

**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
5 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
10 began my employment with the KCC as an Environmental Scientist in the UIC Department,
11 where I reviewed and processed injection applications. In 2014, I was promoted to
12 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
16 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
14 dockets. Their concern is that these wells will eventually pollute the water sources in this
15 part of Franklin County because of the possibility of contamination through abandoned
16 wells. Further, they state in their testimony this particular lease has a high risk of becoming
17 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
21 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 **Q. 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
10 a somewhat effective way to calculate primary reserves, but does not work on the proposed
11 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
15 injection, and the pressure used on injection. Each of these can have an effect on the rate of
16 production and thus the decline rate. Enhanced recovery reserves are calculated by using the
17 amount of oil in place, the amount of oil already produced, and the efficiency percentage to
18 move the oil through the reservoir. The reservoir qualities of porosity and permeability,
19 along with total thickness of the reservoir, are not readily available to calculate the reserves
20 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
23 waterflood, which was issued back in 1976. Due to the price of oil and various operators

1 using different practices, no steady decline curve has been established as can be seen in
2 **RS-Exhibit E.**¹ Furthermore, this lease has only recently been taken over by the current
3 operator. As acknowledged by Protesters in their testimony, the projected production for
4 2019 is greater than 60% higher than 2018 based on the daily average from production
5 through August 2019, the last reported month. There has been no significant change in the
6 number of wells for the last few years. This is a strong indication that the flood is now being
7 operated effectively. A decline curve on this lease would be nearly impossible to accurately
8 calculate until a steady production decline is established.

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

11 A. I conducted a search of the records in the Commission's database and found eight wells that
12 have been previously plugged on the Moldenhauer lease. All eight wells have plugging
13 reports showing the wells are sufficiently plugged according to Commission plugging
14 regulations as seen in **RS-Exhibit F.** Furthermore, the current Operator has plugged an
15 additional eight wells since taking over the lease. It is my understanding based on
16 conversations with the District #3 Geologist that Operator is also in the process of running
17 Cement Bond logs on four other wells on the Moldenhauer lease to determine the proper
18 plugging procedure to use. In their pre-filed testimony the Protesters listed 28 API numbers
19 that had intents-to-drill filed but no corresponding completion report. All but one of the
20 expired intents-to-drill were acquired by the most recent previous owner of the lease and
21 none of them have been drilled. Twenty of those intents-to-drill are located on the
22 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.

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?**

5 A. No, there is no information that confirms oil and gas operations on the Moldenhauer lease
6 have affected the water quality of Rural Water District #6. However, as stated by the
7 Protesters, there are multiple variables present in the area of the Moldenhauer lease. The
8 Kansas City geological formation is at the surface in this area. This formation consists of
9 thin zones of limestone, sandstone, shale, as well as, thin layers of coal seams. Water cutting
10 through these zones could be picking up some of the chemicals being reported. With over
11 100 years of oil production and some of the early practices of the industry, it is definitely
12 possible that some contaminants still exist in some areas.² These contaminants and their
13 respective environmental impacts should be diminishing over time. This could be shown in
14 the examples provided in the Protesters' testimony as the 2018 levels are slightly less than
15 2016, possibly showing a slow restoration. The 2017 sample appears to be suspect because
16 of the vastly different readings. Obviously more data would be necessary to draw any
17 conclusion, but as is stated, there is no information that confirms oil and gas operations on
18 the Moldenhauer lease have affected the water quality of Rural Water District #6.

19 **Q. Based on your review of this application, do you believe granting these Applications**
20 **will cause waste?**

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**
2 **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?**

