

KANSAS DEPARTMENT OF AGRICULTURE

DIVISION OF WATER RESOURCES

MEMORANDUM

TO: File
DATE: May 1, 2018
FROM: Amber Herring
SUBJECT: Date Stamping Mail

On Friday, June 26th, 2015, The Administrative Assistant for Kansas Department of Agriculture, on the first floor signed for the certified mail containing the following Applications. I, Amber Herring, did not receive the documents until Monday, **June 29th, 2015**. Thus, the June 29th date is the correct date and time received by the **Division of Water Resources**.

David. W. Barfield, PE.

JUN 26 2015

4:26
Chief Engineer
Division of Water Resources
Kansas Dept. of Agriculture



State of Kansas

Submit To: CHIEF ENGINEER
Division of Water Resources
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, Kansas 66502
http://agriculture.ks.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**

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.

1. Application is hereby made for approval of the Chief Engineer to change David. W. Barfield, PE.

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

WATER RESOURCES RECEIVED
~~JUN 28 2015 4:26~~
 JUN 29 2015 8:11
 Chief Engineer
 Division of Water Resources
 Kansas Dept. of Agriculture
 KS DEPT OF AGRICULTURE

File No. 27,760 Circles 32 and 33.

2. Name of applicant: City of Hays, Kansas and City of Russell, Kansas (See paragraph 2 of the cover letter.)

Address: c/o Foulston Siefkin LLP, 1551 N. Waterfront Parkway, Suite 100

City, State and Zip: Wichita, Kansas 67206

Phone Number: (316) 291-9725 E-mail address: dtraster@foulston.com

What is your relationship to the water right; owner tenant agent other? If other, please explain. Hays and Russell are co-owners of the authorized place of use on the R9 Ranch in Edwards County.

Name of water use correspondent: City of Hays, Kansas

Address: P. O. Box 490, 1507 Main Street

City, State and Zip: Hays, Kansas 67601

Phone Number: (785) 628-7320 E-mail address: tdougherty@haysusa.com

3. The change(s) proposed herein are desired for the following reasons (please be specific):
See Paragraph 3 of the cover letter filed concurrently with this application. The cover letter is incorporated herein by reference.

The change(s) ~~was~~ (will be) completed by See Paragraph 3 of the cover letter

(Date)

For Office Use Only:							
F.O.	<u>2</u>	GMD	<u>5</u>	Meets K.A.R. 5-5-1	(YES/NO)	Use	<u>IRR</u>
Code	<u>C-3</u>	Fee \$	<u>700</u>	TR #		Source	<u>GS</u>
		Receipt Date	<u>6-22-15</u>	County	<u>ED</u>	By	<u>KAB</u>
		Check #	<u>058328</u>	Date	<u>6/29/15</u>		

of 21,000-



1505 3305

6/30/2015 ULM

4. The presently authorized place of use is:

Owner of Land — NAME: City of Hays, Kansas

ADDRESS: P.O. Box 490, 1507 Main Street, Hays, Kansas 67601

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	
11	T26S	R20W									40	40	40	40	40	40	40	40	320

List any other water rights that cover this place of use: None

Owner of Land — NAME: City of Russell, Kansas

ADDRESS: 133 W. 8th Street, Russell, Kansas 67665

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	
			Same as above																

List any other water rights that cover this place of use: None

(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: City of Hays, Kansas

ADDRESS: P.O. Box 490, 1507 Main Street, Hays, Kansas 67601

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	
			The City of Hays, Kansas and its immediate vicinity and other locations as more fully described in paragraph 5 of the cover letter.																

List any other water rights that cover this place of use: See paragraph 5 of the cover letter.

Owner of Land — NAME: City of Russell, Kansas

ADDRESS: 133 W. 8th Street, Russell, Kansas 67665

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	
			The City of Russell, Kansas and its immediate vicinity and other locations as more fully described in paragraph 5 of the cover letter.																

List any other water rights that cover this place of use: See paragraph 5 of the cover letter.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

JUN 29 2015

- 6. The presently authorized point(s) of diversion (is) (are) irrigation well(s) described in paragraph 8, infra.
(Provide description and number of points)
- 7. The proposed point(s) of diversion (is) (are) one or more municipal wells; see paragraph 7 of the cover letter.
(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 SW Quarter of the SW Quarter of Section 11, Township 26 South, Range 20 (~~E/W~~), in Edwards County, Kansas, 1,298 feet North 4,002 feet West of Southeast corner of section. Authorized Rate 970 gpm Authorized Quantity 233.26 a/f
 (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)
 One in the SW Quarter of the NE Quarter of the SE Quarter of Section 10, Township 26 South, Range 20 (~~E/W~~), in Edwards County, Kansas, 1,863 feet North 883 feet West of Southeast corner of section. Proposed Rate 970 gpm Proposed Quantity 142.56 a/f
 This point is: Additional Well Geo Center List other water rights that will use this point 22,338; 22,339

9. **Presently authorized point of diversion:**
 One in the (Battery) NE Quarter of the SW Quarter of the SE Quarter of Section 11, Township 26 South, Range 20 (~~E/W~~), in Edwards County, Kansas, 1,150 feet North 1,615 feet West of Southeast corner of section. Authorized Rate 800 gpm Authorized Quantity 196.51 a/f
 (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)
 One in the NW Quarter of the SW Quarter of the NE Quarter of Section 11, Township 26 South, Range 20 (~~E/W~~), in Edwards County, Kansas, 3,646 feet North 2,143 feet West of Southeast corner of section. Proposed Rate 800 gpm Proposed Quantity 141.49 a/f
 This point is: Additional Well Geo Center List other water rights that will use this point 22,333-35

10. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (~~E/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)
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/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 _____

- 11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. _____
 See paragraph 11 of the cover letter.

WATER RESOURCES RECEIVED

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

12. The presently authorized use of water is for irrigation purposes.
It is proposed that the use be changed to municipal purposes.
13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.
See the attached discussion regarding the quantity of water to be changed to municipal use and paragraph 13 of the cover letter.
-
-

(Please show any calculations here.)

14. It is requested that the maximum annual quantity of water be reduced to not applicable (acre-feet or million gallons).
15. It is requested that the maximum rate of diversion of water be reduced to not applicable gallons per minute (____ 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). 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 paragraph 17 of the cover letter.
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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.
See paragraph 7 of the cover letter.
-
-

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

JUN 29 2015

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 Russell, Russell County, Kansas, this 23rd day of June, 2015.

[Signature]

(Owner)

(Spouse)

City of Hays, Kansas, by Toby Dougherty, City Manager
(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

State of Kansas }
County of Russell } SS



I hereby certify that the foregoing application was signed in my presence and sworn to before me this 23rd day of June, 2015.

Malinda Morse

Notary Public

My Commission Expires 6/15/18

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.

**WATER RESOURCES
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JUN 29 2015

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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.

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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 Russell, Russell County, Kansas, this 23rd day of June, 2015.

