CONFIDENTIAL

RECEIVED ORIGINAL

JUL 2 8 2010

ANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

KCC WICHITA Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #33365	API No. 15 - 125-31945-00-00
Name: Layne Energy Operating, LLC	Spot Description:
Address 1: 1900 Shawnee Mission Parkway	N2_SESec20Twp31SR17V EastWest
	1,261 Feet from North / South Line of Section
Address 2:	822 Feet from ✓ East / West Line of Section
	Peet nom V Last / West Line of Section
Phone: (913) 748-3960	Footages Calculated from Nearest Outside Section Corner:
Contact Person: Victor H. Dyal Phone: (913) 748-3960 CONTRACTOR: License # 33606 CONFIDENTIAL	□ NE □ NW ☑ SE □ SW County: Montgomery
CONTRACTOR: License # 33606 Name: Thornton Air Rotary, LLC	County: Wontgomery Lease Name: Pierce Well #: 16-20
C\	Field Name: Cherokee Basin Coal Area
· · · · · · · · · · · · · · · · · · ·	
Purchaser:	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 818' Kelly Bushing: N/A
✓ New Well Re-Entry Workover	Total Depth: 1062' Plug Back Total Depth: 1047'
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: 21 Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: N/A Feet
✓ CM (Coal Bed Methane)	If Alternate II completion, cement circulated from: 1047
Cathodic Other (Core, Expl., etc.):	feet depth to: Surface w/ 115 sx cmt.
If Workover/Re-entry: Old Well Info as follows:	,
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: N/A ppm Fluid volume: N/A bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD ☐ Conv. to GSW	Dewatering method used: N/A - Air Drilled
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name: N/A
Dual Completion Permit #:	Lease Name: N/A License #: N/A
SWD Permit #:	Quarter N/A Sec. N/A Twp. N/A S. R. N/A East West
ENHR Permit #:	County: N/A Permit #: N/A
GSW Permit #:	County.
4/15/2010 4/20/2010 Pending Spud Date or Date Reached TD Completion Date or	
Recompletion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, workover or c of side two of this form will be held confidential for a period of 12 months if rec	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information quested in writing and submitted with the form (see rule 82-3-107 for confidenell report shall be attached with this form. ALL CEMENTING TICKETS MUST rule with all temporarily abandoned wells.
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and	is A Letter of Confidentiality Decayord
lations promulgated to regulate the oil and gas industry have been fully complied and the statements herein are complete and correct to the best of my knowled	7/26/10 - 7/26/10
2 A 2.1	Confidential Release Date:
Signature: All Hill Molecul	. Wireline Log Received

