# CONFIDENTIAL Kansas Corporation Commission Oil & Gas Conservation Division

ORIGINAL 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** 

ر مرابيدانا

OPERATOR: License #_	33365		API No. 15 - 205-27858-00-00
	gy Operating, LLC		Spot Description:
Address 1: 1900 Shawn			NESW SW SE Sec. 34 Twp. 30 S. R. 14 FEast West
			678 Feet from North / South Line of Section
Address 2:		66205 . 2001	2,292 Feet from Feet from East / West Line of Section
		.(p:+	Peet Holli Vest Line of Section
Contact Person: Victor   913 748			Footages Calculated from Nearest Outside Section Corner:
Phone: ( 913 ) 748		KCC	□ NE □ NW ☑ SE □ SW
CONTRACTOR: License	#_33000	NOV 1 5 2010	County: Wilson  Metzger  Metzger  Metzger  Metzger
Name: Thornton Air R	otary, LLC	CONFIDENTIAL	Lease Name: vveil #;
Wellsite Geologist:		CONLINGIAL	Field Name: Cherokee Basin Coal Area
Purchaser:			Producing Formation: Cattleman Sands
Designate Type of Comple	etion:		Elevation: Ground: 914' Kelly Bushing: N/A
✓ New Well	Re-Entry	Workover	Total Depth: 1236' Plug Back Total Depth: 1223'
Oil WS	sw 🗌 swd	SIOW	Amount of Surface Pipe Set and Cemented at: 42 Feet
Gas D&	A ENHR	sigw	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
<b></b> og	GSW	Temp. Abd.	If yes, show depth set: N/A Feet
CM (Coal Bed Metha	ane)		If Alternate II completion, cement circulated from: 1223
Cathodic Dtt	her (Core, Expl., etc.):		feet depth to: Surface w/ 135 sx cmt.
If Workover/Re-entry: Old	Well Info as follows:		
Operator:			Deillie - Fleid Management Diese
Well Name:			Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date:	Original T	Total Depth:	Chloride content: N/A ppm Fluid volume: N/A bbls
Deepening	Re-perf. Conv. to	ENHR Conv. to SWD	
	Conv. te	o GSW	Dewatering method used: N/A Air Drilled
Plug Back:	Plu	ug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled	Permit #:		Operator Name: N/A
Dual Completion			Lease Name: N/A License #: N/A
SWD			Quarter N/A Sec. N/A Twp. N/A S. R. N/A East West
☐ ENHR		<del> </del>	County: N/A Permit #: N/A
GSW		0/0/0040	County,
	8/24/2010 Date Reached TD	9/9/2010 Completion Date or	
Recompletion Date	Sale redefied 12	Recompletion Date	
Kansas 67202, within 12 of side two of this form w tiality in excess of 12 mo	20 days of the spud dat will be held confidential onths). One copy of all	e, recompletion, workover or c for a period of 12 months if red wireline logs and geologist wo	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 with all temporarily abandoned wells.
lations promulgated to regi	ulate the oil and gas inc	ments of the statutes, rules and dustry have been fully complied rect to the best of my knowled	with Letter of Confidentiality Received
Signature:	aan Firkly		Coologial Negoti Necovica
Title: Manager of Engine	ering	Date: 11/15/2010	UIC Distribution  ALT I VII Approved by Date:

