THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

In the Matter of the Application of TDR)	Docket No.: 20-CONS-3043-CUIC
Construction, Inc. for a permit to authorize the)	
enhanced recovery of saltwater into the)	CONSERVATION DIVISION
Moldenhauer #W-42 well, located in Franklin)	
County, Kansas.)	License No.: 32218
)	
In the Matter of the Application of TDR)	Docket No.: 20-CONS-3079-CUIC
Construction, Inc. for a permit to authorize the)	
enhanced recovery of saltwater into the)	CONSERVATION DIVISION
Moldenhauer #30 and Moldenhauer #45 wells,)	
located in Franklin County, Kansas.)	License No.: 32218

PRE-FILED TESTIMONY

OF

RENE STUCKY

DECEMBER 9, 2019

- 1 Q. What is your name and business address?
- 2 A. Rene Stucky, 266 North Main Suite 220, Wichita, Kansas 67202.
- 3 Q. By whom are you employed and in what capacity?
- 4 A. I am employed by the Conservation Division of the Kansas Corporation Commission (KCC
- or Commission), as Supervisor of the Underground Injection Control (UIC) Department and
- 6 the Production Department.
- 7 Q. Would you please briefly describe your educational background and work experience?
- 8 A. I earned a Bachelor's degree in Geology from Wichita State University in Wichita, Kansas.
- 9 After that I worked as a Petroleum Geologist in the industry for over 30 years. In 2006, I
- began my employment with the KCC as an Environmental Scientist in the UIC Department,
- where I reviewed and processed injection applications. In 2014, I was promoted to
- Supervisor of the Production Department and merged to supervise the UIC department in
- 13 2015.
- 14 Q. Have you previously testified before this Commission?
- 15 A. Yes, I have presented both pre-filed and live testimony in numerous Conservation Division
- dockets at the Commission.
- 17 Q. What duties does your position with the Conservation Division involve?
- 18 A. I manage the Conservation Division's UIC and Production Departments.
- 19 Q. What is the purpose of your testimony in this matter?
- 20 A. The purpose of my testimony is to address the concerns raised by the Protesters in this
- 21 matter, and to support Staff's recommendation that the Commission approve the
- 22 Applications for injection filed by TDR Construction, Inc (TDR or Operator).

- 1 Q. How are you familiar with these dockets?
- 2 A. I have thoroughly reviewed these applications and all filings in the dockets.
- 3 Q. Have you reviewed Jake Eastes' pre-filed testimony?
- 4 A. Yes.
- 5 Q. Do you agree with Mr. Eastes' assessment that Operator's applications meet all KCC
- 6 requirements?
- 7 A. Yes. Mr. Eastes followed proper commission procedure as he conducted a thorough review
- 8 of the applications, and I agree with his professional assessment.
- 9 Q. Are you familiar with the pre-filed testimony presented by the Protesters in this
- 10 matter?
- 11 A. Yes
- 12 Q. What is the concern voiced by the Protesters?
- 13 A. The Protesters, Polly Shteamer and Scott Yeargain, have filed together on these two
- dockets. Their concern is that these wells will eventually pollute the water sources in this
- part of Franklin County because of the possibility of contamination through abandoned
- wells. Further, they state in their testimony this particular lease has a high risk of becoming
- abandoned because it is not economical to produce.
- 18 Q. Is it part of the application review process to determine the economics of an enhanced
- 19 **recovery project?**
- 20 A. No it is not. There would be too many variables for Commission Staff to make an accurate
- analysis.

