

Kansas Corporation Commission Oil & Gas Conservation Division

1054539

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #_	33365		API No. 15			
Name: Layne Energy Operating, LLC			Spot Description:			
Address 1: 1900 SHAW			E2 SW SE Sec. 35 Twp. 31 S. R. 14 F East Wes			
Address 2:						
		p: 66205 ₊ 2001				
Contact Person: Victor I	I. Dyal	<u> </u>	Footages Calculated from Nearest Outside Section Corner:			
Phone: (913) 748	3955		□NE □NW ☑SE □SW			
CONTRACTOR: License			County: Montgomery			
Name: Thornton Air R			Lease Name: FITZPATRICK Well #: 15-35			
			Field Name:			
Purchaser:			Producing Formation: Cherokee Coals			
Designate Type of Comple			Elevation: Ground: 916 Kelly Bushing: 0			
	_	Workover	Total Depth: 1488 Plug Back Total Depth: 1480			
☐ Oil ☐ Ws		□ slow	Amount of Surface Pipe Set and Cemented at: 20 Feet			
Gas D&	=	☐ siGw	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No			
☐ 0G	∩ GSW	Temp. Abd.	If yes, show depth set:Feet			
✓ CM (Coal Bed Meth	ane)		If Alternate II completion, cement circulated from: 1480			
Cathodic Ott	ner (Core, Expl., etc.):		feet depth to: 0 w/ 155 sx cmt			
If Workover/Re-entry: Old	Well Info as follows:		SX OIR			
Operator:						
Well Name:			Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)			
Original Comp. Date:	Original To	otal Depth:	Chloride content: 0 ppm Fluid volume: 0 bbls			
		ENHR Conv. to SWD	1			
	Conv. to	GSW	Dewatering method used: Evaporated			
Plug Back:	Plu	g Back Total Depth	Location of fluid disposal if hauled offsite:			
Commingled	Permit #:		Operator Name:			
Dual Completion	Permit #:	· · · · · · · · · · · · · · · · · · ·	Lease Name: License #:			
☐ SWD	Permit #:					
ENHR	Permit #:		Quarter Sec TwpS. R East Wes			
☐ GSW	Permit #:		County: Permit #:			
12/10/2010	12/14/2010	4/6/2011				
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date				

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
✓ Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I I III Approved by: Dearwa Garmson Date: Q4/25/2011

Side Two

1054539

FITZPATRICK _ _{Well #:} __<u>15-</u>35 Operator Name: Layne Energy Operating, LLC Lease Name: 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 complete copy of all Electric Wireline Logs surveyed. Attach final geological well site report. Log Formation (Top), Depth and Datum Sample **Drill Stem Tests Taken** ☐ Yes **V** No (Attach Additional Sheets) Name Top Datum ☐ Yes ✓ No Samples Sent to Geological Survey See attached Yes No Cores Taken ✓ Yes \[
□ No Electric Log Run **Electric Log Submitted Electronically** ✓ Yes No (If no, Submit Copy) List All E. Logs Run: Compensated Density Neutron Dual Induction **CASING RECORD** ✓ New Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Type and Percent Size Casing Weight Setting # Sacks Type of Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Depth Cement Used Additives 24 Surface 11 8.625 20 Type 1 Production 6.75 4.5 10.5 1480 Thickset 155 ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth # Sacks Used Type and Percent Additives Type of Cement Top Bottom Perforate Protect Casing . Plug Back TD . Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth See attached TUBING RECORD: Size: Set At: Packer At: Liner Run: Yes ₩ No 2.375 1406 Date of First, Resumed Production, SWD or ENHR. Producing Method: 4/8/2011 Flowing Pumping Gas Lift Other (Explain) **Estimated Production** Oil Bbis. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Per 24 Hours 10 **DISPOSITION OF GAS:** METHOD OF COMPLETION: PRODUCTION INTERVAL: Open Hole ✓ Perf. Dually Comp. Commingled 1061 - 1372 Vented ✓ Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)

Well Report

FITZPATRICK 15-35

API Number: Project Area:

SYCAMORE

KS Montgomery 31S - 14E - 35

330FSL - 2300FEL

AFE Number: G01071400100

AFE Amount: \$0.00

Activity Date	Activity Description
12/10/2010	MIRU THORNTON DRILLING, DRILLED 11" HOLE, 20' DEEP, RIH W/1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
12/13/2010	TIH W/6-3/4" HAMMER BIT AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1211', PULLED BACK TO 900' SHUT DOWN FOR NIGHT.
12/14/2010	RESUME DRILLING FROM 1212 TO 1488 TD TESTING ZONES OF INTREST RD DRILL RIG MI OSAGE WIRE LINE PULL LOGS FROM LOGGER DEPTH TO SURFACE RD MOL.
12/15/2010	MI PU, RIH w/ 38 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 35 BBLS FRESH WTR PUMP 10 SKS GEL FLUSH W/HULLS, 5 BBLS WATER SPACER, 20 BBLS CAUSTIC PRE-FLUSH, 14 BBLS DYE WTR. MIXED 155 SKS THKSET CMT W/8#KOL-SEAL,1/8# PHENOSEAL PER SK.,1/2% CFL-110, 1/4% CAF-38 @ 13.4#/GAL YIELD 1.75. WASHED OUT PUMP AND LINES SHUTDOWN, RELEASE PLUG, DISPLACE W/23.5 BBLS FRESH WTR. FINAL PUMPING PRESSURE 700 PSI, BUMP PLUG TO 1100 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 48 BBLS SLURRY, 8 BBLS TO PIT. RD MOL.
	38 JTS 4-1/2 PBTD 1479.9 TD1488
3/18/2011	MOL & RU Osage Wirelline. Run GR-Ccl-Vcl Cement Bond log from 1468' to Surface. Bond looks good all depths. RDMOL Osage Wireline.
	Well SI waiting for completion.

