2020-08-07 16:15:56 Filed Date: 08/7/2020 Kansas Corporation Commission /s/ Lynn M. Retz

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

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In the matter of the failure of Tailwater, Inc.) ("Operator") to comply with K.A.R. 82-3-407 at) the Finkenbinder #6-IW in Anderson County, Kansas.

Docket No. 20-CONS-3234-CPEN

CONSERVATION DIVISION

License No. 32461

PRE-FILED REBUTTAL TESTIMONY

OF

KEITH CARSWELL

ON BEHALF OF COMMISSION STAFF

AUGUST 7, 2020

1 Q. Are you the same Keith Carswell who filed direct testimony in this docket?

2 A. Yes.

3 Q. What is the purpose of your rebuttal testimony in this matter?

A. The purpose of my testimony is to discuss certain comments contained in the testimony of
Mr. Christian Martin, given on behalf of Tailwater, Inc. (Operator) in Docket No. 20-CONS3234-CPEN.

Q. In his testimony, Mr. Martin indicates he was unable to plug the Finkenbinder #6-IW (Subject Well) until May 20, 2020 without causing damage to the lease due to weatherrelated lease conditions. How do you respond?

A. As noted in the Penalty Order, the Subject Well failed its MIT on November 8, 2019. Based
 on that failure, Operator had until February 6, 2020, to bring the well into compliance by
 either repairing the well so that it could successfully pass a MIT or plugging the well.

13 In his testimony, Mr. Martin states that he was unable to plug the Subject Well until May 20, 2020, because of the amount of rain and snow that fell between November and May that 14 made the lease inaccessible. However, I have attached two pictures, dated February 14, 2020, 15 and April 13, 2020, to my testimony as *Exhibit KC-3*.¹ These pictures clearly show my vehicle 16 parked next to the Subject Well without causing any damage to the ground around the well. 17 These pictures also verify that the field surrounding the Subject Well had already been 18 harvested, indicating that Mr. Martin should have been able to plug the well by the stated 19 deadline without causing significant surface damage. It is also important to note that a 20 21 reasonable and prudent operator would have established roads or paths of ingress and egress to all of their wells in order to properly maintain them. 22

¹ Exhibit KC-1 and Exhibit KC-2 were filed as part of my pre-filed Direct Testimony.

1	Q.	Do you have any precipitation records for the area of the Subject Well during the 90-
2		day time period Operator had to bring the well into compliance?
3	A.	Yes, I researched precipitation amounts as recorded at the City of Garnett airport for the 90-
4		day period from November 8, 2019 through February 6, 2020. The precipitation for November
5		2019 was 1.35 inches, the precipitation for December 2019 was 1.78 inches, the precipitation
6		for January 2020 was 2.47 inches, and through February 6, 2020 was 0.13 inches. The
7		precipitation records are attached at <i>Exhibit KC-4</i> . The average precipitation for November
8		is 2.6 inches, the average precipitation for December is 1.8 inches, the average precipitation
9		for January is 1.2 inches, and the average precipitation for February is 1.6 inches.
10	Q.	Do you think the operator could have plugged or repaired and retested the Subject Well
11		during the 90-day timeframe?
12	A.	Absolutely. We have records of other operators testing, plugging, and drilling new wells in
13		Anderson County during this timeframe. Twelve (12) wells were plugged, eighteen (18) wells
14		were tested, and eight (8) wells were drilled. Additionally, when including the area
15		surrounding the Subject Well location, there were approximately 88 wells plugged and
16		approximately 281 MITs performed on wells during that period. I have attached maps noting
17		the locations of those wells in the East-Central part of District #3 as <i>Exhibit KC-5</i> .
18	Q.	On page 5, line 23 through line 27, of his testimony Mr. Martin states, the Subject Well
19		pressured up to 500 pounds, but that it wouldn't maintain that pressure, and slowly bled
20		off, meaning there was a leak in the casing somewhere. How do you respond?
21	A.	I was on location when the MIT was conducted. The contractor could not get the pressure of
22		the well over 110 pounds. As soon as the contractor would quit pumping into the Subject
23		Well, the well pressure would fall back to 60 pounds. The contractor tried to pressure up the

