

Kansas Department of Agriculture  
Division of Water Resources  
**CHANGE: P/D WORKSHEET**

Document Signature \_\_\_\_\_

1. File Number: <b>10,493</b>	2. Status Change Date: <b>3/6/2017</b>	3. Change Num: <b>C3</b>	4. Field Office: <b>03</b>	5. GMD: <b>4</b>
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6. Status: <input type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return	7. Filing Date of Change: <b>09-DEC-2016</b>
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8a. Applicant(s) <input type="checkbox"/> New to system  <b>JEROME &amp; ALICE GOETZ</b> <b>13563 S ROAD 45 E</b> <b>PARK KS 67751-5522</b>	Person ID <b>6229</b> Add Seq# <b>1</b>  8d. Landowner(s) <input type="checkbox"/> New to system  Person ID _____ Add Seq# _____
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8b. Landowner(s) <input type="checkbox"/> New to system  <b>JEROME &amp; ALICE GOETZ</b> <b>13563 S ROAD 45 E</b> <b>PARK KS 67751-5522</b>	Person ID <b>6229</b> Add Seq# <b>1</b>  8e. Landowner(s) <input type="checkbox"/> New to system  Person ID _____ Add Seq# _____
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8c. Landowner(s) <input type="checkbox"/> New to system  Person ID _____ Add Seq# _____	8f. WUC <input type="checkbox"/> New to system  <b>NO CHANGE</b> <b>JEROME &amp; ALICE GOETZ</b> <b>13563 S ROAD 45 E</b> <b>PARK KS 67751-5522</b>
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9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: <b>12/31/17</b> <input checked="" type="checkbox"/> N & P Date to Comply: <b>12/31/17</b>	
<input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input checked="" type="checkbox"/> Water Tube <input type="checkbox"/> Driller Copy <input type="checkbox"/> H & E Letter  <input type="checkbox"/> Conservation Plan            Date Required: _____            Date Approved: _____            Date to Comply: _____	

10. Use Made of Water    From: _____    To: _____
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Date Prepared: <b>02/27/17</b>	By: <b>RAK</b>
Date Entered: <b>3/7/2017</b>	By: <b>LLM</b>

File No. <b>10,493</b>	11. County: <b>SD</b>	Basin: <b>SALINE RIVER</b>	Stream:	Formation Code: <b>113</b>	Special Use:
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12. Points of Diversion										Rate and Quantity					
MOD DEL ENT	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment	Authorized		Additional		Overlap PD Files	
										Rate gpm	Quantity af	Rate gpm	Quantity af		
MOD	85306	NE¼ NW¼ SW¼	20	10S	27W	8	2426	4419			220 g.p.m.	78 AF	220 g.p.m.	78 AF	NO
243' S & 118' E OF PREV P/D															
ENT	84261	SW¼ NW¼ SW¼	20	10S	27W	7	1669	4668	ADDITIONAL WELL 22' W OF PREV P/D		165 g.p.m.	59.50 AF	165 g.p.m.	59.50 AF	NO
MOD	85307	SW¼ NW¼ SW¼	20	10S	27W	9	1399	4660	300' S & 7' E OF PREV P/D		165 g.p.m.	59.50 AF	165 g.p.m.	59.50 AF	NO

13. Storage: Rate \_\_\_\_\_ NF    Quantity \_\_\_\_\_ ac/ft    Additional Rate \_\_\_\_\_ NF    Additional Quantity \_\_\_\_\_ ac/ft

14 Limitation: \_\_\_\_\_ when combined with file number(s) \_\_\_\_\_  
 Limitation: \_\_\_\_\_ af/yr at \_\_\_\_\_ gpm ( \_\_\_\_\_ cfs) when combined with file number(s) \_\_\_\_\_

15. 5YR Allocation:    Allocation Type \_\_\_\_\_    Start Year \_\_\_\_\_    5 YR Amount \_\_\_\_\_    Amount Unit \_\_\_\_\_    Base Acres \_\_\_\_\_    Comment \_\_\_\_\_

16. Place of Use																		Total	Owner	Chg?	Overlap Files			
MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼								SE¼		
						NE %	NW %	SW %	SE %	NE %	NW %	SW %	SE %	NE %	NW %	SW %	SE %	NE %	NW %	SW %	SE %			
√	54943	19	10	27W	8													9.00		9.00	18.00	8B	NO	34858
√	6158	20	10	27W	1					30.00	37.00	30.0	30.00					15.00	15.00		157.00	8B	NO	34858
<b>No Changes To PU</b>																								

Comments: **SPECIAL CONDITIONS Y ADDITIONAL WELL(REVIEW AFTER 5-10YRS)**

**KANSAS DEPARTMENT OF AGRICULTURE**  
**Division of Water Resources**  
**MEMORANDUM**

**TO:** Files  
**FROM:** Richelle A. Krueger

**DATE:** February 28, 2017  
**RE:** Water Right  
File No. 10,493

Jerome and Alice Goetz, water right owners, filed an application for approval to change the authorized point of diversion.

The referenced file does not appear abandoned as per K.S.A. 82a-718.

The above referenced file number is authorized two wells with assigned rates and quantities for a total of 197 acre-feet of groundwater for irrigation use on 175 acres in Sections 19 and 20, Township 10 South, Range 27 West, Sheridan County, located in the Saline River Basin. There are no overlaps in the authorized point of diversion but the authorized place of use overlaps Water Right, File No. 34,858. The water right owner proposes to add a previously authorized well located 1,669 feet North and 4,668 feet West of the Southeast corner of the aforementioned Section 20 pursuant to K.A.R. 5-5-16 *Additional wells*, approximately 270 feet northwest of the current location.

The application appears to meet K.A.R. 5-5-16. The K.A.R. 5-5-16 (a)(2)(C)(i) calculation per January 5, 2017 e-mail from Kelly Stewart, Water Commissioner of the Stockton Field office (134 max perfected acres x 1.25/0.85=197 AF) indicates that no reduction in quantity is required. Because the wells have an alluvial source of supply, it could be assumed that the aquifer will yield the currently authorized diversion rate, so the applicants were not required to submit a pump test. No change is proposed to the northernmost well other than its location will be better described with g.p.s. feet distances. However, the southernmost well and the additional well will each be assigned 59.5 acre-feet and 165 gallons per minute.

There are five(5) other non-domestic wells and one(1) domestic well within one-half mile of the proposed additional well based on WRIS and the submitted information. As indicated in a January 6, 2017 phone conversation with Kelly, all wells are under common ownership so no notifications were sent.

The same local source of supply will remain the same, which was determined to be alluvium of the Saline River, so Main Stem Alluvium (113).

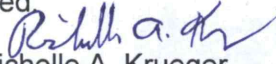
Approval of the application will be subject to the condition that for the sole purpose of administering wells concerning direct impairment, the additional well shall be considered to have the priority of the date the application was filed (December 9, 2016) to add the additional well.

In a letter dated February 21, 2017, Ray Luhman, Manager of the Northwest Kansas Groundwater Management District No. 4, as per the Board of Directors, recommended approval of the referenced application based on their records and the information supplied by the applicant. As indicated in a February 27, 2017 from Ray, the proposed additional well does not meet well spacing to the other wells authorized by File No. 10,493 but is exempt due to K.A.R. 5-24-3(b)(4) since the wells authorized by File No. 10,493 are under common ownership. Also, Ray indicated the additional well is also exempt from well spacing regulations to the well authorized by Water Right, File No. 15,630 since spacing is being improved as per K.A.R. 5-24-3(b)3(B).

In an e-mail dated February 27, 2017, Kelly Stewart, Water Commissioner of the Stockton Field Office, indicated he has no objection to approval of the referenced change application.

Water flow meters are required. Check valves are required if any chemical or foreign substance is injected into the water through the diversion works.

Based on the above discussion, that the change is reasonable, that impairment to existing water rights is unlikely, and that no change in the local source of supply will occur, it has been recommended that the referenced application be approved.

  
Richelle A. Krueger  
Environmental Scientist

1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700



900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

March 7, 2017

JEROME & ALICE GOETZ  
13563 S ROAD 45 E  
PARK KS 67751-5522

**FILE COPY**

RE: Water Right, File No. 10,493

Dear Mr. and Mrs. Goetz:

Enclosed is the order executed by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the application for change under the above referenced file number.

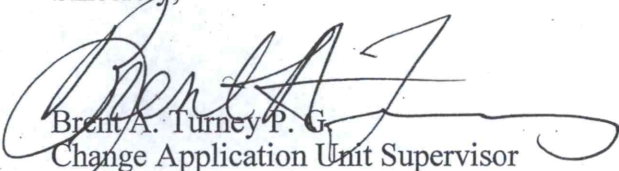
Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in this approval for change. A condition of this approval is that acceptable water flow meters must be installed on the diversion works authorized under the referenced file number. Please return the required notification of completion of the diversion works and installation of the required meters as soon as these actions are completed.

Please note that the application for File No. 10,493 is approved subject to the condition that for the sole purpose of administering wells concerning direct impairment, the additional well shall be considered to have the priority of the date the application was filed (December 9, 2016) to add the additional well. In addition, the Chief Engineer specifically retains jurisdiction in this matter with authority to review the approval of the additional well at intervals of no fewer than five years, and no more than ten years to determine if the total annual quantity of water actually being withdrawn by all wells authorized by the approval of application for change is exceeding the total annual quantity of water that could have been physically withdrawn if the additional well had not been approved, and based on the review, the Chief Engineer retains authority to make a reasonable reduction in the authorized quantity of water as may be deemed to be in the public interest.

Since this order modifies the original document referred to it should be recorded with the Register of Deeds as other instruments affecting real estate.

If you have any questions, please contact this office. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

  
Brent A. Turney, P. G.  
Change Application Unit Supervisor

BAT:rak

pc: Stockton Field Office



**KANSAS DEPARTMENT OF AGRICULTURE**  
Jackie McClaskey, Secretary of Agriculture

**DIVISION OF WATER RESOURCES**  
David W. Barfield, Chief Engineer

**APPROVAL OF APPLICATION  
FOR  
CHANGE IN  
POINT OF DIVERSION  
WATER RIGHT  
FILE NO. 10,493**

The Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, after due consideration of the written application of Jerome and Alice Goetz, 13563 S Road 45 E, Park, Kansas, 67751-5522, received in this office on December 9, 2016, for approval of a change in the location of the point of diversion under the certificate of appropriation issued pursuant to the application for permit to appropriate water for beneficial use, as modified and amended by the Findings and Order of the Chief Engineer dated December 23, 1993, requiring a conservation plan, the Correctional Order of the Chief Engineer dated June 10, 1994, to show the correct legal descriptions of the authorized points of diversion, the Findings and Order of the Chief Engineer dated July 14, 1995, reducing the authorized quantity and place of use, the Order of the Chief Engineer dated April 22, 2002, approving the application to change the place of use, and the Orders of the Chief Engineer dated March 20, 2015 and April 29, 2016, approving applications to change the point of diversion, finds that the change is reasonable and will not impair existing rights, and that the application should be and is hereby approved.

The application, therefore, is approved subject to the condition that for the sole purpose of administering wells concerning direct impairment, the additional well shall be considered to have the priority of the date the application was filed (December 9, 2016) to add the additional well.

The effective date of the change shall be the date this order is executed by the Chief Engineer, after which the authorized locations of the points of diversion shall be:

one (1) well located in the Northeast Quarter of the Northwest Quarter of the Southwest Quarter (NE $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$ ) of Section 20, more particularly described as being near a point 2,426 feet North and 4,419 feet West of the Southeast corner of said section, at a diversion rate not in excess of 220 gallons per minute (0.49 c.f.s.) and in a quantity not to exceed 78 acre-feet of water per calendar year,

one (1) well located in the Southwest Quarter of the Northwest Quarter of the Southwest Quarter (SW $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$ ) of Section 20, more particularly described as being near a point 1,669 feet North and 4,668 feet West of the Southeast corner of said section, at a diversion rate not in excess of 165 gallons per minute (0.37 c.f.s.) and in a quantity not to exceed 59.50 acre-feet of water per calendar year, and

one (1) well located in the Southwest Quarter of the Northwest Quarter of the Southwest Quarter (SW $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$ ) of Section 20, more particularly described as being near a point 1,399 feet North and 4,660 feet West of the Southeast corner of said section, at a diversion rate not in excess of 165 gallons per minute (0.37 c.f.s.) and in a quantity not to exceed 59.50 acre-feet of water per calendar year,

all in Township 10 South, Range 27 West, Sheridan County, Kansas,

located substantially as shown on the map accompanying the application to change the point of diversion.

Installation of the works for diversion of water shall be completed on or before December 31, 2017, or within any authorized extension of time. The water right owner shall notify the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, when construction of the works for diversion has been completed.

All wells with a diversion rate of 100 gallons per minute or more drilled under the authority of this order shall have a tube or other device installed in a manner acceptable to, and in accordance with specifications adopted by, the Chief Engineer. This tube or device shall be suitable for making water level measurements and shall be maintained in a condition satisfactory to the Chief Engineer.

All diversion works into which any type of chemical or other foreign substance will be injected into the water pumped from the diversion works shall be equipped with an in-line, automatic, quick-closing check valve capable of preventing pollution of the source of the water supply. The type of valve installed shall meet specifications adopted by the Chief Engineer and shall be maintained in an operating condition satisfactory to the Chief Engineer.