- 1 Q. Would a simple decline curve give you a good estimate of the economical limit of an oil
- 2 and gas lease as shown in the Protesters' testimony?
- 3 A. No, it is very difficult to project an economical limit even with an accurate reserve
- 4 calculation. Keep in mind that the price of oil has varied from \$13 to \$100+ over the last
- 5 ten years and currently is listed around \$40 a barrel. Projecting oil prices five years into the
- 6 future is quite difficult.
- 7 O. Will the decline curve at least give an idea of the remaining reserves?
- 8 A. No. The decline curve reserve calculation, as used by the Protesters, relies on the principal
- 9 that whatever controls the trend of the curve will continue to control it in the future. This is
- a somewhat effective way to calculate primary reserves, but does not work on the proposed
- enhanced oil recovery operations in these two dockets.
- 12 Q. What are some of the reasons why a decline curve is not as effective with enhanced oil
- 13 recovery operations?
- 14 A. There could be variations in injection placement, the number of injection wells, the rates of
- injection, and the pressure used on injection. Each of these can have an effect on the rate of
- production and thus the decline rate. Enhanced recovery reserves are calculated by using the
- amount of oil in place, the amount of oil already produced, and the efficiency percentage to
- move the oil through the reservoir. The reservoir qualities of porosity and permeability,
- along with total thickness of the reservoir, are not readily available to calculate the reserves
- for the project.
- 21 **Q** Please explain how the reasons presented above apply in this situation?
- 22 A. A good example of the effect of these variables on a decline curve is present in this
- waterflood, which was issued back in 1976. Due to the price of oil and various operators

using different practices, no steady decline curve has been established as can be seen in **RS-Exhibit E**.¹ Furthermore, this lease has only recently been taken over by the current operator. As acknowledged by Protesters in their testimony, the projected production for 2019 is greater than 60% higher than 2018 based on the daily average from production through August 2019, the last reported month. There has been no significant change in the number of wells for the last few years. This is a strong indication that the flood is now being operated effectively. A decline curve on this lease would be nearly impossible to accurately calculate until a steady production decline is established.

Q. Should the Protesters also be concerned about the possibility of improperly plugged or abandoned wells currently on the Moldenhauer lease?

A. I conducted a search of the records in the Commission's database and found eight wells that have been previously plugged on the Moldenhauer lease. All eight wells have plugging reports showing the wells are sufficiently plugged according to Commission plugging regulations as seen in RS-Exhibit F. Furthermore, the current Operator has plugged an additional eight wells since taking over the lease. It is my understanding based on conversations with the District #3 Geologist that Operator is also in the process of running Cement Bond logs on four other wells on the Moldenhauer lease to determine the proper plugging procedure to use. In their pre-filed testimony the Protesters listed 28 API numbers that had intents-to-drill filed but no corresponding completion report. All but one of the expired intents-to-drill were acquired by the most recent previous owner of the lease and none of them have been drilled. Twenty of those intents-to-drill are located on the Moldenhauer lease and have expired. The other eight intents-to-drill are actually located in

¹ Exhibits A through D are located in the pre-filed testimony made by Jake Eastes.

- 1 Section 32 and are expired intents-to-drill by the same operator. Commission databases
- 2 indicate none of the wells were drilled.

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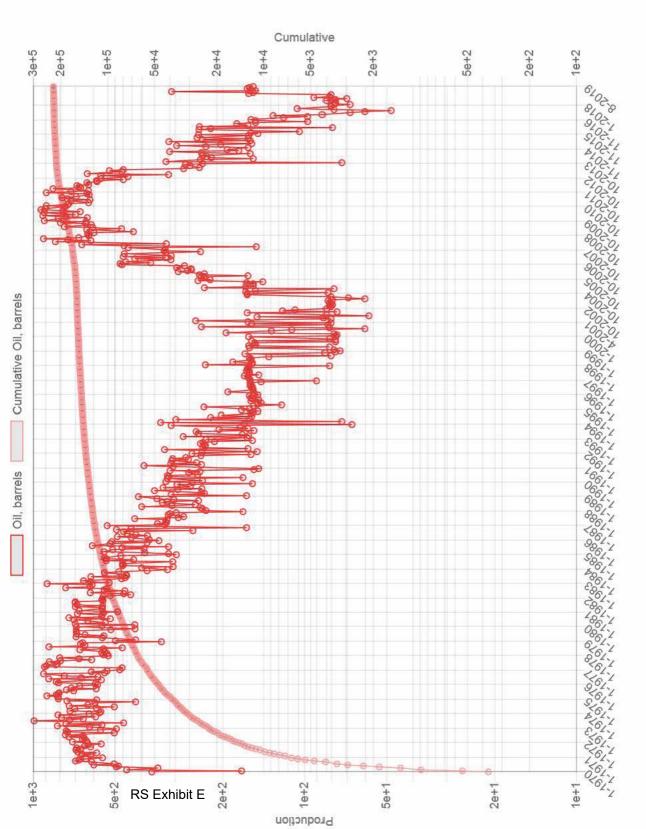
- 3 Q. Is there any information that confirms oil and gas operations on the Moldenhauer
- 4 lease affect the water quality of Rural Water District #6?
 - A. No, there is no information that confirms oil and gas operations on the Moldenhauer lease have affected the water quality of Rural Water District #6. However, as stated by the Protesters, there are multiple variables present in the area of the Moldenhauer lease. The Kansas City geological formation is at the surface in this area. This formation consists of thin zones of limestone, sandstone, shale, as well as, thin layers of coal seams. Water cutting through these zones could be picking up some of the chemicals being reported. With over 100 years of oil production and some of the early practices of the industry, it is definitely possible that some contaminants still exist in some areas. These contaminants and their respective environmental impacts should be diminishing over time. This could be shown in the examples provided in the Protesters' testimony as the 2018 levels are slightly less than 2016, possibly showing a slow restoration. The 2017 sample appears to be suspect because of the vastly different readings. Obviously more data would be necessary to draw any conclusion, but as is stated, there is no information that confirms oil and gas operations on
 - Q. Based on your review of this application, do you believe granting these Applications will cause waste?

