

Kansas Corporation Commission Oil & Gas Conservation Division

1054287

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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City:	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used?
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. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec Twp S. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date 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
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

Side Two

1054287

Operator Name:			Lease Nam	ie:			Well #:		
Sec Twp	S. R	East West	County:						
time tool open and clos	sed, flowing and shut- s if gas to surface tes	base of formations per in pressures, whether s t, along with final chart well site report.	shut-in pressure	reached s	tatic level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S	theets)	Yes No	[Log	Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geole	•	Yes No	1	Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	l Electronically	Yes No Yes No Yes No							
List All E. Logs Run:									
		CASING Report all strings set-	RECORD		Used	on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	5	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
	263	331 (3.3.)	2001711		<u> </u>		0000		
		ADDITIONA	L OFMENTING /	00115575	DECORD				
Purpose:	Depth		L CEMENTING /		RECORD	Time and	Darsont Additives		
Perforate	Top Bottom	Type of Cement	# Sacks Use	d		Type and	Percent Additives		
Protect Casing Plug Back TD									
Plug Off Zone									
	PERFORATIO	N RECORD - Bridge Plu	as Set/Tyne		Acid Fra	ture Shot Ceme	nt Squeeze Record	Н	
Shots Per Foot	Specify Fo	ootage of Each Interval Pe	rforated			nount and Kind of N		u	Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes N	0		
Date of First, Resumed I	Production, SWD or ENH	R. Producing Me	thod:	Gas Li	ft C	ther <i>(Explain)</i>			
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf	Water	Bl	ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		METHOD OF COI	MPLETION:			PRODUCTIO	ON INTER	VAL:
Vented Sold	Used on Lease	Open Hole		Dually Comp		nmingled			
(If vented, Sub	mit ACO-18.)	Other (Specify)	(80	bmit ACO-5)	(SUDI	nit ACO-4) —			

Air Drilling Specialist Oil & Gas Wells

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	12/20/2010
Date Completed	12/21/2010

Well No.	Operator	Lease	A.P.I#	County	State
15Q-34	Layne Energy Operating	Metzger	205-27980-00-00	Wilson	Kansas
1/4	1/4	1/4	Sec.	Twp.	Rge.
			34	30	14
Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Oil	8	43' 85/8	1262	63/4

Formation Record

Formation Record						
0-4	DIRT	897-898	LIME			
4-66	UME	898-904	BLACK SHALE			
66-80	LMY SHALE	904-914	SHALE			
80-201	SHALE	914-921	SAND			
201-295	LMY SHALE	921-949	SHALE			
295-306	LIME	949-975	LIME (OSWEGO)			
305-413	SAND (DAMP)	975-986	BLK SHALE (SUMMIT)			
361	WENT TO WATER	986-989	LIME			
413-418	LIMÉ	989-995	BLACK SHALE			
418-426	SHALE	995-996	COAL (MULKEY)			
426-524	LIME	996-1062	SHALE			
524-530	BLACK SHALE	1062-1063	LIME			
530-548	LIME	1063-1066	SHALE			
548-576	SANDY SHALE	1066-1067	COAL (CROWBERG)			
576-635	LIME	1067-1106	SHALE			
586	GAS TEST - NO GAS	1106-1107	COAL (MINERAL)			
635-703	SHALE	1107-1153	SHALE			
703-712	LIME	1153-1158	SANDY SHALE			
712-734	SHALE	1158-1173	SAND / OIL ODOR			
734-746	LIME	1173-1177	SANDY SHALE			
746-749	BLACK SHALE	1177-1180	COAL			
749-758	LIME	1180-1188	SAND / OIL ODOR			
7 58-770	SAND/LITE OIL ODOR	1187	GAS TEST-8#,1/4",MCF-27			
770-785	SANDY SHALE	1188-1203	SANDY SHALE			
785- 85 9	SHALE	1203-1207	GRAY SAND			
859-860	LIME	1207-1262	SHALE			
860-861	COAL (MULBERRY)	1262	ΤD			
861-863	SHALE					
863-892	LIME (PAWNEE)					
892-897	BLK SHALE (LEXINGTON)					





TICKET NUMBER 30124
LOCATION EUREKA
FOREMAN KEVIN MCCoy

DATE

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

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WELL	L NAME & NUM	WELL NAME & NUMBER		TOWNSHIP	RANGE	COUNTY
12-22-10	4758	Metza	eR 15 Q	34				WILSON
CUSTOMER		,	.,-	SAFety	基金鐵鐵電流			ably by
LAYN	e ENGRAY			Meeting	TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRE				Km	445	John S.		
P.o. Bo	× 160			<u>J</u> 5	543	Shannon F		
CITY		STATE	ZIP CODE	S.F.				
Sycamor	ee	Ks						
JOB TYPE KON	gstring O	HOLE SIZE	6314	_ HOLE DEPTH	1262	CASING SIZE & V	VEIGHT 4/2	
CASING DEPTH	1252	DRILL PIPE		_TUBING			OTHER	
SLURRY WEIGH	IT <i>13.</i> 4 *	SLURRY VOL_	12 BBL	WATER gal/s	k <u>9.° </u>	CEMENT LEFT In	CASING_O	
DISPLACEMENT 20 Bbl DISPLACEMENT PSI 700			MMK PSI_/20	o Bump Plug	RATE			
REMARKS:	rety Meetin	2: Rigup	to 4/2 CA	ASING. BRE	AK CIRCULATI	w w/ 25 Bbl	. Fresh wat	e. Pump
						Re Flush 9 Bb		
135 SKS TH	KK Set Gem	ent w/8#1	KOL-SEAL /	sk 1/8 " Ph	eno Seal 1/2	L CFC-110 14	% CAF-38 (P 13.44/
9AL VIELD	1.75. Shut	down. WAS	h out Pump	of Lines. 1	Pelease Plug.	DISPLACE W/	20 BBL FR	esh water.
FINAL Pum	ping PRESSUM	- 700 PSI	Bump Plug	to 1200 ps	1. WAIT & N	inutes. Release	se Pressure	FIOAT
Held. Good	I Cement Re	eturns to -	SURFACE =	6 BbL 51	urrey to Pit.	Job Complet	e- Rig down	•
					7			
							 	

