Kansas Corporation Commission OIL & GAS CONSERVATION DIVISION

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:	SecTwpS. R 🔲 East 🗌 West				
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 #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx) Datum: NAD27 NAD83 WGS84				
Wellsite Geologist:					
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:				
☐ Oil ☐ WSW ☐ SWD ☐ SIOW	Producing Formation:				
Gas D&A ENHR SIGW	Elevation: Ground: Kelly Bushing:				
☐ OG ☐ GSW ☐ Temp. Abd.	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 yes, 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)				
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls				
Dual Completion Permit #:	Dewatering method used:				
SWD 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	QuarterSecTwpS. R East West				
Recompletion Date Recompletion Date	Countv: 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

Confidentiality Requested:

Yes No

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

Operator Name:				_ Lease N	Name: _			_Well #:	
Sec Twp	S. R	East W	/est	County	:				
INSTRUCTIONS: Show open and closed, flowing and flow rates if gas to	ng and shut-in pressur surface test, along wi	res, whether sl th final chart(s	hut-in pres). Attach	ssure reacl extra shee	ned stati t if more	c level, hydrosta space is neede	tic pressures, bot d.	tom hole temp	erature, fluid recovery,
Final Radioactivity Log, files must be submitted						gs must be ema	ailed to kcc-well-lo	ogs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taken (Attach Additional Sh	neets)	Yes [No				on (Top), Depth a		Sample
Samples Sent to Geolo	gical Survey	Yes	No		Nam	е		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ Yes ☐	No No						
List All E. Logs Run:									
		Report all si	CASING I		Ne	w Used	ion, etc.		
Purpose of String	Size Hole Drilled	Size Casi Set (In O.	ng	Weig Lbs. /	jht	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADI	DITIONAL	CEMENTIN	JG / SQL	JEEZE RECORD			
Purpose:	Depth	Type of Cer		# Sacks			Type and F	Percent Additives	
Perforate Protect Casing Plug Back TD	Top Bottom								
Plug Off Zone									
Did you perform a hydrauli Does the volume of the tota Was the hydraulic fracturin	al base fluid of the hydra	ulic fracturing tre			_	Yes	No (If No, sk	ip questions 2 ai ip question 3) out Page Three	
Shots Per Foot		NRECORD - Botage of Each In					cture, Shot, Cemen mount and Kind of Ma		d Depth
TUBING RECORD:	Size:	Set At:		Packer At	:	Liner Run:	Yes No		I
Date of First, Resumed P	roduction, SWD or ENH		ucing Meth	od: Pumpin	g	Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil Bb	ols. (Gas I	Mcf	Wate	er B	bls.	Gas-Oil Ratio	Gravity
DISPOSITION	N OF GAS:		M	IETHOD OF	COMPLE	ETION:		PRODUCTION	ON INTERVAL:
Vented Sold	Used on Lease	Open H	lole	Perf.			nmingled		
(If vented, Subn	nit ACO-18.)	Other (Specify)		(Submit)	-100-5) (Sub	mit ACO-4) —		

Summary of Changes

Lease Name and Number: Pedrow 19-T

API/Permit #: 15-003-25630-00-00

Doc ID: 1131590

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	03/11/2013	04/04/2013
Completion Or Recompletion Date	11/19/2012	03/18/2013
Date of First or Resumed Production or SWD or Enhr		03/18/2013
Method Of Completion - Perf	No	Yes
Perf_Depth_1		681
Perf_Material_1		75 gal 15% HCL acid
Perf_Material_2		40 sx sand; 142 bbls H2O
Perf_Record_1		637-681
Perf_Shots_1		2
Producing Method Pumping	No	Yes

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production - Barrels Oil		10
Save Link	//kcc/detail/operatorE ditDetail.cfm?docID=11 03998	//kcc/detail/operatorE ditDetail.cfm?docID=11 31590



CONFIDENTIAL KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION WELL COMPLETION FORM

1103998

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 □ 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? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to:w/sx cmt
Operator:	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	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 TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or	

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 I II Approved by: Date:

KOLAR Document ID: 1103998

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
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 (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement			EEZE RECORD	Typo a	ad Paraant Additivas	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Used Type and Percent Additives					
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type					Record	
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Tailwater, Inc.
Well Name	Pedrow 19-T
Doc ID	1103998

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set			Type Of Cement		Type and Percent Additives
surface	9.8750	7	17	21	Portland	6	
completion	5.6250	2.8750	6.45	850	Portland	118	50/50 POZ

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

December 06, 2012

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

Re: ACO1

API 15-003-25630-00-00 Pedrow 19-T NE/4 Sec.28-20S-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