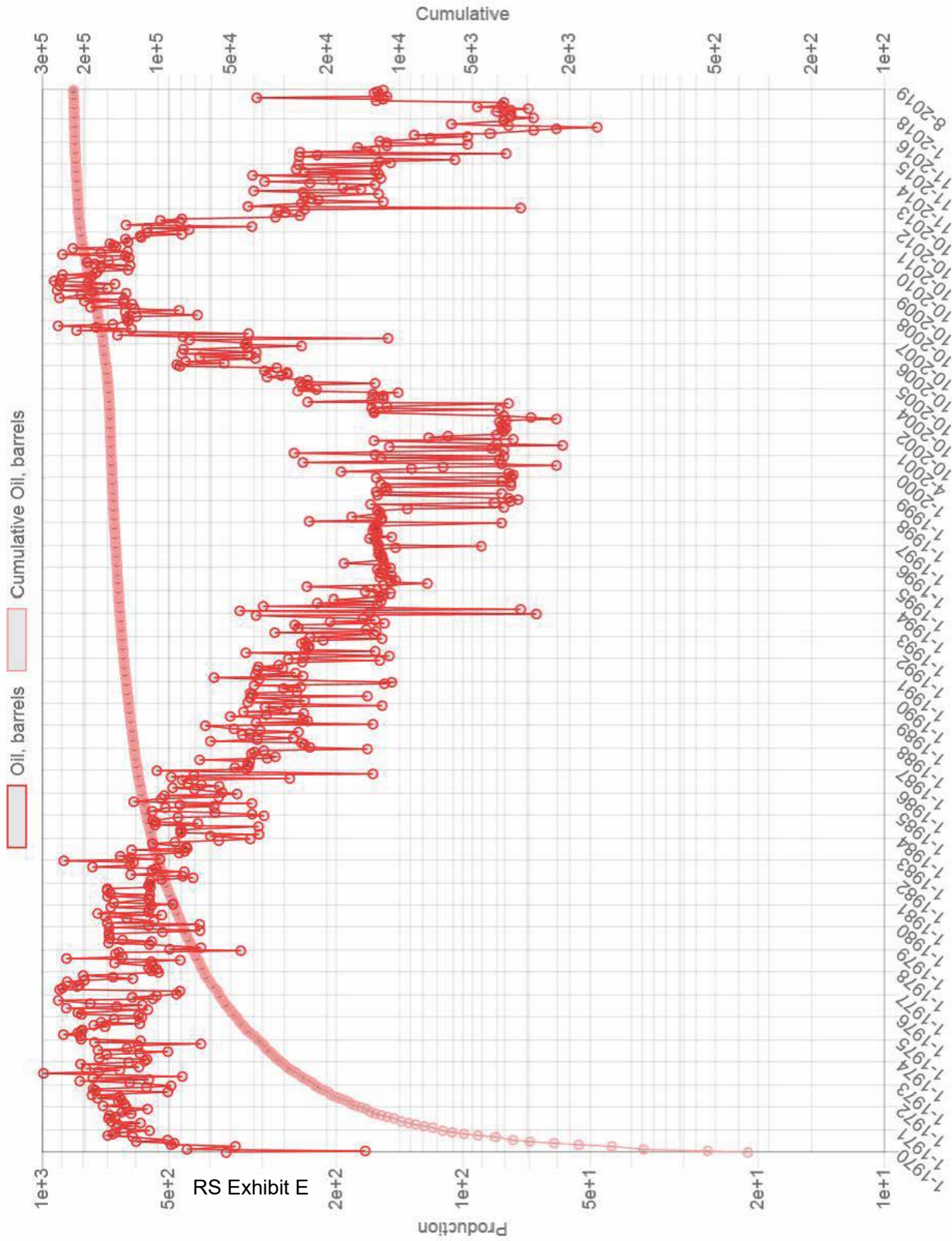
10 A. No. If the subject wells are constructed as proposed, the injection zone will be adequately
11 isolated to protect fresh and usable water.

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
15 recommend approval.

16 **Q. Does this conclude your testimony as of this date, December 9, 2019?**

17 A. Yes.



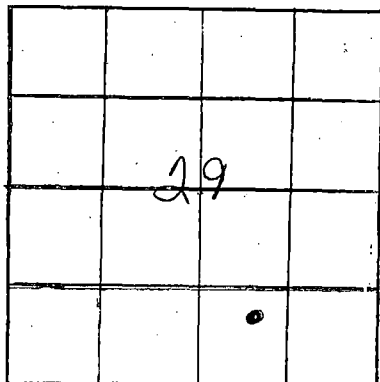
STATE OF KANSAS
STATE CORPORATION COMMISSION
200 Colorado Derby Bldg.
Wichita, Kansas 67202

Form CP-4
Rev. 12-15-80

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit

COUNTY Franklin SEC. 29 TWP. 15 RGE. 21 E/W
Location as in quarters or footage from lines:
630' FWL & 465' ESL



Locate Well
correctly on above
Section Platt.

