

ORIGINAL

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

Form ACO-1
September 1999
Form Must Be Typed

2/27/11

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 11/5/2009
License: 33606
Wellsite Geologist: _____

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>11/5/2008</u>	<u>11/6/2008</u>	<u>12/11/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27667-00-00
County: Wilson
W2 SW NE Sec. 36 Twp. 30 S. R. 16 East West
1895 feet from S / (circle one) Line of Section
2153 feet from E W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Mahaffey Well #: 7-36
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 902' Kelly Bushing: _____
Total Depth: 1211' Plug Back Total Depth: 1211'
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 1211
feet depth to Surface w/ 125 ^{sx cmt.}

Drilling Fluid Management Plan
(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.: _____

Alt 2 - Dig - 4/17/09

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: _____
Title: Project Engineer Date: 2/26/09
Subscribed and sworn to before me this 26 day of February,
20 09.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2013

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 1-4-2013

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Operator Name: Layne Energy Operating, LLC Lease Name: Mahaffey Well #: 7-36 **FEB 27 2009**

Sec. 36 Twp. 30 S. R. 16 East West County: Wilson

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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 border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Datum</th> </tr> </thead> <tbody> <tr> <td>Pawnee Lime</td> <td>588 GL</td> <td>314</td> </tr> <tr> <td>Excello Shale</td> <td>718 GL</td> <td>184</td> </tr> <tr> <td>V-Shale</td> <td>774 GL</td> <td>128</td> </tr> <tr> <td>Mineral Coal</td> <td>810 GL</td> <td>92</td> </tr> <tr> <td>Mississippian</td> <td>1115 GL</td> <td>-213</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	588 GL	314	Excello Shale	718 GL	184	V-Shale	774 GL	128	Mineral Coal	810 GL	92	Mississippian	1115 GL	-213
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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	22'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1211'	Thick Set	125	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 (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"	1137'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method		
12/26/2008		<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	0	7	0	

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<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) _____	

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Mahaffey 7-36		
	Sec. 36 Twp. 30S Rng. 16E, Wilson County		
API:	15-205-27667-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (December 2008)			
4	Riverton 1105' - 1108'	3500 lbs 20/40 sand 399 bbls water 600 gals 15% HCl acid	1105' - 1108'
4	Weir 892' - 893.5'	1500 lbs 20/40 sand 433 bbls water 520 gals 15% HCl acid	892' - 893.5'
4	Mineral 810' - 811.5'	2400 lbs 20/40 sand 166 bbls water 100 gals 15% HCl acid	810' - 811.5'
4	V-Shale 775' - 776.5'	1300 lbs 20/40 sand 366 bbls water 560 gals 15% HCl acid	775' - 776.5'
4	Mulky 719' - 724.5'	6600 lbs 20/40 sand 336 bbls water 550 gals 15% HCl acid	719' - 724.5'

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Daily Well Work Report

MAHAFFEY 7-36
11/5/2008

Well Location:
WILSON KS
30S-16E-36 W2 SW NE
1895FNL / 2153FEL

Cost Center C01034800400
Lease Number C010348
Property Code KSCV30S16E3607
API Number 15-205-27667

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnetiD
11/5/2008	11/6/2008	12/11/2008	12/26/2008	12/22/2008	MAHAFFEY_7_36

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1211	1210	22	1210	0	0

Reported By KRD	Rig Number	Date 11/5/2008
Taken By KRD		Down Time
Present Operation DRILL OUT SURFACE		Contractor THORNTON ROTARY

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
Oil Well Services, LLC

ENTERED

TICKET NUMBER 20384
LOCATION FOREVA
FOREMAN Rick Ledford

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
11-7-08	4758	MANATEE 7-36				Wilson
CUSTOMER Layne Energy			GUS Jones			
MAILING ADDRESS P.O. Box 160			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Sycamore			463	Shannon		
STATE KS			515	Jared		
ZIP CODE						

JOB TYPE logstring HOLE SIZE 6 7/8" HOLE DEPTH 1211' CASING SIZE & WEIGHT 4 1/2" 10.5"
 CASING DEPTH 1210' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4" SLURRY VOL 38 bbl WATER gal/sk 8.0 CEMENT LEFT IN CASING _____
 DISPLACEMENT 17.25 cu DISPLACEMENT PSI 500 PSI 900 RATE 4.3 GPM while displacing

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 50 bbl fresh water. Pump 10 ses gel-flush w/ bulls. 2 bbl water spacer. Mixed 125 ses thickest cement w/ 8" Kol-seal ²⁰⁰ 75, 1/2 phenoseal ²⁰⁰ 75, 1/2 70 FB-40 + 1/2 30 CAF-38 @ 13.4" PPMAL yield 1.25 washout pump & lines, shut down, release plug. Displace w/ 19.4 cu fresh water. Final pump pressure 500 PSI. Bump plug to 900 PSI wait 2 minutes, release pressure, float held. Good cement returns to surface - 7 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	925.00	925.00
5406	40	MILEAGE	3.65	146.00
KCC				
1120A	125 ses	thickest cement	17.00	2125.00
1110A	1000"	8" Kol-seal ²⁰⁰ 75	.42	420.00
1107A	15"	1/2 phenoseal ²⁰⁰ 75	1.15	17.25
1135	62"	1/2 70 FB-40	7.50	465.00
1146	31"	1/2 30 CAF-38	7.20	223.20
KANSAS CORPORATION COMMISSION				
1118A	500"	gel-flush	.17	85.00
1105	50"	bulls	.39	19.50
5407A	6.88	tan-milage bulk trk	1.20	330.24
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4404	1	4 1/2" top rubber plug	45.00	45.00
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				4816.69
				6.3%
				SALES TAX
				ESTIMATED
				TOTAL
				5031.89

Ravin 3737

201303

AUTHORIZATION Sandy McR... TITLE _____ DATE _____

GEOLOGIC REPORT

LAYNE ENERGY
Mahaffey 7-36
SW NE, 1,895 FNL, 2,153 FEL
Section 36-T30S-R16E
Wilson County, KS

Spud Date: 11/5/2008
Drilling Completed: 11/6/2008
Logged: 11/6/2008
A.P.I. #: 15205276670000
Ground Elevation: 902
Depth Driller: 1,211
Depth Logger: 1,212
Surface Casing: 8.625 inches at 22'
Production Casing: 4.5 inches at 1,210'
Cemented Job:
Open Hole Logs: High Resolution Compensated Density Sidewall
Neutron Log; Dual Induction LL3/GR Log

Formation	Tops	
	(below ground)	(subsea)
	Surface (Iola	
Kansas City Group	Limestone)	902
Pawnee Limestone	588	314
Excello Shale	718	184
"V" Shale	774	128
Mineral Coal	810	92
Mississippian	1,115	-213

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