TICKET NUMBER 38921

LOCATION O Hawa KS

FOREMAN Fred Mader

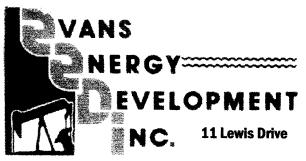
PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

620-431-9210 (or 800-467-8676			CEMEN		$\boldsymbol{x}_{i} = (\boldsymbol{x}_{i}, \boldsymbol{x}_{i}, $		(
DATE	CUSTOMER#	WELL	NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
11/21/12	7806	Pedvo	ω# 19	<u> </u>	NE 28	20	20	AN
CUSTOMER				-				
MAILING ADDRE	Lwater I	nc .			TRUCK#	DRIVER	TRUCK#	DRIVER
				,	506	FreMade	Sotely	My
<i>ር ሃል</i> CITY	21 Avanda	LL DV	ZIP CODE	-	495	HarBec	1413	
	6 3.				370	Ki. Cor	KE	
Oklahon		OK	73116	<u>.</u>	570.	Jaspic	JR	<u> </u>
JOB TYPE <u>L</u>	//	HOLE SIZE	578	_ HOLE DEPTI	1 0000 8 40	CASING SIZE & W		EUE
CASING DEPTH		DRILL PIPE		_TUBING	:		OTHER	11
SLURRY WEIGH	-	SLURRY VOL_			sk	CEMENT LEFT in		710
DISPLACEMENT		DISPLACEMEN		·	•	RATE 5BPM		<u>. </u>
REMARKS: E					100 tel Fly		,	
		50 POLA	lix Come	n× 210	al Con	my to Su	Hace , F	-105K
- Pur	wh + The	s c (game	Displa	ce <u>Z/z 7</u>	Rubber Plug to Sext	to casing	TD. Pre	55 0 Ve
		il. Kalea	se pre	230 NG	to Sex	Float Va	Lue. Sh.	, 7
·/~	casing				****			i i
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Euc	rus Everg	y Dev-	Inco - 7	vo vis-		Truck 1	Moone	
ACCOUNT	<u> </u>		,	· · · · · · · · · · · · · · · · · · ·		·	<u> </u>	
CODE	QUANITY	or UNITS			f SERVICES or PRO		UNIT PRICE	TOTAL
5401		7	PUMP CHARC	SE		495		103000
·5406		35m;	MILEAGE			495		10000
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5407	1/2 Minin		Ton	niles '	· · · · · · · · · · · · · · · · · · ·	<u> </u>		75-60
-550 RC	1:	5 hr	60 B	BL Vac	Truck	<u>370</u>		130-09
•				-				
1124		118515	50/50	Por Mi	x Coment.			129210
1118B		279 #	Promi	une Cul	·		٠٠,	6229
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						7.8%	SALES TAX	107.86
Ravin 3737	•						ESTIMATED	
	المناما	A	<u> </u>		•		TOTAL	293075
AUTHORIZTION	140			TITLE			DATE	

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.

254846



Oil & Gas Well Drilling Water Wells Geo-Loop Installation

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

.....

Paola, KS 66071

WELL LOG

Tailwater, Inc. Pedrow #19-T

API#15-003-25,630

November 16 - November 19, 2012

Thickness of Strata	<u>Formation</u>	<u>Total</u>
6	soil & clay	6
2	clay & shale	8
77	shale	85
28	lime	113
70	shale	183
10	lime	193
5	shale	198
35	lime	233
7	shale ·	240
24	lime	264
3	shale	267
23	lime	290 base of the Kansas City
170	shale	460
3	lime	463
8	shale	471
8	lime	479 oil show
8	shale	487
11	oil sand	498 green, light bleeding
11	shale	509
20	oil sand	529 green, ok bleeding
1	coal	530
7	shale	537
6	lime	543
15	shale	558
8	lime	566
33	shale	599
7	lime	606
30	shale	636
7	broken sand	643 brown & green, ok bleeding
31	shale	674
1	lime & shells	675
6	oil sand	681 brown, ok bleeding
4	shale	685
3	sand	688 black, no oil show
51	shale	739
36	broken sand	775 brown & grey, light bleeding
18	silty shale	793
1	oil sand	794 grey, good bleeding
9	silty shale	803

Pedrow #1

Page 2

_		
5	sand	808 grey, no oil
7	silty shale	815
4.5	oil sand	819.5 brown, light show
1.5	silty shale	821
1.5	sand	822.5 grey, no oil
6.5	silty shale	829
1	sand	830 grey, no oil
13	silty shale	843
7	sand	850 white, no oil
10	shale	860 TD

Drilled a 9 7/8" hole to 21' Drilled a 5 5/8" hole to 860'

Set 21' of 7" surface casing cemented with 6 sacks of cement.

Set 850' of 2 7/8" threaded and coupled 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.