the Moldenhauer lease have affected the water quality of Rural Water District #6.

21 A. No. Granting these Applications will prevent waste from occurring.

² "Oil and gas have been produced commercially in Franklin County since 1904." Kansas Geological Survey, Geology of Franklin County, Kansas. http://www.kgs.ku.edu/General/Geology/Franklin/05_econ.html.

- 1 Q. Based on your review of the applications, do you believe granting these Applications
- will violate any of the Protesters' correlative rights?
- 3 A. No.
- 4 Q. Based on your review of the applications, do you have any concerns regarding the
- 5 mechanical integrity of the subject wells?
- 6 A. No. These wells will be completed according to Commission requirements and will be
- 7 subject to a Mechanical Integrity Test prior to approval of the Application.
- 8 Q. Based on your review of the applications, do you believe granting these Applications
- 9 will pollute the water resources of the State of Kansas?
- 10 A. No. If the subject wells are constructed as proposed, the injection zone will be adequately
- isolated to protect fresh and usable water.
- 12 Q. Do you have a recommendation regarding whether to approve Operator's
- 13 **applications?**
- 14 A. Yes. The applications comply with all the regulations and rules of the Commission and I
- recommend approval.
- Q. Does this conclude your testimony as of this date, December 9, 2019?
- 17 A. Yes.



STATE OF KANSAS STATE CORPORATION COMMISSION 200 Colorado Derby Bldg. Wichita, Kansas 67202

WELL PLUGGING RECORD

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RS-Exhibit F Page 1 of 12

STATE OF KANSAS STATE CORPORATION COMMISSION

Give	All Information Completely
Make	Required Affidavit
Mail	or Deliver Report to
	Conservation Division
	State Corporation Comm.
	245 North Water

WELL PLUGGING RECORD

Make Required Affidavit	Fra	nklin	Cour	ty. Sec.	29 Twp. 1	5 Rge, 21	E/W
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STATE OF KANSAS STATE CORFORATION COMMISSION

Give All information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission

WELL PLUGGING RECORD

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RS-Exhibit F Page 3 of 12

STATE OF KANSAS STATE CORPORATION COMMISSION

Give \$II Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division

WELL PLUGGING RECORD

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RS-Exhibit F Page 5 of 12

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Notary Public.

STATE OF EAREAS
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WELL PLUGGING RECORD

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ame of Plugging	Contractor	E. R. Greer						
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				(employee of	owner) or (own	er or operator)	of the above-desc	cribed
ell, being first du	ly swom on oath	, says: That I have kn	nowledge of th	e facts, statem	ents, and matter	rs herein contai	ned and the log	of the
bove-described we	ell as filed and th	at the same are true a	nd correct. So	help me God		0		
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My commission expire							Trough E GE	*****
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STATE NOTARY PUBLIC FRANKLIN COUNTY, KANSAS
My Appt. Exp. _//-23-83

RECEIVED
STATE CORPORATION COMMISSION

JiiN 2 9 1981

CONSERVATION DIVISION Wichita. Kansas

STATE OF KANSAS STATE CORPORATION COMMISSION 130 S. Market, Room 2078 Wichita, KS 67202