- 1 well for nearly an hour before finally giving up and failing the MIT on the Subject Well. The 2 required pressure to maintain to pass the MIT was 269 pounds. I have attached a copy of the failed MIT as *Exhibit KC-6*. 3 O. Page 5 of his testimony, Mr. Martin notes that, while he was not aware of the option at 4 5 the time, he now understands that when a well fails an MIT, one option an operator has 6 is to isolate the leak to demonstrate that the well will not pose a threat to fresh or usable 7 water resources, or endanger correlative rights. Did Operator ever isolate the leak and demonstrate that the Subject Well did not pose a threat to fresh or usable water 8 resources, or endanger correlative rights? 9 A. No. Additionally, a failed MIT does not verify whether a leak is isolated or poses a threat to 10 usable water. 11 **Q.** Does shutting in a well isolate a leak? 12 13 A. No. Shutting in a well does not isolate the leak. If the casing failure is above the static water level in the well then usable water could migrate downward into the production zone causing 14 waste and loss of the usable water. If the static water level is above the casing failure produced 15 fluids could commingle with fresh water zones. 16 **O.** On page 5, line 12, Mr. Martin states that they finally plugged the Subject Well on May 17 18 20, 2020 but that District Staff was not present for the plugging. Is that an accurate
- statement? 19

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A. No. Operator did plug the well at about 1:00 p.m. on May 20, 2020. However, I was there, and witnessed 100 percent of the plugging of the Subject Well. I am uncertain why Mr. Martin states no one from the District #3 Office showed up to observe, since he was not on location 22

during the plugging of the Subject Well. The plugging is written down in my day book notes, 23

4

5	Q.	Please summarize your recommendations.
4		operating Tailwater's pulling unit to plug the Subject Well, while I was on location.
3		the plugging of the Subject Well. I visited with Dan Hutchison and his helper, who were
2		that plugging report as <i>Exhibit KC-7</i> . Hurricane Well Service can also verify that I witnessed
1		and I also stated on the CP2/3 plugging report that I witnessed the plugging. I have attached

A. The Penalty Order should be affirmed. The Operator failed to plug or conduct a successful
MIT on the Subject Well by the required February 6, 2020 deadline. The penalty assessed for
the well is reasonable and should be upheld. The facts support the Commission's assessment
of the \$1,000 penalty.

10 Q. Does this conclude your rebuttal testimony?

11 A. Yes.





Exhibit KC-3 Page 2 of 2

National Oceanic & Atmospheric Administration

National Environmental Satellite, Data, and Information Service

Current Location: Elev: 998 ft. Lat: 38.2800° N Lon: -95.2177° W Station: GARNETT 1 E, KS US USC00143008

Record of Climatological Observations These data are quality controlled and may not

Generated on 07/31/2020

National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

be identical to the original observations.

Observation Time Temperature: 0800 Observation Time Precipitation: 0800

			Temperature (F			Precipitation					Evaporation Soil Temperature (F)							
			24 Hrs. Ending at Observation Time		At O	24 Ho	ur Amou Observa	unts Ending tion Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b s e v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	11	01																
2019	11	02																
2019	11	03																
2019	11	04																
2019	11	05																
2019	11	06																
2019	11	07	66	33	33	0.00		0.0		0.0								
2019	11	08	38	16	24	0.00		0.0		0.0								
2019	11	09	45	14		0.00		0.0		0.0								
2019	11	10	65	36		0.00		0.0		0.0								
2019	11	11	65	32	32	0.20		Т		0.0								
2019	11	12	33	8	9	Т		Т		0.0								
2019	11	13	27	7	27	0.00		0.0		0.0								
2019	11	14	42	20	34	0.00		0.0		0.0								
2019	11	15	47	23	32	0.00		0.0		0.0								
2019	11	16	55	20		0.00		0.0		0.0								
2019	11	17	58	32		0.00		0.0		0.0								
2019	11	18	55	33	44	0.00		0.0		0.0								
2019	11	19	64	34	40	0.00		0.0		0.0								
2019	11	20	66	36	53	0.00		0.0		0.0								
2019	11	21	66	45	45	0.70		0.0		0.0								
2019	11	22		34	34	0.00		0.0		0.0								
2019	11	23	35	31		Т		0.0		0.0								
2019	11	24	45	31		0.00		0.0		0.0								
2019	11	25	63	32	43	0.00		0.0		0.0								
2019	11	26	56	38	41	0.00		0.0		0.0								
2019	11	27	61	34	34	0.00		0.0		0.0								
2019	11	28	42	28				0.0		0.0								
2019	11	29	36	31		0.30		0.0		0.0								
2019	11	30	44	36		0.15		0.0		0.0								
	•	Summary		29		1.35		0.0										
		,	•	•	•			•										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

National Oceanic & Atmospheric Administration

National Environmental Satellite, Data, and Information Service

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ervation Time Precipitation: 0800

