CONFIDENTIAL

Kansas Corporation Commission Oil & Gas Conservation Division

ORIGINAL

Form ACO-1 June 2009 m Must Be Typed

Form Must Be Typed Form must be Signed All blanks must be Filled

11/2/12

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33365	API No. 15 - 205-27857-00-00
Name: Layne Energy Operating, LLC	Spot Description:
Address 1: 1900 Shawnee Mission Parkway	NE_SE_SW_SE_ Sec. 34 Twp. 30 S. R. 14 ▼ East West
Address 2:	
City: Mission Woods State: KS Zip: 66205 + 20	
Contact Person: Victor H. Dyal	Footages Calculated from Nearest Outside Section Corner:
042 740,2000 KIJU	_
` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	NE NW SE SW
CONTRACTOR: License # 33606 NOV U L	County: Wilson 15 L-34
Name: Thornton Air Rotary, LLC CONFIDE	Lease Name: Metzger Well #: 15J-34
Wellsite Geologist:	Field Name: Officioned Basin Coar Area
Purchaser:	Producing Formation: Cattleman Sands
Designate Type of Completion:	Elevation: Ground: 914' Kelly Bushing: N/A
New Well Re-Entry Workover	Total Depth: 1262' Plug Back Total Depth: 1257'
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: 42 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: 1257
Cathodic Other (Core, Expl., etc.):	feet depth to: Surface w/ 135 sx cmt.
If Workover/Re-entry: Old Well Info as follows:	SA OIII.
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR CONV.	Chloride content: N/A ppm Fluid volume: N/A bbls
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 #:	
SWD Permit #:	Quarter N/A Sec. N/A Twp. N/A S. R. N/A East West
ENHR Permit #:	
GSW Permit #:	County: N/A Permit #: N/A RECEIVED
7/23/2010	NOV 0 3 2010
Spud Date or Date Reached TD Completion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, wor of side two of this form will be held confidential for a period of 12 mo	filed with the Kansas Corporation Commission, 130 S. Market - Room 2020 WINDCHIT, kover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on this if requested in writing and submitted with the form (see rule 82-3-107 for confidence) to logist well report shall be attached with this form. ALL CEMENTING TICKETS MUST CP-111 form with all temporarily abandoned wells.
AFFIDAVIT I am the affiant and I hereby certify that all requirements of the statutes, lations promulgated to regulate the oil and gas industry have been fully and the statements herein are complete and correct to the best of my	complied with Date: 11/2/10 - 11/2/10
11:5 11/1 1	☐ Confidential Release Date: ☐ Wireline Log Received ☐
Signature: Allo Allo	Geologist Report Received
Title: Manager of Engineering Date: 11/2/2010	UIC Distribution
	ALT I VII III Approved by: Date:

Side Two

Operator Name: Lay	ne Energy Oper	ating, LLC	Lease N	lame: _	Metzger		Well #:15	5J-34	
Sec. <u>34</u> Twp. <u>30</u>	s. R. <u>14</u>	. ✓ East West	County						
time tool open and clo	sed, flowing and sh es if gas to surface t	nd base of formations pe ut-in pressures, whether est, along with final chart at well site report.	shut-in press	sure rea	ched static level	l, hydrostatic pre	ssures, bottom	hole temp	perature, fluid
Drill Stem Tests Taken (Attach Additional S		Yes No		V L	.og Formatio	on (Top), Depth a	and Datum		Sample
Samples Sent to Geol	ogical Survey	Yes No		Nam See D	ne Driller's Log		Тор		Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy	•	Yes No Yes No Yes No						KCC	
List All E. Logs Run: Compensated Dual Induction	ensity Neutro	1						IFIDE	
•		CASING Report all strings set	G RECORD		ew Used	tion. etc.		****	
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weig Lbs./	ht	Setting Depth	Type of Cement	# Sacks Used		and Percent Additives
Surface	11"	8.625"	24		42'	Class A	16	Type '	1 Cement
Producton	6.75"	4.5"	10.5		1257'	Thick Set	135		
		ADDITIONA	L CEMENTIN	IG / SQI	JEEZE RECORD			-	
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks	Used		Type and	Percent Additives	5	
Shots Per Foot	Specify	ON RECORD - Bridge Plu Footage of Each Interval Pe				acture, Shot, Cemei mount and Kind of M		rd	Depth
	See Attached Pa	ge							
			···					RECEI	VED
							N	OV 0 :	2010
TUBING RECORD:	Size: -3/8"	Set At: 1205'	Packer At:		Liner Run:	Yes 🗸 No		C Wi	CHITA
Date of First, Resumed F 8/20/2010	Production, SWD or EN	IHR. Producing Met	hod:		Gas Lift (Other (Explain)			
Estimated Production Per 24 Hours	Oil 1	Bbls. Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	AM BARNY AND L. S.	Gravity
DISPOSITIO	Used on Lease		METHOD OF €		Comp. Cor	mmingled C	PRODUCTION Sar		

Layne Energy Operating, LLC #33365



METZGER 15J-34 NE SE SW SE 34 - 30S - 14E WILSON COUNTY, KANSAS 15-205-27857-00-00

Stage #

Perforation Record

Acid, Fracture, Shot, Cement Squeeze Record

Stage 1 8/19/2010

Cattleman Sand 1168' - 1184'

10000 Sand (12/20) Brown 355 Water (bbis)

7000 Sand (20/40) (lbs)

400 HCI (15%) (gal)

KCC NOV 0 2 2010 CONFIDENTIAL

> RECEIVED NOV 0 3 2010 KCC WICHITA

Air Drilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	7/23/2010
Date Completed	7/27/2010

Well No.	Operator	Lease A.P.I #		County	State	
	Layne Energy Operating	Metzger	205-27857-00-00	Wilson	Kansas	
1/4	1/4	1/4	Sec.	Twp.	Rge.	