WELL PLUGGING RECORD K-A-R--62-3-117

API NUMBER 15-069-20322-0000 LEASE NAME Molden houser WELL NUMBER WS 330 Ft. from S Section Line 4465 Ft. from E Section Line SEC. 29 TWP. 15 RGE. 21 (E) or (M) COUNTY Franklin Date Well Completed 1977 Plugging Commenced 20 Mar of (date) (XCC District Agent's Name). (XCC District Agent's Name). SING RECORD Out in Pulled out 1977 1577 1577 1577 1577 1577 1577 1584 1585 1586 15	
330 Ft. from S Section Line 4455 Ft. from E Section Line SEC. 29 TWP. 15 RGE. 21 (E) or (M) COUNTY Franklin Date Well Completed 1977 Plugging Commenced 20 Mar of (date) (XCC District Agent's Name). (XCC District Agent's Name). SING RECORD Out in Pulled out 1977 1978 19	
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330 Ft. from S Section Line 4465 Ft. from E Section Line SEC. 29 TWP. 15 RGE. 21 (E) or (M) COUNTY Franklin Date Well Completed 1977 Plugging Commenced 20 Mar of (date) (XCC District Agent's Name). Bottom 744 T.D. 774 S. ING RECORD ut in Pulled out 1977 1977 1 Indicating where the mud fiuld to the hole. If cament or other pide, from feet to feet each security and fire to feet each security.	
##65 Ft. from E Section Line SEC. 29 TWP. 15 RGE. 21 (E) or (M) COUNTY Franklin Date Well Completed 1977 Plugging Commenced 20 Mar & (date) (KCC District Agent's Name). Bottom 744 T.D. 774 S. ING RECORD Ut in Pulled out 1977 1977 Indicating where the mud fiuld to the hole. If coment or other pile, from feet to feet each sounds. Long 1. Pulled 1. Filled to sarface.	
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EPR 2.7 2001	
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TYPE OR PRINT

	28	CE: Fill d return ffice wit	to C	oas. Div.		Ft. from S	Section Line
				·	4455	Ft. from E	Section Line
LEASE OPERATOR	John T. Casas	dy			SEC. 29	TWP. /S RGE.	21 (E) or (M)
ADDRESS PO BOX	63, Wellsville, KS	66092			COUNTY	Franklin	
PHONE\$(285) <u> පි</u> සි3	2670 OPERATORS	LICENSE N	107	115	Date We	ii Completed	1977
Character of Well	Input	•			Pluggin	g Commenced _	20 Mar 01
(OII, Gas, D&A, S	WD, Input, Water S	upply Wei	11)		Pluggin	g Completed g	20 Mar 01
The plugging prop	osal was approved	on <u>40</u>	an 200	21			(date)
by DP Willie	m S				(x)	C District Ag	jent's Name).
Is ACO-1 filed?	No If not,	. Is well	log a	ttached?_	ylo	····	
	on Squirrel					10= 744 T.). <u>774</u>
	ickness of all wat						
OIL, GAS OR WATE	R RECORDS				CASING RECO	DRD	
Formation	Content	From	To	Size	Put In	Pulled out	
Squire	<u> </u>	734	20	6/14	1977		
			-	·	-	-	
were used, stat	ethod or methods of the character of 1714, 13 seeks	of same	and de	pth pla	ced, from	feet to	feet each set
Name of Plugging	Contractor Mc	Mullin Wa	ell Ser	uice		_License No	6084
Address 4397	K-68 Hwy,	Wallsuille	ks	66092	······································		RECEIVED
	SPONSIBLE FOR PLUG		-	John T.			
STATE OF	ansas	COUNTY OF	Fran	klin		,55.	EPR 2 / 2001
statements, and	Tahu Casady well, being first matters herein c e and correct, so	benistno	and the		s: That I f the above	have knowledge odescribed we	
	SUBSCRIBED AND SW	ORN TO be	ofor <u>o</u>	bev	23rd day	a. April	. 200 200
					No	tary Public	

My Commission Expires: 12-27-03

NOTARY PUBLIC State of Kansas BEVERLY A. McAULEY My Appt. Exp. 12-27-03

Form CP-4 sed 05-88

RS-Exhibit F Page 7 of 12

STATE OF KANSAS STATE CORPORATION COMMISSION 130 S. Market, Room 2078 67202 Wichita, KS

Character of Well Input

OIL. GAS OR WATER RECORDS

LEASE OPERATOR John T. Casady

PO Box 63 Vellaville, KS

(OII, Gas, D&A, SWD, input, Water Supply Well)

PHONE 1 (785) 883-2670 OPERATORS LICENSE NO. 7115

WELL PLUGGING RECORD

K-A-R--62-3-117

office within 30 days.