Lease Owner Windhaven West Land Development, Inc.
Lease Name Moldenhauer Well No. #1
Office Address 0 222 E. 3rd Ottawa, Kansas 66067
Character of Well (Completed as Oil, Gas or Dry Hole): Oil
Date Well Completed 1/26/82
Application for plugging filed 2/26/82
Plugging commenced 3/1/82
Plugging completed 3/1/82
Reason for abandonment of well or producing formation dry hole

Was permission obtained from the Conservation Division or it's
Agent's before plugging was commenced? yes

Name of Conservation Agent who supervised plugging of this well Marvin Strobel
Producing formation _____ Depth to top _____ bottom _____ T.D. _____
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

Casing Record

Formation	Content	From	To	Size	Put in	Pulled Out
<u>first lime</u>		<u>0</u>	<u>75'</u>	<u>6 1/4"</u>	<u>1/26/82</u>	<u>left</u>

Describe in detail the manner in which the well was plugged, indicating where the mud
fluid was placed and the method or methods used in introducing it into the hold. If cement
or other plugs were used, state the character of same and depth placed, from _____ feet
to _____ feet for each plug set.

Ran 240' 27/8" upset
Mixed & poured 10 sacks of cement down 27/8" pipe
Pulled pipe to 60' & cemented with 10 sacks
Pulled all of 2 7/8" pipe out of hole
Cemented from 60' to within 3' of surface

RECEIVED
STATE CORPORATION COMMISSION
MAR 15 1982
CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Jim Stonequist

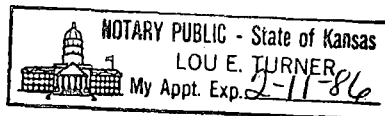
STATE OF Kansas COUNTY OF Franklin, ss.
Jim Stonequist (employee of owner) or (owner or operator) of the
above-described well, being first duly sworn on oath, says: That I have knowledge of the
facts, statements, and matters herein contained and the log of the above-described well as
filed and that the same are true and correct. So help me God.

(Signature) [Signature]
Box 505, Wellsville, Ks 66092
(Address)

SUBSCRIBED AND SWORN TO before me this 5th day of March, 19 82

Lou E. Turner
Lou E. Turner Notary Public.

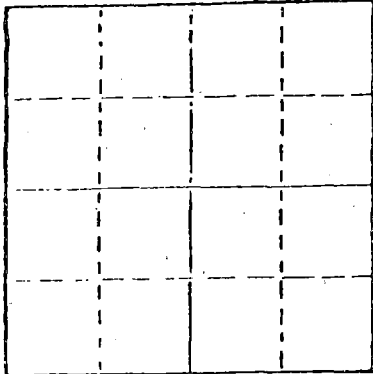
My Commission expires: February 11, 1986



STATE OF KANSAS
STATE CORPORATION COMMISSION

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to
Conservation Division
State Corporation Comm.
245 North Water
Wichita, KS 67202



Locate well correctly on above
Section Plat

Franklin County. Sec. 29 Twp. 15 Rge. 21 E/W
Location as "NE/CNW1SW1" or footage from lines
N.E.-N.W.-N.E.-S.E. 1/4
Lease Owner Jack W. Sanders
Lease Name Moldenhauer Well No. 1
Office Address Wellsville, Kansas 66092
Character of Well (Completed as Oil, Gas or Dry Hole)
Dry Hole
Date Well completed June 30 1977
Application for plugging filed July 2 1977
Application for plugging approved July 2 1977
Plugging commenced July 2 1977
Plugging completed July 2 1977
Reason for abandonment of well or producing formation
Dry
If a producing well is abandoned, date of last production
19

Was permission obtained from the Conservation Division or
its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well James McDaniel
Producing formation Depth to top Bottom Total Depth of Well
Show depth and thickness of all water, oil and gas formations.
None

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT

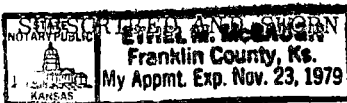
Describe in detail the manner in which the well was plugged, indicating where the mud fluid
was placed and the method or methods used in introducing it into the hold. If cement or other
plugs were used, state the character of same and depth placed, from 190 feet to
45 feet for each plug set. This well was plugged @190' with 10 sax
cement & 7 sax @ 45' & filled to surface.

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Kent Drilling Co.

STATE OF Kansas COUNTY OF Franklin, ss.
Jack W. Sanders (employee of owner) or (owner or operator)
of the above-described well, being first duly sworn on oath, says: That I have knowledge of
the facts, statements, and matters herein contained and the log of the above-described well
as filed and that the same are true and correct. So help me God.