[Signature]

(Owner)

(Spouse)

City of Russell, Kansas by Jon Quinday, City Manager
(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

State of Kansas }
County of Russell } SS



I hereby certify that the foregoing application was signed in my presence and sworn to before me this 23rd day of June, 2015.

Malinda Morse
Notary Public

My Commission Expires 6/15/18

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- (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.**

**WATER RESOURCES
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JUN 29 2015

KS DEPT OF AGRICULTURE

Proposed Rate and Quantity

The Cities are requesting a total of 284.05 acre-feet and 1,770 gpm from the well associated with this water right. Of those amounts, 141.49 acre-feet and 970 gpm will be diverted to new point of diversion K, and 142.56 acre-feet and 800 gpm will be diverted from new point of diversion L, as shown on Exhibit L.

When combined with existing wells from other water rights, new point of diversion K will have a cumulative total of 533.2 acre-feet and 3,380 gpm, and new point of diversion L will have a cumulative total of 426.24 acre-feet and 2,430 gpm.

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

This water right is not yet certified.

The following discussion is subject to paragraph 13 of the cover letter regarding consumptive use.

DWR Regulation, K.A.R. 5-5-9(a), provides that the default calculation used to address the consumptive use issue allows the conversion of 285.12 acre-feet to municipal use.¹ 264 approved acres irrigated during the perfection multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 285.12 acre-feet.²

That same regulation goes on to allow the change to be based on the net consumptive use actually made during the perfection period.³

Quantity authorized and perfected

The permit was issued on July 6, 1977, granting the applicant the right to divert up to 480 acre-feet annually from two wells at a rate not to exceed 2,000 gallons per minute for irrigation use⁴ on 320 acres in the S/2 of Section 11-T26S-R20W.⁵

In the cover letter transmitting the permit, DWR made findings of fact stating that “the proposed use is for a beneficial purpose and is *within reasonable limitations*. If priorities are observed and respected, the proposed use will neither impair any use under existing water rights nor prejudicially and unreasonably affect the public interest.”⁶

However, there was always a third well that was evidently left off the original application. An application to change the point of diversion to add the third well was filed on March 14, 1986, but it “languished somewhat” in DWR’s office.⁷ The change application was

¹ K.A.R. 5-5-9(a) and (a)(1).

² K.A.R. 5-5-12, NIR Requirements.

³ K.A.R. 5-5-9(b).

⁴ Permit, HAYS004110, Ex. A.

⁵ Application, HAYS004104, Ex. B.

⁶ July 6, 1977, letter (emphasis added), HAYS004113, Ex. C.

⁷ July 11, 1994 Memo, HAYS004121, Ex. D.

**WATER RESOURCES
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JUN 29 2015

eventually granted on July 21, 1994.⁸ It approved a “battery of two wells” in the SE/4 of Section 11, limiting the combined rate to 800 gpm.

The Field Inspection Reports indicate that 396.00 of the 480 acre-feet authorized by the permit were lawfully perfected.

- The rate at the center pivot in the SW/4 with all three wells pumping is 970 gpm.⁹ That center pivot system was operated for 1,306 hours in 1995,¹⁰ the year of record¹¹ resulting in the application of 233.26 acre-feet.
- The rate at the center pivot in the SE/4 with all three wells pumping is 978 gpm,¹² but is limited to 800 gpm. That center pivot system was operated for 1,334 hours in 1995,¹³ the year of record,¹⁴ resulting in the application of 196.51 acre-feet.
- The permit authorized the perfection of 480 acre-feet on 320 acres, or 1.5 acre-feet per acre, but only 264 authorized acres were irrigated during the perfection period, resulting in perfection of 394.51 acre-feet.

An alternative approach

DWR’s use of the NIR of 1.08 feet of water for corn is based on its maximum gross irrigation requirement of 1.5 acre-feet per acre.¹⁵ The regulation allows the conversion of 72% of the maximum quantity to a new use; in other words, it assumes that 28% of the quantity diverted returns to the aquifer.

If 28% of the 394.51 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 284.05 acre-feet, should be available for conversion to municipal use; 141.49 acre-feet for the battery of wells in the southeast quarter of section 11, and 142.56 acre-feet for the single well in the southwest quarter of the same section. This is less than the 396.00 acre-feet authorized so the limitation in K.A.R. 5-5-9(a)(4) is not implicated.

The Applicants request that DWR approve a total of 284.05 acre-feet for municipal use.

⁸ Approval of Application, HAYS004124, Ex. E

⁹ FIR, HAYS004077, Ex. F.

¹⁰ July 22, 1994 letter extending the perfection period to December 31, 1995, HAYS004125, Ex. G

¹¹ 1995 WUR, HAYS004057, Ex. H.

¹² FIR, HAYS004087, Ex. I.

¹³ 1995 WUR, HAYS004057, Ex. H.

¹⁴ July 22, 1994 letter extending the perfection period to December 31, 1995, HAYS004125, Ex. G.

¹⁵ Administrative Policy No. 86-8, dated Nov. 5, 1986, Ex. J, stating that: “In that area of Kansas located between the Range 5 East/Range 6 East Line and the Range 20 West/Range 21 West line, the maximum allowable quantity shall not exceed an average of 1.50 acre-feet per acre irrigated.” See also, K.A.R. 5-3-24.

THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE
W. W. Duitsman, *Secretary*

DIVISION OF WATER RESOURCES
Guy E. Gibson, *Chief Engineer*

**APPROVAL OF APPLICATION
and
PERMIT TO PROCEED**

(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application No. 27,760 of the applicant

Kinsley Farms
Route 1, Box 82-E
Kinsley, Kansas 67547

for a permit to appropriate water to beneficial use, together with the maps, plans and other submitted data, and that the application is hereby approved and the applicant is hereby authorized, subject to vested rights and prior appropriations, to proceed with the construction of the proposed diversion works and to proceed with all steps necessary for the application of the water to the approved and proposed beneficial use and otherwise perfect the proposed appropriation subject to the following terms, conditions and limitations:

1. That the priority date assigned to such application is November 15, 1976.
2. That the water sought to be appropriated shall be used for irrigation on the land described in the application.
3. That the source from which the appropriation is made shall be from groundwater in the drainage basin of the Arkansas River to be withdrawn by means of two (2) wells: one well near the center of the Southwest Quarter (SW $\frac{1}{4}$) and one well near the center of the Southeast Quarter (SE $\frac{1}{4}$) of Section 11, Township 26 South, Range 20 West, in Edwards County, Kansas, located substantially as shown on the topographic map accompanying the application.

4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of
2000 gallons per minute (4.46 c.f.s.)
and to a quantity of not to exceed
480 acre-feet

for any calendar year.