The water right owner shall properly install an acceptable water meter on the diversion works authorized under this water right, prior to the use of water, in strict accordance with the Kansas Administrative Regulations 5-1-4 through 5-1-12 adopted by the Chief Engineer. The water right owner shall notify the Chief Engineer when installation of the water meter has been completed. The water right owner shall maintain the water meter in an operating condition satisfactory to the Chief Engineer, at all times during diversion of water and shall maintain records from which the total quantity of water diverted may be determined. The water right owner shall also report the reading of said water meter and the total quantity of water diverted annually to the Chief Engineer. Such records shall be furnished to the Chief Engineer by March 1 following the end of each calendar year.

The Chief Engineer specifically retains jurisdiction in this matter with authority to review the approval of the additional well at intervals of no fewer than five years, and no more than ten years to determine if the total annual quantity of water actually being withdrawn by all wells authorized by the approval of application for change is exceeding the total annual quantity of water that could have been physically withdrawn if the additional well had not been approved, and based on the review, the Chief Engineer retains authority to make a reasonable reduction in the authorized quantity of water as may be deemed to be in the public interest.

In all other respects, the Certificate of Appropriation issued pursuant to Approval of Application, File No. 10,493, for permit to appropriate water for beneficial use, is as stated and set forth in the Certificate of Appropriation dated September 20, 1982, as modified and amended by the aforementioned orders.

This Order shall become a final agency action, as defined by K.S.A. 77-607(b), without further notice to the parties, if a request for hearing or a petition for administrative review is not filed as set forth below.

**Request for Hearing.** According to K.A.R. 5-14-3(c), any party who desires a hearing must submit a request within 15 days after the date shown on the Certificate of Service attached to this Order. Filing a request for a hearing will give you the opportunity to submit additional facts for consideration, contest any findings made by the Chief Engineer or present any other information you believe should be considered in this matter. A timely-filed request for hearing will stay the deadline for requesting administrative review of this Order pending the outcome of the hearing.



594 .01

Submit To: CHIEF ENGINEER  
Division of Water Resources  
Kansas Department of Agriculture  
1320 Research Park Drive  
Manhattan, KS 66502  
[www.ksda.gov/dwr](http://www.ksda.gov/dwr)

### APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE, THE POINT OF DIVERSION OR THE USE MADE OF THE WATER UNDER AN EXISTING WATER RIGHT



State of Kansas

**Filing Fee Must Accompany the Application**  
(Please refer to Fee Schedule on signature page of application form.)

Paragraph Nos. 1, 2, 3, 4 & 8 must be completed. Complete all other applicable portions. A topographic map or detailed plat showing the authorized and proposed points(s) of diversion and /or place of use must accompany this application.

WATER RESOURCES  
RECEIVED

DEC 09 2016

1:00

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1. Application is hereby made for approval of the Chief Engineer to change the

- Place of Use
- (Check one or more)  Point of Diversion
- Use Made of Water

File No. 10,493

2. Name of applicant: Jerome Goetz

Address: ~~c/o Don Goetz PO Box 24, Park, KS. 67751~~ \* 13563 S Road 45E

City, State and Zip: Park, KS. 67751-5522

Phone Number: (785) 673-9092 E-mail address: \_\_\_\_\_

What is your relationship to the water right;  owner  tenant  agent  other? If other, please explain. \_\_\_\_\_

Name of water use correspondent: Don Goetz \* No Change

Address: PO Box 24

City, State and Zip: Park, KS. 67751

Phone Number: (785)673-9092 E-mail address: \_\_\_\_\_

3. The change(s) proposed herein are desired for the following reasons (please be specific): change is needed to recover the rate of diversion lost with the degradation of the previous point of diversion

The change(s) was completed by August of 2016 (Date)

For Office Use Only:		Meets K.A.R. 5-5-1 (YES) (NO) Use <u>IRP</u> Source <u>G/S</u> County <u>SD</u>		By <u>Adw</u> Date <u>12/9/16</u>
F.O. Code <u>3</u>	GMD <u>4</u>	Fee \$ <u>TCO</u>	TR # _____	Receipt Date <u>12/9/16</u> Check # <u>20946</u>

\* per Par 4  
\* max/own 2/27/17

Water Rights Investigative Service LLC  
Scott E. Ross L.G. GM  
209 S. Ash St.  
Stockton, KS 67669

APPLICATION COMPLETE  
2/24/17  
Reviewer R/K

Assisted by Scott E. Ross

DWR 1-120 (Revised 06/20/2000)

12/14/2016 LCM SCANNED



4. The presently authorized place of use is:

Owner of Land — NAME: No Change in Place of Use is proposed

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

(If there are more than two landowners, attach additional sheets as necessary.)

5. It is proposed that the place of use be changed to:

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

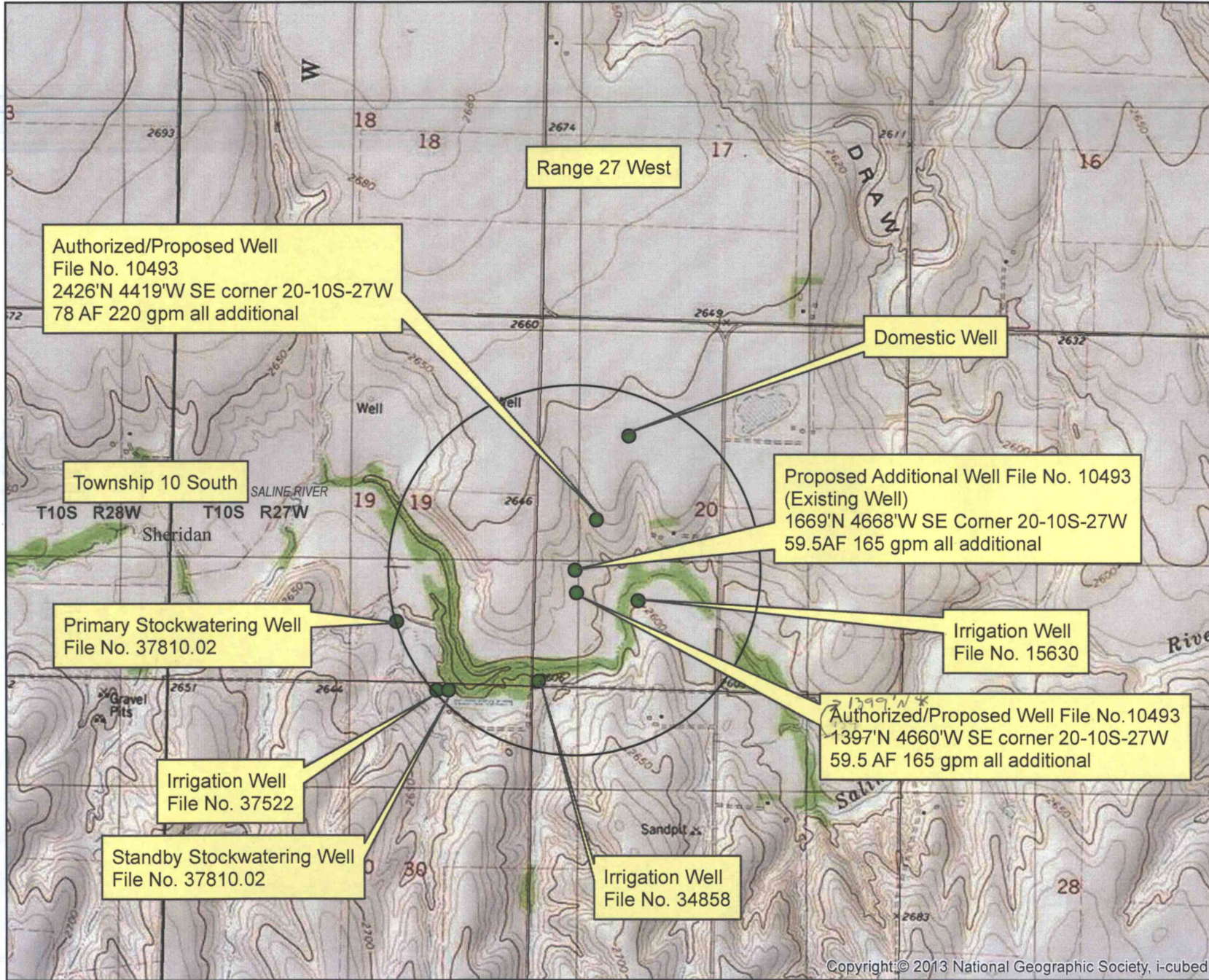
Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

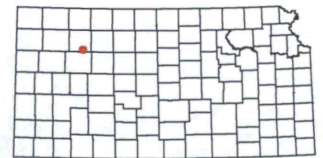
**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

*2011.3.10*

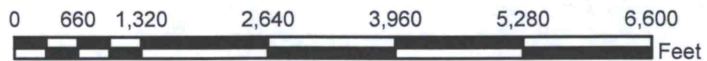
# Change in PD File No. 10493 - Additional Well



Index Map



1:24,000



This map was created by WIMAS on 2/16/2017 9:26:48 AM

\* RAK/dm 2/27/17

6. The presently authorized point(s) of diversion are two wells (Provide description and number of points)
7. The proposed point(s) of diversion are one well and a battery of two wells <sup>three</sup> (Provide description and number of points)

List all presently authorized point(s) of diversion:

8. **Presently authorized point of diversion:**

One in the NE Quarter of the NW Quarter of the SW Quarter of Section 20, Township 10 South, Range 27W W, in Sheridan County, Kansas, 2431 feet North 4381 feet West of Southeast corner of section. Authorized Rate 220 GPM Authorized Quantity 78 AF

(DWR use only: Computer ID No. \_\_\_\_\_ \* GPS 2426 feet North 4419 <sup>NAD27</sup> feet West)

This point will not be changed  This point will be changed as follows: <sup>Better Describe w/ GPS</sup>

**Proposed point of diversion: (Complete only if change is requested)**

One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ W, in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section. Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_

This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

9. **Presently authorized point of diversion:**

One in the SW Quarter of the NW Quarter of the SW Quarter of Section 20, Township 10 South, Range 27W W, in Sheridan County, Kansas, 1369 feet North 4665 feet West of Southeast corner of section. Authorized Rate 330 GPM Authorized Quantity 119 AF

(DWR use only: Computer ID No. 9/PD IV 10 85307 GPS 1397 <sup>\*\*1399</sup> feet North 4660 feet West)

This point will not be changed  This point will be changed as follows:

**Proposed point of diversion: (Complete only if change is requested) A battery with a Geo Center at this location**

One in the SW Quarter of the NW Quarter of the SW Quarter of Section 20, Township 10 South, Range 27W W, in Sheridan County, Kansas, 1515 <sup>(\*) Sec Below</sup> feet North 4661 feet West of Southeast corner of section. Proposed Rate 165 <sup>330</sup> GPM Proposed Quantity 59.5 <sup>119</sup> AF \* NAD 27 1534' N 4665' W 1397' N 4660' W

This point is:  Additional Well  Geo Center List other water rights that will use this point \*\*1399'

10. **Presently authorized point of diversion:**

One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ W, in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section. Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_

(DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)

This point will not be changed  This point will be changed as follows:

**Proposed point of diversion: (Complete only if change is requested)** Additional Well - Existing <sup>ID 7 PDW 10 84261</sup>

One in the SW Quarter of the NW Quarter of the SW Quarter of Section 20, Township 10 South, Range 27 W, in Sheridan County, Kansas, 1669 feet North 4668 feet West of Southeast corner of section. Proposed Rate 165 gpm Proposed Quantity 59.5 AF

This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. Both wells will be used

\* Modification to Additional Well per Statement dated 2-15-17 From Jerry Coetz

\*\* NAD 83 feet distances submitted converted to NAD 27 by Stockton FO

\* RAK/DWR 1/3/17 See Attached

\*\* RAK/DWR 2/27/17 " "

WATER RESOURCES RECEIVED

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KS DEPT OF AGRICULTURE

EPH.O.

12. The presently authorized use of water is for irrigation purposes.  
It is proposed that the use be changed to no change purposes.

13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.

NA

(Please show any calculations here.)

14. It is requested that the maximum annual quantity of water be reduced to NA (acre-feet or million gallons).

15. It is requested that the maximum rate of diversion of water be reduced to NA gallons per minute (NA c.f.s.).

16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 ([www.usgs.gov](http://www.usgs.gov)). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.

a. If a change in the location of the point(s) of diversion is proposed, show:

- 1) The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
- 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
- 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.

b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.

17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.

See attached report

18. If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.

No waiver is requested

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

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894.01

FILE NO. 10.493

Any use of water that is not as authorized by the water right or permit to authorize water **before** the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

**The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse.** If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of use as identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application, I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.

Dated at Topeka, KS, Kansas, this 6<sup>th</sup> day of December, 2016.

Jerome Goetz  
(Owner)

Jerome Goetz  
(Please Print)

(Owner)

(Please Print)

(Owner)

(Please Print)

Alvin Goetz  
(Spouse)

Alice Goetz  
(Please Print)

(Spouse)

(Please Print)

(Spouse)

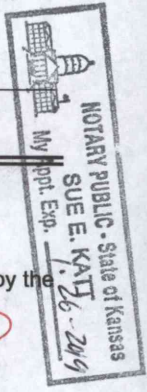
(Please Print)

State of Kansas }  
County of Sheridan } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 6<sup>th</sup> day of December, 2016.