(Signature) Jack W. Sanders
Wellsville, Kansas 66092
(Address)



TO before me this 24 day of August, 1977

Ethel M. McLaughlin
Notary Public.

My commission expires Nov 23-1979

RECEIVED
STATE CORPORATION COMMISSION

AUG 29 1977

CONSERVATION DIVISION
Wichita, Kansas

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

WELL PLUGGING RECORD

NORTH

Locate well correctly on above
Section Plat

Franklin County. Sec. 29 Twp. 15 Rge. 21 (E) (W)
Location as "NE/CNW/SW" or footage from lines
Lease Owner Hughes Bros.
Lease Name Moldenhauer Well No. 1
Office Address Wellsville
Character of Well (completed as Oil, Gas or Dry Hole) Dry
Date well completed March 5 1966
Application for plugging filed March 7 1966
Application for plugging approved March 7 1966
Plugging commenced March 9 1966
Plugging completed March 9 1966
Reason for abandonment of well or producing formation Dry
If a producing well is abandoned, date of last production 19
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well
Producing formation Depth to top Bottom Total Depth of Well 766.45 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet for each plug set.

Run 5 sacks cement in bottom, filled to 325' and bridged with brush and rock, and run 5 sacks, filled to 120' and bridged with brush and rock, and run 5 sacks cement, filled to 22' and bridged with brush and run 3 sacks cement, filled to surface.

RECEIVED
STATE CORPORATION COMMISSION

MAR 24 1966

WELL PLUGGING DIVISION
WICHITA, KANSAS

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Company tools
Address Wellsville, Kansas

STATE OF Kansas, COUNTY OF Franklin, ss.

(employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) Gordon F. Hughes
Wellsville, Kansas (Address)

SUBSCRIBED AND SWORN TO before me this 21 day of March, 1966

My commission expires Dec. 10, 1969

Notary Public.

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

WELL PLUGGING RECORD

Franklin County. Sec. 29 Twp. 15 Rge. 21E NW SE SE
(E) (W)

Location as "NE/CNW4SW4" or footage from lines

Lease Owner Gene Roberts

Lease Name Moldenhauer

Well No. 1 A

Office Address

Character of Well (completed as Oil, Gas or Dry Hole) dry hole

Date well completed February 22 19 65

Application for plugging filed February 22 19 65

Application for plugging approved February 26 19 65

Plugging commenced February 22 19 65

Plugging completed 19

Reason for abandonment of well or producing formation

no oil sand

If a producing well is abandoned, date of last production 19

Was permission obtained from the Conservation Division or its agents before plugging was commenced? yes

Name of Conservation Agent who supervised plugging of this well O D Garrett Wellsville

Producing formation Depth to top Bottom Total Depth of Well 775' Feet

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

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
		surface	43	48*7"	left in	

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet for each plug set.

5 sacks at bottom- 6 sacks at 193' and 4 sacks at 30' of cement.
with Rotary mud in between. Brush Plug pushed to 193'.

RECEIVED
STATE CORPORATION COMMISSION

MAR 15 1965

CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Fleming Drilling Co. Ronald D Fleming
Address 811 West Cherry Chanute, Kansas

STATE OF Kansas, COUNTY OF Neosho, ss.
Ronald D Fleming (employee of owner) or (owner or operator) of the above-described

well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) Ronald D Fleming
Ronald D Fleming

SUBSCRIBED AND SWORN TO before me this 12 day of March 19 65

My commission expires Dec 13, 1965

Marie Bideau Notary Public.

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

WELL PLUGGING RECORD

NORTH

Locate well correctly on above
Section Plat

Franklin County. Sec. 29 Twp. 15 Rge. 21E (E) (W)
Location as "NE/CNW/SW" or footage from lines
Lease Owner Hughes Brothers et al
Lease Name Maldenhamer Well No. 2
Office Address Wellsville
Character of Well (completed as Oil, Gas or Dry Hole) Dry
Date well completed March 20 - 66 19
Application for plugging filed Mar 20 - 66 19
Application for plugging approved Mar 20 - 66 19
Plugging commenced Mar 21 - 66 19
Plugging completed Mar 21 - 66 19
Reason for abandonment of well or producing formation Dry

If a producing well is abandoned, date of last production _____ 19____
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well O. D. Garrett
Producing formation _____ Depth to top _____ Bottom _____ Total Depth of Well 238 1/2 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

filled to 238' and bridged and run 6 sacks cement
" " 135' bridged and run 6 sacks cement
" " 20' bridged and run 3 sacks cement, filler
hole to surface.