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KS DEPT OF AGRICULTURE

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(OVER)
JUL 16 1977

FIELD OFFICE
DIVISION OF WATER RESOURCES
STATION

MICROFILMED
HAYS004110

32 SW
33 SE

5. That installation of works for diversion of water shall be completed on or before December 31, 19 78. The applicant shall notify the Chief Engineer of the Division of Water Resources when construction of the works has been completed.

6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before December 31, 19 82.

7. That the applicant shall maintain records from which the quantity of water actually diverted during each calendar year may be readily determined. Such records shall be furnished to the Chief Engineer as soon as practicable after the close of each calendar year.

8. That the applicant shall not be deemed to have acquired a water appropriation for a quantity in excess of the amount approved herein nor in excess of the amount found by the Chief Engineer to have been actually used for the approved purpose during one calendar year subsequent to approval of the application and within the time specified or any authorized extension thereof.

9. That the use of water herein authorized shall not impair any use under existing water rights nor prejudicially and unreasonably affect the public interest.

10. That the right of the appropriator shall relate to a specific quantity of water and such right must allow for a reasonable raising or lowering of the static water level and for the reasonable increase or decrease of the streamflow at the appropriator's point of diversion.

11. That this permit does not constitute authority under K. S. A. 82a-301 to 305 to construct any dam or other obstruction; it does not give any right-of-way, or authorize any injury to, or trespass upon, public or private property; it does not obviate the necessity of obtaining assent from Federal or Local Governmental authorities when necessary.

12. That failure without cause to comply with provisions of the permit and its terms, conditions and limitations will result in the forfeiture of the priority date, revocation of the permit and dismissal of the application.

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JUN 29 2015

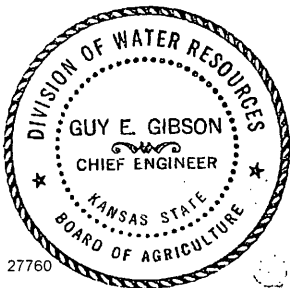
KS DEPT OF AGRICULTURE

Dated this 6th day of July

1977

Guy E. Gibson

Guy E. Gibson, Chief Engineer
Division of Water Resources
Kansas State Board of Agriculture





GWMD #15

STATE BOARD OF AGRICULTURE

DIVISION OF WATER RESOURCES

W. W. DUITSMAN
Secretary

Guy E. Gibson, Chief Engineer

Recd 5000 Ch
11-15-76 Sph

NUMBER 27760

APPLICATION FOR PERMIT TO
APPROPRIATE WATER FOR BENEFICIAL USE

(The Statutory Filing Fee of \$50.00 Must Accompany the Application)

THIS APPLICATION TAKES THE PLACE OF THE ORIGINAL APPLICATION AND RETAINS THE ORIGINAL PRIORITY DATE OF NOVEMBER 15, 1976, 11:51 A.M.

To the Chief Engineer of the Division of Water Resources, Kansas State Board of Agriculture:

(Mr.)

(Mrs.)

Comes now the applicant (Miss) KINSLEY FARMS whose post office

address is RT 1 Box 82E, KINSLEY, KANSAS

and makes application to the Chief Engineer of the Division of Water Resources, Kansas State Board of Agriculture, for a permit to appropriate for beneficial use such unappropriated GROUND WATER as

may be available in ARKANSAS R. DRAINAGE BASIN in the county of EDWARDS

(name of stream or drainage basin) state of Kansas, to the extent and in accordance with the particulars hereinafter described:

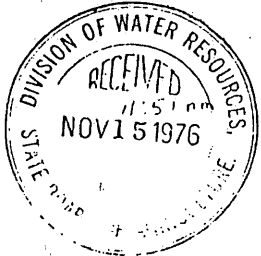
1. The quantity of water desired is in the amount of 480 per calendar year, to be diverted at a maximum rate of 2000

2. The location of the proposed wells or other works for diversion of water is.

(A) One in the X quarter of the X quarter of the SE quarter of Section 11, Township 26 South, Range 20 ~~East~~ West, EDWARDS County, Kansas. X NEAR THE CENTER OF

(B) One in the X quarter of the X quarter of the SW quarter of Section 11, Township 26 South, Range 20 ~~East~~ West, EDWARDS County, Kansas. NEAR THE CENTER OF

(C) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, Township _____ South, Range _____ ~~East~~ West, _____ County, Kansas.



WATER RESOURCES RECEIVED

JUN 29 2015

MICROFILMED

KS DEPT OF AGRICULTURE

HAYS004103

3. The water is intended to be appropriated for:

(a) Domestic use () _____ (b) Municipal use () _____ (c) Irrigation use (<u>✓</u>) <u>480 ACF</u> (check intended use or uses and show intended amount for each use)	Amount (d) Industrial use () _____ (e) Recreational use () _____ (f) Water Power use () _____ Amount
---	---

4. If for municipal use, attach tables or curves showing past, present and estimated future population and water requirements of the area to be served. The area to be served is _____

(if additional space is needed, use attached sheet)

5. If for industrial use, attach tables or curves showing past, present and estimated future water requirements. The legal description of the location where water is to be used is _____

(if additional space is needed, use attached sheet)

6. If for irrigation use, (a) supply the name and address of each landowner; (b) supply the legal description of the lands to be irrigated; (c) designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Landowner of Record—NAME: PAUL MANN
 ADDRESS: 453 SO. WEBB RD. WICHITA, KANSAS 67207

Sec. Twp. Range	NE _{1/4}				NW _{1/4}				SW _{1/4}				SE _{1/4}				Total
	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	
<u>11 26 20W</u>									<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>320</u>

Landowner of Record—NAME: _____
 ADDRESS: _____

Sec. Twp. Range	NE _{1/4}				NW _{1/4}				SW _{1/4}				SE _{1/4}				Total
	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	

Landowner of Record—NAME: _____
 ADDRESS: _____

Sec. Twp. Range	NE _{1/4}				NW _{1/4}				SW _{1/4}				SE _{1/4}				Total
	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	NE _{1/4}	NW _{1/4}	SW _{1/4}	SE _{1/4}	

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7. The works for diversion of water will consist of 2 WELLS, PUMPS, MOTORS, CENTER PIVOT SPRINKLER SYSTEM
(Number of wells, pumps or dams, etc.)

and (was) (will be) completed (by) JULY 1976 (BOTH WELLS)
(Date each was or will be completed)

8. The first actual application of water for the beneficial use proposed was or is estimated to be JULY 1976
(Date)

9. This application shall be accompanied either by a detailed plat prepared from an actual survey or by an aerial photograph of the area.

The plat or aerial photograph shall show:

- (a) Location of the proposed point or points of diversion
- (b) Location of the pipe lines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use
- (c) If for irrigation, show the location of the land proposed to be irrigated
- (d) If for industrial or other use, show the location of the land where water will be used.

10. List any application and describe any vested right which covers the same diversion points or the same land described in this application:

NONE

11. Furnish following well information when proposed appropriation is for use of groundwater. If well has not been completed give information obtained from test holes, if available.