Date: 7/26/2010

Side Two

CONFIDENTIAL

Operator Name: Layne Energy Operating, LLC			Lease Name: Pierce Well #: 16-20 JUL					F 50 50	
Sec. 20 Twp.31	s. R. <u>17</u>	✓ East West	County:	Monto	gomery				KCC
time tool open and clos	sed, flowing and shu s if gas to surface to	nd base of formations pe at-in pressures, whether est, along with final chart I well site report.	shut-in pressu	ure reac	hed static leve	l, hydrostatic pres	sures, bottom	hole tempe	erature, fluid
Drill Stem Tests Taken (Attach Additional SI	heets)	☐ Yes ☑ No		√Lo	g Formatio	on (Top), Depth a	nd Datum	s	ample
Samples Sent to Geolo	ogical Survey	✓ Yes		Name See Dr	e iller's Log		Top RE(CEIVE	atum)
Cores Taken Electric Log Run Electric Log Submitted	Electronically	☐ Yes ☑ No ☐ Yes ☑ No ☑ Yes ☐ No			-			2 8 20	
Electric Log Submitted (If no, Submit Copy)	•	✓ Yes No					KCC I	WICHI	TA
List All E. Logs Run: Compensated D Dual Induction	ensity Neutror	• 1	·						
		CASING Report all strings set	G RECORD	Ne	hannel .	tion etc			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weigh Lbs. / F	ht	Setting Depth	Type of Cement	# Sacks Used		ind Percent Iditives
Surface	11"	8.625"	24		21'	Class A	8	Type 1	Cement
Producton	6.75"	4.5"	10.5		1047'	Thick Set	115		
		ADDITIONA	L CEMENTING	G/SQU	EEZE RECORE)			
Purpose: ——Perforate ——Protect Casing ——Plug Back TD ——Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks U	Used		Type and	Percent Additives	S	
Shots Per Foot		ION RECORD - Bridge Plu Footage of Each Interval Pe				acture, Shot, Ceme Amount and Kind of M		ord	Depth
		,							
TUBING RECORD:	Size:	Set At:	Packer At:	:	Liner Run:	Yes V	o		•
Date of First, Resumed F Pending Completion	·	NHR. Producing Me	ethod:	ı []	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf	Wate	2 F	Bbls.	Gas-Oil Ratio		Gravity
DISPOSITIO	N OF GAS:	Open Hole	METHOD OF (Dually	Comp. Co	ommingled	PRODUCT	ION INTER\	/AL.:
(If vented, Subr	mit ACO-18.)	Other (Specify)		(Submit A	100-5) (Su	ibmit ACO-4)			

Air Drilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 JUL 2 8 2010 Caney, KS 67333 KCC WICHITA

Date Started	4-14-2010
Date Completed	4-20-2010

Well No.	Operator	Lease	A.P.I #	County	State
16-20	Layne Energy Operating	Pierce	15-125-31945	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			20	31	176

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean	Gas		19 7 85/8	1062	63/4

Formation Record

		ruillat	ion record		
0-3	DIRT	540-545	BLK SHALE (SUMMIT)	793-799	SHALE
3-29	LIME	545-564	LIME	799-800	COAL
29-44	SHALE	561	GAS TEST - SAME	800-886	SHALE
44-45	COAL	564-570	BLK SHALE (EXCELLO)	886-888	COAL
45-76	SAND	570-571	COAL (MULKEY)	888-961	SHALE
76-114	LIME (WET)	571-578	LIME	912	GAS TEST-5#,1/4,MCF-20.7
111	WENT TO WATER	578-598	SHALE	961-962	COAL
114-128	SHALE	586	GAS TEST - SAME	962-970	SHALE
128-148	LIME	598-599	COAL	962	GAS TEST - SAME
148-158	SHALE .	599-617	SHALE	970-1000	MISS CHAT/CHIRT
158-169	LIME	617-619	LIME	987	GAS TEST - SAME
169-230	SHALE	619-621	SHALE	1000-1062	BROWN LIME
230-251	LIME	621-622	COAL	1062	TD
251-271	LMY SHALE	622-626	SHALE		
271-283	LIME	626-643	SAND		
283-294	SHALE	636	GAS TEST - SAME		
294-304	LIME	643-662	SHALE		MATATIAL
304-310	SHALE	662-663	COAL		CONFIDENTIAL
310-366	SAND	663-667	SHALE		JUL 2 6 2010
366-376	SANDY SHALE	667-681	SANDY SHALE		
376-420	SHALE	681-682	COAL		KCC
420-441	LIME (PAWNEE)	682-685	SHALE		
436	GAS TEST- NO GAS	685-713	SAND		
441-446	LMY SHALE	686	GAS TEST - SAME		
446-451	BLACK SHALE	713-739	SHALE		
451-456	SHALE	739-740	COAL		- 1
456-503	SAND (SUGHT ODOR-476)	740-779	SAND (OIL ODOR-774)		
461	GAS TEST-2#, 1/4,MCF-12.7	779-780	COAL		
503-535	LIME (OSWEGO)	780-793	SANDY SHALE		
535-540	SHALE	787	GAS TEST-3#,1/4,MCF-15.7		