Sue E. Katt  
Notary Public

My Commission Expires 1-26-2019.



**FEE SCHEDULE**

Each application to change the place of use, the point of diversion or the use made of the water under this section shall be accompanied by the application fee set forth in the schedule below:

- (1) Application to change a point of diversion 300 feet or less ..... \$100
- (2) Application to change a point of diversion more than 300 feet ..... \$200
- (3) Application to change the place of use ..... \$200
- (4) Application to change the use made of the water ..... \$300

Make check payable to **Kansas Department of Agriculture.**

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\* NAD 27 modifications

WATER RIGHTS INVESTIGATIVE SERVICE  
209 SOUTH ASH ST. STOCKTON, KANSAS 67669-1921 (785) 543-8254

REPORT FOR WATER RIGHT FILE NO. 10,493

By

Scott E. Ross L.G.

On November 16, 2016, I spoke to Don Goetz, operator of this right, regarding his desire to gain approval from the Division of Water Resources to change one point of diversion currently authorized under this right to a battery of two wells and a single well. He advised that he had been in contact with the Stockton Field Office and been directed to hire someone qualified to examine the geology of the area and determine the source of supply for these wells. He was further advised that if the source was determined to be Saline River Alluvium, the area was open and conversion to a battery of wells was possible. Don Goetz and I agreed to investigate the area and determine the source of supply and its relationship to adjacent Ogallala Aquifer.

On November 21, 2016, I met Don Goetz at his office near the location of the well in question. At this time, we studied the well locations, obtaining the GPS coordinates of the wells under File No. 10,493 as well as the domestic well used by his father and the owner of File No. 10,493, Jerome Goetz. Don Goetz also reviewed the history of this file from his perspective, giving me the dates and locations of several re-drills and the results of that drilling. He further explained that with this latest re-drill, the replacement well simply did not produce enough water to produce the authorized rate of diversion. The goal of this project is to recover the rate of diversion.

The well locations are all within Section 20, Township 10 South, Range 27 W using datum NAD 83. There locations are as follows:

Water Right File No. 10,493 (North Well) Approximate elevation 2645 feet above msl.

39.16869 N X -100.365533 W or 2408 feet North X 4424 feet West of the Southeast Corner of said section;

\* NAD27 39.16868 -100.36518 2428' 4419' \* To Remain Authorized

Water Right File No. 10,493 (North Well of the proposed battery) Approximate elevation 2625 above msl.

39.16661 N X -100.36641W or 1650 feet North X 4665 feet West of the Southeast Corner of said section; NAD27 39.16660, 100.365995 1669'N 4668'W \* Additional Well

Water Right File No. 10,493 (South well of the proposed battery) Approximate elevation 2623 feet above msl.

39.16587 N X -100.36638 or 1380 feet North X 4667 feet West of the Southeast Corner of said section;

\* NAD 27 39.16586 -100.36597 1397' 4660' \* To Remain Authorized  
1399'N, 4660'W

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\* Request Changed From Battery to Additional Well per 2/15/17 request Jerome Goetz

\* RAK/DWR 2/16/17

\* NAD27 \* GEO CENTER BAR OF 2

39.16623 -100.36598 1534'N, 4663'W

\* NAD 27 Conversion From Mark Billinger \* RAK/DWR 1/3/17

Stockton FO 1/3/17

SCANNED

## **Jerome Goetz domestic well**

39.16946 N X -100.36571 W or 2868 feet North X 4465 feet West.

After our field review of this file, I located well logs posted on the Kansas Geological Survey website for wells in the area adjacent to those wells under File No. 10,493. I then plotted the locations of these well and their relative static water levels (SWL), the total depth of the well and the location of various geologic markers. I have included with this report a segment of the geologic plate attached to the Kansas Geological Survey Bulletin No. 116, The Geology and Groundwater Resources of Sheridan County, Kansas along with the pertinent portion of the legend from that plate. However, this technical data does not completely explain the jargon used by most local well drillers when completing these well logs. Based on a number of years and a general familiarity with these drillers and their work, I offer my interpretation of their use of these terms. Further, their use of these terms can more easily illustrate the changing sources as the attached cross section moves from the northern most well in Section 17, to the south well located in Section 30, again all wells are in Township 10 South, Range 27 West, Sheridan County, KS.

**Well A** from the cross-section lists "Ochre" as its base material. Ochre is a term used to describe the yellow limestone found in the upper most portion of the Smoky Hill Chalk Member of the Niobrara Formation. This soft limestone serves as the base under the High Plains Ogallala Aquifer as well as most of the Alluvial Aquifers in this area. While the log itself does not give any significant detail as to the aquifer and does not include any mention of any units distinctly Ogallala Aquifer, it does provide a relative location of the base.

**Well B** from the cross-section lists "Caliche" as the unit immediately above the base "ochre" in this well. Caliche is a term used locally and especially by Woofter Drilling to describe those portions of the Ogallala Aquifer which are most heavily cemented with a dense calcite cement. This term is locally unique in its description of those beds of the Ogallala Aquifer which form a semi-confining unit. In this location, just above the base of this well, it indicates the material above it is Ogallala Aquifer. The base of this well is again described as "ochre". It is also useful to note when comparing its relative location and elevation to other wells, the caliche of this well is above the base of the wells further south in the cross-section.

**Well C** lists as its base, "shale and oker". Again, we find the use of this term "oker" to describe the base of the well as the Smoky Hill Chalk Member of the Niobrara Formation. It is important to consider the unit descriptions used by the driller, absent are terms that might indicate Ogallala Aquifer such as, caliche, sandstone, and cemented sandstone. The Ogallala Aquifer typically has units of relatively higher calcite cement and are frequently described as using these terms. The base "oker" in this well is also well below the base of the wells to the north and the static water level is only slightly above the base of Well B which may relate to the time it was taken.

**Well D** is the northern well currently authorized under File No. 10,493. This well location and its elevation are important to establish is horizontal and vertical location relative to both the wells to the north and those to the south. This well log makes no mention of the Ogallala Aquifer terms such as caliche or sandstone and it uses the terms black shale and ochre to describe the base. This mixing of the base material is frequently used to describe the base of alluvial wells where the contact of the erosional surfaces of the Niobrara Formation and the

deposition of the alluvial material interface. This is the point where local drillers find that the formation below this interface represents a mixing of the alluvial clay and the Niobrara limestone, units below this interface will not produce any water.

**Well E** represents the most recent log from the drilling to replace the southern most well under File No. 10,493 This log has a surface elevation of approximately 22 feet below the northern well under this right. However, the static water levels indicate they are both producing water from a source with very similar static water levels. Again and variability in the static water levels may reflect more about the time of the measurement. Further, this well log also fails to describe any characteristics normally used to describe Ogallala Aquifer units. Finally, it is useful to note that Well E when compared to the stream bed elevation of the nearby Saline River (Location F) clearly indicates a surface connection.

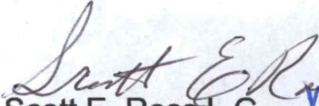
**Well G**, the farthest south well in the cross-section in Section 30, Township 10 South, Range 27 West in Sheridan County, KS. This well log was chosen to illustrate the changes in geology and source of supply that occur when moving from the Saline River Alluvium to the adjacent Ogallala Aquifer. While this log did not list a static water level, it does provide some insight into the use of the terms utilized above to describe the Ogallala Aquifer. This well log records the units of the Ogallala Aquifer in much more detail than we find in the other logs. This is a record of the units encountered in drilling and serve to illustrate what can be expected to be seen in a normal drilling into the High Plains Ogallala Aquifer. Complete with the use of the terms caliche, sandstone, cemented sand, and again the "yellow ochre" base of the aquifer. It is not clear from the log of this hole whether it was able to produce any water. The log indicates that it was only completed to 70 feet which typically means only units above 70 feet produced any water if it was used. It is important to note that the base of this well is at or near the elevation of the stream bed of the Saline River near the wells in this report.

### Conclusions

The drilling samples from drilling any of these wells have long been incorporated in the adjacent soil profile or discarded, so an actual comparison is not possible. However, the elevations and unit descriptions from the well logs of these various wells illustrates the fact that the wells currently authorized under Water Right File No. 10,493 have as their source of supply the Quaternary Alluvium and/or a small portion of the connected Quaternary Terrace. The basal material found on both the north and south sides of the Saline River valley walls confirm that these Quaternary sources have little if any connection to the adjacent and higher Ogallala Aquifer. As wells diverting water from the Saline River Alluvium, they are not subject to the restrictions of a closed area. Thus, the proposed change in point of diversion is an option available to the applicants.

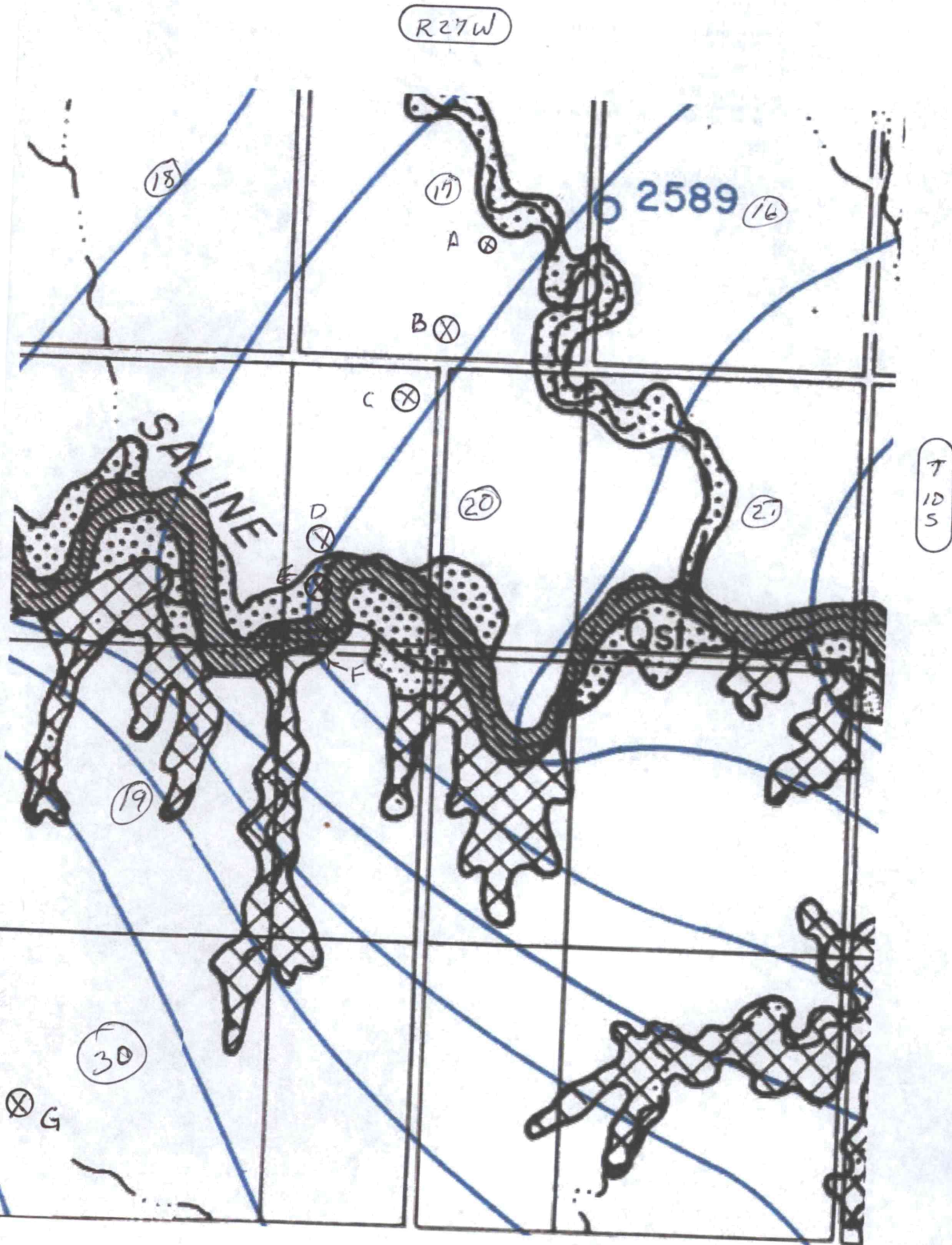
### Attachments:

- Portion KGS Geology Plate
- Associated Legend
- Area Cross- Section
- Map of Cross-Section
- Log of wells in the Cross-Section

  
Scott E. Ross L.G. WATER RESOURCES RECEIVED



From KGS Bulletin No. 116  
GEOLOGY AND GROUND WATER RESOURCES  
OF  
SHERIDAN County, KS.



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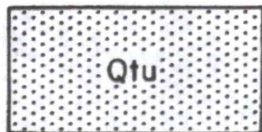
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**Alluvium**

Unconsolidated sand, gravel, and silt along the major stream valleys. Yields moderate supplies of water to wells.



T.  
6  
S.

**Undifferentiated valley deposits**

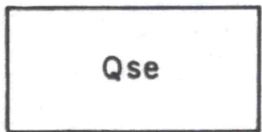
Silt, clay, sand, and gravel. Includes alluvium, terrace and slope wash materials along the major streams and tributaries where the deposits are not mappable as separate units. Yields moderate to small amounts of water to wells.