Information below is from: Test holes () Well as completed (4)

Well location as shown in paragraph No. 2	(A)	(B)	(C)
Date drilled	<u>JULY 1976</u>	<u>JULY 1976</u>	
Total depth of well	<u>90</u>	<u>90</u>	
Depth to water bearing formation	<u>18</u>	<u>18</u>	
Depth to static water level	<u>18</u>	<u>18</u>	
Depth to bottom of intake pipe	<u>75</u>	<u>75</u>	
Type of fuel	<u>L.P. GAS</u>	<u>L.P. GAS</u>	

12. The relation of the subscriber to this application is that of TENANT
(owner, tenant, agent or otherwise)
and he is authorized to make this application in behalf of the interest affected.

Dated at STAFFORD, Kansas, this 27 day of OCTOBER, 1976

ASSISTED BY ERIC W. FRISBIE KINSLEY FARMS

(By) Johnny Carson

By _____
(Agent or Officer)

PHONE: 316-659-3631

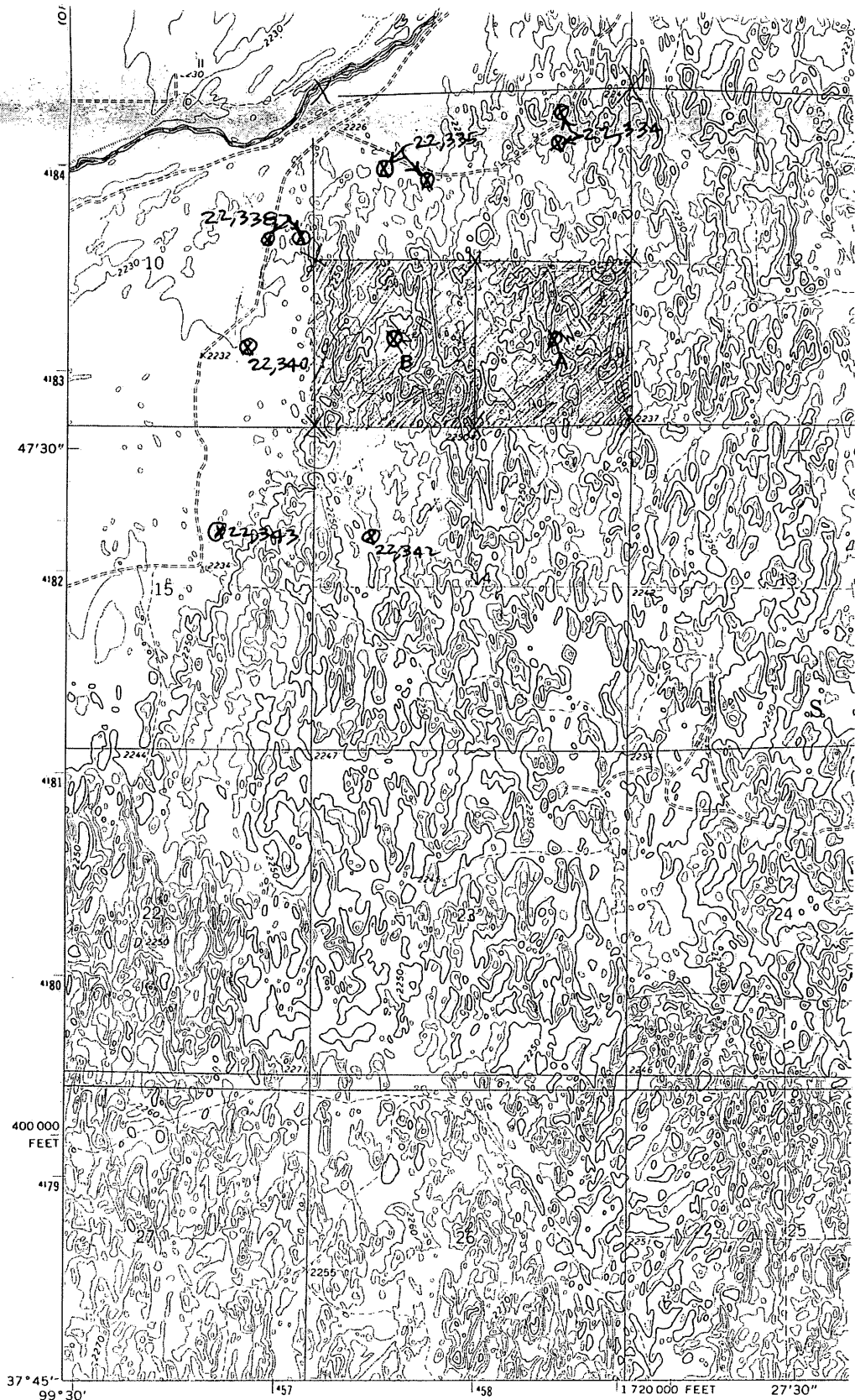
Rev. 4-76

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HAYS004105



(BUCKLIN, NE)
6059 II NE

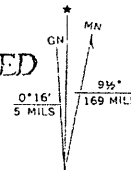
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS

Topography by photogrammetric methods from aerial
photographs taken 1971. Field checked 1972

Projection and 10,000-foot grid ticks: Kansas coordinate
system, south zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks,
zone 14, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unchecked

MICROFILMED



UTM GRID AND 1972 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

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HAYS004106

F

2
E-N

July 6, 1977

Kinsley Farms
Route 1, Box 82-E
Kinsley, Kansas 67547

Re: Appropriation of Water
Application No. 27,760

Gentlemen:

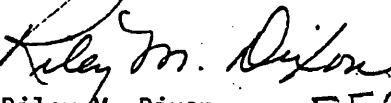
Your application has been examined and is found to be in proper form. Further, we find that the proposed use is for a beneficial purpose and is within reasonable limitations. If priorities are observed and respected, the proposed use will neither impair any use under existing water rights nor prejudicially and unreasonably affect the public interest. It is presumed that the application is made in good faith, and that you are ready to proceed with the proposed diversion works and the application of water to the proposed use. The application has, therefore, been approved.

There is enclosed the approval of the application authorizing you to proceed with construction of the proposed diversion works, to divert such unappropriated water as may be available from the source and at the location specified in the approval of application, and to use it for the purpose and at the location described in the application.

There is also enclosed a memorandum setting forth the procedure to obtain a certificate of appropriation which will establish the extent of your water rights.

Should you have any questions or if we can be of any assistance to you, please feel free to write or call us.

Very truly yours,



Riley M. Dixon
Hydrologist

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JUL 16 1977

RMD:HTW:ee1
Encs.

cc: Mr. Paul Mann
Groundwater Management District No. 5

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FIELD OFFICE
DIVISION OF WATER RESOURCES
STAFFORD

HAYS004113

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KANSAS STATE BOARD OF AGRICULTURE
Division of Water Resources

MEMORANDUM

To: Files

Date: July 11, 1994

From: W. R. Eubank
Environmental Scientist

Re: Appropriation of Water
File No. 27,760

An application to change the point of diversion for the above referenced file number was received on March 14, 1986. The appropriation right at that time was owned by The Connecticut General Life Insurance Co. with Agri-Affiliates Inc. of North Platte, Nebraska, as farm managers.

