

Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

1097548

Form ACO-1
August 2013
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:							
Address 2:			F6	eet from	outh Line of Section		
City: S	State: Zi	p:+	Fe	eet from East / W	Vest Line of Section		
Contact Person:			Footages Calculated from	Nearest Outside Section Co	rner:		
Phone: ()			□NE □NW □SE □SW				
CONTRACTOR: License #			GPS Location: Lat:, Long:				
Name:			(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)				
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84			
Purchaser:			County:				
Designate Type of Completion:			Lease Name:	Wel	l #:		
	e-Entry	Workover	Field Name:				
	_		Producing Formation:				
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing: _			
☐ Gas ☐ DaA	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total De	pth:		
CM (Coal Bed Methane)	G5W	iemp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet		
Cathodic Other (Core, Expl., etc.):			Multiple Stage Cementing	Collar Used? Yes I	No		
If Workover/Re-entry: Old Well Ir			If yes, show depth set:		Feet		
Operator:			If Alternate II completion, of	cement circulated from:			
Well Name:			feet depth to:	w/	sx cmt.		
Original Comp. Date:	Original To	otal Depth:					
Deepening Re-perf.	Conv. to E	NHR Conv. to SWD	Drilling Fluid Manageme	nt Plan			
☐ Plug Back	Conv. to G	SW Conv. to Producer	(Data must be collected from t				
Commingled	Dormit #		Chloride content:	ppm Fluid volume: _	bbls		
Dual Completion			Dewatering method used:				
SWD			Location of fluid disposal if	f hauled offsite:			
☐ ENHR			Loodiion of hala diopodal ii	nation onone.			
GSW	Permit #:		Operator Name:				
_ <del>_</del>				License #:			
Spud Date or Date Re	ached TD	Completion Date or	QuarterSec	TwpS. R	East West		
Recompletion Date		Recompletion Date	County:	Permit #:			

#### **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.

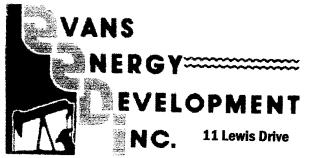
**Submitted Electronically** 

KCC Office Use ONLY								
Confidentiality Requested								
Date:								
Confidential Release Date:								
Wireline Log Received								
Geologist Report Received								
UIC Distribution								
ALT I II III Approved by: Date:								

Page Two



Operator Name:				_ Lease I	Name: _			Well #:	
Sec Twp	S. R	East	West	County	:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in press o surface test, along v	ures, whe	ther shut-in pre chart(s). Attach	ssure reac extra shee	hed stati	c level, hydrosta space is neede	tic pressures, b	ottom hole temp	erature, fluid recov
Final Radioactivity Lo files must be submitted						ogs must be ema	liled to kcc-well-	logs@kcc.ks.go	v. Digital electronic
Drill Stem Tests Taker (Attach Additional		Y	es No			J	on (Top), Depth		Sample
Samples Sent to Geo	logical Survey	Y	es No		Nam	е		Тор	Datum
Cores Taken Electric Log Run			es  No						
List All E. Logs Run:									
				RECORD	Ne				
	0: 11.1					ermediate, product		" 0 1	T 15
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives
			ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks	Used		Type and	Percent Additives	
Perforate Protect Casing	Top Dottern								
Plug Back TD Plug Off Zone									
1 lug 0 li 20 lio									
Did you perform a hydrau	ulic fracturing treatment	on this well	?			Yes	No (If No, s	skip questions 2 a	nd 3)
Does the volume of the t			-		-		_ ` `	skip question 3)	
Was the hydraulic fractur	ing treatment informatio	n submitted	to the chemical of	disclosure re	gistry?	Yes	No (If No, 1	ill out Page Three	of the ACO-1)
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Ceme	nt Squeeze Recor	rd Depth
						(* *			200
TUBING RECORD:	Size:	Set At:		Packer A	t·	Liner Run:			
		0017111				[	Yes N	o	
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod:	g 🗌	Gas Lift (	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
DIODOCITI	01.05.040			4ETUOD 05	. 00145/	TION:		DDOD! ICT!	
DISPOSITION Solo	ON OF GAS:  Used on Lease		N Open Hole	∥ETHOD OF Perf.	_		nmingled	PRODUCTION	ON INTERVAL:
	bmit ACO-18.)		Other (Specify)		(Submit		mit ACO-4)		



