

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1053862

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 #		API No. 15	
Name:		Spot Description:	
Address 1:			t 🗌 West
Address 2:		Feet from North / South Line of	of Section
City: State: Zi	ip:+	Feet from East / West Line c	of Section
Contact Person:		Footages Calculated from Nearest Outside Section Corner:	
Phone: ()			
CONTRACTOR: License #		County:	
Name:		Lease Name: Well #:	
Wellsite Geologist:		Field Name:	
Purchaser:		Producing Formation:	
		Ŭ	
Designate Type of Completion:		Elevation: Ground: Kelly Bushing:	
New Well Re-Entry	Workover	Total Depth: Plug Back Total Depth:	
	SIOW	Amount of Surface Pipe Set and Cemented at:	Feet
Gas D&A ENHR	SIGW	Multiple Stage Cementing Collar Used? Yes No	
GSW GSW	Temp. Abd.	If yes, show depth set:	Feet
CM (Coal Bed Methane)		If Alternate II completion, cement circulated from:	
Cathodic Other (Core, Expl., etc.):		feet depth to:w/	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 T	otal Depth:	Chloride content: ppm Fluid volume:	bbls
Deepening Re-perf. Conv. to	ENHR Conv. to SWD	Dewatering method used:	
Conv. to	o GSW		
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 Eas	
GSW Permit #:		County: Permit #:	
Spud Date or Date Reached TD Recompletion Date	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						
Confidential Release Date:						
Wireline Log Received     Geologist Report Received						
UIC Distribution						
ALT I II III Approved by: Date:						

	Side Two	1053862
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

**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 Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes	No		og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	jical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	<ul><li>Yes</li><li>Yes</li><li>Yes</li></ul>	□ No □ No □ No					
List All E. Logs Run:								
		Report all		RECORD No	ew Used ermediate, product	ion, etc.		
Purpose of String	Size Hole Drilled	Size Ca Set (In C		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated						ement Squeeze Record I of Material Used)	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	<b>ર</b> .	Producing N	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITI	ON OF (	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTE	RVAL:
Vented Solo (If vented, Su		Used on Lease		Open Hole	Perf.	Uually (Submit)	Comp. 4CO-5)	Commingled (Submit ACO-4)		
(II vented, Su		-10.)		Other (Specify)						

# Well Report METZGER 15N-34

API Number: Project Area:	SYCAMORE KS Wilson 30S - 14E - 34 180FSL - 2460FEL	AFE Number: AFE Amount:	G01027401300 \$0.00
Activity Date	Activity Description		
12/14/2010	MIRU THORNTON DRILLED 11' HOLE 44 CASING MIXED 8 SX TYPE 1 CEMENT,	,	
12/15/2010	TIH W/ 6 3/4" BIT, HAMMER AND DRILL 1237' TD, CATCHING SAMPLES AT ZONE WIRELINE PULL LOGS FROM LOGGER I PLUGGED	ES OF INTEREST. RE	DRILL RIG, RU OSAGE
1/27/2011	MI RU WITH 2-3/8 TUBING RAN TO 1235 POZ CEMENT. PULLED PITE TO 481'. PU PIPE TO 250' PUMPED 60 SACKS CEMEN BREAK DOWN.	JMPED ANOTHER 15	SACKS CEMENT, PULLED

Dec 16 10 10:23a Billy Thornton

Air Drilling Specialist

Oil & Gas Wells

## THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	12/14/2010
Date Completed	12/15/2010

Well No.	Operator	Lease	A.P.I#	County	State
15N-34	Layne Energy Operating	Metzger	205-27864-00-00	Wilson	Kansas
	······································				
1/4	1/4	1/4	Sec.	Twp.	Rge.

į	Driller	Type/Well	Cement Used	Casin	g Used	Depth	Size of Hole
1	Billy	Oil	8	44.6'	8 5/8	1237	6 3/4

		Format	ion Record		
0-3	DIRT	861-890	LIME (PAWNEE)	1223-1237	SHALE
3-72	LIME	890-895	BLACK SHALE	1237	ТD
72-176	SHALE	895-897	LIME		
176-190	LIME	897-902	BLACK SHALE		
190-280	LMY SHALE	902-948	SANDY SHALE		· · · · · · · · · · · · · · · · · · ·
280-412	SAND (DAMP)	948-972	LIME (OSWEGO)		
411	WENT TO WATER	972-978	BLK SHALE (SUMMIT)		<u> </u>
412-415	LIME	978-991	LIME		
415-420	SHALE	991-995	BLACK SHALE		<u> </u>
420-520	LIME	995-996	COAL (MULKEY)		
520-532	SHALE	996-998	SHALE	·	
532-546	LIME	998-1002	LIME	+	
546-571	SAND	1002-1042	SHALE		
561	GAS TEST-SLIGHT BLOW	1042-1043	COAL		
571-632	LIME	1043-1059	SHALE		
586	GAS TEST-45#,1/4',MCF-87.2	1059-1060	LIME		
632-669	SHALE	1060-1061	SHALE		
669-670	COAL	1061-1062	COAL (CROWBERG)		· · · · · · · · · · · · · · · · · · ·
670-690	SHALE	1062-1106	SHALE	*	
690-709	LIME	1106-1107	COAL	**	
709-734	SHALE	1107-1157	SHALE		
734-751	LIME	1112	GAS TEST-25#,1/2",MCF-205		·····
751-766	SAND	1157-1159	SANDY SHALE		
766-795	SHALE	1159-1163	SAND / LITE ODOR		
795-800	SAND	1163-1172	SANDY SHALE		
800-805	LIME	1172-1173	COAL		
305-812	SAND	1173-1186	SHALE		
312-857	SHALE	1186-1206	SANDY SHALE	<u>†</u>	······································
857-859	LIME	1206-1222	SHALE	╉┈┉╸┤	
359-861	COAL (MULBERRY)	1222-1223	COAL	·	

### Formation Record

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620-879-2073