The application has languished somewhat in this office, mainly because of the difficulty of doing what the application requests. Appropriation of Water, File No. 27,760, in the past, has authorized two (2) wells, one NC SE $\frac{1}{4}$ and the other NC SW $\frac{1}{4}$, both in 11-26-20W, Edwards County. The authorized place of use is, and will remain, the S1/2 of that same Section 11. The application was filed to include an additional third well (NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 11, which had been in place for as long a period as the other two wells. For some reason, this third well was never authorized by File No. 27,760, or any other water right. The present change application was filed because the area was over-appropriated in the mid-80's so an attempt was made to add the third well to the previously authorized two wells under this file number.

During the year 1989, a verbal approval was given to redrill the well in the SW $\frac{1}{4}$ of Section 11, by John Munson, then supervisor of the New Applications and Changes Unit and the application was modified to reflect the feet distances of the redrilled well. According to Greg Ebert, present farm manager on the property, this well in the SW $\frac{1}{4}$ is the lesser of the three wells and even the redrill did little to improve yield on this quarter. The third (unauthorized) well is actually the better of the three wells and is piped to the center of both quarters to supplement the authorized wells in order to operate the two center pivot systems utilized to irrigate the property. Loss of the third well would drastically reduce crop production for the entire S $\frac{1}{2}$ of the section. The right has been consistently in use since 1988, although during the early 1980's, some years of non-reporting or non-use can be noted.

After discussions with David Pope, Chief Engineer, Guy Ellis, Water Rights Section Head, Connie Owen, DWR legal counsel, and myself, with notifications to Bruce Falk, Stafford, Kansas Water Commissioner, and Sharon Falk, Groundwater Management District No. 5 manager, it was decided that with the change in the DWR Rules & Regulations, effective May 31, 1994, this application would be construed to request that the two wells in the Southeast Quarter (SE $\frac{1}{4}$) of Section 11, be classified as a battery of two (2) wells, instead of an additional well under the existing water right. After approval of the change the certification of the right would have to be based on a later year of record, which means an extension of time to perfect would have to be granted.

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HAYS004121

27760

JUN 29 2015

Page 16 of 62

SCANNED

File No. 27,760
 Memorandum
 page 2

An approval document has been prepared for File No. 27,760 to authorize one well NC SW $\frac{1}{4}$ and a battery of two (2) wells with geo-center located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$, all in Section 11, Township 26 South, Range 20 West, Edwards County, Kansas. The two wells under the battery are each 300 feet distant from the geo-center, and so barely make the definition to be classified as a battery. According to the definition, the maximum diversion rate is to be 800 gallons per minute (1.78 c.f.s.) and this limitation has been included in the approval document.

A recommendation for approval was received from Groundwater Management District No. 5 on July 5, 1994. The Stafford Field Office has no objection.

At this time I recommend the approval be issued with the standard check valve paragraph, along with meter requirements for all three wells. A GMD #5 meter requirement is already in effect for these wells, but this approval document will establish the DWR meter requirement, also.

W. R. Eubank

W. R. Eubank
 Environmental Scientist

WRE:wre

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Phillip A. Fishburn, Acting Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer

APPROVAL OF APPLICATION

FOR
CHANGE IN POINT OF DIVERSION
APPROPRIATION OF WATER
FILE NO. 27,760

The Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture, after due consideration of the written application of the former owner, Connecticut General Life Insurance Company, presently owned by R-9 Ranch-A Kansas Partnership, in care of Jerry Bryant-Partner, 518 Gum Street, Yuma, Colorado 80759, received in this office on March 14, 1986, for approval of a change in the location of the point of diversion under the Approval of Application, File No. 27,760, for permit to appropriate water for beneficial use, finds that the change is reasonable and will not impair existing rights, that the change relates to the same local source of supply and that the application should be and is hereby approved.

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

one (1) well located near the center of the Southeast Quarter (SE $\frac{1}{4}$) of Section 11, more particularly described as being near a point 1,320 feet North and 3,985 feet West of the Southeast corner of said section, and,

a battery of two (2) wells with a geographic center located in the Northeast Quarter of the Southwest Quarter of the Southeast Quarter (NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 11, more particularly described as being near a point 1,150 feet North and 1,615 feet West of the Southeast corner of said section,

both in Township 26 South, Range 20 West, Edwards County,

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

That the two wells described as a battery of two (2) wells shall be limited to a rate of diversion of 800 gallons per minute (1.78 c.f.s.) when operating simultaneously.

Installation of the works for diversion of water shall be completed on or before December 31, 1994, or within any authorized extension of time. The applicant shall notify the Chief Engineer of the Division of Water Resources,

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DIVISION OF WATER RESOURCES
STAFFORD
MICROFILMED

Kansas State Board of Agriculture, when construction of the works for diversion has been completed.

All 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 landowner shall properly install acceptable water meters, on the diversion works authorized under this appropriation of water, prior to the use made of water, in strict accordance with the specifications adopted by the Chief Engineer on February 27, 1985. The landowner shall notify the Chief Engineer when installation of the water meters has been completed. The landowner shall maintain the water meters in an operating condition satisfactory to the Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture, at all times during diversion of water and shall maintain records from which the total quantity of water diverted may be determined. The landowner shall also report the reading of said water meters and the total quantity of water diverted annually to the Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture. Such records shall be furnished to the Chief Engineer by March 1 following the end of each calendar year.

In all other respects, the Approval of Application, File No. 27,760, for permit to appropriate water for beneficial use, is as stated and set forth in the approval dated July 6, 1977.

Dated at Topeka, Kansas, this 21st day of July, 1994.

Guy Ellis

Guy Ellis
Water Rights Section Head
Division of Water Resources
Kansas State Board of Agriculture

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DIVISION OF WATER RESOURCES
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HAYS004124

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WATER METER REQUIRED

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KANSAS STATE BOARD OF AGRICULTURE

~~Phillip A. Fishburn, Secretary~~
 Phillip A. Fishburn, Acting Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer-Director
 901 S. Kansas Avenue, Second Floor
 Topeka, Kansas 66612-1283
 (913) 296-3717 Fax (913) 296-1176
 July 22, 1994

R-9 RANCH - A KANSAS PARTNERSHIP
 C/O JERRY BRYANT
 518 GUM STREET
 YUMA CO 80759

RE: Appropriation of Water
 File No. 27,760

Dear Sir:

Enclosed is the order executed by the Chief Engineer, Division of Water Resources, Kansas State Board 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 flow meters must be installed on the diversion works authorized under the referenced file number.

As a consequence of this change approval, the time in which to perfect (develop) this water right has been extended through calendar year 1995.