Thursday, April 21, 2011 Page 1 of 3

Air Drilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	12/10/2010
Date Completed	12/14/2010

Vell No. 15-35	Operator Layme Energy Operating	Lease Fitzpatrick	A.P.I# 125-32019-00-00	County Montgomery	State Kansas
- 4-	T				
1/4	1/4	1/4	Sec.	Twp.	Rge.

Driller	Type/Well	Cement Used	Casir	ng Used	 Depth	Sing of the
Billy	Gas	4	20'	8 5/8	1488	Size of Hole 6 3/4

Formation Record

2.2					
0-2	DIRT	962	GAS TEST - NO GAS	1285-1286	COAL
2-58	LIME	1006-1031	LIME (OSWEGO)	1286-1335	
58-62	SHALE	1031-1039	BLK SHALE (SUMMIT)		BLK SHALE / COAL
62-140	LIME (DAMP)	1037	GAS TEST - NO GAS	1336-1369	
140-351	SHALE	1039-1058		1338	
351-373	SAND	1058-1064	BLACK SHALE	1369-1370	GAS TEST - SAME
373-374	COAL	1062	GAS TEST - NO GAS	1370-1420	
374-418	SANDY SHALE	1064-1065	COAL (MULKEY)	1388	
418-423	LIME (WET)	1065-1075	LIME	1420-1421	GAS TEST - SAME
423-426	SHALE	1075-1091	SHALE		COAL
426-446	LIME	1091-1092	COAL	1421-1425	
446-472	SHALE	1092-1107	SHALE	1425-1429	MISS. CHATT (MISS.)
472-526	LIME	1107-1108	LIME	1429-1436	
526-617	SANDY SHALE	1108-1109	COAL (CROWBERG)	1436-1458	MISS. CHATT
617-630	LIME	1109-1158	SHALE	1438	GAS TEST - SAME
630-671	SANDY SHALE	1112		1458-1488	GRAY LIME
671-676	LIME	1158-1159	GAS TEST - NO GAS	1463	GAS TEST - SAME
676-724	SHALE	1159-1177	COAL (MINERAL)	1488	TO
724-746	LIME	1177-1178			
746-771	SHALE	1178-1181	COAL SHALE	_	
771-783	LIME	1181-1188			
783-795	SHALE		SAND / OIL ODOR		
795-799	LIME		SANDY SHALE		
799-860	SHALE		WHITE SAND		i
837	WENT TO WATER		SANDY SHALE		
860-906	SANDY SHALE	1228-1229	COAL		
906-907			SANDY SHALE		
907-932			SHALE		
932-937	UME (PAWNEE)		COAL		
937-1006	BLK SHALE (LEXINGTON)		SHALE		
221-1000	SANDY SHALE	1263	GAS TEST-10#,1/4",MCF-30.8		





TIC...et NUMBER 30046

LOCATION FURNA NS

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	
12-15-10	4228	Francice 15-35		35	3/	116	MG	
CUSTOMER	Layre Fr	1		Safry	7011014			
MAILING ADDRE	ESS			בוי שושת	TRUCK#	DRIVER	TRUCK#	DRIVER
	0 - 4	4.		Cd ap	520	Cliff	<u> </u>	
CITY	P.O. Box	160		lay at	575	Allen B.		
CITY		STATE ZIF	CODE					
رککر	Carrole	KS		!				
JOB TYPE_lang	string 9G	HOLE SIZE 6	4"	HOLE DEPTH	1482'	CASING SIZE & V	VEIGHT 4%	
CASING DEPTH		DRILL PIPE		TURING			OTHER	
SLURRY WEIGH	т <u>/3,4 ^ф </u>	SLURRY VOL 48	<u>(1)</u>	WATER pale	k 8.0	CEMENT LEFT In		
DISPLACEMENT	23,5 AU	DISPLACEMENT PS	700	FER PSI JIO	•	RATE		
REMARKS: 5	ath mat.	29 - Rig up	4 4	" cesio	B. Break	Cicaletia	1 90 00	
	Later Cun	0 /0 585 a	ヒレーダルコト	/_b.d.	le 20 ALI	فروا والجاورون		
	AYR NOTE.	(1) intd 155	384 1	th icused	1000ml . 1	90 Walnut 1	un' Martin I a	
12 20 x	2-14 + 1/1 70	AF-38 @ 13	14/201	a saa kaad		· · · · · · · · · · · · · · · · · · ·	A THE PARTY	M / UR
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ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	925.00	925.00
5406	40	MILEAGE	365	146.00
1126A	155 ses	thicket compt	17.00	2635.00
11101	1240 =	8th Kal-seel /sk	. 42	520.80
11074	20*	Yz#ahmazer /sk	1.15	23.00
1135	72"	12 % CF-110	7.50	585.00
1146	39 *	4% CAT-38	7.70	300. 30
11186	-500*	ael-flush	.20	100.00
1105	50*	hulls	.39	19.50
1103	160 **	Caustic soda	1.45	145.00
SYTIA	8.53	ton mileage built trik	1.20	409.44
4404		44" top rube plug	45.00	45.00
			Sul total	585404
3737		638188	SALES TAX ESTIMATED	275.5 6
	Jugs rule	TITLE POM FOR	TOTAL	6129.60

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.