### Oil & Gas Well Drilling Water Wells Geo-Loop Installation

Phone: 913-557-9083 Fax: 913-557-9084

### **WELL LOG**

Paola, KS 66071

Tailwater, Inc. Wittman #4-IW (S16) API#15-003-25,341

October 2 - October 3, 2012

10 soil & clay 10 102 shale 112 113 11me 143 143 144 143 164 154 165 165 165 165 165 165 165 165 165 165	Thickness of Strata	<u>Formation</u>	Total
102       shale       112         31       lime       143         74       shale       217         10       lime       227         6       shale       233         35       lime       268         7       shale       275         21       lime       296         3       shale       299         14       lime       313 base of the Kansas City         170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       617         10       shale       627         8       lime			
31       lime       143         74       shale       217         10       lime       227         6       shale       233         35       lime       268         7       shale       275         21       lime       296         3       shale       299         14       lime       313 base of the Kansas City         170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       617         5       shale       605         12       lime       617         8       lime <td< td=""><td></td><td>shale</td><td>112</td></td<>		shale	112
74         shale         217           10         lime         227           6         shale         233           35         lime         268           7         shale         275           21         lime         296           3         shale         299           14         lime         313 base of the Kansas City           170         shale         483           3         lime         486           7         shale         493           9         lime         502 oil show           15         shale         517           6         oil sand         523 green, ok bleeding           1         coal         524           5 shale         530         green, good bleeding           1         coal         550           8         lime         564           15         shale         556           15         shale         579           4         lime         617           10         shale         627           10         shale         627           1         lime         635	- ·	lime	
10       lime       227         6       shale       233         35       lime       268         7       shale       275         21       lime       296         3       shale       299         14       lime       313 base of the Kansas City         170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         5       shale       556         8       lime       564         15       shale       579         4       lime       583         22       shale       605         11       lime       617         10       shale       627         10       shale       627         11       lime       635         61       shale	74	shale	
6 shale 233 35 lime 268 7 shale 275 21 lime 296 3 shale 299 14 lime 313 base of the Kansas City 170 shale 483 3 lime 486 7 shale 493 9 lime 502 oil show 15 shale 517 6 oil sand 523 green, ok bleeding 1 coal 524 6 shale 530 20 oil sand 550 green, good bleeding 1 coal 551 5 shale 556 8 lime 564 15 shale 579 4 lime 583 22 shale 605 12 lime 617 10 shale 627 8 lime 635 61 shale 696 1 lime & 635 61 shale 696 1 lime & 697 5 oil sand 702 brown, good bleeding	10	lime	
Second	6	shale	
7       shale       275         21       lime       296         3       shale       299         14       lime       313 base of the Kansas City         170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       617         10       shale       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         5       oil sand       702 brown, good bleeding	35	lime	
21       lime       296         3       shale       299         14       lime       313 base of the Kansas City         170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       583         22       shale       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         5       oil sand       702 brown, good bleeding		shale	
3       shale       299         14       lime       313 base of the Kansas City         170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         55       oil sand       702 brown, good bleeding		lime	
14       lime       313 base of the Kansas City         170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       583         22       shale       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         5       oil sand       702 brown, good bleeding		shale	299
170       shale       483         3       lime       486         7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       583         22       shale       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         5       oil sand       702 brown, good bleeding		lime	
7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       583         22       shale       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         5       oil sand       702 brown, good bleeding	170	shale	
7       shale       493         9       lime       502 oil show         15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       583         22       shale       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         5       oil sand       702 brown, good bleeding		lime	486
15       shale       517         6       oil sand       523 green, ok bleeding         1       coal       524         6       shale       530         20       oil sand       550 green, good bleeding         1       coal       551         5       shale       556         8       lime       564         15       shale       579         4       lime       583         22       shale       605         12       lime       617         10       shale       627         8       lime       635         61       shale       696         1       lime & shells       697         5       oil sand       702 brown, good bleeding		shale	
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8		coal	
15 shale 579 4 lime 583 22 shale 605 12 lime 617 10 shale 627 8 lime 635 61 shale 696 1 lime & shells 697 5 oil sand 702 brown, good bleeding		shale	556
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22 shale 605 12 lime 617 10 shale 627 8 lime 635 61 shale 696 1 lime & shells 697 5 oil sand 702 brown, good bleeding		shale	579
12 lime 617 10 shale 627 8 lime 635 61 shale 696 1 lime & shells 697 5 oil sand 702 brown, good bleeding		lime	583
10 shale 627 8 lime 635 61 shale 696 1 lime & shells 697 5 oil sand 702 brown, good bleeding		shale	605
8 lime 635 61 shale 696 1 lime & shells 697 5 oil sand 702 brown, good bleeding		lime	617
61 shale 696 1 lime & shells 697 5 oil sand 702 brown, good bleeding		shale	627
lime & shells 697 oil sand 702 brown, good bleeding		lime	635
5 oil sand 702 brown, good bleeding			696
702 blown, good bleeding		lime & shells	697
hroken cond 707 i			702 brown, good bleeding
protection of prowing rey, good pieeding		broken sand	707 brown grey, good bleeding
shale 711		*******	
4 sand 715 black, no oil show			715 black, no oil show
18 shale 733		shale	733
35 broken sand 768 brown & grey, no oil, gassey 768 TD	35	broken sand	768 brown & grey, no oil, gassey 768 TD