			1	emperature	(F)	Precipitation				0110170172020	Evaporation		Soil Temperature (F)					
	M o n t h		24 Hrs. Ending at Observation Time		At	24 Ho	ur Amo	unts Ending tion Time		At Obs. Time			4 in. Depth				8 in. Depth	
Y e a r		D a y	Max.	Max. Min.	b s r v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	12	01		35		0.00		0.0		0.0								
2019	12	02	36	26	26	0.00		0.0		0.0								
2019	12	03	45	22	32	0.00		0.0		0.0								
2019	12	04	57	30	32	0.00		0.0		0.0								
2019	12	05	59	28	41	0.00		0.0		0.0								
2019	12	06	64	31	33	0.00		0.0		0.0								
2019	12	07	42	20		0.00		0.0		0.0								
2019	12	08	51	19		0.00		0.0		0.0								
2019	12	09	52	42	45	0.00		0.0		0.0								
2019	12	10	48	16	17	0.00		0.0		0.0								
2019	12	11	38	16	29	0.00		0.0		0.0								
2019	12	12	50	26	41	0.00		0.0		0.0								
2019	12	13	53	38	38	0.00		0.0		0.0								
2019	12	14	56	33	33	0.00		0.0		0.0								
2019	12	15	36	24	24	Т		0.0		0.0								
2019	12	16	25	20	20	0.28		2.8		3.0								
2019	12	17	23	16	17	Т		0.0										
2019	12	18	31	15	15	0.00		0.0										
2019	12	19	39	11	34	0.00		0.0										
2019	12	20	53	32	39	0.00		0.0		0.0								
2019	12	21	51	32	35	0.00		0.0		0.0								
2019	12	22	50	32	32	0.00		0.0		0.0								
2019	12	23	50	31	34	0.00		0.0		0.0								
2019	12	24	58	33	43	0.00		0.0		0.0								
2019	12	25	64	41	50	0.00		0.0		0.0								
2019	12	26	66	48	48	0.00		0.0		0.0								
2019	12	27	54	27	30	0.00		0.0		0.0								
2019	12	28	54	25	54	0.00		0.0		0.0								
2019	12	29	59	46	46	1.48		0.0		0.0								
2019	12	30	46	30	34	0.02		0.0		0.0								
2019	12	31	37	30	30	0.00		0.0		0.0								
		Summary	48	28		1.78		2.8										

Empty, or blank, cells indicate that a data observation was not reported.

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	Temperature (F)			Precipitation	1		Evapo	ration	Soil Temperature (F)							
			24 Hrs. E Observa	Ending at tion Time	At O	24 Ho (ur Amou Observat	ints Ending	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b s e v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	01	01	44	27	33	0.00		0.0		0.0								
2020	01	02	55	30	38	0.00		0.0		0.0								
2020	01	03	54	34	34	0.00		0.0		0.0								
2020	01	04	50	25	25	0.00		0.0		0.0								
2020	01	05	45	25	32	0.00		0.0		0.0								
2020	01	06	54	20	29	0.00		0.0		0.0								
2020	01	07	45	20	31	0.00		0.0		0.0								
2020	01	08	54	27	32	0.00		0.0		0.0								
2020	01	09	59	28	54	0.00		0.0		0.0								
2020	01	10	65	44	47	0.21		0.0		0.0								
2020	01	11	49	16	16	0.63		0.0		0.0								
2020	01	12	21	13	21	0.50		1.3		1.0								
2020	01	13	32	18	27	0.00		0.0										
2020	01	14	53	17	45	0.00		0.0		0.0								
2020	01	15	51	43	51	0.02		0.0		0.0								
2020	01	16	52	14	14	0.00		0.0		0.0								
2020	01	17	31	13	31	0.17		0.0		0.0								
2020	01	18	48	27	30	0.40		0.0		0.0								
2020	01	19	43	16	16	0.00		0.0		0.0								
2020	01	20	25	10	13	0.00		0.0		0.0								
2020	01	21	24	7	10	0.00		0.0		0.0								
2020	01	22	36	6	33	0.08		0.0		0.0								
2020	01	23	35	31	35	0.08		0.0		0.0								
2020	01	24	38	30	30	0.20		1.0		1.0								
2020	01	25	33	23	24	0.08		1.0		2.0								
2020	01	26	36	20	27	0.00		0.0										
2020	01	27	49	26	32	0.00		0.0		0.0								
2020	01	28	46	29	31	0.00		0.0		0.0								
2020	01	29	33	28	28	0.10		1.0		1.0								
2020	01	30	34	24	24	0.00		0.0		0.0								
2020	01	31	41	22	33	0.00		0.0		0.0								
		Summary	43	23		2.47		4.3										

Empty, or blank, cells indicate that a data observation was not reported.