66092

TYPE OR PRINT	W
NOTICE: Fill out completely	
and return to Coms. Div.	•

API NUMBER 15-069-20323-0000 LEASE NAME Molden houser

AETT	NUMBER	WG		
رح ح.ك. د	5 +	4===	5 500+100	11

3795 Ft. from E Section Line

SEC. 29 TWP. 15 RGE. 21 (E) or W)

COUNTY Frenklin Date Well Completed __1977

Plugging Commenced 21 Mer of

Plugging Completed 21 Mar or

The plugging proposal was approved on ____4 Sam or (date)

CASING RECORD

by D.P. Williams (XCC District Agent's Name).

is ACO-1 filed? No If not, is well log attached? No Depth to Top 730 Bottom 742 T.D. 767 Producing Formation Squire

Show depth and thickness of all water, oil and gas formations.

	•						
Formation	Content	From	To	Size	Put in	Pulled out	
Squirrel	oil	730	742	2"	1977		
7		.0	20	6/8	1977		••

Describe in detail the manner in which the well was plugged, indicating where the mud fluid wa placed and the method or methods used in introducing it into the hole. If cement or other plug were used, state the character of same and depth placed, from __feet to__ pipe run to 500'. Mixed 8 sacks protland coment & pumped through i'. Palled i' & filled to wilcoment.

Name of	Plugging Contractor_	Mr Mullin Well Scruice	License No. 6084
Address	4397 K-68 Hwy	Wellswille K5 66092	RECEIVED RECEIVED
_	7		STATE CURPORATION COMMISSION

Franklin COUNTY OF

John Casady (Employee of Operator) CONSTINATIONS above-described well, being first duly sworn on oath, says: That I have knowledge of the Markasts statements, and matters herein contained and the log of the above-described well as filed tha the same are true and correct, so help me God.

(Address) (Po Box No.

SUBSCRIBED AND SWORN TO before me this 23rd day of

1 200 rek لحفييو

Public Notary My Commission Expires: 12-27-03

NOTARY PUBLIC State of Kansas BEVERLY A. McAULEY 12-27-03 My Appt. Exp.

Form CP-4

RS-Exhibit F Page 8 of 12

STATE OF KANSAS STATE CORPORATION COMMISSION Ma Ma Na Pr Sh w

WELL PLUGGING RECORD

Give All Information Completely	مسو ا			20 m	FC 70 - 70 - 70 - 70 - 70 - 70 - 70 - 70
Make Required Affidavit	Franklin				55 Rge. 21 E/W
Mail or Deliver Report to		"NE/CNW\sw\		ge from 11	nes
Conservation Division State Corporation Comm.	440 EL Lease Owner	660' SL/SU			 .
245 North Water	Lease Name			We	211 No. 7
Wichita, KS 67202		Modenhauer			
Wienieu, No Orboz	Office Addre	ess <u>Box</u>	63 h	elsville	<u>KS</u>
		f Well (Comp	leted as O	il, Gas or	Dry Hole)
		Dil Well	., .		
	Date Well co	Δ		·	<u>1964</u>
		for pluggin		/ Aug	1980
		for pluggin	g approved	4 Sep	1980
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	Plugging con		- And	<u></u>	19 <u>%</u>
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•	ii a prod u c:	ing well is	acandoned,	date of 1	
	Was normales	dan abtained	from the	Duly Conferment	19 🗞
Locate well correctly on above Section Plat		before plugg		•	_
Name of Conservation Agent who	allega ell	oerore prugg	ing was co	mmenced:	
Producing formation Squirrel	gurd parvisque t dtag	ging of this	ottom 7	mer Alc De	oth of Well 771
Show depth and thickness of all	water oil and	gae formati	or com <u>kao</u>	Der) chi or hori ///
bhow depth and thickness of all	water, orr and	gas Tormacr	one,		•
OIL, GAS OR WATER RECORDS				,	Marka Droopp
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FORMATION		ROM TO	SIZE	PUT IN	PULLED OUT
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					- Wichita, Kansas
(If additional d	escription is n	ecessary, us	e BACK of	this shee	t)
Name of Plugging Contractor	Casedy Deillin				
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STATE OF Kenner	COLINARA OF	e = 11.			6.6
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of the above-described well, bei	ing first duly	sworn on oat	i savs:	That I hav	e knowledge of
the facts, statements, and matter					
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SUBSCRIBED AND SWORN TO bef	fore me this c	$\frac{20^{44}}{}$ day	of Ott	1	19 80
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My commission expires Mora	x3-110-				