Drilled a 9 7/8" hole to 21.1' Drilled a 5 5/8" hole to 768'

Set 21.1' of 7" surface casing cemented with 6 sacks of cement.

Set 757.9' of 2 7/8" threaded and coupled 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.



LOCATION O Hawa KS
FOREMAN Exed Mader

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

# FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WELL	NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY
10/3//2 CUSTOMER	7806	•	an #4.	IW.	SE 16	20	20	AN
CUSTOMER	il water	Tuc			TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	SS				506	FreMad	SaFeth	MA
6420	Avand	ale DV.			495	Harbet	HB	7
CITY		STATE	ZIP CODE		675	Kei Dex	KD	
Oklahon	ma City	OK	73116		578		BM	
JOB TYPE LO	nackybra	HOLE SIZE	51/5	HOLE DEPTH		CASING SIZE & V		EUE
CASING DEPTH	5581	DRILL PIPE		TUBING			OTHER	
SLURRY WEIGH	T	SLURRY VOL_		WATER gal/s	k	CEMENT LEFT In	CASING 22"	Plus
DISPLACEMENT	4.4 BBL	DISPLACEMEN'	T PSI	MIX PSI		RATE 513 P	m	<i>8</i>
REMARKS: E	stablis	h suma	vate.	MINEPU	ma 100	God Flush	MixxP	UNA A
))4 9	K3 50/5	o Por M	lix Cem	enx J	% Cel. 1	Cement to	Sulface	
Flusi	h pomp	+ lihe	s clear	1. Die	place	242" Rubba	rolug X	4
casin	o TD. F	DVESSUY	e to 6	00 # PS	SI Nol	L + Monit	or ovess	UVe
						osex flo		
S hi	oth ca	S Me		<i></i>				
		7						
						1 12		
Eva	ns Energ	u Dev	Inc- To	ravis-		Fred W	lader	
		0				7		
ACCOUNT CODE	QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or F	PRODUCT	UNIT PRICE	TOTAL
5401		1	PUMP CHARG	E		495		103000
5406			MILEAGE					UK
5,402	7	5°F'	Casin	footog	L			Alle
5407	Vz Mini	MUM	Ton 9	Miles		548		175 20
55020		1/2 W	80 B	BC Vac -	Truck	675		135-00
1/24	11	14 sk5	50/50	Por M	y Come	ax		124830
1118-13	2'	92 <sup>4</sup>		im C				6132
4402		1		206ber				280
-7-40 2			2.2	W 0 1 1	13			25
				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	······································		
					···········			
						-		
							- " "	
				· · · · · · · · · · · · · · · · · · ·				
						7.870	SALES TAX	л <sub>и</sub> 33
Ravin 3737							ESTIMATED	95
	_11_1						TOTAL	2781 -
_	THE				· · · · · · · · · · · · · · · · · · ·			
AUTHORIZTION_	#			TITLE		the front of the fe	TOTAL DATE	

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

253405

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/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

October 15, 2012

Chris Martin Tailwater, Inc. 6421 AVONDALE DR STE 212 OKLAHOMA CITY, OK 73116-6428

Re: ACO1 API 15-003-25341-00-00 Wittman 4-IW SE/4 Sec.16-20S-20E Anderson 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, Chris Martin