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Observation Time Temperature: 0800 Observation Time Precipitation: 0800

			Temperature (F)			Precipitation				Evaporation Soil Temperature (F)								
			24 Hrs. E Observa	Ending at tion Time	At O b	24 Ho	our Amou Observat	ints Ending	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b se r v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	02	01			23	0.00		0.0		0.0								
2020	02	02	56	22	43	0.00		0.0		0.0								
2020	02	03	72	38	54	0.00		0.0		0.0								
2020	02	04				0.12		0.2		Т								
2020	02	05	33	25	26	0.01		Т		Т								
2020	02	06	28	17	17	0.00		0.0										
2020	02	07	38	14	25	0.00		0.0										
2020	02	08																
2020	02	09																
2020	02	10																
2020	02	11																
2020	02	12																
2020	02	13																
2020	02	14																
2020	02	15																
2020	02	16																
2020	02	17																
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2020	02	19																
2020	02	20																
2020	02	21																
2020	02	22																
2020	02	23																
2020	02	24																
2020	02	25																
2020	02	26																
2020	02	27																
2020	02	28																
2020	02	29																
		Summary	48	24		0.13		0.2										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

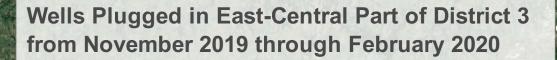
"s" This data value failed one of NCDC's quality control tests.

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Exhibit KC-4 Page 4 of 4

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.



Legend

- Well Plugged in November
- Well Plugged in December
- Well Plugged in February
- Well Plugged in January

Finkenbinder Lease

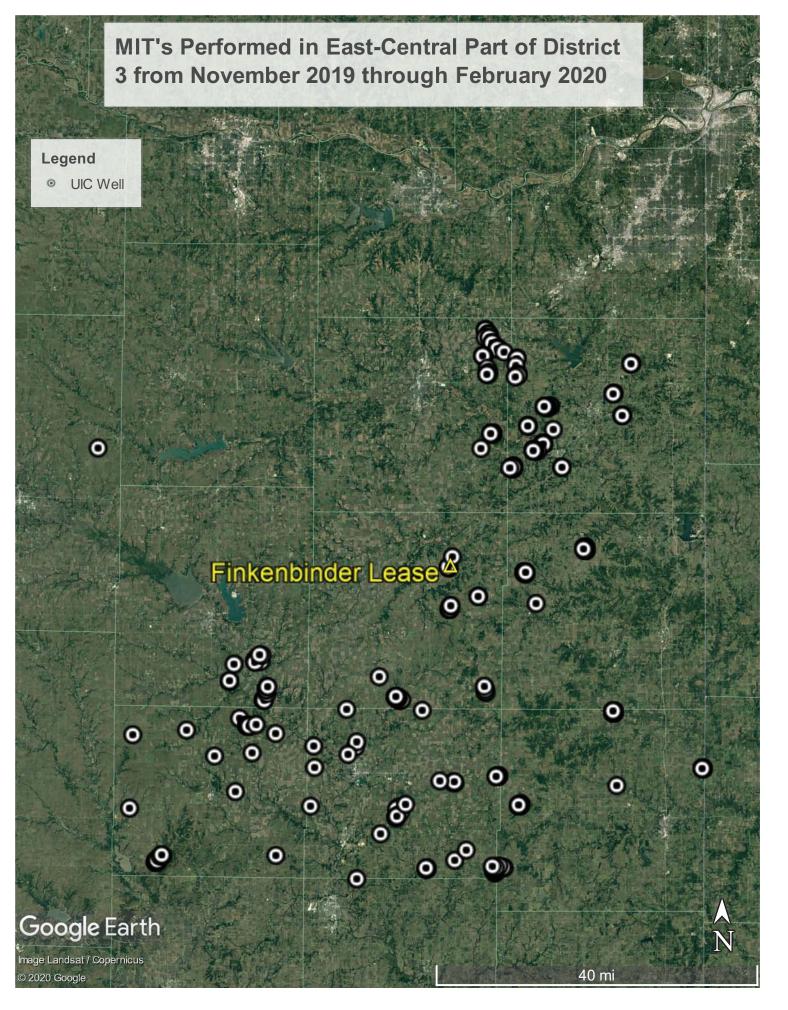
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Google Earth 💿