**Sanborn formation**

**Wisconsinan terrace deposits**

Sand, gravel, silt, and clay. Forms low terrace along major stream valleys. Yields moderate to large supplies of water to wells.



**Sanborn formation  
Eolian deposits**

Tan to reddish-brown silt. Lies above water table and yields no water to wells. Includes Bignall, Peorian and Loveland members.



T.  
7

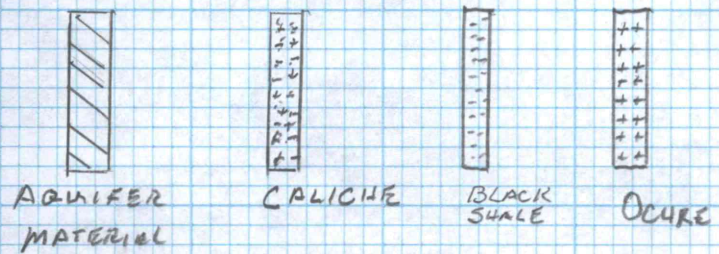
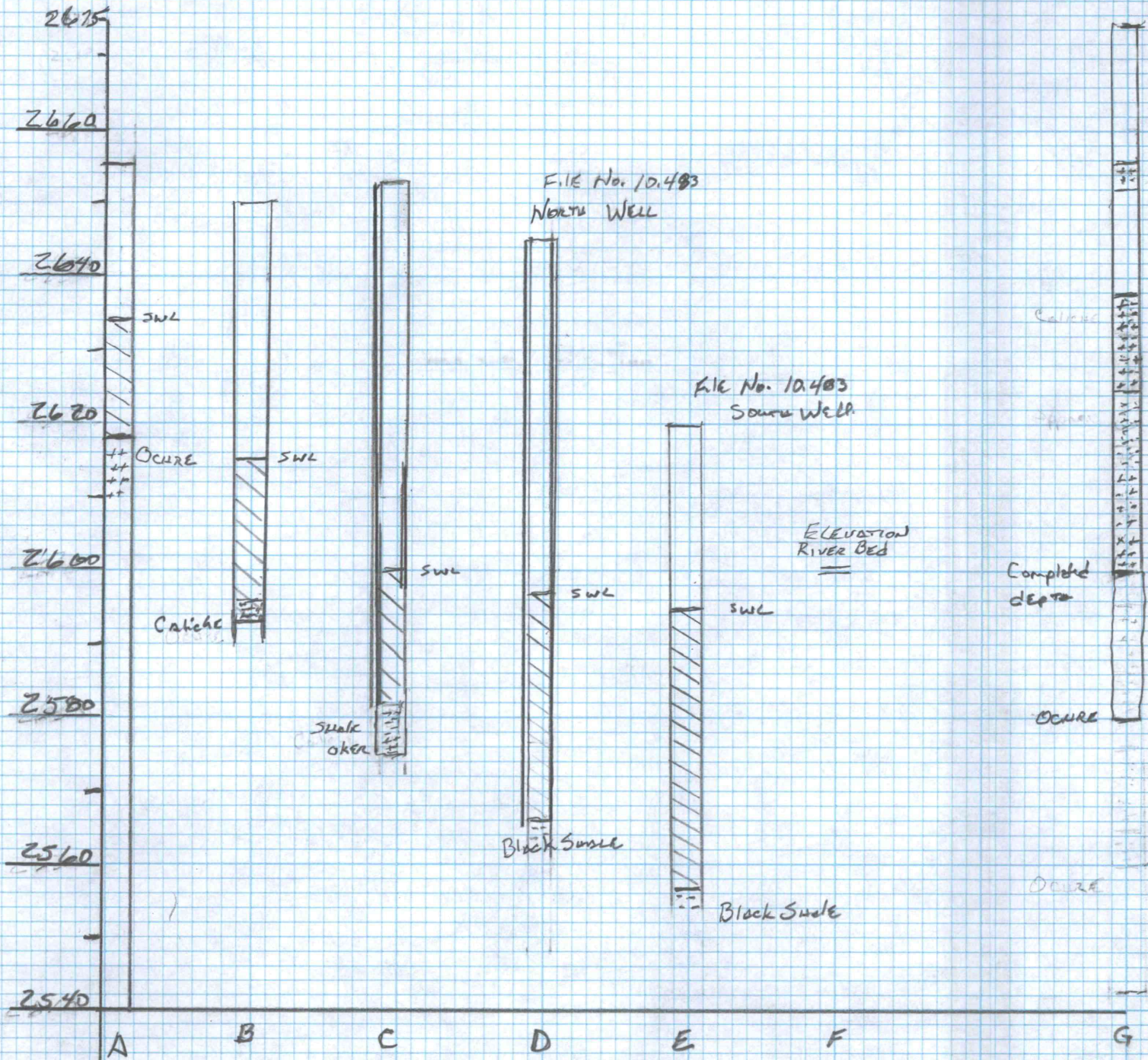
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# DON GOETZ Cross Section Sections 17, 20, 30 T103, R21W



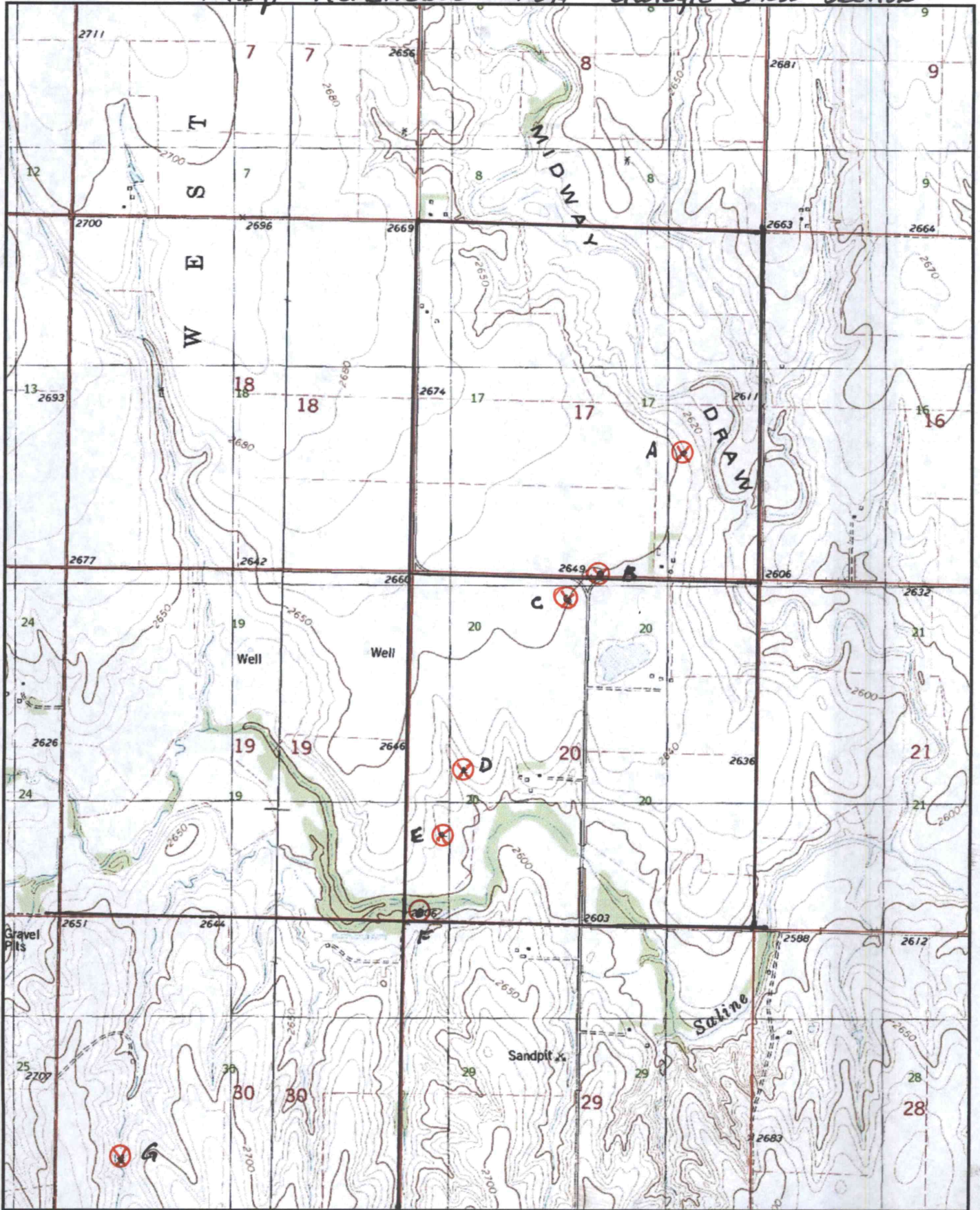
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MAP REFERENCE FOR Geologic Cross-Section



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Universal Transverse Mercator (UTM) Projection Zone 14  
North American Datum of 1983

1:24000 scale



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WELL A

WATER WELL RECORD Form WWC-5 KSA 82a-1212

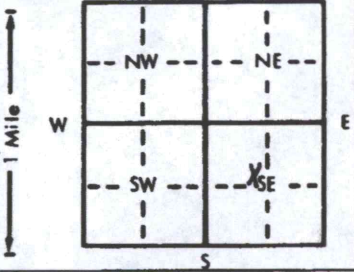
1 LOCATION OF WATER WELL: County: <u>Shawnee</u>	Fraction <u>SE 1/4 NW 1/4 SE 1/4</u>	Section Number <u>17</u>	Township Number T <u>10</u> S	Range Number R <u>27</u> E <u>10</u>
---	---	-----------------------------	----------------------------------	---

Distance and direction from nearest town or city street address of well if located within city?

7 N 1/2 E of Park

2 WATER WELL OWNER: Leo Spoty  
 RR#, St. Address, Box # :  
 City, State, ZIP Code : Park, KS  
 Board of Agriculture, Division of Water Resources  
 Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL: 37 ft. ELEVATION:  
 Depth(s) Groundwater Encountered 1. 21 ft. 2. ft. 3. ft.  
 WELL'S STATIC WATER LEVEL: 21 ft. below land surface measured on mo/day/yr 8-28-81  
 Pump test data: Well water was ft. after hours pumping gpm  
 Est. Yield 20 gpm: Well water was ft. after hours pumping gpm  
 Bore Hole Diameter: 9 in. to 37 ft., and in. to ft.  
 WELL WATER TO BE USED AS:  
 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)  
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Observation well  
 Was a chemical/bacteriological sample submitted to Department? Yes.....No  If yes, mo/day/yr sample was submitted  
 Water Well Disinfected? Yes  No

5 TYPE OF BLANK CASING USED:  
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued  Clamped  
 2 Brass 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded  
 PVC 7 Fiberglass Threaded  
 Blank casing diameter 0 in. to 27 ft., Dia. in. to ft., Dia. in. to ft.  
 Casing height above land surface 12 in., weight lbs./ft. Wall thickness or gauge No. 214  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  
 PVC 10 Asbestos-cement  
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify)  
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE:  
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped  8 Saw cut 11 None (open hole)  
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes  
 7 Torch cut 10 Other (specify)  
 SCREEN-PERFORATED INTERVALS: From 27 ft. to 37 ft., From ft. to ft.  
 GRAVEL PACK INTERVALS: From 20 ft. to 37 ft., From ft. to ft.