All future correspondence and water use reports will be sent to R-9 Ranch-BET Farms, P.O. Box 362, Kinsley, Kansas 67547, unless we are notified otherwise.

If you have any questions, please feel free to contact this office. If you wish to refer to a specific file, please reference the file number when you contact us.

Sincerely,

Guy Ellis
 Water Rights Section Head

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GE:WRE:wre
 enc.
 pc: Stafford Field Office
 Groundwater Management District No. 5
 R-9 Ranch - BET Farms

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HAYS004125

FIELD OFFICE
 DIVISION OF WATER RESOURCES
 Water Rights Section
 STEPHEN D. STUBBS

296-3495 SCANNED

MICROFILMED

**KANSAS STATE BOARD OF AGRICULTURE
Division of Water Resources**

MEMORANDUM

To: Files

Date: July 27, 1994

From: W. R. Eubank
Environmental Scientist

Re: Appropriation of Water
File No. 27,760

An Approval of Application for Change in Point of Diversion for the above referenced file was issued by this office on July 21, 1994. Unfortunately, an error occurred on the worksheet that went to the typist for the typed approval document. The error went unnoticed until a copy of the signed document went to GMD No. 5, where it was discovered.

A point of diversion described as being:

one (1) well located near the center of the Southeast Quarter (SE1/4) of Section 11, more particularly described as being near a point 1,320 feet North and 3,985 feet West of the Southeast corner of said section, in Township 26 South, Range 20 West, Edwards County, Kansas,

should have been described as being:

one (1) well located near the center of the Southwest Quarter (SW1/4) of Section 11, more particularly described as being near a point 1,320 feet North and 3,985 feet West of the Southeast corner of said section, in Township 26 South, Range 20 West, Edwards County, Kansas.

A correctional order has been prepared to make this correction.

W. R. Eubank

W. R. Eubank
Environmental Scientist

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WRE:wre

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HAYS004126



KANSAS STATE BOARD OF AGRICULTURE

~~Phillip A. Fishburn, Secretary~~
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX .Phillip A. Fishburn, Acting Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer-Director
901 S. Kansas Avenue, Second Floor
Topeka, Kansas 66612-1283
(913) 296-3717 Fax (913) 296-1176

August 5, 1994

R-9 RANCH - A KANSAS PARTNERSHIP
C/O JERRY BRYANT
518 GUM STREET
YUMA CO 80759

Re: Appropriation of Water
File No. 27,760

Dear Sir:

Enclosed is a Correctional Order by the Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture, which corrects the order dated July 21, 1994, to show the correct location of one of the wells authorized under the right.

The subject well was shown to be in the Southeast Quarter (SE1/4) of Section 11, Township 26 South, Range 20 West, Edwards County, Kansas. The well should have been shown to be in the Southwest Quarter (SW1/4) of the section.

Should you have any questions, please feel free to contact this office. If you wish to refer to a specific file, please reference it when you contact us.

Sincerely,

Guy Ellis
Section Head
Water Rights Section

**WATER RESOURCES
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JUN 29 2015

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GE:WRE:wre
enc.

pc: Stafford Field Office
Groundwater Management District No. 5
R-9 Ranch - BET Farms

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HAYS004127



THE STATE

OF KANSAS

DUPLICATE COPY

STATE BOARD OF AGRICULTURE
Phillip A. Fishburn, *Acting Secretary*

DIVISION OF WATER RESOURCES
David L. Pope, *Chief Engineer*

CORRECTIONAL ORDER

Appropriation of Water
File No. 27,760

It has been determined that an error occurred on the Approval of Application for Change in Point of Diversion for Appropriation of Water, File No. 27,760, dated July 21, 1994, wherein the point of diversion described as being:

one (1) well located near the center of the Southeast Quarter (SE1/4) of Section 11, more particularly described as being near a point 1,320 feet North and 3,985 feet West of the Southeast corner of said section, in Township 26 South, Range 20 West, Edwards County, Kansas,

should have been described as being:

one (1) well located near the center of the Southwest Quarter (SW1/4) of Section 11, more particularly described as being near a point 1,320 feet North and 3,985 feet West of the Southeast corner of said section, in Township 26 South, Range 20 West, Edwards County, Kansas.

NOW, THEREFORE, It is the decision and order of the Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture, that such is an error in the Approval of Application for Change in Point of Diversion for Appropriation of Water, File No. 27,760, dated July 21, 1994. The same should be and is hereby corrected now, as of then, to show the correct well location to be:

one (1) well located near the center of the Southwest Quarter (SW1/4) of Section 11, more particularly described as being near a point 1,320 feet North and 3,985 feet West of the Southeast corner of said section, in Township 26 South, Range 20 West, Edwards County, Kansas. } x

In all other respects, Appropriation of Water, File No. 27,760 for permit to appropriate water for beneficial use is as approved on July 6, 1977 and as modified by the aforementioned order.

Dated at Topeka, Kansas, this 5th day of August, 1994.

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Guy Ellis
Guy Ellis

SCANNED

Water Rights Section HAYS004128
Division of Water Resources
Kansas State Board of Agriculture

EXHIBIT
27760
F

DIVISION OF WATER RESOURCES—KANSAS STATE BOARD OF AGRICULTURE
FIELD INSPECTION REPORT

- Partial
- Full
- Re-Test

Test 1 of 2 Diversion points

Application No. 27760 Date 10/10/86 Firm/Field Office Pumping Plant Testing, Inc
Inspector Ebert/Klassen

Field Area No. 2 G.M.D. No. 5 County Edwards

Current Landowner Connecticut General Life Insurance % Agri. Affiliates

Address Box 1162 North Platte, NE 69103 Attn. Jerry Weaver

Additional landowners and addresses identified in remarks section.

Water Use Classification: 1. Domestic () 2. Industrial () 3. Irrigation
4. Municipal () 5. Recreation () 6. Stockwatering () 7. Water Power ()

Groundwater Drainage Basin Arkansas River

Surface Water () Stream _____

Authorized Point of Diversion: 1 well NC SW 1/4 Sec. 11, T. 26, R. 20
Approximately _____ ft. North and _____ ft. West of SE corner of Sec. _____

Actual Point of Diversion: 1 well NC SW 1/4 Sec. 11, T. 26, R. 20
Approximately 1340 ft. North and 3975 ft. West of SE corner of Sec. 11

How were distances determined? By measuring off small scale AISC aerial photo

"Approved" Quantity 480 AF "Approved" Diversion Rate 2000 g.p.m. (4.46 c.f.s.)

