYNE ENERGY
Metcalf 2-15
NW NE, 470 FNL, 1872 FEL
Section 15-T32S-R14E
Montgomery County, KS

Spud Date: 6/4/2007
Drilling Completed: 6/6/2007
Logged: 6/6/2007
A.P.I. #: 15125313760000
Ground Elevation: 864'
Depth Driller: 1490'
Depth Logger: 1485'
Surface Casing: 8.625 inches at 20'
Production Casing: 4.5 inches at 1477'
Cemented Job: 0
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

Formation	Tops	
	(below ground)	(subsea)
	Surface (Stoner Limestone Member)	864
Lansing Group	889	-25
Pawnee Limestone	1,037	-173
Excello Shale	1,082	-218
"V" Shale	1,129	-265
Mineral Coal	1,403	-539
Mississippian		

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