6 GROUT MATERIAL:  1 Neat cement 2 Cement grout 3 Bentonite 4 Other  
 Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft.  
 What is the nearest source of possible contamination:  
 1 Septic tank 4 Lateral lines 7 Pit privy 11 Fuel storage 14 Abandoned water well  
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 15 Oil well/Gas well  
 3 Water supply lines 6 Seepage pit 9 Feedyard 13 Insecticide storage 16 Other (specify below)  
 Direction from well? 2 R T S L How many feet? 800

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	16	Top soil			
16	37	Sandy clay			
37	37	M. Sand			
37	37	Oil			

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7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was  constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 8-28-81 and this record is true to the best of my knowledge and belief. Kansas  
 Water Well Contractor's License No. 376 This Water Well Record was completed on (mo/day/yr) 8-3-81  
 under the business name of B+B Drilling by (signature) Joseph Beckman

INSTRUCTIONS: Use typewriter or ball point pen, PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top

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OFFICE USE ONLY  
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NW 1/4  
SE 1/4

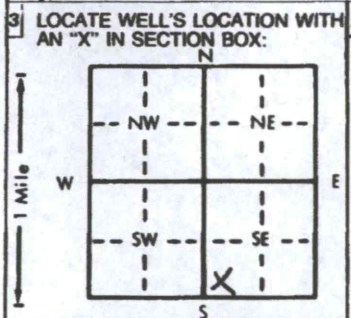
Well B

WATER WELL RECORD Form WWC-5 KSA 82a-1212

1 LOCATION OF WATER WELL: Fraction SE 1/4 SE 1/4 SE 1/4 Section Number 17 Township Number T 10 S Range Number R 27 **B/W**

Distance and direction from nearest town or city street address of well if located within city?  
5 Miles North of Park, Kansas

2 WATER WELL OWNER: Albert Goetz  
RR#, St. Address, Box #: Park, Kansas 67751  
City, State, ZIP Code: Board of Agriculture, Division of Water Resources  
Application Number:



4 DEPTH OF COMPLETED WELL: 47 ft. ELEVATION:  
Depth(s) Groundwater Encountered 1. . . . . ft. 2. . . . . ft. 3. . . . . ft.  
WELL'S STATIC WATER LEVEL . . . . . 33.5 ft. below land surface measured on mo/day/yr  
Pump test data: Well water was . . . . . ft. after . . . . . hours pumping . . . . . gpm  
Est. Yield . . . . . gpm: Well water was . . . . . ft. after . . . . . hours pumping . . . . . gpm  
Bore Hole Diameter: 8 in. to 47 ft., and . . . . . in. to . . . . . ft.  
WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well  
1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)  
2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well  
Was a chemical/bacteriological sample submitted to Department? Yes. . . . . No ; If yes, mo/day/yr sample was submitted  
Water Well Disinfected? Yes No

5 TYPE OF BLANK CASING USED:  
1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued  Clamped . . . . .  
2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded . . . . .  
Blank casing diameter: 4.5 in. to 27 ft., Dia. . . . . in. to . . . . . ft., Dia. . . . . in. to . . . . . ft.  
Casing height above land surface: 18 in., weight 2.38 lbs./ft. Wall thickness or gauge No. 248  
TYPE OF SCREEN OR PERFORATION MATERIAL: 7 PVC 10 Asbestos-cement  
1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify) . . . . .  
2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)  
SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)  
1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes  
2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) . . . . .  
SCREEN-PERFORATED INTERVALS: From 27 ft. to 47 ft., From . . . . . ft. to . . . . . ft.  
From . . . . . ft. to . . . . . ft., From . . . . . ft. to . . . . . ft.  
GRAVEL PACK INTERVALS: From 20 ft. to 47 ft., From . . . . . ft. to . . . . . ft.  
From . . . . . ft. to . . . . . ft., From . . . . . ft. to . . . . . ft.

6 GROUT MATERIAL: 0 1 Neat cement 20 2 Cement grout 3 Bentonite 4 Other . . . . .  
Grout Intervals: From . . . . . ft. to . . . . . ft., From . . . . . ft. to . . . . . ft.  
What is the nearest source of possible contamination:  
1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well  
2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well  
3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)  
13 Insecticide storage . . . . .  
Direction from well? East How many feet? 100'

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	3	Surface			
3	7	Silty Clay			
7	14	Clay			
14	17	Med. Sand			
17	40	Med. Sand & Clay Strks.			
40	41	Hard Caliche Strks.			
41	47	Ochre			

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7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 7-30-92 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 554 This Water Well Record was completed on (mo/day/yr) 8-7-92 under the business name of WOOFER PUMP & WELL, INC. by (signature) [Signature]

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0001. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

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OFFICE USE ONLY  
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SEC.  
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1/4

Well C

WATER WELL RECORD Form WWC-5 KSA 82a-1212

1 LOCATION OF WATER WELL: County: <u>Sheridan</u>	Fraction <u>NE</u> <u>NE</u> 1/4 <u>NE</u> 1/4 <u>NW</u> 1/4	Section Number <u>20</u>	Township Number <u>T 10 S</u>	Range Number <u>R 27 EW</u>
--	---	-----------------------------	----------------------------------	--------------------------------

Distance and direction from nearest town or city street address of well if located within city?

3 north of Park

2 WATER WELL OWNER: Dale Geotz  
 RR#, St. Address, Box #: Grainfield, Ks 67737  
 City, State, ZIP Code: \_\_\_\_\_  
 Board of Agriculture, Division of Water Resources  
 Application Number: \_\_\_\_\_

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:

4 DEPTH OF COMPLETED WELL: 65 ft. ELEVATION: \_\_\_\_\_  
 Depth(s) Groundwater Encountered 1. \_\_\_\_\_ ft. 2. \_\_\_\_\_ ft. 3. \_\_\_\_\_ ft.  
 WELL'S STATIC WATER LEVEL: 43 ft. below land surface measured on mo/day/yr 9-1-88  
 Pump test data: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Est. Yield \_\_\_\_\_ gpm: Well water was not tested \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Bore Hole Diameter: 8 in. to 65 ft., and \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 WELL WATER TO BE USED AS:  
 5 Public water supply 8 Air conditioning 11 Injection well  
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)  
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Observation well  
 Was a chemical/bacteriological sample submitted to Department? Yes \_\_\_\_\_ No X; If yes, mo/day/yr sample was submitted \_\_\_\_\_  
 Water Well Disinfected? Yes X No \_\_\_\_\_

5 TYPE OF BLANK CASING USED:  
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued X Clamped \_\_\_\_\_  
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded \_\_\_\_\_  
 7 Fiberglass Threaded \_\_\_\_\_  
 Blank casing diameter: 5.75 in. to 55 ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Casing height above land surface: 18 in., weight 1.8/10 lbs./ft. Wall thickness or gauge No. 1/4  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement  
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify) \_\_\_\_\_  
 12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE:  
 5 Gauzed wrapped 8 Saw cut 11 None (open hole)  
 1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes  
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) \_\_\_\_\_  
 SCREEN-PERFORATED INTERVALS: From 55 ft. to 65 ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 GRAVEL PACK INTERVALS: From 18 ft. to 65 ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other \_\_\_\_\_  
 Grout intervals: From 4 ft. to 18 ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 What is the nearest source of possible contamination:  
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well  
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well  
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below) pasture  
 13 Insecticide storage  
 Direction from well? \_\_\_\_\_ How many feet? \_\_\_\_\_

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	31	top soil			
31	44	sand and clay strips			
44	52	sand			
52	54	sand			
54	63	sand good			
63	65	oker and shale			

WATER RESOURCES RECEIVED  
 DEC 09 2016  
 KS DEPT OF AGRICULTURE

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 9-1-88 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No 139 This Water Well Record was completed on (mo/day/yr) 7-7-89 under the business name of Bartell Drilling by (signature) Jayne Bartell  
 INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment Bureau of Water Protection Topeka, Kansas 66620-7320. Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your

WCCC D



WATER WELL RECORD Form WWC-5 1306132

Division of Water Resources App. No. 10493 Well ID

Original Record  Correction  Change in Well Use

1 LOCATION OF WATER WELL: County: Sheridan Fraction NW 1/4 NE 1/4 NW 1/4 SW 1/4 Section Number 20 Township Number T 10 S Range Number R 27 E W

2 WELL OWNER: Last Name: Goetz First: Jerome Street or Rural Address where well is located intersection of 130 S & 40 E

3 LOCATE WELL WITH "X" IN SECTION BOX: N W E S 1 mile

4 DEPTH OF COMPLETED WELL: 73 ft. Depth(s) Groundwater Encountered: 1) 48 ft. 2) ... ft. 3) ... ft. or 4) Dry Well WELL'S STATIC WATER LEVEL: 48 ft. below land surface, measured on (mo-day-yr) 05/07/2016

5 Latitude: 39.1687 (decimal degrees) Longitude: 100.3654 (decimal degrees) Datum:  WGS 84  NAD 83  NAD 27

6 Elevation: 2631 ft.  Ground Level  TOC Source:  Land Survey  GPS  Topographic Map  Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic:  Household  Lawn & Garden  Livestock 2.  Irrigation 3.  Feedlot 4.  Industrial 5.  Public Water Supply: well ID 6.  Dewatering: how many wells? 7.  Aquifer Recharge: well ID 8.  Monitoring: well ID 9. Environmental Remediation: well ID  Air Sparge  Soil Vapor Extraction  Recovery  Injection 10.  Oil Field Water Supply: lease 11. Test Hole: well ID  Cased  Uncased  Geotechnical 12. Geothermal: how many bores? a) Closed Loop  Horizontal  Vertical b) Open Loop  Surface Discharge  Inj. of Water 13.  Other (specify):

Was a chemical/bacteriological sample submitted to KDHE?  Yes  No If yes, date sample was submitted:

8 TYPE OF CASING USED:  Steel  PVC  Other CASING JOINTS:  Glued  Clamped  Welded  Threaded Casing diameter 16 in. to 33 ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface 18 in. Weight 16.150 lbs./ft. Wall thickness or gauge No. 500

TYPE OF SCREEN OR PERFORATION MATERIAL:  Steel  Stainless Steel  Fiberglass  PVC  Brass  Galvanized Steel  Concrete tile  None used (open hole)  Other (Specify)

SCREEN OR PERFORATION OPENINGS ARE:  Continuous Slot  Mill Slot  Gauze Wrapped  Torch Cut  Drilled Holes  Other (Specify)  Louvered Shutter  Key Punched  Wire Wrapped  Saw Cut  None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 33 ft. to 73 ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From 20 ft. to 73 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL:  Neat cement  Cement grout  Bentonite  Other Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:  Septic Tank  Lateral Lines  Pit Privy  Livestock Pens  Insecticide Storage  Sewer Lines  Cess Pool  Sewage Lagoon  Fuel Storage  Abandoned Water Well  Watertight Sewer Lines  Seepage Pit  Feedyard  Fertilizer Storage  Oil Well/Gas Well  Other (Specify)

Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
---------	----	----------------	------	----	--

0	2	surface			
2	23	loess			
23	66	fine & med sand & gravel			
66	80	ellow ochre/black shale			

WATER RESOURCES RECEIVED

DEC 09 2016

Notes: KS DEPT OF AGRICULTURE

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was  constructed,  reconstructed, or  plugged under my jurisdiction and was completed on (mo-day-year) 05/05/2016 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 881 This Water Well Record was completed on (mo-day-year) 05/09/2016 under the business name of Woofter Pump and Well, Inc.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. KS Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephonic 785-296-3565. Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212

SCANNED



WELL E



WATER WELL RECORD Form WWC-5 1305733

Division of Water Resources App. No.

10493

Well ID

Original Record  Correction  Change in Well Use

1 LOCATION OF WATER WELL:

County: Sheridan

Fraction SE 1/4 SW 1/4 NW 1/4 SW 1/4

Section Number 20

Township Number T 10 S

Range Number R 27  E  W

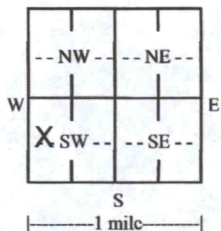
2 WELL OWNER: Last Name: Goetz

First: Jerome

Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here:  intersection of 130 S & 40 E--1/2 south

Business: Address: 13563 S Rd 45 E Address: City: Park State: KS ZIP: 67751

3 LOCATE WELL WITH "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL: 63 ft. Depth(s) Groundwater Encountered: 1) 25 ft. 2) ... ft. 3) ... ft. or 4)  Dry Well WELL'S STATIC WATER LEVEL: 25 ft.  below land surface, measured on (mo-day-yr) 05/02/2016  above land surface, measured on (mo-day-yr) ... Pump test data: Well water was ... ft. after ... hours pumping ... gpm Well water was ... ft. after ... hours pumping ... gpm Estimated Yield: 312 gpm Bore Hole Diameter: 28 in. to 63 ft. and ... in. to ... ft.

5 Latitude: 39.1658 (decimal degrees) Longitude: 100.3664 (decimal degrees) Datum:  WGS 84  NAD 83  NAD 27 Source for Latitude/Longitude:  GPS (unit make/model: ...) (WAAS enabled?  Yes  No)  Land Survey  Topographic Map  Online Mapper: ... 6 Elevation: 2607 ft.  Ground Level  TOC Source:  Land Survey  GPS  Topographic Map  Other: KOLAR

7 WELL WATER TO BE USED AS:

- 1. Domestic:  Household  Lawn & Garden  Livestock 2.  Irrigation 3.  Feedlot 4.  Industrial 5.  Public Water Supply: well ID ... 6.  Dewatering: how many wells? ... 7.  Aquifer Recharge: well ID ... 8.  Monitoring: well ID ... 9. Environmental Remediation: well ID ...  Air Sparge  Soil Vapor Extraction  Recovery  Injection 10.  Oil Field Water Supply: lease ... 11. Test Hole: well ID ...  Cased  Uncased  Geotechnical 12. Geothermal: how many bores? ... a) Closed Loop  Horizontal  Vertical b) Open Loop  Surface Discharge  Inj. of Water 13.  Other (specify): ...

Was a chemical/bacteriological sample submitted to KDHE?  Yes  No If yes, date sample was submitted: ... Water well disinfected?  Yes  No

8 TYPE OF CASING USED:  Steel  PVC  Other ... CASING JOINTS:  Glued  Clamped  Welded  Threaded Casing diameter 16 in. to 23 ft., Diameter ... in. to ... ft., Diameter ... in. to ... ft. Casing height above land surface 18 in. Weight 16.150 lbs./ft. Wall thickness or gauge No. 500

TYPE OF SCREEN OR PERFORATION MATERIAL:

- Steel  Stainless Steel  Fiberglass  PVC  Other (Specify) ...  Brass  Galvanized Steel  Concrete tile  None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:

- Continuous Slot  Mill Slot  Gauze Wrapped  Torch Cut  Drilled Holes  Other (Specify) ...  Louvered Shutter  Key Punched  Wire Wrapped  Saw Cut  None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 23 ft. to 63 ft., From ... ft. to ... ft., From ... ft. to ... ft. GRAVEL PACK INTERVALS: From 20 ft. to 63 ft., From ... ft. to ... ft., From ... ft. to ... ft.