RS-Exhibit F Page 9 of 12

STATE OF KANSAS STATE CORPORATION COMMISSION 130 S. Market, Room 2078 Wichita, KS 67202

WELL PLUGGING RECORD K.A.R.-62-3-117

API NUMBER 15-059-20326-0000

ATE CORPORATION COMMISSION D. S. Market, Room 2078	•	•	I EACE M	ME Mall.	nhauer
chita, KS 67202					
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	and return	to Coms. DI	v. <u>330</u>	Ft. from	S Section Line
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ASE OPERATOR John T. C	SEC. 29	SEC. 29 TWP. 15 RGE. 21 (E) or (M) COUNTY Franklin			
DRESS PO BOX 63. Wellsville	COUNTY				
ONE # (785) 883- 2670 OPER	ATORS LICENSE N	10. 7115			id <u>1977</u>
aracter of Well Inp.t			Pluggin	g Commenced	21 Marion
II, Gas, D&A, SWD, Input, Wa		1)	Pluggin	g Completed	21 Maros
e plugging proposal was app	raved on 4	Jan 2001	-		(date)
			,,,		
DP Williams				CUISTRICT	Agent's Name).
ACO-1 filed? No	f not, is well	log attached	7 No		
oducing Formation Squirrel				om 760	1.0. 107
oducing Formation <u>Squirrel</u>					10U- <u>70</u> T
oducing Formation Squired ow depth and thickness of a IL, GAS OR WATER RECORDS Ormation Content		and gas forma	itions.		
oducing Formation <u>Squirrel</u> ow depth and thickness of a	From 745	To Size	CASING RECO	RD Pulled out	
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oducing Formation Squired ow depth and thickness of a IL, GAS OR WATER RECORDS Ormation Content	From 745	To Size	CASING RECO	RD Pulled out	
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oducing Formation Squirrel ow depth and thickness of a il, GAS OR WATER RECORDS ormation Content Squirrel Cil scribe in detail the manner aced and the method or met re used, state the charace	From 745	To Size 760 2" 20 7" well was plug ntroducing it and depth pl	CASING RECO	Pulled out	the mud fiuld went or other plu
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Name of Plugging Contractor Modulin Well Service K-68 Hwy Wellswille KS 66092 Address 4397 NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: John T. Ca STATE OF___ Kansas COUNTY OF Franklin John Casady above-described well, being/first duly sworn on oath, says: statements, and matters herein contained and the log of t the same are true and correct, so help me God. (Signature) Weller No KS SUBSCRIBED AND SWORN TO before me this 23rd

My Commission Expires: 12-27-03

NOTARY PUBLIC State of Kansas BEVERLY A. MCAULEY 12-27-03

day of

My Appt. Exp.

