

#### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

# PRIGINA

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

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## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33365	API No. 15 - 205-27820-00-00
Name: Layne Energy Operating, LLC	Spot Description:
Address 1: 1900 Shawnee Mission Parkway	SW_NW_SE_SE_Sec. 34 Twp. 30 S. R. 14 [ East ] West
Address 2:	926 Feet from North / South Line of Section
City: Mission Woods State: KS Zip: 66	
Contact Person: Victor H. Dyal	Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3960	CC
Pnone: ()	o 9 20%
CONTRACTOR: License # 33606 SEP	0 8 2010 County: Wilson
Name: Thornton Air Rotary, LLC	Lease Name: Metzger Well #: 16E-34  Field Name: Cherokee Basin Coal Area
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Elevation: Ground: 920' Kelly Bushing: N/A
New Well Re-Entry V	forkover Total Depth: 1287' Plug Back Total Depth: 1280'
 ∏ Oil	SIOW Amount of Surface Pipe Set and Cemented at: 40 Feet
Gas D&A SNHR	☐ SIGW Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
Ø os ☐ ssw	Temp. Abd. If yes, show depth set: N/A Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from: 1280
Cathodic Other (Core, Expl., etc.):	feet depth to: Surface w/ 116 sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	
Well Name:	Drilling Fluid Management Plan
Original Comp. Date: Original Total D	Lath.
<del>-</del>	ppmFluid volume: bols
☐ Deepening ☐ Re-perf. ☐ Conv. to ENH	Dewatering method used: N/A - Air Drilled
Plug Back: Plug Bac	
	Operation Name.
SWD Permit #:	Lease Name: Name: License #: Name: License #: Name: Na
ENHR Permit #:	Quarter N/A Sec. N/A Twp. N/A S. R. N/A East West
	County: N/A Permit #: N/A RECEIV
	24/2010
Spud Date or Date Reached TD Cor	24/2010  Appletion Date or completion Date  SEP 1 0 2
Kansas 67202, within 120 days of the spud date, record side two of this form will be held confidential for a partiality in excess of 12 months). One copy of all wireli	form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Widdle mpletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information eriod of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidence logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST wells. Submit CP-111 form with all temporarily abandoned wells.
AFFIDAVIT  I am the affiant and I hereby certify that all requirements of lations promulgated to regulate the oil and gas industry and the statements herein are complete and correct to	have been fully complied with the best of my knowledge.    V. Letter of Confidentiality Received
	Lateration I am Pro-tions
Signature: With Hall	✓ Wireline Log Received  ☐ Geologist Report Received

#### Side Two

Operator Name: Lay	ne Energy Oper	ating, LL	<u>C</u>	Lease	Name: _	Metzger	<del></del>	Well #:16	E-34	
Sec. 34 Twp.30	s. R. <u>14</u>	✓ East	West	Count	y: Wilso	on	·			
INSTRUCTIONS: Shot time tool open and clor recovery, and flow rate line Logs surveyed. At	sed, flowing and shi es if gas to surface t	ut-in pressu est, along v	ures, whether s vith final chart(	hut-in pre	ssure rea	ched static leve	l, hydrostatic pre	ssures, bottom	hole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S		Y«	es 📝 No		<b>⊘</b> L	og Formati	on (Top), Depth	and Datum		Sample
Samples Sent to Geole	ogical Survey	<b></b>	es No		Nam	-		Тор	I	Datum
Cores Taken Electric Log Run			Yes ✓ No ✓ Yes ✓ No ✓ Yes ✓ No		See Driller's Log  KCC  SEP 08 2000					
List All E. Logs Run: Compensated D Dual Induction	ensity Neutror	1					CONFIDE	VTAL.		
	· · · · · · · · · · · · · · · · · · ·	······	CASING	RECORD		w Used	- <del> </del>		<u>.                                    </u>	
·	Oire Mate	7		· · · · · · · · · · · · · · · · · · ·		ermediate, produc	- <del></del>			
Purpose of String	Size Hote Drilled		te Casing t (In O.D.)		eight /Ft.	Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
Surface	11"	8.625*		24	<del></del>	40'	Class A	116	Type 1	Cement
Producton	6.75*	4.5*		10.5		1280'	Thick Set	135		
·····			ADDITIONAL	CEMENT	INC / SOI	JEEZE BECORI			1	
Purpose:  Perforate Protect Casing Plug Back TD	Perforate Top Bottom Protect Casing					ks Used Type and Percent Additives				
Plug Off Zone										
Shots Per Foot			RD - Bridge Plug Each Interval Per				racture, Shot, Ceme Amount and Kind of		erd	Depth
	See Attached Pa	ge							<del>-</del>	
					<del></del>					<b></b>
								RE(	EIVE	)
			11111111111111111111111111111111111111			<u> </u>		SEP	1 0 20	10
TUBING RECORD: 2	Size: -3/8"	Set At: 1227'		Packer	At:	Liner Run:	Yes 7	· KCC \	NICH	TA
Date of First, Resumed 6/25/2010	Production, SWD or El	NHR.	Producing Met	hod;	ing	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil <1	Bbls.	Gas <1	Mcf	Wat	er	Bbls	Gas-Oil Ratio		Gravity
DISPOSITIO				METHOD O	_			PRODUCT	ION INTER	VAL:
Vented Sold (If vented, Sub	_		Open Hole [	Perf.	Duali (Submit		ommingled ibmit ACO-4) "			