RECEIVED
STATE CORPORATION COMMISSION
MAR 24 1966
CONSERVATION DIVISION
WICHITA, KANSAS

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Company, Inc.
Address Wellsville, Kansas

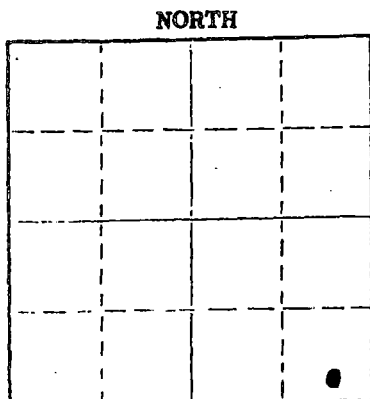
STATE OF Kansas, COUNTY OF Franklin, ss.
_____, (employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me, God.

(Signature) Stephen F. Hughes
Wellsville, Kansas (Address)

SUBSCRIBED AND SWORN TO before me this 21 day of March, 19 66

My commission expires Dec. 10, 1969 Notary Public.

WELL PLUGGING RECORD



Locate well correctly on above
Section Plat

Franklin County. Sec. 29 Twp. 15 Rge. 21 (E)
Location as "NE/CNW/SE" or footage from lines SE SE SE
Lease Owner Elton R. Greer
Lease Name Moldenhauer Well No. 2
Office Address Rt. # 1, Wellsville, Kansas 66092
Character of Well (completed as Oil, Gas or Dry Hole) Dry hole
Date well completed 5-21-81 19
Application for plugging filed 5-22-81 19
Application for plugging approved 5-22-81 19
Plugging commenced 5-22-81 19
Plugging completed 5-22-81 19
Reason for abandonment of well or producing formation Dry hole

If a producing well is abandoned, date of last production 19
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Marle Hickey, Box 386, Lyndon, Ks. 66451
Producing formation Depth to top Bottom Total Depth of Well 785 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
Surface pipe		0	10 1/4	6 1/4	Cemented in	

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet for each plug set.

12 sacks 2 1/2 to 325 Pumped at 325 ft. Portland cement.
12 sacks 0 to 105 pumped at 105 ft. Portland cement.
6 1/4" surface pipe cut off at 3 ft below surface.

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor E. R. Greer
Address Rt. # 1, Wellsville, Kansas 66092

STATE OF COUNTY OF ss.

(employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) E. R. Greer

SUBSCRIBED AND SWORN to before me this 25th day of June, 1981 (Address)

My commission expires 11-23-83 Ethel M. Gaugh Notary Public.

ETHEL McGAUGH
STATE NOTARY PUBLIC
FRANKLIN COUNTY, KANSAS
My Appt. Exp. 11-23-83

RECEIVED
STATE CORPORATION COMMISSION
JUN 29 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 Maldenbauer

WELL NUMBER WS

330 Ft. from S Section Line

4455 Ft. from E Section Line

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

COUNTY Franklin

Date Well Completed 1977

Plugging Commenced 20 Mar '01

Plugging Completed 20 Mar '01

TYPE OR PRINT
NOTICE: Fill out completely
and return to Cons. Div.
office within 30 days.

LEASE OPERATOR John T. Casady

ADDRESS PO Box 63, Wellsville, KS 66092

PHONE#(285) 883-2670 OPERATORS LICENSE NO. 7115

Character of Well Input

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

The plugging proposal was approved on 4 Jan 2001 (date)

by DP Williams (KCC District Agent's Name).

Is ACO-1 filed? No If not, Is well log attached? No

Producing Formation Squirrel Depth to Top 734 Bottom 744 T.D. 774

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

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put in	Pulled out
<u>Squirrel</u>	<u>oil</u>	<u>734</u>	<u>744</u>	<u>2"</u>	<u>1977</u>	<u>-</u>
		<u>0</u>	<u>20</u>	<u>6 1/4</u>	<u>1977</u>	<u>-</u>

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was 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 feet each set 1" pipe to 774. 13 sacks portland cement pumped through 1". Pulled 1" & filled to surface.

Name of Plugging Contractor McMullin Well Service License No. 6084

Address 4397 K-68 Hwy, Wellsville, KS 66092

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: John T. Casady

STATE OF Kansas COUNTY OF Franklin, ss.

