

CONFIDENTIAL

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

9/10/09
ORIGINAL

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: Thornton Air Rotary
License: 33606
Wellsite Geologist: _____

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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>5/14/2007</u>	<u>5/15/2007</u>	<u>8/16/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31360-00-00
County: Montgomery
SE NW NE Sec. 17 Twp. 33 S. R. 16 East West
703 feet from S / (N) (circle one) Line of Section
1530 feet from (E) W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Groth Well #: 2-17
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 781' Kelly Bushing: _____
Total Depth: 1188' Plug Back Total Depth: 1181'
Amount of Surface Pipe Set and Cemented at 23 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1181
feet depth to Surface w/ 125 sx cmt.

Drilling Fluid Management Plan AA II NS 2-1209
(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: MS Natrass
Title: Agent Date: 9/10/07
Subscribed and sworn to before me this 10 day of September,
20 07.
Notary Public: MacLaughlin Darling
Date Commission Expires: 9/4/2009

MacLAUGHLIN-DARLING
Notary Public - State of Kansas
My Appt. Expires 9/4/2009

KCC Office Use ONLY
 Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED
KANSAS CORPORATION COMMISSION
SEP 11 2007

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Groth Well #: 2-17
 Sec. 17 Twp. 33 S. R. 16 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	509 GL 273
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excello Shale	678 GL 103
List All E. Logs Run:		V Shale	727 GL 55
Compensated Density Neutron		Mineral Coal	777 GL 4
Dual Induction		Mississippian	1110 GL -329

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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	23'	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	1181'	Thick Set	125	#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>1044'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method			
<u>SI - waiting on pipeline</u>	<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 Gravity

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 _____

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MOUNTAIN VIEW, KS

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Groth 2-17		
	Sec. 17 Twp. 33S Rng. 16E, Montgomery County		
API:	15-125-31360-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations			
4	Riverton 1097' - 1099' Rowe 1038' - 1039.5'	5400 lbs 20/40 sand 390 bbls water 500 gals 15% HCl acid	1038' - 1099'
4	Weir 865' - 869' Mineral 777' - 778.5'	5700 lbs 20/40 sand 520 bbls water 530 gals 15% HCl acid	777' - 869'
4	V-Shale 731' - 733' Iron Post 704.5' - 706.5' Mulky 678' - 683.5' Summit 648' - 652'	11400 lbs 20/40 sand 813 bbls water 1350 gals 15% HCl acid	648' - 733'

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CONSERVATION DIVISION
WICHITA, KS

Daily Well Work Report

GROTH 2-17
5/15/2007

Well Location:
MONTGOMERY KS
33S-16E-17 NW NE
703FNL / 1530FEL

Cost Center G01022900100
Lease Number G010229
Property Code GLNA-0180
API Number 15-125-31360

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Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
5/14/2007	5/15/2007	8/16/2007	9/6/2007	8/28/2007	GROTH_2_17
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1188	1181	23	1181		

Reported By KRD	Rig Number	Date 5/14/2007
Taken By KRD		Down Time
Present Operation Drill out from under Surface		Contractor Thornton Rotary Drillin

Narrative

Miru Thornton Drilling, drilled 11" hole, 23' deep, rih w/ 1 jt 8-5/8" surface casing, mxd 4 sxs type 1 cmt, dumped dn the backside, sdfn.
DWC: \$ 2,880

Monday, September 10, 2007

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WICHITA
Page 7 of 7

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

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TICKET NUMBER 17339
 LOCATION EUREKA
 FOREMAN RICK LEONARD

DC

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-16-07	4758	Groth 2-17				MO
CUSTOMER LAME ENERGY			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 160			463	Kyle		
CITY Sycamore			479	SEP		
STATE KS			452/763	Jim		
ZIP CODE						

JOB TYPE longstring HOLE SIZE 6 3/4" HOLE DEPTH 1188' CASING SIZE & WEIGHT 4 1/2" 10.5"
 CASING DEPTH 1182 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.2^{lb} SLURRY VOL 39 bbl WATER gal/sk 8.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 18.8^{gal} DISPLACEMENT PSI 600 ~~800~~ PSI 1100 RATE _____

REMARKS: Safety meeting - Rig up to 4 1/2" casing. Break circulation w/ 20
Bbl fresh water. Pump 4 sacks gel-flush, 1 sk metasilicate pre-flush,
20 Bbl water spacer 9 bbl dye water. Mixed 125 sacks thickset cement
w/ 10" Kal-seal @ 13.2^{lb}/sk. Washout pump & lines, shut down, cement
plug. Displace w/ 18.8^{gal} fresh water. Final pump pressure 600 PSI.
Bump plug to 1100 PSI. wait 2 mins. release pressure, float held. 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	840.00	840.00
5406	40	MILEAGE	3.30	132.00
1126A	125 sacks	thickset cement	15.48	1935.00
1110A	1250 ^{gal}	Kal-seal 10 ^{gal} /sk	.38	475.00
1118A	200 ^{gal}	gel-flush	.15	30.00
1111A	50 ^{gal}	metasilicate pre-flush	1.65	82.50
5407A	6.8 ^{mi}	ten-mileage bulk truck	1.10	300.80
5501C	4 hrs	water transport	100.00	400.00
1123	5000 gals	city water	12.00	60.00
4404	1	4 1/2" top rubber plug	40.00	40.00

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 SALES TAX ESTIMATED
 TOTAL
 CONSERVATION DIVISION
 WICPATEKS

213497

AUTHORIZATION _____

TITLE _____

4429.90

GEOLOGIC REPORT

LAYNE ENERGY
Groth 2-17
NW NE, 703 FNL, 1530 FEL
Section 17-T33S-R16E
Montgomery County, KS

Spud Date: 5/14/2007
Drilling Completed: 5/15/2007
Logged: 5/15/2007
A.P.I. #: 15125313600000
Ground Elevation: 781'
Depth Driller: 1188'
Depth Logger: 1187'
Surface Casing: 8.625 inches at 23'
Production Casing: 4.5 inches at '
Cemented Job: 0
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

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Formation	Tops	
	(below ground)	(subsea)
	Surface (Noxie	
Kansas City Group	Sandstone)	781
Pawnee Limestone	509	273
Excello Shale	678	103
"V" Shale	727	55
Mineral Coal	777	4
Mississippian	1,110	-329

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