

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

6/26/10

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. _____

3/11/2008 3/13/2008 5/2/2008
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 019-26885-00-00
County: Chautauqua
_____ - SW - SE Sec. 16 Twp. 32 S. R. 13 East West
684 feet from (S) N (circle one) Line of Section
1953 feet from (E) W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Gwartney Well #: 15-16
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 923' Kelly Bushing: _____
Total Depth: 1612' Plug Back Total Depth: 1600'
Amount of Surface Pipe Set and Cemented at 42 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1600
feet depth to Surface w/ 225 sx cmt.

Drilling Fluid Management Plan AFIN 7-1409
(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.: _____

CONFIDENTIAL
JUN 26 2008
KCC

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: [Signature]
Title: Agent Date: 6-26-08
Subscribed and sworn to before me this 26 day of June,
2008.
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
RECEIVED
KANSAS CORPORATION COMMISSION
JUN 27 2008
CONSERVATION DIVISION
WICHITA, KS

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

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Gwartney 15-16		
	Sec. 16 Twp. 32S Rng. 13E, Chautauqua County		
API:	15-019-26885-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (May 2008)			
4	Mineral 1330.5' - 1331.5' Croweburg 1285' - 1289' Iron Post 1266.5' - 1267.5'	8300 lbs 20/40 sand 512 bbls water 500 gals 15% HCl acid	1266.5' - 1331.5'
4	Mulky 1233' - 1237' Summit 1210.5' - 1212'	7500 lbs 20/40 sand 406 bbls water 500 gals 15% HCl acid	1210.5' - 1237'

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 27 2008

CONSERVATION DIVISION
WICHITA, KS

Daily Well Work Report

GWARTNEY 15-16

3/11/2008

Well Location:
CHAUTAUQUA KS
32S-13E-16 SW SE
684FSL / 1953FEL

Cost Center G01027000100
Lease Number G010270
Property Code KSLE32S13E1615
API Number 15-019-26885

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
3/11/2008	3/13/2008	5/1/2008	5/8/2008	5/8/2008	GWARTNEY_15_16

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1612	1600	42	1600	0	0

Reported By KRD	Rig Number	Date 3/11/2008
Taken By KRD		Down Time
Present Operation DRILL OUT SURFACE		Contractor THORNTON DRILLING

Narrative

MIRU THORNTON, DRILLED 11" HOLE, 42' DEEP, RIH W/ 2 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC:\$3160

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 27 2008

CONSERVATION DIVISION
WICHITA, KS

GEOLOGIC REPORT

LAYNE ENERGY
Gwartney 15-16
SW SE, 684 FSL, 1953 FEL
Section 16-T32S-R13E
Chautauqua County, KS

Spud Date: 3/11/2008
Drilling Completed: 3/13/2008
Logged: 6/13/2008
A.P.I. #: 15019268850000
Ground Elevation: 923'
Depth Driller: 1612'
Depth Logger: 1612'
Surface Casing: 8.625 inches at 42'
Production Casing: 4.5 inches at 1600'
Cemented Job: Consolidated
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

Formation	Tops	
	(below ground)	(subsea)
	Surface (Stranger Formation)	923
Douglas Group		
Pawnee Limestone	1,099	-176
Excello Shale	1,232	-309
"V" Shale	1,286	-363
Mineral Coal	1,331	-408
Mississippian		

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 27 2008

CONSERVATION DIVISION
WICHITA, KS

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

TICKET NUMBER 13617
 LOCATION EUREKA
 FOREMAN Kevin McCoy

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY			
3-13-08	4758	Gwartney 15-16	16	325	13E	CO			
CUSTOMER <u>Layne Energy</u>			Gus Jones Rig 1						
MAILING ADDRESS <u>P.O. Box 160</u>									
CITY <u>Sycamore</u>		STATE <u>Ks</u>	ZIP CODE						
		TRUCK #		DRIVER		TRUCK #		DRIVER	
		445		Justin					
		502		John G.					

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1612' CASING SIZE & WEIGHT 4 1/2 10.5" New
 CASING DEPTH 1599' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.9* SLURRY VOL 56 Bbl WATER gal/sk 6.1 CEMENT LEFT in CASING 0'
 DISPLACEMENT 25.6 Bbl DISPLACEMENT PSI 800 PSI 1300 Bump Plug RATE 4.5 BPM

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. Break Circulation w/ 35 Bbl Fresh water. Pump 6 sks Gel Flush w/ Halls, 15 Bbl water spacer, 5 Bbl Dye water. Mixed 225 sks 50/50 Pozmix Cement w/ 2% Gel, 2% Calc2, 4" Kel-Seal, 3" Cal-Seal, 1/4" Flocele, 1/2% FL-110, 1/4% CAF-38 @ 13.9*/gal, yield 1.4%. Wash out Pump & Lines. Shut down. Release Plug. Displace w/ 25.6 Bbl Fresh water. Final Pumping Pressure 800 psi. Bump Plug to 1300 psi. wait 2 minutes. Release Pressure. Float Held. Good Cement Returns to Surface = 12 Bbl Slurry (48 sks) to Pit. Job Complete. Rig down.

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
5609	2	Misc. Pump Kill well	170.00	340.00
1124	225 sks	50/50 Pozmix Cement	9.50	2137.50
1118 A	380 *	Gel 2%	.16 *	60.80
1102	380 *	Calc2 2%	.70 *	266.00
1110 A	900 *	Kel-Seal 4" /sk	.40 *	360.00
1101	675 *	Cal-Seal 3" /sk	.35 *	236.25
1107	55 *	Flocele 1/4" /sk	1.98 *	108.90
1135	94 *	FL-110 1/2%	7.15 *	672.10
1146	47 *	CAF-38 1/4%	7.30 *	343.10
1118 A	300 *	Gel Flush	.16 *	48.00
1105	50 *	Halls	.37 *	18.50
RECEIVED KANSAS CORPORATION COMMISSION				
5407 A	9.45 tons	40 miles Bulk Truck	1.14	420.92
4404	1	4 1/2 Top Rubber Plug	42.00	42.00
CONSERVATION DIVISION WICHITA, KS				
			Sub Total	6032.07
			SALES TAX	267.64
			ESTIMATED TOTAL	6299.71

AUTHORIZATION Kevin McCoy

THANK YOU
 220619

TITLE _____ DATE _____