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

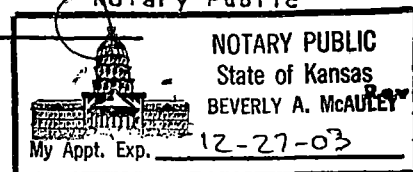
(Signature) John Casady

(Address) PO Box 63, Wellsville, KS

SUBSCRIBED AND SWORN TO before me this 23rd day of April, 192001

Beverly A. McAuley
Notary Public

My Commission Expires: 12-27-03



Form CP-1
Revised 05-88

CR

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 15-059-20323-0000
LEASE NAME Moldenhauer

TYPE OR PRINT
NOTICE: Fill out completely
and return to Cons. Div.
office within 30 days.

WELL NUMBER W6
330 Ft. from S Section Line
3795 Ft. from E Section Line

LEASE OPERATOR John T. Casady
ADDRESS PO Box 63, Wellsville, KS 66092
PHONE (785) 883-2670 OPERATORS LICENSE NO. 7115

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

Character of Well Input
(Oil, Gas, D&A, SMD, Input, Water Supply Well)

Date Well Completed 1977
Plugging Commenced 21 Mar 01
Plugging Completed 21 Mar 01

The plugging proposal was approved on 4 Jan 01 (date)
by D.P. Williams (KCC District Agent's Name).

Is ACO-1 filed? No If not, is well log attached? No

Producing Formation Squirrel Depth to Top 730 Bottom 742 T.D. 767

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

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put in	Pulled out
<u>Squirrel</u>	<u>oil</u>	<u>730</u>	<u>742</u>	<u>2"</u>	<u>1977</u>	<u>-</u>
		<u>0</u>	<u>20</u>	<u>6 7/8</u>	<u>1977</u>	<u>-</u>

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was 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 feet each set 1" pipe run to 500'. Mixed 3 sacks portland cement & pumped through 1". Pulled 1" & filled to surface w/ cement.

Name of Plugging Contractor Mr Mullin Well Service License No. 6084

Address 4397 K-68 Hwy, Wellsville, KS 66092

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: John T. Casady

STATE OF Kansas COUNTY OF Franklin, ss.

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

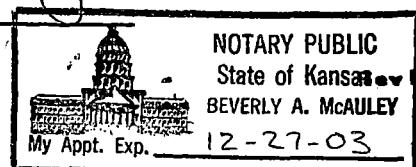
(Signature) [Signature]

(Address) PO Box 63, Wellsville, KS

SUBSCRIBED AND SWORN TO before me this 23rd day of April, 2001

Beverly A. McAuley
Notary Public

My Commission Expires: 12-27-03

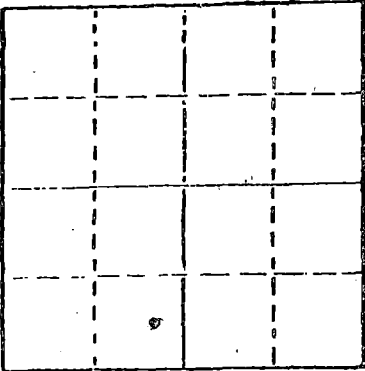


OR

STATE OF KANSAS
STATE CORPORATION COMMISSION

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to
Conservation Division
State Corporation Comm.
245 North Water
Wichita, KS 67202



Locate well correctly on above
Section Plat

Franklin County. Sec. 29 Twp. 15S Rge. 21 E/A
Location as "NE/CNW/SW" or footage from lines
440' EL 660' SL/SW 1/4
Lease Owner John T. Casady
Lease Name Maldenbauer Well No. 7
Office Address Box 63 Wellsville KS
Character of Well (Completed as Oil, Gas or Dry Hole)

Oil Well
Date Well completed _____ 1964
Application for plugging filed 1 Aug 1980
Application for plugging approved 4 Sep 1980
Plugging commenced 4 Aug 1980
Plugging completed 4 Aug 1980
Reason for abandonment of well or producing formation

Producing almost all water, not suitable for injection
If a producing well is abandoned, date of last production July 1980

Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well James McDaniel
Producing formation Squirrel Depth to top 749 Bottom 765 Total Depth of Well 771
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
<u>Squirrel</u>		<u>Surface</u>	<u>771</u>	<u>4 1/2</u>	<u>1964</u>	<u>Aug 1980</u>

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hold. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

A metal & rubber expandable plug was placed at 765' and 12 sacks of portland cement placed on top. A bridge was set at 200' from surface 15 sacks of cement spotted on top of bridge. A second bridge was placed at 30' from surface and cement run to the surface. The 4 1/2" casing was cut at 512' and removed.

