

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

5/30/10

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 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>3/4/2008</u>	<u>3/5/2008</u>	<u>4/10/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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API No. 15 - 205-27474-00-00
 County: Montgomery
 _____ SE _____ SW _____ SE Sec. 30 Twp. 30 S. R. 17 East West
456 feet from N (circle one) Line of Section
1670 feet from W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Mahaffey Well #: 15-30
 Field Name: Cherokee Basin Coal Area
 Producing Formation: Cherokee Coals
 Elevation: Ground: 948' Kelly Bushing: _____
 Total Depth: 1112' Plug Back Total Depth: 1110'
 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 1110
 feet depth to Surface w/ 155 sx cmt.

Drilling Fluid Management Plan ATTN: 6-24-09
 (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: _____
 Title: Agent Date: 5-30-2008
 Subscribed and sworn to before me this 30 day of May
 20 08.
 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

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 WICHITA, KS

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

Operator Name: Layne Energy Operating, LLC Lease Name: Mahaffey Well #: 15-30
 Sec. 30 Twp. 30 S. R. 17 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:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>561 GL</td> <td>387</td> </tr> <tr> <td>Excello Shale</td> <td>677 GL</td> <td>271</td> </tr> <tr> <td>Mississippian</td> <td>1105 GL</td> <td>-157</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	561 GL	387	Excello Shale	677 GL	271	Mississippian	1105 GL	-157
Name	Top	Datum											
Pawnee Lime	561 GL	387											
Excello Shale	677 GL	271											
Mississippian	1105 GL	-157											

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KCC 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	21'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1110'	Thick Set	155	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"	1098'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 4/21/2008			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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	<1	15		

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION

Production Interval Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Mahaffey 15-30		
	Sec. 30 Twp. 30S Rng. 17E, Wilson County		
API:	15-205-27474-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (April 2008)			
4	Riverton 1089' - 1091.5'	2000 lbs 20/40 sand 311 bbls water 440 gals 15% HCl acid	1089' - 1091.5'
4	Rowe 1026' - 1027' Drywood 1022.5' - 1024'	4300 lbs 20/40 sand 373 bbls water 350 gals 15% HCl acid	1022.5' - 1027'
4	Mulky 678' - 683.5'	6200 lbs 20/40 sand 317 bbls water 300 gals 15% HCl acid	678' - 683.5'
4	Summit 659' - 661'	3400 lbs 20/40 sand 207 bbls water 200 gals 15% HCl acid	659' - 661'

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Daily Well Work Report

MAHAFFEY 15-30

3/5/2008

Well Location:
WILSON KS
30S-17E-30 SE SW SE
456FSL / 1670FEL

Cost Center C01034700100
Lease Number C010347
Property Code KSCV30S17E3015
API Number 15-205-27474

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
3/4/2008	3/5/2008	4/10/2008	4/21/2008	4/15/2008	MAHAFFEY_15_30
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1112	1110	21	1110	0	0

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Reported By KRD **Rig Number** **Date** 3/4/2008
Taken By KRD **Down Time**
Present Operation DRILL OUT FROM UNDER SURFACE **Contractor** THORNTON

Narrative

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 21' DEEP. RIH W/1 JOINT 8-5/8" SURFACE CASING, MIX 4 SXS TYPE 1 CEMENT, DUMP DOWN THE BACKSIDE. SDFN. DWC:\$2880

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

TICKET NUMBER **13629**
 LOCATION EUREKA
 FOREMAN RICK LEDERHO

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
3-6-08	4258	MANFREY 15-30				Wilson	
CUSTOMER <u>Layne Energy</u>		C/S TMS		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 160</u>				520	Shannon		
CITY <u>Sycamore</u>		STATE <u>KS</u>		439	John		
ZIP CODE							

JOB TYPE longstring HOLE SIZE 6 7/8" HOLE DEPTH 1112' CASING SIZE & WEIGHT 4 1/2" 10.5"
 CASING DEPTH 1110' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 138" SLURRY VOL 39 BW WATER gal/sk 6.1 CEMENT LEFT in CASING 0'
 DISPLACEMENT 17.6 bbl DISPLACEMENT PSI 400 PSI 900 RATE _____

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 25 bbl fresh water. Pump 6 sacks gel-flush w/ hulls, 20 bbl water spacer. 5 bbl dye water. Mixed 155 sacks 50/50 Peanix cement w/ 220 gal, 270 cack, 4" Kal-seal 4" #1, 3" cal-seal #1, 1/4" floacle #1, 1/2" JL-110, + 4 1/2" CAS-38 @ 1390'.
yield 1.40 washout pump + lines. shut down. release plug. Displace w/ 17.6 bbl fresh water. Final pump pressure 900 PSI. Pump plug to 700 PSI. 3 minutes. release pressure. float held. Good cement returns to surface = 7 BW slurry to pH. Job complete. Rig down.
 "THANK YOU"
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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	155 SCS	50/50 Peanix cement	9.30	1441.50
1118A	260"	220 gal	.16	41.60
1102	260"	220 cack	.70	182.00
1110A	620"	Kal-seal 4" #1	.40	248.00
1101	465"	cal-seal 3" #1	.35	162.75
1107	39"	floacle 1/4" #1	1.98	77.82
1135	65"	JL-110 1/2"	7.15	464.75
1146	32"	CAS-38 1 1/2"	7.30	233.60
1118A	300"	gel-flush	.16	48.00
1105	50"	hulls	.37	18.50
5407A	6.51	two-mileage bulk truck	1.14	286.86
4404	1	4 1/2" top rubber plug	42.00	42.00
			sub total	4262.78
			SALES TAX	186.47
			ESTIMATED TOTAL	4456.25

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AUTHORIZATION Jacos Maul

TITLE 220545

DATE _____

GEOLOGIC REPORT

LAYNE ENERGY
Mahaffey 15-30
SW SE, 456 FSL, 1670 FEL
Section 30-T30S-R17E
Wilson County, KS

Spud Date: 3/4/2008
Drilling Completed: 3/5/2008
Logged: 3/5/2008
A.P.I. #: 15205274740000
Ground Elevation: 948'
Depth Driller: 1112'
Depth Logger: 1113'
Surface Casing: 8.625 inches at 21'
Production Casing: 4.5 inches at 1110'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

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Formation	Tops	
	(below ground)	(subsea)
	Surface (Chanute	
Kansas City Group	Shale)	948
Pawnee Limestone	561	387
Excello Shale	677	271
"V" Shale		
Mineral Coal		
Mississippian	1,105	-157

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