Priority Date Nov. 15, 1976 Approval of Application Date July 6, 1977

Perfection Date Dec. 31, 1982

Other applications covering land and/or point of diversion None
(include discussion of overlapping files in remarks section)

LAND TO BE INCLUDED ON CERTIFICATE:

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11	26	20									40	40	40	40	40	40	40	40	320

LAND IRRIGATED—YEAR OF RECORD 1985 - SEE ATTACHED SHEET

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11	26	20									33	33	33	33	33	33	33	33	264

APPLICATION OF WATER:

Year of Record 1985 Hours Pumped 2100 or Quantity 244 AF

Normal conditions Flow from well NC SW 1/4

Normal Operating G.P.M. 631 Equiv. c.f.s. 6.91 : SEE REMARKS

Maximum Operating G.P.M. 667 Equiv. c.f.s. 1.49

FOR D.W.R. USE ONLY

Year of Record _____ Extension of time requested: Yes _____ No _____

Total No. of Hours on land covered by this application _____

Ac. Ft. Applied = _____ hrs. × _____ g.p.m. × $\frac{4.419}{24 \times 1000}$ = _____ AF

Acres of "Approved" Land irrigated _____

Ac. Ft. on "Approved" Land _____ (_____ Ac. Ft./Ac.)

Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less _____

Proration Calculations _____

Perfected Rate _____ g.p.m. Perfected Quantity _____ AF

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DEC 30 1986

DIVISION OF WATER RESOURCES STAFFORD

SCANNED

27760
GENERAL INFORMATION ON IRRIGATION SYSTEM:

Center Pivot High Pressure Low Pressure

Manufacturer Valley Model 4071 Serial No. 41286

Drive Electric Length of Pivot Arm _____

Design Pressure-Pivot _____ p.s.i. Operating Pressure-Pivot _____ p.s.i.

End Gun? yes End Gun Rating _____ g.p.m. 2 Rain Bird 853

Is end gun operating during test? yes

Gravity Irrigation (show test set on sketch)

Number of gates open _____ Normal Pipe Size _____

Pressure at pump _____ p.s.i.

Other Type _____

Manufacturer _____ Model _____ Serial No. _____

Unusual Conditions/Other Info. _____

POWER UNIT INFORMATION:

Manufacturer Ford Model No. 300 HP _____

Serial No. 24831 F-13-HK Fuel Propane Rated RPM _____

PUMP INFORMATION:

Manufacturer Goulds Model No. 12 SMC Rated RPM _____

Serial No. K 3863 Type Vertical Turbine No. stages 3

GEAR HEAD INFORMATION:

Manufacturer Randolph Model No. G 60

Serial No. G66840090P Drive Right Angle Ratio 4:3

WELL INFORMATION:

Date Drilled July 6, 1976 Original Depth 95 ft. Static Water Level When Drilled 18 ft.

Tape Down Possible? yes 12' Water Level Measurement Tube? no

Measuring Point 1 ft. above ~~or below~~ L.S.D.

ADDITIONAL REQUIREMENTS:

Meter Required? no Make of Meter _____

Meter Model No. _____ Serial No. _____ Size _____

Is Meter Installed Properly? _____

Chemical Injection System? yes Check Valve? yes Low Pressure Drain? no

Vacuum Breaker? yes Are these anti-pollution devices installed properly? yes HAYS004071

If chemicals are injected into system, please attach sketch of system.

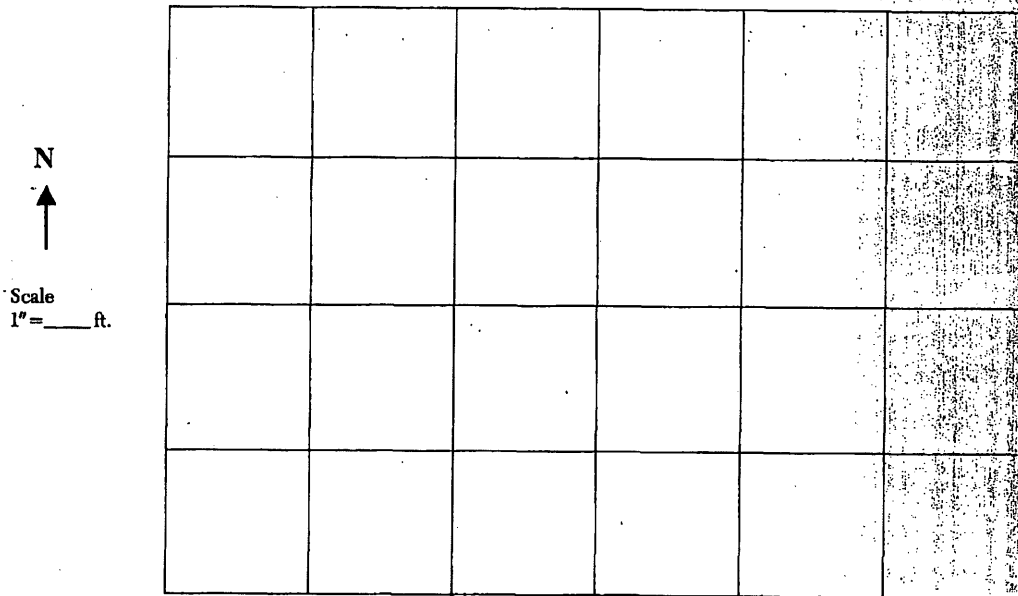
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SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM.
(Indicate distribution system layout at time of field test).



TEST OF DIVERSION RATE:

Length of time well has been operating prior to test 0
 Location of test In vertical pipe inside pivot stand - SW pivot
 Pipe Diameter (I.D.) 7 3/4 inches

Test No. 1—Normal Conditions 3 wells pumping other middle well
 R.P.M. POWER UNIT 1999 2333
 R.P.M. PUMP UNIT 1499 1750
 Pressure at Pump 48 psi

Test No. 2—~~Maximum~~ Conditions Well in SW 1/4 alone
 R.P.M. POWER UNIT 1747
 R.P.M. PUMP UNIT 1310
 Pressure at Pump 25 psi

Jacuzzi Meter Test

Meter Identification No. _____

Area Constant K = 2.45 × I.D.² = _____ Q (gpm) = VK

Velocity (fps)
 1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____
 9. _____
 10. _____
 Total _____
 Avg. _____
 G.P.M. _____

Velocity (fps)
 1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____
 9. _____
 10. _____
 Total _____
 Avg. _____
 G.P.M. _____

Propeller Meter Test

Manufacturer _____ Model _____ Serial No. _____

Meter Diameter _____ inches

Ending _____ gal. Ending _____ gal.
 Beginning _____ gal. Beginning _____ gal.
 Difference _____ gal. Difference _____ gal.
 Time _____ min. Time _____ min.
 Rate _____ gpm Rate _____ gpm

Other Flow Meter

Use Supplemental Sheet (include meter identification, data and calculations).