Form CF-4

19 2001

RS-Exhibit F Page 10 of 12

STATE OF KANSAS STATE CORPORATION COMMISSION

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
211 No Broadway

WELL PLUGGING RECORD

211 No. Broadway Wichita, Kansas	Frankli	<u>n</u>	Coun	ty. Sec. 29 7	wp.15 Rge	21E (E) (W)		
NORTH		NE/CNW%SW%" o						
		G&M Oi Moldenha				Well No. 10C		
	Office Address	5						
		Well (completed a				/ 5		
	Date well con	mpleted Febru or plugging filed	Februa:	rv 8				
	Application fo	or plugging approv	ed Feb:	ruary 12		19 <u>6</u> 5		
	Plugging com	menced Febr	uary 8		··· <u>-</u>			
	•	Plugging completed 11111111111111111111111111111111111						
		Reason for abandonment of well or producing formation						
		If a producing well is abandoned, date of last production 19						
Locate well correctly on above						fore plugging was com-		
Section Plat Name of Conservation Agent who su		his well						
Producing formation		Depth to top	Botto	m	Total Depth o	Well 785' Feet		
Show depth and thickness of all wat	er, oil and gas formati	ions.						
OIL, GAS OR WATER RECO	RDS				<u>. </u>	CASING RECORD		
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well, being first duly sworn on oat above-described well as filed and t		knowledge of the and correct. So	facts, states help me Go	ments, and matt				
		(Signature) <u>/</u>	Sonaf	Conald D	Fleming	J		
SUBSCRIBED AND SWORN TO b	efore me this 12	day of	71,	~ Mag	(Address)	65		
			Ma	m/V	Dear			
My commission expires Dec	13, 1965		mar1e	e Bideau		Notary Public.		

STATE CORPORATION COMMISSION		K.A.R82-3-117			API NUMBER -		
200 Colorado Derby Building Wichita, Kansas 67202				LS	EASE NAME Moldenhauer		
•	TYPE O				LL NUMBER 18		
	NOTICE: Fill	to (Cons. Div.	s SF	SPOT LOCATION 165 PSL 3795 FWL		
	office wit			SE	C.29 TWP.15 RGE.21 (E)or6		
LEASE OPERATOR JOHN TC	•			CC	DUNTY Franklin		
ADDRESS Box 63, Wellsville	ks 660	92			te Well Completed ?		
PHONE 1913 1883 - 2670 OPE	RATORS LICEN	ISE NO	7115		ugging Commenced 205දා සිර		
Character of Well Oll (Oll, Gas, D&A, SWD, Input, Wate	r Supply ∀el	1)			ugging Completed 205-p 85		
Did you notify the KCC/KDHE Join	t District 0	ffice	prior to	o plugging	this well? yes		
Which KCC/KDHE Joint Office did							
Is ACO-1 filed? No If n	ot, is well	log a	attached?_	Not avai	lable		
Producing formation Squired				-			
Show depth and thickness of all					· ·		
OIL, GAS OR WATER RECORDS	<u> </u>			CASING F	RECORD		
Formation Conte	nt From	То	Size	Put In	Pulled out		
Squirrel oil			2"	~740	None		
			·		-		
Describe in detail the manner in the mud fluid was placed and the the hole. If cement or other pludepth placed, from feet to fe	method or m gs were used	ethod Ista	is used i	n introduc	ing it into		
A packer was set at v	718'. The	hob	, was fi	hed to t	he for with 14 sacks		
of tement. Three more sucks we	re purpod to	hrough	n the 2"	find out	a hole @ ~25%		
/16 additional describ	n+lon lo nos			ACK -4 +b			
(If additional descri	_		ту, use <u>Б</u>	ACK OF THE			
Name of Plugging Contractor Address Box 63 Wellswile ke	John T Casoe 3	4		· · · · · · · · · · · · · · · · · · ·	License No. 7115		
STATE OF Kansas	COUNTY OF	Engl	6		,55.		
O OL C O O	000,,,,	178524			adhanation of		
(operator) of above-described we			July swor	n on oath,			
I have knowledge of the facts, s the log of the above-described w- correct, so help me God. ST	tatements Wis	nd ma Sombies	atters hei 別向phe sam	rein conta e are trua	alned and a and		
correct, so help me God. Si	NOV 1 2 1			ature)	Dansey.		
·			(Addr	ess) (Boo	63 Wellsile KS		
SUBSC	CONSERVATION D RIBEDVIONNAD KSM	NOISIVI SOR N	TO before	me this_	day of Member, 198		
			<u> </u>	mice	E. Carulheis		
My Commission expires: Mover RS-Exhibit F	nber 15, 1	987		JANICE	E CARUTHERS e of Kansas		
Page 12 of 12	,		ic		(p. 11-15-87)		

Form CP-4

CERTIFICATE OF SERVICE

20-CONS-3043-CUIC, 20-CONS-3079-CUIC

I, the undersigned, certify that a true copy of the attached Prefiled Testimony of Rene Stucky has been served to the following by means of electronic service on December 9, 2019.

LESLI BAKER TDR CONSTRUCTION, INC. PO Box 716 Louisburg, KS 66053 lesli@dbdoil.com

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