### Layne Energy Operating, LLC #33365



METZGER 16E-34 SW NW SE SE 34 - 30S - 14E WILSON COUNTY, KANSAS 15-205-27820-00-00

Stage #

Perforation Record

Acid, Fracture, Shot, Cement Squeeze Record

Stage 1 6/23/2010

Cattleman Sand 1177' - 1190'

10000 Sand (12/20) Brown 275 Water (bbls) 300 HCl (15%) (gal) 3000 Sand (20/40) (lbs)

> KCC Sep of 2011 Confidencial

> > RECEIVED
> > SEP 1 0 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	5/27/2010
Date Completed	6/1/2010



Well No.	Operator	Lease	A.P.I.#( )	<b>△ County</b>	State	
16E-34	Layne Energy Operating	Metzger	15-205-27820	Wilson	Kansas	
		<del></del>				
1/4	1/4	1/4	Sec.	Twp.	Rge.	
			34	30	14E	
Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole	
Sean	Oil	8	40' 85/8	1287	6 3/4	

### **Formation Record**

0-2	DIRT	786-814	SANDY SHALE	_	1121-1122	COAL
2-10	CLAY	814-820	SAND		1122-1169	SHALE
10-73	LIME	820-876	SANDY SHALE		1136	GAS TEST - SAME
73-170	SHALE	876-877	COAL (MULBERRY)		1169-1198	SAND
170-175	LIME	877-879	SHALE		1198-1200	COAL, LT ODOR@1199
175-184	LMY SHALE	879-906	LIME (PAWNEE)		1200-1207	SHALE
184-288	SHALE	886	GAS TEST-1#,1/4,MCF-8.95		1207-1213	SAND
288-292	LIME	906-909	SHALE		1213-1234	SANDY SHALE
292-301	SANDY SHALE	909-912	LIME		1234-1287	SHALE
301-417	SAND (WET)	912-918	BLK SHALE (LEXINGTON)		1287	TD
360	WENT TO WATER	918-926	SHALE			
417-424	SANDY SHALE	926-965	SANDY SHALE			
424-427	LMY SHALE	936	GAS TEST - SAME			
427-432	LIME	965-988	LIME (OSWEGO)			
432-442	SHALE	988-998	BLK SHALE (SUMMIT)			
442-459	LIME	998-1008	LIME			
459-466	SHALE	1008-1012	BLK SHALE (EXCELLO)			
466-476	LMY SHALE	1011	GAS TEST - SAME			
476-538	LIME	1012-1017	LIME	Г		
538-548	BLACK SHALE	1017-1028	SANDY SHALE			
548-560	LIME	1028-1059	SHALE	Г		
560-580	SAND	1059-1061	COAL (BEVEIR)			
580-607	LIME	1061-1076	SHALE			
607-614	SHALE	1061	GAS TEST-2#,1/4,MCF-12.7			
614-647	LIME	1076-1078	LIME (VERDIGRIS)			
647-707	SHALE	1078-1080	SHALE			
707-724	LIME	1080-1081	COAL (CROWBERG)			
724-750	SANDY SHALE	1081-1094	SHALE			RECEIV
750-768	LIME	1086	GAS TEST - SAME			
768-786	SAND	1094-1121	SANDY SHALE		1	SEP 1-0

### Daily Well Work Report \$ 37 14 800

**METZGER 16E-34** 5/27/2010

CONFIDENTAL

Well Location:

