

Kansas Corporation Commission Oil & Gas Conservation Division

1152423

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 III Approved by: Date:				

Side Two

1152423

Operator Name:			Lease Name: _			_ Well #:	
Sec Twp	S. R	East West	County:				
time tool open and clo	sed, flowing and shut es if gas to surface tes	d base of formations per -in pressures, whether s st, along with final chart(well site report.	shut-in pressure rea	ached static level,	hydrostatic press	sures, bottom he	ole temperature, fluid
Drill Stem Tests Taken (Attach Additional S		Yes No		₋og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geol	·	☐ Yes ☐ No	Nan	ne		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	d Electronically	Yes No Yes No Yes No					
List All E. Logs Run:							
		CASING Report all strings set-		lew Used termediate, producti	on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
	1	ADDITIONAL	_ _ CEMENTING / SQ	UEEZE RECORD	I		
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Del			Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or EN	HR. Producing Met	hod:		other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf Wa	ter Bl	ols. (Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole		ly Comp. Con	nmingled mit ACO-4)	PRODUCTIO	N INTERVAL:



CONSOLIDATED Oil Well Services, LLC

259687

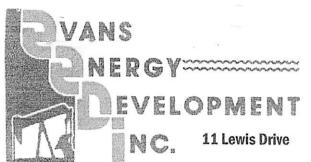
TICKET NUMBER	41984
LOCATION_ O+	Laws
FOREMAN Ala	u Made

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

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WE	LL NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY
6.13.13	6370	Sawy	er 20	-I 3	W29	14	22	(75
USTOMER	leum Te	1. 1	,	1,00	ALTERNATION OF THE PARTY OF THE		12-10-10部開始	
IAILING ADDR	Chair A	-cnnac	291,	<u> </u>	TRUCK#	DRIVER	TRUCK#	DRIVER
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ITY	7/-	STATE	ZIP CODE	اً ا	270	DO Mal)	<u> </u>	ļ
V and ac	City	Mo	641/2	کا ا	210	Kei Con	ļ	
701545	2 200		-	<u> </u>	510	Set Jac	1	5
OB TYPE(/	100-1	HOLE SIZE	•	HOLE DEPTH	110	CASING SIZE & V		1
ASING DEPTH		DRILL PIPE		TUBING		140	OTHER	
LURRY WEIGH		SLURRY VOL_ DISPLACEMEI	17	WATER gal/sk_	27	CEMENT LEFT in	CASING	<u>es</u>
ISPLACEMENT	1 / 0	1		MIX PSI	200	RATE TO	an a	, ,
EMARKS:	toolced 1	ro cog	218. 11	2 -1-51	red or	are. N	ixed !	1 fum
00 -	g Vaite L'	owed Co	104/11	1 3 3 3	0/30 C	Lynent	plus a	7036
ana	1000	2 year	- FER	37.	re gia	red c	emens	
Flus	ned py	mp)	Fumpe	019	FRAN	Scs. n	C/DA	we
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LIBE	01/413	0						
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	evons, /	VIIICHE	21/			All	W SIDO	
CODE	QUANITY o	r UNITS	DES	SCRIPTION of SE	RVICES or PRO	DDUCT	UNIT PRICE	TOTAL
3701			PUMP CHARGE	<u> </u>		358		10854
5406		30	MILEAGE			368		1262
5402	89.	5	C45in	stoota	ce	368		
5407	Min.		ton	niles		510		3680
3502C	\sim		1 80 va			370		1800
								7.00
				7 6	1			12100
1124	119		1 30/36	come	17.0		l	1 (100)
11124	119	2#	50/50	come	a			1500,0
111813	119 300 31	2# 2#	Sel					66.00
107	119 300 30	2# 2#	990	Seal				74,10
1124 111813 1107 4402	119 300 31	2# 2#	Sel					1360.3 66.00 74,10 29.50
107	119 300 30	9# 2#	990		<i>A.</i> 5			1360.3 66.00 74.10 29.50
107	119 300 30	2# 2# 1	990		A.5			1360.00
107	119 300 30	2# 2# /	990		A.5		, .	1560.0 66.00 741.10 29.50
107	119 300 30	2# 2# 1	990				comple	1360.3 66.00 74.10 29.00
107	119 300 30	2# 2# /	990					1360.0 66.00 741.10 29.50
107	119 300 31	2# 2# /	990				compo	
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107	119 300 31	2# 2# /	990				comple	
107	119 300 31	2# 2# /	990				compo	
1107	119 300 31	2# 1 1 1 1 1	39/03			Benform	SALES TAX	

account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Oil & Gas Well Drilling Water Wells Geo-Loop Installation

Phone: 913-557-9083

Fax: 913-557-9084

WELL LOG

Paola, KS 66071

Petroleum Technologies, Inc. Sawyer #20i API #15-091-24,144 June 12 - June 13, 2013

Thickness of Strata	<u>Formation</u>	Total
8	soil & clay	8
3	sandstone	11 no water
27	shale	38
3	lime	41
3	shale	44
16	lime	60
8	shale	68
9	lime	77
9	shale	86
22	lime	108
19	shale	127
23	lime	150
9	shale	159
11	lime	170
4	shale	174
36	lime	210
18	shale	228
9	lime	237
20	shale	257
7	lime	264
5	shale	269
6	lime	275
46	shale	321
23	lime	344
10	shale	354
22	lime	376
4	shale	380
3	lime	383
6	shale	389
5	lime	394 base of the Kansas City
35	shale	429
7	sand	436 grey & green (gassy)
136	shale	572
4	lime	576
11	shale	387
6	lime	593
16	shale	609
4	lime	613
14	shale	627
4	lime	631

Sawyer #20i		Page 2
20	shale	651 red
3	lime	654
78	shale	732
3	oil sand	735 brown sand, light bleeding (gassy)
7	broken sand	742 brown & grey, light bleeding
45	shale	787
1	coal	788
9	shale	797
4	sand	801 white, no oil
4	shale	805
1	coal	806
6	shale	812
2	sand	814 white, no oil
27	shale	841
1	limey sand	842
14	shale	856
1	broken sand	857 505 lime, 50% sand, ok bleeding
1	oil sand	857 friable brown sand, ok bleeding
2	oil sand	860 hard brown, good bleeding, few lime seams
1	broken sand	861 80% black friable sand, 20% lime
3	oil sand	864 black, good bleeding
2	broken sand	866 90% black good bleeding sand,10% lime
2	broken sand	868 50% sand, 50% silty shale, ok bleeding
6	silty shale	874
36	shale	910 TD

Drilled a 9 7/8" hole to 21.6' Drilled a 5 5/8" hole to 910'

Set 21.6' of 7" casing threaded and coupled, cemented with 6 sacks cement.

Set 895' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.