9 GROUT MATERIAL:  Neat cement  Cement grout  Bentonite  Other ... Grout Intervals: From 0 ft. to 20 ft., From ... ft. to ... ft., From ... ft. to ... ft.

Nearest source of possible contamination:

- Septic Tank  Lateral Lines  Pit Privy  Livestock Pens  Insecticide Storage  Sewer Lines  Cess Pool  Sewage Lagoon  Fuel Storage  Abandoned Water Well  Watertight Sewer Lines  Seepage Pit  Feedyard  Fertilizer Storage  Oil Well/Gas Well  Other (Specify) ...

Direction from well? ... Distance from well? ... ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	surface			
2	18	loess			
18	45	fine & med sand & gravel			
45	63	black shale			

WATER RESOURCES RECEIVED

DEC 09 2016

Notes:

KS DEPT OF AGRICULTURE

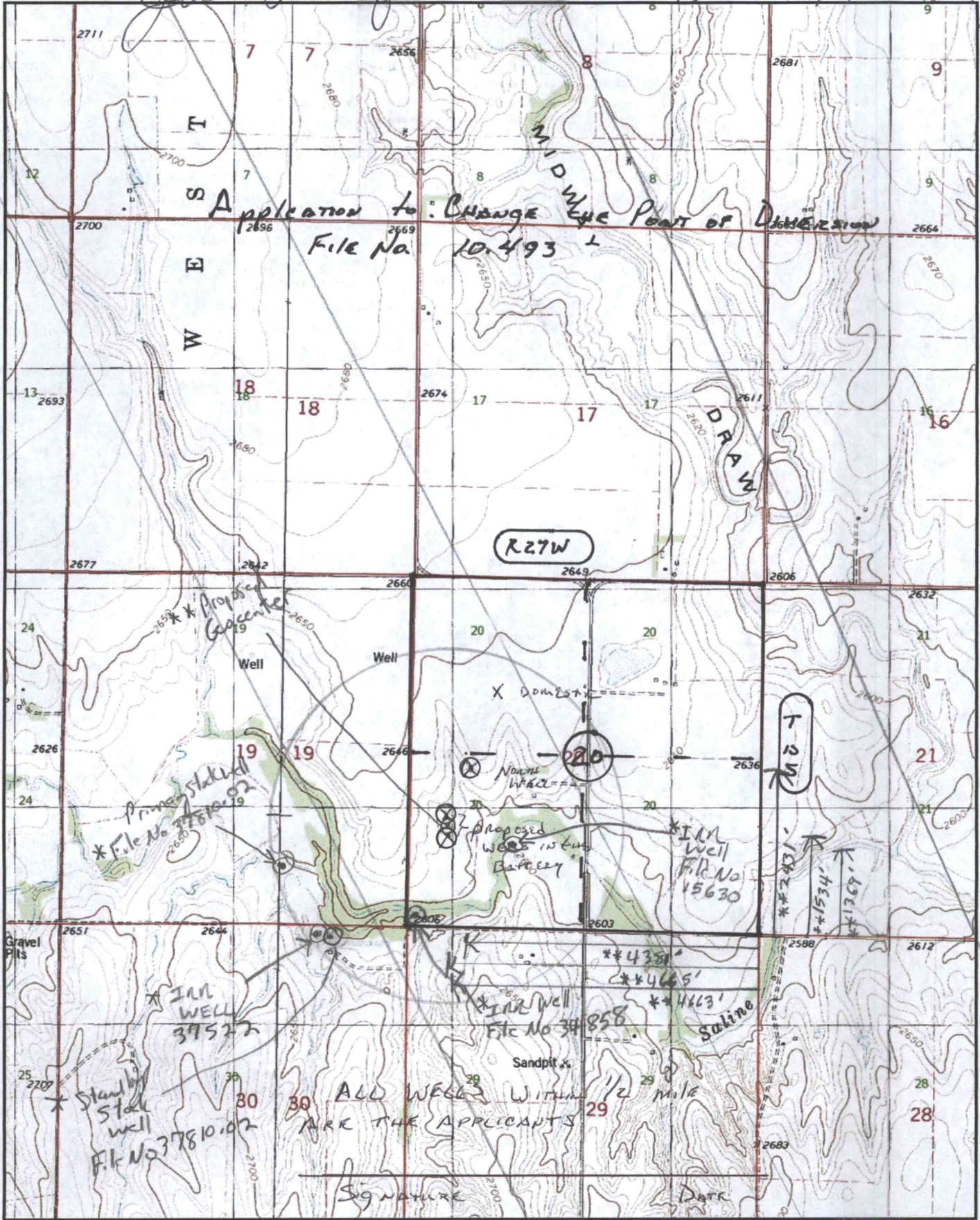
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was  constructed,  reconstructed, or  plugged under my jurisdiction and was completed on (mo-day-yr) 04/21/2016 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 881 This Water Well Record was completed on (mo-day-yr) 05/04/2016 under the business name of Woofter Pump and Well, Inc.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

KS Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephonic 785-296-3565. Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212

SCANNED

*Jerome Galt* *Alvin Galt* *See updated Map Created 2/16/17*



Application to Change the Point of Discharge  
File No. 10,493

R27W

T 1513

ALL WELLS WITHIN 1/2 MILE ARE THE APPLICANTS

Signature \_\_\_\_\_ Date \_\_\_\_\_

WATER RESOURCES RECEIVED

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Universal Transverse Mercator (UTM) Projection Zone 14  
North American Datum of 1983

1:24000 scale



\* Nearby Nondomestic wells per WNIS & WIMAS  
\* *Rock* 1/3/17  
\*\* Feet Distances & Geocenter per Par Nos 8 & 9  
\*\* *Rock* 1/3/17

\* Request changed to Additional Well  
per 12/19/17 request Jerry Goetz

WATER RIGHTS INVESTIGATIVE SERVICE  
209 SOUTH ASH ST. STOCKTON, KANSAS 67669-1921 (785) 543-8254

REPORT FOR WATER RIGHT FILE NO. 10,493

By

Scott E. Ross L.G.

On November 16, 2016, I spoke to Don Goetz, operator of this right, regarding his desire to gain approval from the Division of Water Resources to change one point of diversion currently authorized under this right to a battery of two wells and a single well. He advised that he had been in contact with the Stockton Field Office and been directed to hire someone qualified to examine the geology of the area and determine the source of supply for these wells. He was further advised that if the source was determined to be Saline River Alluvium, the area was open and conversion to a battery of wells was possible. Don Goetz and I agreed to investigate the area and determine the source of supply and its relationship to adjacent Ogallala Aquifer.

On November 21, 2016, I met Don Goetz at his office near the location of the well in question. At this time, we studied the well locations, obtaining the GPS coordinates of the wells under File No. 10,493 as well as the domestic well used by his father and the owner of File No. 10,493, Jerome Goetz. Don Goetz also reviewed the history of this file from his perspective, giving me the dates and locations of several re-drills and the results of that drilling. He further explained that with this latest re-drill, the replacement well simply did not produce enough water to produce the authorized rate of diversion. The goal of this project is to recover the rate of diversion.

The well locations are all within Section 20, Township 10 South, Range 27 W using datum NAD 83. There locations are as follows:

Water Right File No. 10,493 (**North Well**) Approximate elevation 2645 feet above msl.

39.16869 N X -100.365533 W or 2408 feet North X 4424 feet West of the Southeast Corner of said section;

---

Water Right File No. 10,493 (**North Well of the proposed battery**) Approximate elevation 2625 above msl.

39.16661 N X -100.36641W or 1650 feet North X 4665 feet West of the Southeast Corner of said section;

Water Right File No. 10,493 (**South well of the proposed battery**) Approximate elevation 2623 feet above msl.

39.16587 N X -100.36638 or 1380 feet North X 4657 feet West of the Southeast Corner of said section;

WATER RESOURCES  
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DEC 09 2016

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\* RAK/om 2/16/17

SCANNED

## **Jerome Goetz domestic well**

39.16946 N X -100.36571 W or 2868 feet North X 4465 feet West.

After our field review of this file, I located well logs posted on the Kansas Geological Survey website for wells in the area adjacent to those wells under File No. 10,493. I then plotted the locations of these well and their relative static water levels (SWL), the total depth of the well and the location of various geologic markers. I have included with this report a segment of the geologic plate attached to the Kansas Geological Survey Bulletin No. 116, The Geology and Groundwater Resources of Sheridan County, Kansas along with the pertinent portion of the legend from that plate. However, this technical data does not completely explain the jargon used by most local well drillers when completing these well logs. Based on a number of years and a general familiarity with these drillers and their work, I offer my interpretation of their use of these terms. Further, their use of these terms can more easily illustrate the changing sources as the attached cross section moves from the northern most well in Section 17, to the south well located in Section 30, again all wells are in Township 10 South, Range 27 West, Sheridan County, KS.

**Well A** from the cross-section lists "Ochre" as its base material. Ochre is a term used to describe the yellow limestone found in the upper most portion of the Smoky Hill Chalk Member of the Niobrara Formation. This soft limestone serves as the base under the High Plains Ogallala Aquifer as well as most of the Alluvial Aquifers in this area. While the log itself does not give any significant detail as to the aquifer and does not include any mention of any units distinctly Ogallala Aquifer, it does provide a relative location of the base.

**Well B** from the cross-section lists "Caliche" as the unit immediately above the base "ochre" in this well. Caliche is a term used locally and especially by Woofter Drilling to describe those portions of the Ogallala Aquifer which are most heavily cemented with a dense calcite cement. This term is locally unique in its description of those beds of the Ogallala Aquifer which form a semi-confining unit. In this location, just above the base of this well, it indicates the material above it is Ogallala Aquifer. The base of this well is again described as "ochre". It is also useful to note when comparing its relative location and elevation to other wells, the caliche of this well is above the base of the wells further south in the cross-section.

**Well C** lists as its base, "shale and oker". Again, we find the use of this term "oker" to describe the base of the well as the Smoky Hill Chalk Member of the Niobrara Formation. It is important to consider the unit descriptions used by the driller, absent are terms that might indicate Ogallala Aquifer such as, caliche, sandstone, and cemented sandstone. The Ogallala Aquifer typically has units of relatively higher calcite cement and are frequently described as using these terms. The base "oker" in this well is also well below the base of the wells to the north and the static water level is only slightly above the base of Well B which may relate to the time it was taken.

**Well D** is the northern well currently authorized under File No. 10,493. This well location and its elevation are important to establish is horizontal and vertical location relative to both the wells to the north and those to the south. This well log makes no mention of the Ogallala Aquifer terms such as caliche or sandstone and it uses the terms black shale and ochre to describe the base. This mixing of the base material is frequently used to describe the base of alluvial wells where the contact of the erosional surfaces of the Niobrara Formation and the

2-15-17

To: Division of Water Resources

Regarding file No. 10493, I would like to put 2 pumps of equal size to pump a maximum of 350 gal a minute total together to help me with my 2017 Irrigation Season.

*Jerry Goetz*

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FEB 15 2017

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FEB 15 2017

Stockton Field Office  
Division of Water Resources

To: Division of Water  
Resources

WATER RESOURCES  
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FEB 15 2017

KS DEPT OF AGRICULTURE

From: Jerry Goetz

WATER RESOURCES  
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Attn: Kelly Stewart

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FEB 15 2017

Stockton Field Office  
Division of Water Resources

**Krueger, Richelle**

---

**From:** Stewart, Kelly  
**Sent:** Wednesday, February 15, 2017 1:37 PM  
**To:** Turney, Brent; Krueger, Richelle  
**Subject:** Goetz change application, File No. 10,493  
**Attachments:** 20170215132117154.pdf

WATER RESOURCES  
RECEIVED

FEB 15 2017

KS DEPT OF AGRICULTURE

Brent,

Per my recent telephone conversations with Don Goetz, representing his parents Jerome & Alice Goetz, they desire to modify their pending application from one proposing a battery of two wells to one that is proposing an additional well. Per the enclosed fax from the owners, they are requesting that each well be assigned half of the water right since they want to equip each well identically.

Please be advised my e-mail has changed to: [kelly.stewart@ks.gov](mailto:kelly.stewart@ks.gov)

Kelly C. Stewart, Water Commissioner  
Kansas Department of Agriculture  
Division of Water Resources  
Stockton Field Office  
(785)425-6787

<http://www.agriculture.ks.gov/>

## Krueger, Richelle

---

**From:** Stewart, Kelly  
**Sent:** Monday, February 27, 2017 11:36 AM  
**To:** Krueger, Richelle  
**Cc:** Billinger, Mark; Hageman, Rebecca  
**Subject:** RE: Request for Recommendation Change in PD File No. 10493

Richelle,

I have created a hotspot with my cell phone and am monitoring e-mail until I run out of battery power.

I have no objection to the approval of this change application.

Kelly

---

**From:** Krueger, Richelle  
**Sent:** Monday, February 27, 2017 11:32 AM  
**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>  
**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>  
**Subject:** Request for Recommendation Change in PD File No. 10493

Hi Kelly,

Don't know if you will receive this but going to try. Attached a draft memo for the change in pd File No. 10493 for Goetz. Do you recommend approval?