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	925.00	925-00
5406	4 0	MILEAGE	3.65	146-00
1126 A	135 sks	THICK Set Cement	17.00	2295.00
1110 A	1080 *	KOL-SEAL 8 4/SK	.42	453.60
1107 A	17 *	Pheno Seal 1/8" ISK	1.15	19.55
1135	68 *	CFL-110 1/2 %	7.50	5/0.00
1146	34 *	CAF-38 44 %	7.79	261.80
1118 B	500 *	Gel Flush	.20	100.00
1/05	<i>5</i> ° [⊀]	Halls	.39	19.50
110.3	/00 ⁴	CAUSTIC SodA	1.45	145.00
5407 A	7.43 Tons	40 miks Buck Delv.	1.20	356.64
4404	/	41/2 Top Rubber Plag	45.00	45.00
			Sub TotAL	5272.09
		THANK YOU 6.3%	SALES TAX	242.53
n 3737	1201	28846	ESTIMATED TOTAL	5519.68

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.

Well Report METZGER 150-34

API Number: G01027401500

Project Area: SYCAMORE AFE Amount: \$0.00

KS Wilson 30S - 14E - 34 200FSL - 1975FEL

Activity Date	Activity Description
12/20/2010	MIRU THORNTON DRILLED 11' HOLE 44.' DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN
12/21/2010	TIH W/ $63/4$ " BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1263' TD, CATCHING SAMPLES AT ZONES OF INTEREST. RD DRILL RIG, RU OSAGE WIRELINE PULL LOGS FROM LOGGER DEPTH TO SURFACE. SDFN
12/22/2010	MI PU, RIH w/ 32 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 25 BBLS FRESH WTR PUMP 10 SKS GEL FLUSH W/HULLS, 5 BBLS WATER SPACER, 20 BBLS CAUSTIC PRE-FLUSH, 9 BBLS DYE WTR. MIXED 135 SKS THKSET CMT W/8#KOL-SEAL,1/8# PHENOSEAL PER SK.,1/2% CFL-110, 1/4% CAF-38 @ 13.4#/GAL YIELD 1.75. WASHED OUT PUMP AND LINES SHUTDOWN, RELEASE PLUG, DISPLACE W/20 BBLS FRESH WTR. FINAL PUMPING PRESSURE 700 PSI, BUMP PLUG TO 1200 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 42 BBLS SLURRY, 6 BBLS TO PIT. RD MOL.
	CSG STRING:10' SUB, 8' SUB 32 JOINTS 4-1/2" LANDED CSG @ 1252' PBTD - 1252' TD 1263'
12/29/2010	MOL RU Osage Wireline. RIH with GR-CCL/VDL Cement Bond log. Logged from 1242' (Loggers PBTD 1243') to surface. Good bond except 300'-328'.
	Rig down Osage Wireline. SI Well.
1/5/2011	MIRU Osage Wireline and Consolidated Oil Well Services. Osage RIH and perforate Cattleman from 1155' to 1169' with 2 SPF, 180 degree phase, 25 gm charges. (29 HOLES) Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 300 gals additional (400 total) and dropped 40 ball sealers and balled off perfs. Flowed back to clear perfs. Osage RIH with junkbasket/gauge ring and knocked off ball sealers. Consolidated fracked the Cattleman with 85 bbls PAD of 25 ppt gelled water with 2% KCL and boicide followed with 6,000 lbs 16/30 and 8,000 lbs 12/20 sand @ 0.25 to 2.5 ppg concentrations. Dropped 10 balls during frac. Flushed sand with 24 bbls gelled water. Breakdown 1,383 psig, ISIP 588 psig, 5 min 502 psig, 10 min 468 psig, 15 min 444 psig. ATP 820 psig, MTP 935 psig, ATR 26.5 BPM, MTR 26.7 BPM.
	TOTALS 400 gallons 15% HCL, 14,000 lbs 16/30 & 12/20 sand, 349 bbls gelled water.
	Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.

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1/6/2011 MI RU TRIPPED IN HOLE WITH TUBING HIT 15' OF SAND WASHED TO TD HUNG SN @ 1184' 15' OEMA @1199' RAN NEW RODS WITH GUIDES AND 6' BHD CUP PMP HUNG OFF

ON WELL HEAD WELL READY FOR PROD.

TUBING STRING 36 JTS 2-3/8 0' SUB SN @ 1184 15' OEMA 1199

ROD STRING 46 - 3/4 RODS 1-8',2-6'1-2' ROD SUBS 1-1/2 X 6'BHD CUP PUMP WITH 4' GTA

Tuesday, April 19, 2011 Page 2 of 2

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



phone: 316-337-6200 fax: 316-337-6211 http://kcc.ks.gov/

Thomas E. Wright, Chairman Ward Loyd, Commissioner Corporation Commission

Sam Brownback, Governor

April 19, 2011

Victor H. Dyal Layne Energy Operating, LLC 1900 SHAWNEE MISSION PKWY MISSION WOODS, KS 66205-2001

Re: ACO1 API 15-205-27890-00-00 METZGER 15Q-34 SE/4 Sec.34-30S-14E Wilson County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Victor H. Dyal