#### Side Two

Operator Name: Layne Energy Operating, LLC			Lease I	Lease Name: Metzger			Well #: 15L-34		
Sec. 34 Twp.30	s. R. <u>14</u>	✓ East	County	: Wilso	on				
time tool open and clo	sed, flowing and shu es if gas to surface te	d base of formations per t-in pressures, whether s st, along with final chart well site report.	shut-in pres	sure read	ched static level	l, hydrostatic pre	ssures, bottom l	hole temp	erature, fluid
Drill Stem Tests Taken		☐ Yes 🗸 No	N. 4 (1984) - A. (	<b>V</b> L	og Formatio	on (Top), Depth a	and Datum		Sample
Cores Taken Yes				Nam See D	e riller's Log		Тор	]	Datum
Electric Log Submitted (If no, Submit Copy	•	Yes No					KC	0	
List All E. Logs Run: Compensated D	ensity Neutron						NOV 1 5	2010	
Dual Induction	chony reduced						CONFIDE		
		CASING	RECORD	⊥ ✓ Ne	ew Used	<del></del>	COIN IOL	-14 ( 1/4)	
		Report all strings set-					# 0 - 1-		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
Surface	11"	8.625*	24		42'	Class A	8	Type 1	Cement
Producton	6.75"	4.5"	10.5		1223'	Thick Set	135		
Purpose:	Depth		T		JEEZE RECORD				
Perforate Protect Casing Plug Back TD Plug Off Zone	Top Bottom	Type of Cement	# Sacks	- Useu		туре апо	Percent Additives		
Shots Per Foot		ON RECORD - Bridge Plu Footage of Each Interval Pe				acture, Shot, Ceme Amount and Kind of I		rd	Depth
	See Attached Pag	ge							
								유드	CEIVED
TUBING RECORD:	Size: 2-3/8"	Set At: 1210'	Packer A	at:	Liner Run:	Yes V	lo	NO\	1 6 201
Date of First, Resumed 9/9/2010	Production, SWD or EN	HR. Producing Me	thod:    Pumpin	ng 🗍	Gas Lift	Other (Explain)		NUU	VVICHI
Estimated Production Per 24 Hours	Oil 5	Bbls. Gas 2	Mcf	Wat	er I	Bbls.	Gas-Oil Ratio		Gravity
DISPOSITIO	DN OF GAS:		METHOD OF	Dually	Comp. Co		PRODUCTI Cattleman Sar		
(If vented, Sul	omit ACO-18.)	Other (Specify)		(Submit a	400-5) (Su	bmit ACO-4)	J. U. W. J. MARIJALINI J. MARIJALINI J. MARIJA	MILE CAN LIGHTERARY & LITTLE AND C. T. C.	

# Layne Energy Operating, LLC #33365



METZGER 15L-34 NE SW SW SE 34 - 30S - 14E WILSON COUNTY, KANSAS 15-205-27858-00-00

Stage #

**Perforation Record** 

Acid, Fracture, Shot, Cement Squeeze Record

Stage 1 9/8/2010

Cattleman Sand 1149' - 1161'

299 Water (bbls) 400 HCl (15%) (gal) 6000 Sand (12/20) Brown 6000 Sand (20/40) (lbs)

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## **Daily Well Work Report**

METZGER 15L-34 8/23/2010

Well Location: WILSON KS

30S-14E-34 NE SW SW SE 678FSL / 2292FEL

1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN

Cost Center Lease Number Property Code G01027400800

G010274 KSSY30S14E3415L

API Number 15-2

15-205-27858

Spud D	ate	RDMO Date	First Compl	First Prod	EFM Install	CygnetID
8/20/20	)10	8/24/2010	9/9/2010	9/9/2010		
TD	PBTI	D Sf Csg De <sub>l</sub>	oth Pr Csg Dep	oth Tbg Size	e Csg Size	
1236	1223	3 42	1223	0	0	
Reported	Ву ЈМ	R	lig Number		Date	8/20/2010
Taken By	KRI	D			Down Time	
Present O	peratio	on DRILL OUT S	SURFACE		Contractor	THORNTON ROTARY
Narrative						
MIRU THO	RNTON	DRILLED 11" HO	LE 42' DEEP, RIH V	N/2 JOINTS 8-5/8	B" SURFACE CASI	NG MIXED 8 SX TYPE

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### Air Drilling Specialist Oil & Gas Wells

## THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	8/20/2010
Date Completed	- 8/23/2010

Well No.	Operator	Lease	A.P.I #	County	State
15L-34 Layne Energy Operating		Metzger	15-205-27858-00-00	Wilson	Kansas
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	43' 85/8	1236	63/4

#### **Formation Record**

Formation Record								
0-1	DIRT	854-857	LIME	1101-1103	COAL			
1-5	CLAY	857-858	COAL (MULBERRY)	1103-1144	SHALE			
5-68	LIME	858-886	LIME (PAWNEE)	1144-1164	SAND / 1146-ODOR			
68-180	SHALE	861	GAS TEST-10#,1/2",MCF-116	1164-1166	SANDY SHALE			
180-295	LMY SHALE	886-888	SHALE	1166-1168	SHALE			
295-414	SAND	888-891	LIME	1168-1170	COAL			
335	WENT TO WATER	891-897	BLK SHALE	1170-1236	SHALE			
414-418	LIME	897-909	SHALE	1236	TD			
418-430	SHALE	909-921	SAND					
430-450	LIME	921-925	SANDY SHALE					
435	GAS TEST - NO GAS	925-931	SAND					
450-465	LMY SHALE	931-942	SHALE					
465-522	LIME	942-968	LIME (OSWEGO)		KCC			
522-533	SHALE	968-970	SHALE		NOV 1 5 20°	10		
533-549	LIME	970-978	BLK SHALE (SUMMIT)		MOA 1 2 40			
549-567	SAND	978-987	LIME		CONFIDENT	TIAL		
567-630	LIME	987-992	BLK SHALE (EXCELLO)					
585	GAS TEST-6#,1/2",MCF-86.3	992-993	COAL (MULKEY)					
630-668	SHALE	993-997	LIME					
668-680	SANDY SHALE	997-1004	SAND					
680-688	SHALE	1004-1037	SHALE					
688-707	LIME	1011	GAS TEST - SAME					
707-731	SHALE	1037-1038	COAL					
731-747	LIME	1038-1055	SHALE					
747-764	SAND	1055-1057	LIME					
764-791	SANDY SHALE	1057-1059	SHALE					
791-792	COAL	1059-1061	COAL					
792-800	SHALE	1061-1066	SANDY SHALE					
800-809	SAND	1066-1075	SAND					
809-854	SHALE	1075-1101	SANDY SHALE					

