

CONFIDENTIAL

ORIGINAL 2/23/11

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1
September 1999
Form Must Be Typed

**WELL COMPLETION FORM
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 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. _____

<u>11/7/2008</u>	<u>11/11/2008</u>	<u>12/10/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27668-00-00
 County: Wilson
 _____ SW SW Sec. 30 Twp. 30 S. R. 17 East West
740 feet from N (circle one) Line of Section
640 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 #: 13-30
 Field Name: Cherokee Basin Coal Area
 Producing Formation: Cherokee Coals
 Elevation: Ground: 931' Kelly Bushing: _____
 Total Depth: 1186' Plug Back Total Depth: 1169'
 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 1169
 feet depth to Surface w/ 125 ^{sx cmv}
Alt 2 - Dig - 4/14/09

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.: _____

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: 2/22/09
 Subscribed and sworn to before me this 22 day of February,
 2009.
 Notary Public: MacLaughlin Darlene
 Date Commission 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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 FEB 24 2009
 CONSERVATION DIVISION
 WICHITA, KS

MacLAUGHLIN DARLENE
 Notary Public - State of Kansas
 My Appt. Expires 1-4-2013

Operator Name: Layne Energy Operating, LLC Lease Name: Mahaffey Well #: 13-30
 Sec. 30 Twp. 30 S. R. 17 East West County: Wilson

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pawnee Lime	563 GL 368
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	679 GL 252
List All E. Logs Run:		Mississippian	1086 GL -155
Compensated Density Neutron Dual Induction			

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	1169'	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
___ 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 <i>(Amount and Kind of Material Used)</i>	Depth
	See Attached Page		

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TUBING RECORD	Size 2-3/8"	Set At 1121'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 12/31/2008	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. 0	Gas Mcf 10	Water Bbls. 0	Gas-Oil Ratio Gravity

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18.) Other (Specify) _____

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Mahaffey 13-30		
	Sec. 30 Twp. 30S Rng. 17E, Wilson County		
API:	15-205-27668-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (December 2008)			
4	Riverton 1082.5' - 1084'	3500 lbs 20/40 sand 422 bbls water 600 gals 15% HCl acid	1082.5' - 1084'
4	Mulky 679.5' - 684' Summit 661.5' - 663.5'	7800 lbs 20/40 sand 417 bbls water 500 gals 15% HCl acid	661.5' - 684'

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Layne Energy, Inc.

1900 Shawnee Mission Parkway, Mission Woods, Kansas 66205 Phone: (913) 748-3987 Fax: (913) 748-3950

February 23, 2009

Mr. Steve Bond
Kansas Corporation Commission
Oil & Gas Conservation Division
130 S. Market, Room 2078
Wichita, KS 67202

Re: Well Completion Form

Dear Mr. Bond:

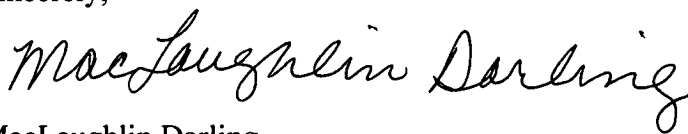
I have enclosed the ACO-1 form and associated data for the following well:

API # 15-205-27668-00-00
Mahaffey 13-30

We respectfully request that all information submitted be kept confidential. Per provision E-4 of K.A. R. 82-3-107, we request that the term of the confidentiality be extended by one year.

If you need additional information, please contact me at (913) 748-3960.

Sincerely,



MacLaughlin Darling
Engineering Technician

Enclosures

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CONSERVATION DIVISION
WICHITA, KS

GEOLOGIC REPORT

LAYNE ENERGY
Mahaffey 13-30
SW SW, 740 FSL, 640 FWL
Section 30-T30S-R17E
Wilson County, KS

Spud Date: 11/7/2008
Drilling Completed: 11/11/2008
Logged: 11/11/2008
A.P.I. #: 15205276680000
Ground Elevation: 931'
Depth Driller: 1186'
Depth Logger: 1187'
Surface Casing: 8.625 inches at 22'
Production Casing: 4.5 inches at 1169'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

Formation	Tops	
	(below ground)	(subsea)
	Surface (Chanute	
Kansas City Group	Shale)	931
Pawnee Limestone	563	368
Excello Shale	679	252
"V" Shale		
Mineral Coal		
Mississippian	1,086	-155

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Daily Well Work Report

MAHAFFEY 13-30
11/11/2008

Well Location:
WILSON KS
30S-17E-30 SW SW
740FSL / 640FWL

Cost Center C01034700200
Lease Number C010347
Property Code KSCV30S17E3013
API Number 15-205-27668

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
11/7/2008	11/11/2008	12/10/2008	12/31/2008	12/22/2008	MAHAFFEY_13_30
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1186	1169	22	1169	0	0

Reported By KRD	Rig Number	Date 11/7/2008
Taken By KRD		Down Time
Present Operation DRILL OUT SURFACE		Contractor THORNTON

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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WICHITA KS



CONSOLIDATED
Oil Well Services, LLC



ENTERED

TICKET NUMBER 20391

LOCATION EUREKA

FOREMAN Kevin McCoy

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
11-12-08	4758	MAHAFFEY 13-30				ALLISON
CUSTOMER			TRUCK #			
Layne Energy			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 160			DRIVER			
CITY			TRUCK #			
Sycamore			DRIVER			
STATE			TRUCK #			
KS			DRIVER			
ZIP CODE			TRUCK #			
			DRIVER			

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1186' CASING SIZE & WEIGHT 4 1/2 10.5" maw
 CASING DEPTH 1168' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4" SLURRY VOL 39 BBL WATER gal/sk 8" CEMENT LEFT IN CASING 0'
 DISPLACEMENT 18.6 BBL DISPLACEMENT PSI 600 PSI 1100 Bump Plug RATE

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. BREAK CIRCULATION w/ 45 BBL Fresh water. Pump 10 SKS Gel Flush w/ HULLS, 2 BBL water SPACER. MIXED 125 SKS Thick Set Cement w/ 8" Kol-Seal/sk, 1/8" PhenoSeal/sk, 1/2% CFL-110, 1/4% CAF-38 @ 13.4"/94 yield 1.75. wash out Pump & Lines. Shut down. Release Plug. Displace w/ 18.6 BBL Fresh water. FINAL Pumping Pressure 600 PSI. Bump Plug to 1100 PSI. wait 2 minutes. Release Pressure. FIGHT HOLD. Good Cement Returns to Surface = 13 BBL SLURRY to Pit. Job Complete. Rig down.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	225.00	225.00
5406	40	MILEAGE 1 st well of 2	3.65	146.00
1126 A	125 SKS	THICK Set Cement	17.00	2125.00
1110 A	1000 "	Kol-Seal 8"/SK	.42	420.00
1107 A	16 "	PhenoSeal 1/8"/SK	1.15	18.40
1135	60 "	CFL-110 1/2%	7.50	450.00
1146	30 "	CAF-38 1/4%	7.70	231.00
1118 A	500 "	Gel Flush	.17	85.00
1105	50 "	HULLS	.39	19.50
5407	5.88 Tons	Ton MIRAGE BULK TRUCK	M/G	345.00
5502 C	4 HRS	80 BBL VAC TRUCK	100.00	400.00
1123	3000 gals	City water	14.00/1000	42.00
4404	1	4 1/2 Top Rubber Plug	45.00	45.00
			Sub Total	5221.90
			SALES TAX 6.3%	216.48
			ESTIMATED TOTAL	5438.38

Ravin 3737

THANK YOU

201409

AUTHORIZATION Called by Jacob

TITLE Layne Co. Rep.

DATE _____