Daily Well Work Report

PIERCE 16-20 4/15/2010

Well Location: MONTGOMERY KS 31S-17E-20 N2 SE 1261FSL / 822FEL

Cost Center Lease Number Property Code API Number

C01021600500 C010216 COLT-0126 15-125-31945

Spud Date

RDMO Date

First Compl

First Prod

EFM Install

CygnetID

4/15/2010

4/20/2010

TD **PBTD** Sf Csg Depth Pr Csg Depth

Tbg Size

Csg Size

1062

1047

21

1047

Reported By JM

Rig Number

Date

4/15/2010

Taken By

KD **Present Operation** SET SURFACE

Down Time Contractor

THORNTON

Narrative

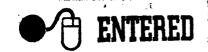
MIRU Thornton, drilled 11" hole 21' deep, RIH W/1 joint 8-5/8" surface casing. Mixed 8 sx type 1 cement, dumped down the backside. SDFN.

> RECEIVED JUL 2 8 2010 KCC WICHITA

CONFIDENTIAL JUL 26 2010 **KCC**



AUTHORIZTION witnessed by Jacob



TIET NUMBER	24320
LOCATION	ıreka
FOREMAN TION	Strictle

DATE_

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WELL	NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
	4758	Peirce	16-20					MG
CUSTOMER								
L	ayne Ene	794] [TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	ESS				520	Cliff		
Ρο. (Box 160] [815	Chris		
CITY	· -	STATE	ZIP CODE		437	Vim		
Sycam	ore.	Ks						
JOB TYPE	ongetry	HOLE SIZE	634	HOLE DEPTH	1062'	CASING SIZE & V	WEIGHT 41/2	**
	1047'	DRILL PIPE					OTHER	
						CEMENT LEFT in	CASING_O'	
DISPLACEMENT	16.66	DISPLACEMENT	r PSI <i>500</i>	MIX PSI/00	Darppy	RATE		
REMARKS:	Safety Ma	ettra! Ric	up to 4	1/2 Casio	a Break	Circulation	w/ 20Bb	1 Water
						Caustic		
7851 Du	e water.	Mixed	11274	Thickse	t Cemen	+ 4/84	ISK Kol	- Seel.
1/2 Pher	nosecl,	122 CFL-1	10, + 1/4	Z. CAF-	38 0 13	.24/gd. h	resh act	Duma + 1
Release	Plus.	Disoloce	-1 16.60	ELI WEK	r. Final	Rumping	Pressure	SOOPIT.
Bumo F	hug to 11	DO PSI.	wait.	2mm	Release		. Float h	
A		to surface						
_						Job Complet	£	

ACCOUNT CODE	QUANITY or UNITS	PUMP CHARGE CONFIDENCE OF PRODUCT TALL	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE MILEAGE PUMP CHARGE MILEAGE MILEAGE	900.00	900.00
5406	40	MILEAGE "IN IN I	255	142.00
	`	, VCC		·
1126A	1122ki	Thick Set Cement	1650	1897.50
IIIOA	920 *	8# Kol-Seal Pulpe	-40	368.00
HOTA	· .15#	1/1 Phenosen/ Pople	1.12	16.80
1/35	22. _#	12 CFL-110 RECEIVED	7.26	399.30
1146	28 [#]	14.7 /15.10	7.50	210.00
		JUL 2 8 2010		
1118A	500#	Gel-Fluil KCC WICHITA	.17	85.00
1105	SO M	770.[1]	. 38	19.00
=1107	100 #	Courtic soda	1.40	140.00
22050	4hre	80861 Vac Tack	96 0 /hr.	384.00
54074	6.32 Ton	Tonnikor	1.20	303.36
4404	<u> </u>	45. Top Robber Phy	44.00	44.00
	· · · · · · · · · · · · · · · · · · ·		Sub Total	4908.96
lavin 3737			SALES TAX	169.50
	est and 1 To	933816	ESTIMATED TOTAL	5011.48