Thanks,  
Richelle



## Krueger, Richelle

---

**From:** Ray Luhman <rluhman@gmd4.org>  
**Sent:** Monday, February 27, 2017 8:45 AM  
**To:** Krueger, Richelle  
**Subject:** RE: Quick Question about change in PD File No. 10493 Jerome Goetz

Richelle,

It has to do with 2 parts of the reg. 5-24-3 3 b 4 is correct that the additional does not need to meet spacing from other wells covered by the same app. 5-24-3 3 b 3 B because the proposed additional well increases spacing from 15630.

Ray

-----Original Message-----

**From:** Krueger, Richelle [mailto:Richelle.Krueger@ks.gov]  
**Sent:** Monday, February 27, 2017 8:25 AM  
**To:** Luhman, Ray (rluhman@gmd4.org) <rluhman@gmd4.org>  
**Subject:** Quick Question about change in PD File No. 10493 Jerome Goetz

Hi Ray,

Just wanted to touch base with you on the recommendation on this change app-the proposed additional well doesn't meet spacing requirements to the other wells to be authorized by File No. 10,493 or to the well authorized by File No. 15,630 but no waiver needed because K.A.R 5-24-3(b)(4) proposed additional well and other wells are under common ownership?

Thanks,

Richelle

Richelle Krueger, Environmental Scientist Kansas Department of Agriculture Water Appropriation Program  
(785) 564-6635  
Richelle.Krueger@ks.gov<mailto:Richelle.Krueger@ks.gov> (please note e-mail address change) [www.ksda.gov/dwr](http://www.ksda.gov/dwr)



**NORTHWEST KANSAS  
GROUNDWATER MANAGEMENT  
DISTRICT NO. 4**

1290 West 4th Street  
P.O. Box 905  
Colby, Kansas 67701-0905

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FEB 24 2017

KS DEPT OF AGRICULTURE

February 21, 2017

Richelle Krueger  
Division of Water Resources  
1320 Research Park Drive  
Manhattan KS 66502

RE: Application: 10,493  
Jerome Goetz

Dear Richelle

The Northwest Kansas Groundwater Management District has reviewed the above referenced application and based on our records and the information supplied by the applicant, we have determined that the following recommendations be made to the Chief Engineer:

Approve application.

If you have any questions, please contact this office.

Sincerely,

Ray Luhman  
Manager

RPL: rw

SCANNED

1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700



900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

February 16, 2017

NORTHWEST KANSAS GROUNDWATER  
MANAGEMENT DISTRICT NO 4  
ATTN RAY LUHMAN  
PO BOX 905  
COLBY KS 67701-0905

Re: Water Right, File No. 10,493

Dear Ray:

We are enclosing a copy of the application to change the point of diversion under the referenced file number.

We are delaying further action for a period of 15 days from the date of this letter to allow you time to submit your recommendations concerning this application.

Please submit your recommendations within the allowed time, or any authorized extension of time thereof. If you have any questions, please contact me at (785) 564-6635. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Richelle A. Krueger  
Environmental Scientist  
Water Appropriation Program

Enclosures

pc: Stockton Field Office

SCANNED

**Krueger, Richelle**

---

**From:** Krueger, Richelle  
**Sent:** Wednesday, February 15, 2017 4:29 PM  
**To:** Stewart, Kelly  
**Cc:** Turney, Brent  
**Subject:** RE: Goetz change application, File No. 10,493

Okay, I will modify and send out to GMD 4. Thanks Kelly!

---

**From:** Stewart, Kelly  
**Sent:** Wednesday, February 15, 2017 4:28 PM  
**To:** Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Cc:** Turney, Brent <Brent.Turney@ks.gov>  
**Subject:** RE: Goetz change application, File No. 10,493

Yes, that is correct.

---

**From:** Krueger, Richelle  
**Sent:** Wednesday, February 15, 2017 4:04 PM  
**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>  
**Cc:** Turney, Brent <Brent.Turney@ks.gov>  
**Subject:** RE: Goetz change application, File No. 10,493

Kelly,  
Sorry but I have forgotten what exactly is being proposed. Their fax indicates they want 2 pumps of equal size to pump a maximum of 350 g.p.m. total together

**NOW:**  
North Well 2431'N 4381'W (gps 2426'N 4419'W) **78 AF 220 g.p.m.** – PDIVID 85306  
South Well 1369'N 4665'W (gps 1369'N 4465'W) **119 AF 330 g.p.m.** -PDIVID 85307

**DO THEY WANT:**

North Well 2431'N 4381'W (gps 2428<sup>6</sup>'N 4419'W) **78 AF 220 g.p.m.** = **NO CHANGE EXCEPT BETTER DESCRIBE WITH GPS** - PDIVID 85306  
South Well 1369'N 4665'W (gps 1397<sup>9</sup>'N 4660'W) **59.5 AF 165 g.p.m.** -PDIVID ID 85307 (BETTER DESCRIBE W GPS)  
Additional Well 1654'N 4675'W (gps 1669'N 4668'W) **59.5 AF 165 g.p.m.** -PDIV ID 84261 (BETTER DESCRIBE W GPS)

Is this what they want, three wells total?

Thanks,  
Richelle

---

**From:** Stewart, Kelly  
**Sent:** Wednesday, February 15, 2017 1:37 PM

**To:** Turney, Brent <[Brent.Turney@ks.gov](mailto:Brent.Turney@ks.gov)>; Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>

**Subject:** Goetz change application, File No. 10,493

Brent,

Per my recent telephone conversations with Don Goetz, representing his parents Jerome & Alice Goetz, they desire to modify their pending application from one proposing a battery of two wells to one that is proposing an additional well. Per the enclosed fax from the owners, they are requesting that each well be assigned half of the water right since they want to equip each well identically.

Please be advised my e-mail has changed to: [kelly.stewart@ks.gov](mailto:kelly.stewart@ks.gov)

Kelly C. Stewart, Water Commissioner  
Kansas Department of Agriculture  
Division of Water Resources  
Stockton Field Office  
(785)425-6787

<http://www.agriculture.ks.gov/>

## Krueger, Richelle

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**From:** Stewart, Kelly  
**Sent:** Tuesday, February 14, 2017 11:25 AM  
**To:** Turney, Brent; Krueger, Richelle  
**Subject:** Don Goetz, File No. 10,493

Brent,

I just got off the phone with Don. He is going to fax me a written request to modify the pending change application so that it is proposing an additional well instead of a battery of wells. His request will propose half of the water right on each well.

Please be advised my e-mail has changed to: [kelly.stewart@ks.gov](mailto:kelly.stewart@ks.gov)

Kelly C. Stewart, Water Commissioner  
Kansas Department of Agriculture  
Division of Water Resources  
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(785)425-6787

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## Krueger, Richelle

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**From:** Stewart, Kelly  
**Sent:** Friday, January 6, 2017 1:19 PM  
**To:** Turney, Brent; Krueger, Richelle  
**Subject:** Don Goetz

I called Don. He is going to think it over, but will probably go with the additional well option. He will need to figure out how to divvy up the r & q. He said he would call me back next week. So please just sit on it for now.

Please be advised my e-mail has changed to: [kelly.stewart@ks.gov](mailto:kelly.stewart@ks.gov)

Kelly C. Stewart, Water Commissioner  
Kansas Department of Agriculture  
Division of Water Resources  
Stockton Field Office  
(785)425-6787

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1/6/17  
Brent Me Kelly phone MTG  
1/6/16 Kelly going to  
call Don Goetz & ask  
if he wants add well  
no quant ~~needed~~  
& how to assign R&Q  
per well. Kelly said all  
wells existing & only wells  
w/in 1/2 mile belong to Goetz's

## Krueger, Richelle

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**From:** Stewart, Kelly  
**Sent:** Thursday, January 5, 2017 3:34 PM  
**To:** Turney, Brent; Krueger, Richelle  
**Cc:** Billinger, Mark  
**Subject:** RE: Change in Pd File No. 10493

Brent,

As a follow-up to our telephone conversation several days ago, I want to see if you agree with my assessment of this water right and how an additional well under 5-5-16 may be an option instead of a battery.

1. File No. 10,493 was originally certified for two wells at 105 a.f. & 158 a.f. (total of 263 a.f.) on 192 acres.
2. Perfected acres were 185.
3. In 1995, this file was voluntarily reduced to get File No. 41,739 approved. It was reduced to 78 a.f. & 119 a.f. (total of **197** a.f.) on 134 acres.
4. I would assume that File No. 10,493 now has 134 perfected acres.
5. Using 5-5-16 calculation:  $134 \times 1.25'/.85 = \mathbf{197}$  acre-feet.
6. Since the currently authorized total quantity of **197** acre-feet is the same number as allowed by the 5-5-16 calculation, an additional well could be authorized without any further reduction in quantity.

Do you agree with this?

---

**From:** Turney, Brent  
**Sent:** Tuesday, January 3, 2017 10:45 AM  
**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>; Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>  
**Subject:** RE: Change in Pd File No. 10493

I just got off the phone with Ray, and he would like to take a quick look and make a recommendation for denial. We will send him the application along with our safe yield calculation.

Thanks everyone.

Brent

**Brent A. Turney, P.G.**  
**Kansas Department of Agriculture**  
**Division of Water Resources**  
**1320 Research Park Drive**  
**Manhattan Kansas 66502**  
**(785) 564-6645**  
**[Brent.Turney@ks.gov](mailto:Brent.Turney@ks.gov)**  
**[www.agriculture.ks.gov](http://www.agriculture.ks.gov)**

---

**From:** Stewart, Kelly  
**Sent:** Tuesday, January 3, 2017 9:59 AM  
**To:** Turney, Brent <[Brent.Turney@ks.gov](mailto:Brent.Turney@ks.gov)>; Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>  
**Cc:** Billinger, Mark <[Mark.Billinger@ks.gov](mailto:Mark.Billinger@ks.gov)>; Hageman, Rebecca <[Rebecca.Hageman@ks.gov](mailto:Rebecca.Hageman@ks.gov)>  
**Subject:** RE: Change in Pd File No. 10493



Brent/Richelle,

Please see Mark's safe-yield calculation. It is much more over-appropriated than I had imagined.

---

**From:** Turney, Brent

**Sent:** Tuesday, January 3, 2017 7:48 AM

**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>; Krueger, Richelle <Richelle.Krueger@ks.gov>

**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>

**Subject:** RE: Change in Pd File No. 10493

Kelly,

Can you help us out with your interpretation of the extent of the alluvium? The mapped alluvium in WIMAS is a little wonky. We have to run a safe yield calculation to determine the if we can process the change as per 5-24-6(c).

**Brent A. Turney, P.G.**  
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---

**From:** Stewart, Kelly

**Sent:** Friday, December 30, 2016 2:30 PM

**To:** Krueger, Richelle <Richelle.Krueger@ks.gov>

**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>

**Subject:** RE: Change in Pd File No. 10493

Richelle,

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Kelly

---

**From:** Krueger, Richelle

**Sent:** Wednesday, December 28, 2016 12:01 PM

**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>

**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>

**Subject:** Change in Pd File No. 10493

Hi Kelly,

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When you get a chance, would you please look this over and let me know if you think this is in the Saline River Alluvium and would meet safe yield allowable appropriation, or similar reg-meet K.A.R 5-2-3 and GMD 4 requirements?

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It is weird when you look at this in WIMAS, the main streams do not necessary match up with the alluvial valley?

Anyway that is what I observed, when you get a chance, please let me know how you want me to proceed.

Thanks,

Richelle

**Krueger, Richelle**

---

**From:** Stewart, Kelly  
**Sent:** Tuesday, January 3, 2017 9:59 AM  
**To:** Turney, Brent; Krueger, Richelle  
**Cc:** Billinger, Mark; Hageman, Rebecca  
**Subject:** RE: Change in Pd File No. 10493  
**Attachments:** 10493 Goetz Safe Yield Report Sheet.docx

Brent/Richelle,

Please see Mark's safe-yield calculation. It is much more over-appropriated than I had imagined.

