KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1246869

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:	Feet from Dorth / South Line of Section			
City: State: Zip:+	Feet from East / West Line of Section			
Contact Person:	Footages Calculated from Nearest Outside Section Corner:			
Phone: ()				
CONTRACTOR: License #	GPS Location: Lat:, Long:			
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)			
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84			
Purchaser:	County:			
Designate Type of Completion:	Lease Name: Well #:			
New Well Re-Entry Workover	Field Name: Producing Formation: Elevation: Ground: Kelly Bushing:			
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:			
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet			
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No			
If Workover/Re-entry: Old Well Info as follows:	If ves, show depth set: Feet			
Operator:	If Alternate II completion, cement circulated from:			
Well Name:	feet depth to:w/sx cmt.			
Original Comp. Date: Original Total Depth:				
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan			
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)			
	Chloride content: ppm Fluid volume: bbls			
Commingled Permit #:	Dewatering method used:			
Dual Completion Permit #:				
SWD Permit #: ENHR Permit #:	Location of fluid disposal if hauled offsite:			
ENHR Permit #: GSW Permit #:	Operator Name:			
	Lease Name: License #:			
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West			
Spud Date orDate Reached TDCompletion Date orRecompletion DateRecompletion 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				
	i ugo i no	1246869			
Operator Name:	_ Lease Name:	Well #:			
Sec TwpS. R East West	County:				
INCTRUCTIONS, Chow important tang of formations populated D	atail all aaraa Bapart all final	agniag of drill stamp tools giving interval toolad, time tool			

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Shi	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-c	conductor, surface, inte	ermediate, product	ion, 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
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			

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

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

No

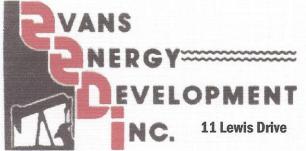
(If No, fill out Page Three of the ACO-1)

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 F	Run:	No	
Date of First, Resumed	Product	ion, SWD or ENH	٦.	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF 0	GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTER	RVAL:
Vented Solo (If vented, Su	J 🗌	Used on Lease		Open Hole Other <i>(Specify)</i> _	Perf.	_	Comp. 4 <i>CO-5)</i>	Commingled (Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	Tailwater, Inc.
Well Name	Lickteg 1-US
Doc ID	1246869

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set		Setting Depth	Type Of Cement		Type and Percent Additives
Surface	9.8750	7	17	36	Portland	8	POZ
Production	5.6250	2.8750	6.45	764	Portland	112	50/50 POZ



Oil & Gas Well Drilling Water Wells Geo-Loop Installation

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

WELL LOG Tailwater, Inc. Lickteig # 1-US API #15-003--30,902 January 21 - January 22, 2015

Paola, KS 66071

Thickness of Strata	Formation	Total
20	soil & clay	20
4	clay & gravel	24
114	shale	138
27	lime	165
68	shale	233
10	lime	243
2	shale	245
37	lime	282
2	shale	284
13	lime	297
1	shale	298
35	lime	333 base of the Kansas City
170	shale	503
3	lime	506
9	shale	515
8	lime	523 oil show
23	shale	546
1	coal	547
4	shale	551
13	oil sand	564 green, good bleeding
4	silty shale	568
2	coal	570
6	shale	576
4	lime	580
14	shale	594
4	lime	598
76	shale	674
2	limey sand	676 green & white, no oil
3	broken sand	679 brown & green 40% bleeding
2	broken sand	681 brown & green, no bleeding
31	shale	712
1	lime & shells	713
4	oil sand	717 brown, good bleeding
6	broken sand	723 brown & black, ok bleeding
50	shale	773 TD

Drilled a 9 7/8" hole to 35.6' Drilled a 5 5/8" hole to 773'

Set 35.6' of 7" surface casing with 8 sacks of cement.

Set 763.6' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.

Lickteig #1-US

	Core Times	S
	Minutes	Seconds
673		40
674		36
675		34
676		33
677		40
678		35
679		37
680		48
681		38
682		37
683		38
684		39
685		42
686		55
687	1	5
688		55
689		53

Page 2

\$ 66860 437-2661 .0-437-2681

FED ID# 48-1214033 MC ID# 165290

Remit to: Hurricane Services, Inc. 250 N. Water, Suite 200 Wichita, KS 67202



HURRICANE SERVICESINC

104 Prairie Plaza Parkway Garnett, KS 68032 Ph: 785-448-3100 Fax: 785-448-3102

Invoice Date: Invoice # Lease Name: Well #: County:	1/22/2015 0016139 LICKTEIG 1-US ANDERSON		
HRSIQTY	Rate	Total	
1.000	675.000	675.00	
1.000	84.000	84.00	
1.000	84.000	84.00	
1.000	300.000	300.00	
112.000		1,265.60 T	
385.000		118.40 T	
28.000	2.150	60.20 T	
4,800.000	0.013	59.80 T	
1.000	25.000	25.00 T	
1.000	162.700-	152.70-T	
1.000	234.300-	234.30-	
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Pic pft

Net	Invoice	2,283.00
Sales Tax:	(7.65%)	105.13
	Total	2,388.13

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!



258 N. Water, Ste 200 - Wichits, No 67262

HURRICANE SERVICES INC

104 Prairie Plaza Parknay - Garnett, Ko 66052

		properties		_	Advance Marco	-	_	Telet	Ek.	\$05	13
ADDIVES	-								4. 11225201	8	
\$107, \$1474, ISA	-				Ante Space	Longsbing 2770 casing 55/8 hole			le		
Barriss Risons					Pair Delate	2 7% casing	0 75	5 610 hole @	273		
Wellmann & Ho.	a multiciting 1-US				Mail Longton		_	Andersen		Hara	-
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21	Joe					ARRIVED A				22.2	-
234	Tem					START OPE				2	-
240	Amos					FINISH OPE				14	
108	Jett					RELEASED			-		
111	Tyler			_	worment Sa	MILES FRO	M STATION	TO WELL		1.00	
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		50 Pozmik Ceneri			BRCR	112.00	\$11.30	\$1,265,68			\$5,1291
	Bontonia G	missile Cat				208.00	\$1.30	\$60.00	10.00%		884.0
	FLO-Seal					588.49	81.50	\$84.43	10.08%	-	\$56.2
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