OCT 22 1980

CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Casady Drilling (Paul Casady licensed plugger)

STATE OF Kansas COUNTY OF Franklin, ss.
John T. Casady (employee of owner) or (owner or operator)
of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) John T. Casady
Box 63 Wellsville, KS (Address)

SUBSCRIBED AND SWORN TO before me this 20th day of Oct 1980

Ethel M. Gaugh
Notary Public.

My commission expires Nov 23-1983

ETHEL MCGAUGH
STATE NOTARY PUBLIC
FRANKLIN COUNTY, KANSAS
My Appt. Exp. 11-23-83

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

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

TYPE OR PRINT
NOTICE: Fill out completely
and return to Cons. Div.
office within 30 days.

API NUMBER 15-059-20326-0000

LEASE NAME Moldenhauer

WELL NUMBER W 7

330 Ft. from S Section Line

2805 Ft. from E Section Line

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

COUNTY Franklin

Date Well Completed 1977

Plugging Commenced 21 Mar '01

Plugging Completed 21 Mar '01

LEASE OPERATOR John T. Casady

ADDRESS PO Box 63, Wellsville, KS 66092

PHONE (785) 883-2620 OPERATORS LICENSE NO. 2115

Character of Well Input

(Oil, Gas, D&A, SMD, Input, Water Supply Well)

The plugging proposal was approved on 4 Jan 2001 (date)

by DP Williams (KCC District Agent's Name).

Is ACO-1 filed? No If not, is well log attached? No

Producing Formation Squirrel Depth to Top 745 Bottom 760 T.D. 784

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

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put In	Pulled out
<u>Squirrel</u>	<u>oil</u>	<u>745</u>	<u>760</u>	<u>2"</u>	<u>1977</u>	<u>-</u>
		<u>0</u>	<u>20</u>	<u>7"</u>	<u>1977</u>	<u>-</u>

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was 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 feet each set.
Ran 1" pipe to 725'. Mixed 14 sacks portland cement & pumped down 1". Pulled 1" & filled to surface with cement.

Name of Plugging Contractor McMullin Well Service License No. 6084

Address 4397 K-68 Hwy, Wellsville, KS 66092

RECEIVED
STATE CORPORATION COMMISSION

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: John T. Casady ADD. 27 2001

STATE OF Kansas COUNTY OF Franklin, ss.

John Casady (Employee of Operator) or Representative of

above-described well, being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained and the log of the above-described well as filed that the same are true and correct, so help me God.

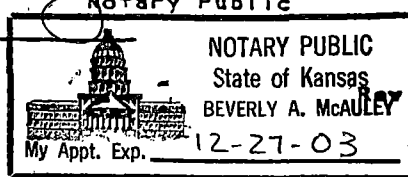
(Signature) [Signature]

(Address) PO Box 63 Wellsville KS

SUBSCRIBED AND SWORN TO before me this 23rd day of April, 2001

Beverly A. McAuley
Notary Public

My Commission Expires: 12-27-03



Form CP-1
sed 05-88

OK

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

WELL PLUGGING RECORD

NORTH

Locate well correctly on above
Section Plat

Franklin County. Sec. 29 Twp. 15 Rge. 21E (E) (W)
Location as "NE/CNW/SW" or footage from line SE NW SW
Lease Owner. G&M Oil Co. Gardner, Kansas
Lease Name Moldenhauer Well No. 10C
Office Address _____
Character of Well (completed as Oil, Gas or Dry Hole) dry hole
Date well completed February 8 19 65
Application for plugging filed February 8 19 65
Application for plugging approved February 12 19 65
Plugging commenced February 8 19 65
Plugging completed February 8 19 65
Reason for abandonment of well or producing formation _____
no oil sand
If a producing well is abandoned, date of last production _____ 19 ____
Was permission obtained from the Conservation Division or its agents before plugging was commenced? _____

Name of Conservation Agent who supervised plugging of this well _____
Producing formation _____ Depth to top _____ Bottom _____ Total Depth of Well 785' Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
		Surface	57'	7"	Left in	

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

5 sacks of cement at 766' 6 sacks of cement at 239' -and 4 sacks at 40'
Brush plug pushed to 239' Rotary mud in between

RECEIVED
STATE CORPORATION COMMISSION

MAR 15 1965

CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Fleming Drilling Co. Ronald D. Fleming
Address 811 West Cherry Chenute, Kansas

STATE OF Kansas COUNTY OF Neosho, ss.
Ronald D Fleming (employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) Ronald D Fleming

(Address)

SUBSCRIBED AND SWORN TO before me this 12 day of March, 19 65

Marie Bideau
Notary Public.