© 2020 Google Image Landsat / Copernicus

20 mi



CASING MECHANICAL INTEGRITY TEST		Desket # E 20 207	
		Docket # E-30,287	
Disposal: Enhanced Recovery: Repressuring: XX	SW NE SE	Sec 21 T 20s R 20 E/ W	
OW/OP Flood:	1609	Feet from South Section Line	
5 Year Test Tertiary:	682	Feet from East Section Line	
Date injection started: API# 15- 003-24,743 0050		nkenbinder Well 6-1W Anderson	RECEIVED
Operator Name & Address	Operator License #	32401	CC DIST # 3
Tailwater Inc	Contact Person	Chris Martin N	TV 14 2019
6421 Avondale Dr. Ste.212	Phone #	405-810-0900 CF	ANUTE, KS
Oklahoma City, Oklahoma 73116	financia de la composición de la composicinde la composición de la composición de la composición de la	a de la construcción de la constru	
Max. Auth. Injection Press. 500 psl.; Max. I If Dual Completion - Injection above production:	Injec	bl/d; ction below production:	
Conductor Surface		Liner Tubing	
Size 7.00" Set at 46.9'	2 7/8"	Size: Set at:	 .
Cement Top Circ	Circ	Type:	_
" Bottom 46.9' DV/Perf T	747.0' D (& plug back):	757.0 <i>ft.</i> depth	×
Packer Type Size	Set At:	ft.	
Zone of Injection 706.0 ft to.	712.0 ft Perfor	ate or Open Hole Perforate	2 3 41 (11)
Time: Start 20 min. 40 min. Pressures: Definition of the tested zone is shut in with	Set up 2 Set up 3 - Tubing Annulus [System Pres. During Test: Annular Pres. During Test: Fluid Loss During Test: SCADN NOV 19 uld Depression Test	
Test Date: 11/8/2019 Using	Midwest Survey	s, Inc. Company Equipment	
The Operator hereby certifies that the zone betwee was the zone tested		<u>ft.</u> and <u>706.0</u> <u>Contractor</u> Title	
The results were Satisfactory Margin	nal Not Sa	tisfactory X	•
State Agent Mein Carsial Ti	the ECRS	Nitness: Yes \underline{X} No	
Remarks: Fluid Loas 81 fco Is there Chemical Sealant or a Mechanical If YES please describe in remarks	Casing patch in the	706-81=625x.43=269 annular space? (Y/N)	
Risin Gomputer Update	DHE/T:	Dist.Office NOV 1'9	2019
GPS Lat_ 38,29256 GI	ps Long - 95, 1	C1665 KCC Form U-7	

;

Fail

STATE CORPORATION COMMISSION CONSERVATION DIVISION - PLUGGING 266 N. Main St., Ste. 220 Wichita, KS 67202-1513	Spot: <u>SESWNESE</u> Sec/ <u>1609</u> feet from <u>S</u> Section Line, Lease Name: <u>FINKENBINDER</u> County: <u>ANDERSON</u>	Twnshp/Rge: <u>21-20S-20E</u> <u>682</u> feet from <u>E</u> Section Line Well #: <u>6-1W</u> Total Vertical Depth: <u>757</u> feet
Operator License No.: <u>32461</u> Op Name: <u>TAILWATER, INC.</u> Address: <u>6421 AVONDALE DR STE 212</u> <u>OKLAHOMA CITY, OK 73116</u>	<u>String Size Depth (II) Pull</u> PROD 2.875 747 SURF 7 46	ed (ft) <u>Comments</u> 112 SX 10 SX
		e to Plug: 05/20/2020 1:30 PM
	e: <u>HURRICANE SERVICES, INC.</u> Company:	Phone: (405) 641-6538
Proposal Revd. from: DAN HUTCHINSON Proposed Circulate cement from bottom to top. Plugging Method:		
Plugging Proposal Received By: Date/Time Plugging Completed: <u>05/20/2020 2:00 l</u>	WitnessType: COMPLETI PM KCC Agent: KEITH CAI	
Actual Plugging Report:		Perfs:
		RECEIVED KCC DIST # 3 MAY 2 2 2020 CHANUTE, KS
Remarks: <u>PLUGGED DUE TO FAILED MIT</u>		
Plugged through: <u>TBG</u>		
District: <u>03</u>	Signed Keith Carswell	· · · · · · · · · · · · · · · · · · ·
		CHNICIAN)
		Form CP-2/3
	CCL	INVOICED
		MAY 2 6 2020
		Exhibit KC-7 Page 1 of 1

API Well Number: <u>15-003-24743-00-00</u>

TO:

CERTIFICATE OF SERVICE

20-CONS-3234-CPEN

I, the undersigned, certify that a true copy of the attached Prefiled Rebuttal Testimony of Keith Carswell has been served to the following by means of electronic service on <u>August 7, 2020</u>.

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/S/ Paula J. Murray Paula J. Murray