ſ	Driller	Type/Well	Cement Used	Casing Used		Depth	Size of Hole
1	Sean	Oil	 2019 8 11 11 11 11 11 11 11 11 11 11 11 11 1	41' 85/8	- iy	1262	63/A

Formation Record

0-1	DIRT .	937	GAS TEST -SAME		
1-14	CLAY	950-961	SANDY SHALE		
14-75	LIME	961-985	LIME (OSWEGO)		
75-188	SHALE	985-988	SHALE		
188-191	LIME	988-995	BLK SHALE (SUMMIT)		
191-295	LMY SHALE	995-1004	LIME		
295-381	SAND	1004-1009	BLK SHALE (EXCELLO)		
386	WENT TO WATER	1009-1010	COAL (MULKY)		
381-416	SANDY SHALE	1010-1015	LIME		
416-440	LMY SHALE	1012	GAS TEST-6#, 1/4",MCF-22.9		
440-533	LIME	1015-1024	SAND		КСС
461	GAS TEST-3 1/2#,1/4",MCF-17.1	1024-1056	SANDY SHALE		1
533-544	SHALE	1056-1057	COAL (BEVEIR)		NOV 0 2 2010
544-557	LIME	1057-1073	SHALE		CONFIDENTIAL
557-581	SAND	1073-1075	LIME		COMIDENT
581-606	LIME	1075-1078	SHALE		
606-612	SHALE	1078-1079	COAL (CROWBERG)		
612-645	LIME	1079-1088	SAND	<u></u>	
645-702	SHALE	1087	GAS TEST -SAME		
702-726	LIME	1088-1166	SANDY SHALE		
726-741	SHALE	1166-1192	SAND		
741-755	LIME	1167-1189	CORED		
755-766	SHALE	1192-1195	SANDY SHALE		
766-779	SAND	1195-1196	COAL		
769	ODOR	1196-1225	SANDY SHALE		
779-880	SANDY SHALE	1225-1262	SHALE		DECE
880-906	LIME (PAWNEE)	1262	TD		RECEIVED
906-913	BLK SHALE (LEXINGTON)				NOV 8 3 2010 KCC WICHITA
913-930	SHALE				3 2010
930-950	SAND				KCC MICH

Daily Well Work Report

METZGER 15J-34 7/23/2010

Well Location:

WILSON KS

TD

30S-14E-34 NE SE SW SE

650FSL / 1627FEL

Cost Center Lease Number

G01027400700 G010274

Property Code API Number

KSSY30S14E3415J

CygnetID

15-205-27857

Spud Date RDMO Date First Compl First Prod **EFM Install**

Sf Csg Depth Pr Csg Depth

7/23/2010

7/27/2010

8/20/2010

8/20/2010

Csg Size

1262 1257

PBTD

42

1257

Tbg Size 0

0

Reported By KRD

Rig Number

Date

7/23/2010

Taken By KRD

Down Time

Present Operation Set Surface

Contractor

Thornton Rotary

Narrative

MIRU THORNTON DRILLED 11"HOLE 42' DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 16 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN

> **KCC** NOV 02 2010 CONFIDENTIAL

RECEIVED NOV 03 2010 KCC WICHITA





THET NUMBER_	28992
LOCATION Eur	eka
FOREMAN Tous	Stretle

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

AUTHORIZTION

FIELD TICKET & TREATMENT REPORT

CEMENT WELL NAME & NUMBER SECTION TOWNSHIP RANGE COUNTY CUSTOMER# DATE 15J-34 ui lon 7-28-10 Metzger CUSTOMER TRUCK# CORIVER TRUCK# DRIVER LAYNE Cliff <u>520</u> 479 ROX 160 ZIP CODE CONFIDENTIAL STATE 452/163 Sycamore 10.54 JOB TYPE_ L/S 634 1262' **CASING SIZE & WEIGHT** 0 HOLE SIZE HOLE DEPTH CASING DEPTH_/257 **DRILL PIPE TUBING OTHER** SLURRY WEIGHT_13.2 # CEMENT LEFT in CASING_ O ' **SLURRY VOL** 42051 WATER gal/sk DISPLACEMENT PSI 600 MIX PSI 1100 8-10 P4 RATE mater Coment w 13 Take Thick. mixed flug. Relasc Displace Pum + lines. LOO PSI 1100

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES	S or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	"	92500	92500
5406	40	MILEAGE		3.65	146.00
1126 A	#1.7£[Thick Set Coment		17.00	2295.00
1110A	1080 *	8" Kol-Soul Polsk		.42	453.60
ACOIL	17 #	1/8# Phenoseal		1.15	19.55
1135	68#	12 CA-110		7.50	510.00
1146	34 ^M	147 CAF-38		7.70	261.80
			RECEIVED		
1118.4	5004	Gel-Fluch	VECEIVED	.20	100.00
1105	20 4	Healir	NOV 0 3 2010	. 39	19.50
1103	J00 *	Caurtic Socia		1.45	145.00
1123	3009+1	City water	KCC WICHITA	14.90 //00	44.10
SYOTA	7.43/Tun	Ton-mileye		1.70	356.64
4404	1	4% Top Rubber Play		45.00	45.00
	\$ Des				_
5501C	4hrc	Water Transput		118.00	<u> 4418.00</u>
	-	*		565 744	57 69.19
			6.5%	SALES TAX	245.35
avin 3737		235562	,	ESTIMATED TOTAL	6015.H

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