WILSON KS

30S-14E-34 SW NW SE SE

926FSL / 1205FEL

**Cost Center** 

**API Number** 

**Lease Number** 

**Property Code** 

G01027400300

G010274

KSSY30S14E3416E 15-205-27820

First Compl **First Prod Spud Date RDMO Date** 

5/27/2010 6/2/2010 TD **PBTD** Sf Csg Depth Pr Csg Depth

6/24/2010

6/25/2010

**EFM Install** 

Csq Size

CygnetID

1287 1280 40

1280

Tbg Size 0

0

Reported By JM

**Rig Number** 

Date

5/27/2010

Taken By KRD

**Present Operation** SET SURFACE

**Down Time** Contractor

THORNTON ROTARY

#### **Narrative**

MIRU THORNTON DRILLED 11' HOLE 40 DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 116 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN

> RECEIVED SEP 1 0 2010 KCC WICHITA





TICKET NUMBER	28782
LOCATION	Eureka
FOREMAN I	ray Strickle

ESTIMATED TOTAL

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

Ravin 3737

**AUTHORIZTION** 

# FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WELL NAME & NUMBER			SECTION	TOWNSHIP	RANGE	COUNTY
6-2-10	4168	Metzge	~ 16E-3	4				MIM
CUSTOMER		-		XCC	TRUCK#	DDB/CD	7011014	
Layne MAILING ADDRE	ss Forgy					DRIVER	TRUCK#	DRIVER
_					<u>S</u> 20	Cliff	<u> </u>	<del> </del>
CITY	Rox 160	STATE	ZIP CODE (3)	MEIDEM	11/9/4	Rick	<del> </del>	
						<del></del>	ļ	
Syramo	r <del>c</del>	K:	1 74.2		1201	<u> </u>		<u> </u>
JOB TYPE	مالناك	HOLE SIZE				CASING SIZE & W		· any
CASING DEPTH		DRILL PIPE		UBING			CASING O'	
SLURRY WEIGH						CEMENT LEFT In	CASING	<u>_</u>
DISPLACEMENT	20.2344	DISPLACEMEN'	TPSI <u>660</u> M	IX PSI	ON THE PLAN	RATE		<del></del>
REMARKS: Sq.	tety liveer	<del>ži) Kič r</del>	42 42	<del>_Carog</del> .	Kreek (	malatin	m/ 25 m	neto
Hump 104	sk Gel - t	Mr in	Hulle !	5061 4	vater space	-, PON	Carste 1	
Hre-Fluck	<u>, 10 w / </u>	Uyr ma	e. Mike	<u> 4 13</u>	Siky Thi	ck fet C	enert .	m/ Her
•						C 13.24	<i>-</i>	shout
Anno +	-lines. R	elrast P	ra public	cc v	1 20.2586	1 water	Fire! A	
Acrone	<u>တော့ ၉</u>	St. Bup	Ply to	1100	PSF upi	+ Zans.		Prassive
Float	Held C	al Cer	nent to	Surf	LEC = 786	1 Slong of	<u> </u>	
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<u> </u>				_		10°C	<u> </u>	
40001117			<del>r`</del>				<u> </u>	1
ACCOUNT CODE	QUANITY	or UNITS	DESC	RIPTION of	SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
5401	3		PUMP CHARGE				900.00	ရတထ
5406	40		MILEAGE				3.55	142.00
						· -		
11264	13261	Cr	Thick Se	t Con	nau f		1650	2227.50
11104	10801		Kol-Sal	8- /Jk		<del> </del>	. 40	432.∞
11074	17#	<del> </del>	Prevared			·, ·	1.12	19.04
1135	₽8#		CFL-110	1/2 7			7.26	493.68
	34 H		I	1/47		<del></del>		
1146	34.		<u> CAF-78</u>	<u> </u>			7.50	207.00
<del></del>	– – – – – – – – – – – – – – – – –	-	<b>A</b> :	_				<u> </u>
1118A	500	) धर जर्म	Gel- Flu	18 -			.17	85.00
1105	3		Halls				• 38	19.00
1103	100		Caustic.	Soda		-AFNIER	1.40	.140.00
		_		<del></del>		RECEIVED		
SYOTA	7.	43	Ton - W	1. Fear	· · · · · · · · · · · · · · · · · · ·	40 20	10 1.20	356.64
4404			4K . Top	RIL	- Phy	SEF	५५,००	44.00
				-		SEP 1 0 20 KCC WICH	ATI	<u> </u>
						KCC Mic.		
							4 1 1	T KIIZ ON

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.

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