My commission expires Dec 13, 1965

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

WELL PLUGGING RECORD
K.A.R.-82-3-117

API NUMBER _____

LEASE NAME Moldenhauer

WELL NUMBER 18

SPOT LOCATION 165' FSL 375' FWL

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

COUNTY Franklin

Date Well Completed ?

Plugging Commenced 20 Sep 85

Plugging Completed 20 Sep 85

TYPE OR PRINT
NOTICE: Fill out completely
and return to Cons. Div.
office within 30 days.

LEASE OPERATOR JOHN T CASADY

ADDRESS Box 63, Wellsville, KS 66092

PHONE (913) 883-2670 OPERATORS LICENSE NO. 7115

Character of Well Oil
(Oil, Gas, D&A, SWD, Input, Water Supply Well)

Did you notify the KCC/KDHE Joint District Office prior to plugging this well? yes

Which KCC/KDHE Joint Office did you notify? Topeka

Is ACO-1 filed? No If not, is well log attached? Not available

Producing formation Squirrel Depth to top ~ 718 bottom ~ 730 T.D.

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

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put In	Pulled out
<u>Squirrel</u>	<u>oil</u>			<u>2"</u>	<u>~ 740</u>	<u>None</u>

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used state, the character of same and depth placed, from feet to feet each set.

A packer was set at ~ 718'. The hole was filled to the top with 14 sacks of cement. Three more sacks were pumped through the 2" and out a hole @ ~ 25'.

(If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor John T Casady License No. 7115

Address Box 63 Wellsville, KS

STATE OF Kansas COUNTY OF Franklin, ss.

John Casady (employee of operator) or
(operator) of above-described well, being first duly sworn on oath, says: That
I have knowledge of the facts, statements and matters herein contained and
the log of the above-described well as filled that the same are true and
correct, so help me God.

RECEIVED
STATE CORPORATION COMMISSION

NOV 12 1985

CONSERVATION DIVISION
SUBSCRIBED AND SWORN TO

(Signature) John T Casady

(Address) Box 63 Wellsville, KS

before me this 8 day of November, 1985

Janice E. Caruthers
Notary Public

My Commission expires: November 15, 1987

RS-Exhibit F

Page 12 of 12



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

JAKE EASTES, GEOLOGIST SPECIALIST
KANSAS CORPORATION COMMISSION
266 N. Main St., Ste. 220
WICHITA, KS 67202-1513
Fax: 785-271-3354
j.eastes@kcc.ks.gov

KELCEY MARSH, LITIGATION COUNSEL
KANSAS CORPORATION COMMISSION
CENTRAL OFFICE
266 N. MAIN ST, STE 220
WICHITA, KS 67202-1513
Fax: 785-271-3354
k.marsh@kcc.ks.gov

POLLY SHTEAMER
2263 NEVADA RD
OTTAWA, KS 66067
pshteamer@gmail.com

KEITH A. BROCK, ATTORNEY
ANDERSON & BYRD, L.L.P.
216 S HICKORY
PO BOX 17
OTTAWA, KS 66067
Fax: 785-242-1279
kbrock@andersonbyrd.com

JONATHAN R. MYERS, ASSISTANT GENERAL COUNSEL
KANSAS CORPORATION COMMISSION
266 N. Main St., Ste. 220
WICHITA, KS 67202-1513
Fax: 316-337-6211
j.myers@kcc.ks.gov

RENE STUCKY
KANSAS CORPORATION COMMISSION
266 N. Main St., Ste. 220
WICHITA, KS 67202-1513
Fax: 785-271-3354
r.stucky@kcc.ks.gov

SCOTT YEARGAIN
2263 NEVADA RD
OTTAWA, KS 66067
syeargai2@gmail.com

/s/ Paula J. Murray

Paula J. Murray