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NOV 1 6 2010

KCC WICHITA





KET NUMBER_	29085
LOCATION Eu	rets
FOREMAN Try	Strickle

## FIELD TICKET & TREATMENT REPORT

	nanute, KS 667 or 800-467-8676			CEMENT	T			
DATE	CUSTOMER#	WELL	NAME & NUMI	BER	SECTION	TOWNSHIP	RANGE	COUNTY
8-24-10	4758	Metzg	er 154-5	34				wilson
CUSTOMER		• • • • • • • • • • • • • • • • • • • •						
Layne	Energy				TRUCK#	DRIVER	TRUCK#	RIVER
MAILING ADDRE				] [	520	Cliff	K	
P.D	Box 160	)		] [	543	Dave	VOV	1 5 2010
CITY		STATE	ZIP CODE					HDENTIAL
Sycamo	a(c	K <sub>S</sub>		] [			COM	
JOB TYPE		HOLE SIZE	6 3kg	HOLE DEPTH	1236	CASING SIZE & W	/ElGHT <u>4½</u>	10.5#
CASING DEPTH	1223'	DRILL PIPE		_TUBING			OTHER	
SLURRY WEIGH	и <u>/3.</u> ч <sup>и</sup>	SLURRY VOL_		WATER gal/sk	<u>8</u> =	CEMENT LEFT In	CASING 0'	
DISPLACEMENT	r <u>19.5661</u>	DISPLACEMENT	r PSI <u>500</u>	MIX PSI / 6	<del></del>	RATE		
REMARKS: 5	alety Mee	him: Ria	4 otah	1/2" Carr	7. Buzak	Circulation	w/ 2086	Water.
^	sk GI-Fly	•	Mr. Jah	water si	Decer. 200	Ph1 Cantic s	oda Pre-	Flux.
1084 1	Die water	. Mixe	ط اعرر	10 This	k Set Ce	ment u/	8# KO1-J	rel Full
@ 13.4°	1/5al. We	th out	Rugo + 1	ines Re	brese Phy	. Displace	w/ 19.	5 RN LEXTO
Final	Rup fres	ter to	o PIT.	Burys Ph	, to 160	DO PIT! W	ait 2 min	s Relaye
Pressure.		teld. Good	Come	ent to	Su face		on to pot	-
						ট্র	6 Capt	
ACCOUNT CODE	QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or PF	RODUCT	UNIT PRICE	TOTAL
5401	1		PUMP CHARG	<u> </u>			925.00	925.00
	110		MUEACE				264	104.00

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES of	PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		925.00	925.00
5406	40	MILEAGE		3.65	146.00
1126A	135211	ThickSet Cement		17.00	2295.00
1110A	/080 H	8# Kol-Seal		,42 #	453.60
11074	12.*	1/817 Phonosee/ Parfor		1.15#	19.55
//35	68"	1/27 CFL-110		7.50"	510.00
1146	34 *	1/42 CAF-38		7.70 #	261.80
1/18 %	Joo #	Gel-Flush		, 20 <sup>1‡</sup>	100.00
1105	50*	Hulls		. ፓና#	19.50
1103	/00 <del>*</del>	Courtic Soda		1.45#	145.00
4404		41/2" Top Rubber Aly	RECEIVED	45.00	75-00
SYOTA	7.43	Ton-mileys	NOV 1 F 20	Ū /. 20	356.64
			KCC WICH	TA	
				sub Talal	5277.09
	· · · · · · · · · · · · · · · · · · ·	Thate	<b>6</b> .37	SALES TAX	<i>8</i> 48.63
Ravin 3737		Day and		ESTIMATED TOTAL	5519.62
AUTHORIZTION_	Soul Mall	TITLE		DATE	

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.