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**Sent:** Tuesday, January 3, 2017 7:48 AM  
**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>; Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>  
**Subject:** RE: Change in Pd File No. 10493

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**To:** Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>  
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**To:** Stewart, Kelly <[Kelly.Stewart@ks.gov](mailto:Kelly.Stewart@ks.gov)>

**Cc:** Billinger, Mark <[Mark.Billinger@ks.gov](mailto:Mark.Billinger@ks.gov)>; Turney, Brent <[Brent.Turney@ks.gov](mailto:Brent.Turney@ks.gov)>

**Subject:** Change in Pd File No. 10493

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Thanks,

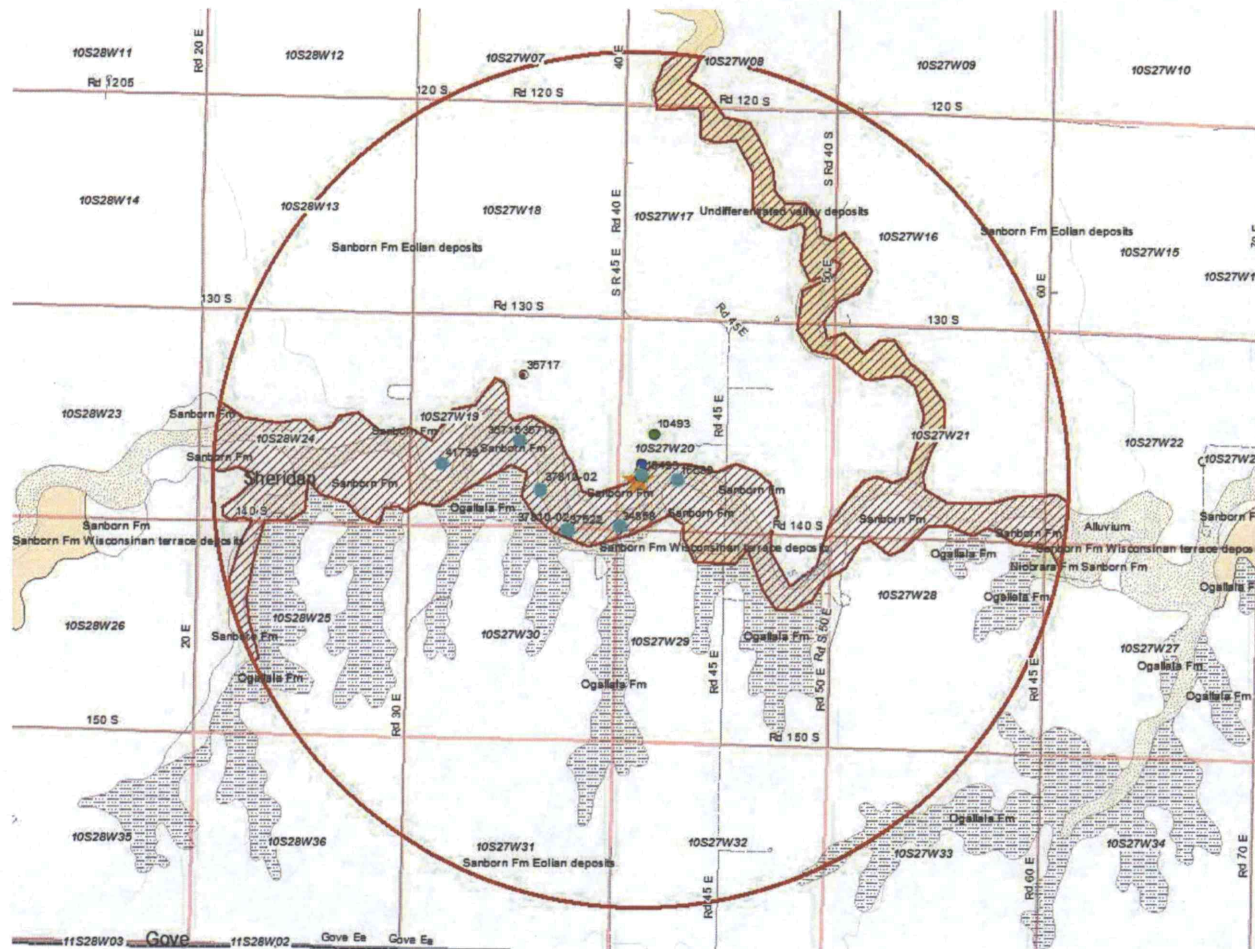
Richelle

Safe Yield Report Sheet

Proposed Water Right Application

Point of Diversion in NENWSWSW 20-10S-27W

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Analysis Results

-----  
 The selected PD is in an area to new appropriations.  
 The safe yield, based on the variables listed below is 33.25 AF.  
 Total prior appropriation in the circle is 466.20 AF.  
 Total quantity of water available for appropriation is 0.00 AF.

**Safe Yield Variables**

-----  
 The area used for the analysis is set at 1064 acres.  
 Potential annual recharge of the area is estimated to be 0.5 inches.  
 The percent of recharge available for appropriation is 75%.

Authorized Quantity values are as of 03-JAN-2017 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 8 water right(s) and 8 point(s) of diversion within the circle.

```

=====
File Number      Use ST SR Q4 Q3 Q2 Q1 FeetN FeetW Sec Twp Rng ID  Qind Auth_Quant  Add_Quant  Tacres  Nacres
-----
A      10493 00 IRR NK G      SW NW SW  1369  4665  20  10 27W  9  PD      119.00    119.00  175.00  175.00
A      15630 00 IRR NK G      NW SE SW  1284  3786  20  10 27W 10  WR       40.00     40.00   20.00   20.00
A      34858 00 IRR NK G      SW SW SW   100  5180  20  10 27W  4  WR       60.00     60.00  175.00    0.00
A      35715 00 IRR NK G      NW NW SE  2140  2500  19  10 27W  4  WR       25.00     25.00   48.00   48.00
  
```

A	35718	00	IRR	NK	G	NW	NW	SE	2140	2500	19	10	27W	4	WR	38.00	38.00	48.00	0.00	
A	37522	00	IRR	NK	G	NC	N2	N2	NE	5080	1320	30	10	27W	1	WR	93.00	93.00	137.00	0.00
A	37810	02	STK	NK	G	NW	NE	NE	5200	1200	30	10	27W	4	WR	25.20	25.20			
Same			STK	NK	G	NE	SW	SE	924	1914	19	10	27W	5	WR					
A	41739	00	IRR	NK	G	SE	NW	SW	1490	4380	19	10	27W	1	WR	66.00	66.00	50.00	50.00	

=====



## Krueger, Richelle

---

**From:** Krueger, Richelle  
**Sent:** Tuesday, January 3, 2017 9:38 AM  
**To:** Billinger, Mark; Stewart, Kelly; Turney, Brent  
**Cc:** Hageman, Rebecca  
**Subject:** RE: Change in Pd File No. 10493

Thanks Mark for all your help!

---

**From:** Billinger, Mark  
**Sent:** Tuesday, January 3, 2017 9:36 AM  
**To:** Krueger, Richelle <Richelle.Krueger@ks.gov>; Stewart, Kelly <Kelly.Stewart@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>  
**Cc:** Hageman, Rebecca <Rebecca.Hageman@ks.gov>  
**Subject:** RE: Change in Pd File No. 10493

Richelle,

Here are my conversions to NAD27. I just did them on the page of Scott's report that lists all the wells. From looking at the aerial photo in comparison to our coordinates for the 2 existing wells, they may need to be better described as part of this change since both are off a bit and we never had a good gps on them.

Sorry for my chicken scratch on this, if you have any questions let me know.  
Mark

---

**From:** Krueger, Richelle  
**Sent:** Tuesday, January 03, 2017 8:40 AM  
**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>  
**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>  
**Subject:** RE: Change in Pd File No. 10493

Thanks Kelly! Would you guys also be able to convert Scotts NAD 83 feet distances to NAD 27? I can then modify the feet distances on the application to match NAD 27. Thanks!

---

**From:** Stewart, Kelly  
**Sent:** Tuesday, January 3, 2017 8:25 AM  
**To:** Turney, Brent <Brent.Turney@ks.gov>; Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>  
**Subject:** RE: Change in Pd File No. 10493

We can run safe-yield here if you like. We'll use the more detailed geology map to determine the extent of the area of consideration. Safe yield should never be run by relying on the mapped alluvium cover in WIMAS.

---

**From:** Turney, Brent  
**Sent:** Tuesday, January 3, 2017 7:48 AM  
**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>; Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Hageman, Rebecca <Rebecca.Hageman@ks.gov>  
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---

**From:** Stewart, Kelly  
**Sent:** Friday, December 30, 2016 2:30 PM  
**To:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>  
**Cc:** Billinger, Mark <[Mark.Billinger@ks.gov](mailto:Mark.Billinger@ks.gov)>; Turney, Brent <[Brent.Turney@ks.gov](mailto:Brent.Turney@ks.gov)>; Hageman, Rebecca <[Rebecca.Hageman@ks.gov](mailto:Rebecca.Hageman@ks.gov)>  
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I would recommend proceeding with approval of this application. It is technically a change in p/d of less than 300' and we normally don't ask GMD 4 for their recommendation. However, I think since we are converting to a battery, we should ask Ray for his recommendation. I am confident he will respond that if DWR thinks it is alluvium, then the District will defer to DWR on this one.

Kelly

---

**From:** Krueger, Richelle  
**Sent:** Wednesday, December 28, 2016 12:01 PM  
**To:** Stewart, Kelly <[Kelly.Stewart@ks.gov](mailto:Kelly.Stewart@ks.gov)>  
**Cc:** Billinger, Mark <[Mark.Billinger@ks.gov](mailto:Mark.Billinger@ks.gov)>; Turney, Brent <[Brent.Turney@ks.gov](mailto:Brent.Turney@ks.gov)>  
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Anyway that is what I observed, when you get a chance, please let me know how you want me to proceed.

Thanks,

Richelle

## Krueger, Richelle

**From:** Billinger, Mark  
**Sent:** Thursday, December 29, 2016 4:39 PM  
**To:** Stewart, Kelly; Krueger, Richelle; Turney, Brent  
**Subject:** FW: Change in Pd File No. 10493

A quick update since I am on leave tomorrow...

Below is the KGS bedrock contours (50ft contours) as you can see the 2550' and 2600' contour lines are bending upstream along the river. This means that the alluvium is sitting within its own paleo channel that was carved into the bedrock from the river. There is little to no Ogallala present in the valley below the alluvium due to this fact that it was eroded out before the terrace was deposited over the paleo channel.. Saturated thickness to the north is pretty thin so I am thinking at this stage the proposed battery could be alluvium/terrace only.



---

**From:** Billinger, Mark

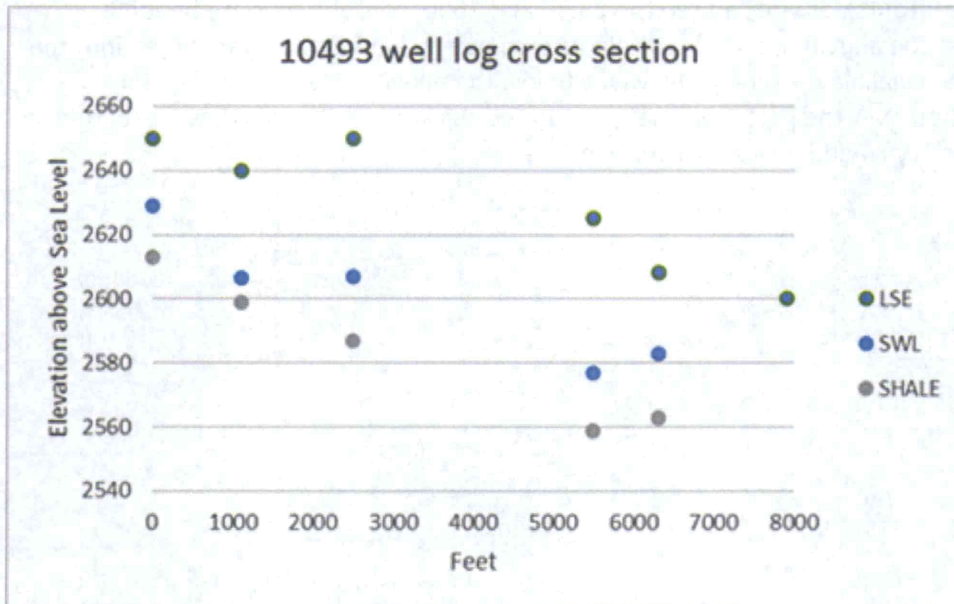
**Sent:** Thursday, December 29, 2016 4:21 PM

**To:** Krueger, Richelle <Richelle.Krueger@ks.gov>; Stewart, Kelly <Kelly.Stewart@ks.gov>

**Cc:** Turney, Brent <Brent.Turney@ks.gov>

**Subject:** RE: Change in Pd File No. 10493

Here is a quick reproduction of Scott's transect. I did it from scratch from his submitted well logs. As Richelle stated, one log has an error on the legal description but I think Scott corrected it right. Not the best transect cause it angles across the terrace and alluvium



---

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**Sent:** Wednesday, December 28, 2016 12:01 PM

**To:** Stewart, Kelly <Kelly.Stewart@ks.gov>

**Cc:** Billinger, Mark <Mark.Billinger@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>

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Hi Kelly,

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1320 Research Park Drive  
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900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

December 12, 2016

JEROME GOETZ  
PO BOX 24  
PARK, KS

RE: File No. 10493

**FILE COPY**

Dear Sir or Madam:

An application for approval of the Chief Engineer to change the following condition or conditions of the file number referred to above has been received:

- place of use PD
- point of diversion
- use made of water

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. You will be contacted regarding this application as soon as it has been examined.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water prior to approval of the application is unlawful. You should not proceed and divert water as indicated by your plans in your application for a change for this file until you receive approval for this change from the Chief Engineer. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

**Section 82a-728 of the Kansas Water Appropriation Act, provides (a) except for the appropriation of water for the purpose of domestic use, . . . it shall be unlawful for any person to appropriate or threaten to appropriate water from any source without first applying for and obtaining a permit to appropriate water in accordance with the provisions of the Water Appropriation Act or for any person to violate any condition of a vested right, appropriation right or an approved application for a permit to appropriate water for beneficial use.**

**(b) (1) The violation of any provision of this section by any person is a class C misdemeanor...**

**A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.**

If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Brent A Turney, L.G.  
Change Applications Unit Supervisor  
Water Appropriation Program

BAT: dlw



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Jackie McClaskey, Secretary

Governor Sam Brownback

pc: STOCKTON Field Office GMD 4