WATER RESOURCES RECEIVED

JUN 23 2015

STATE OF ARIZONA DEPARTMENT OF AGRICULTURE

HAY 800402

FUEL RECORDS:

Electricity Supplier _____
 Meter Manufacturer _____ Type _____ Serial No. _____
 K _____ watt/rev r _____ revolutions t _____ seconds
 Rate = $\frac{Kr \times 3.6}{t}$ = _____ kw/hr Hours = $\frac{kw-hr}{rate}$ = _____

Other Fuels Type Propane Supplier Mid-Continent
 Rate = $\frac{Volume (test)}{time}$ = _____
 How was the test volume determined? Not Determined representative didn't know

TABULATION OF WATER USE:

Year	Hours Pumped (hr)	Tested Pumping Rate (gpm)	Water Used (AF)	Acres Irrigated
1977	979	800		260
1978				
1979	336	800		127
1980				
1981				
1982				
1983	unused due to redevelopment ^F			
1984	2000 ^F	900 ^F		132 ^F
* 1985	2100 ^F	667 [*]		132 ^F
1986		667 [*]		

^F obtained from WUR sent to us from Jerry Weaver
^{*} obtained from test on 10/10/86

Indicate Year of Record with (*) Source of Information Stafford Files
 Crops Irrigated: this year Corn Year of record Corn

REMARKS: Under normal conditions the wells NE 1/4, SW 1/4, and NW 1/4 pump into pivots on each of the quarters. A third well that has been applied for, but not yet approved (located in the NE 1/4, SW 1/4, SE 1/4), pumps into both pivots.

WATER RESOURCES RECEIVED
 JUN 29 2015

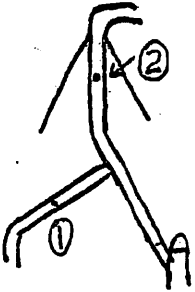
Person present at test Randy Ardesy ^(name) tenant ^(relationship)
 Water Use Correspondent Agri Affiliates ^(name) Box 1162 North Platte, NE 69103 ^(address) (308) 534-9240 ^(phone number)
 Conducted by Breg Ebert ^(signature) Date 10/13/86
 Approved by Neil J. White ^(signature) I.E. ^(title) Date 12/21/86 HAYS004073

APPLICATION NO: 27760

NAME: Connecticut General Life Ins.

Test Procedure:

The middle well (unapproved) has its flow divided between the two pivots. The water from the well NC of the SE $\frac{1}{4}$ pumps only into the pivot on the SE $\frac{1}{4}$. The water from the well NC of the SW $\frac{1}{4}$ is pumped only into the pivot on the SW $\frac{1}{4}$.



At each pivot, we plumbed in with two meters (see right). ① was the flowrate from the middle well before it tied into the flowrate from the approved well. The max. flowrate for the well NC of the SW $\frac{1}{4}$ was taken with meter ② and all other wells shut off. Check valves prevented flow back through the lines (past ①). The normal pumping rate of the well NC SW $\frac{1}{4}$ was found by subtracting the flow through ① from the flow through ② when the middle well was assisting the well NC SW $\frac{1}{4}$. The normal flowrate (when both pivots were running and all 3 wells were pumping) from the middle well was found by adding the flowrate through location ① at the SW pivot to the flowrate through location ① at the SE pivot. We also tried to get a max. flowrate from the middle well by turning the other two wells off and pumping it all through the SE pivot, but the two rates were almost identical. The normal flowrate from the well NC SE $\frac{1}{4}$ was found the same way as the normal flowrate for the well NC SW $\frac{1}{4}$ (subtract ① from ② when all 3 wells were running). A max. flowrate for the well NC SE $\frac{1}{4}$ could not be found, however, because it was pumping too much air for our Collins meter.

PUMPING PLANT TESTING, INC.

WATER RESOURCES
RECEIVED

Reviewed by:

Professional Engineer

HAYS004074

JUN 29 2015

APPLICATION NO: 27,760

NAME: CONNECTICUT GENERAL LIFE
INSURANCE CO, INC.NOTES ON CHOOSING A YEAR OF RECORD

THIS DEVELOPMENT HAS HAD SEVERAL OWNERS SINCE ITS INCEPTION IN 1975, WITH OWNERS FROM EUROPE & AROUND THE U.S. AT VARIOUS TIMES, A STATE OF CONFUSION HAS EXISTED IN THE CROP PRODUCTION REPORT. ALL OF THE WATER USE AND EQUIPMENT RECORDS HAVE BEEN EITHER DESTROYED OR LOST, AND THE SYSTEMS AND PUMPING PLANT COMPONENTS HAVE BEEN INTERCHANGED OVER THE YEARS.

SINCE LATE 1983, CONNECTICUT GENERAL HAS MADE A DILIGENT EFFORT TO KEEP GOOD RECORDS. THEREFORE, IT WOULD SEEM REASONABLE TO USE THE YEARS SINCE 1983 IN CHOOSING A YEAR OF RECORD.


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JUN 29 2015

KS DEPT OF AGRICULTURE

PUMPING PLANT TESTING, INC.

Reviewed by:


Professional Engineer

HAYS004075

KANSAS STATE BOARD OF AGRICULTURE
DIVISION OF PLANT HEALTH

CHEMIGATION FIELD INSPECTION REPORT

PUMPING PLANT TESTING, IVE.

Permit No. 27760 Date 10/10/86 Inspector Ebert

Name Randy Ardery

Address Hwy 183

City Greensburg State Ks Zip 67054

Phone (316) 723-3052

Check one: Owner () Tenant Manager ()

Check one (if applicable): Corporation () Partnership ()

Co-owner () Proprietorship () Estate () Other ()

County Edwards Current Landowner Connecticut General Life Insurance

Legal description of well or point of diversion: NCSw 1/4 11-26-20

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11	26	20									33	33	33	33					132

Type of system: Center Pivot Flood () Drip () Other ()

Check the appropriate box for each of the following items, if present.

- A. Interlock
- B. Mainline Checkvalve
- C. Chemical line closure device
- D. Vacuum relief device
- E. Automatic low-pressure drain
- F. Manually operated valve on chemical supply tank
- G. In-line strainer
- H. Positive displacement pump
- I. Air bleeder valve
- J. Calibration device

Note: Anti-pollution and safety devices shall be maintained in a functional state for any irrigation system used in the chemigation process.

Comments:

WATER RESOURCES RECEIVED HAYS004076

APPLICATION NO: 27760 NAME: Connecticut General Life Insurance

Normal conditions All three wells pumping (SEE REMARKS)
total flow on SW 1/4

COLLINS METER TEST

Collins Meter No. 1-85 Meter Calibration Factor .9826

Pipe Inside Diameter (inches) 7 3/4 Flow Rate Factor 145.4

Test Pressure (psi) 48 Test RPM, Pump 1494 ^{SW 1/4} 1750 ^{middle}

Description of Test Location In vertical pipe inside
pivot stand

TEST DATA:	<input checked="" type="checkbox"/> Check, Initial	<u>7.13</u>	Reversed	<u>7.15</u>
		Velocity	Velocity	
	Meter Setting From	Left Side of Pipe	Right Side of Pipe	
	Center of Pipe	(or Front Side if	(or Back Side if	
		Vertical Test)	Vertical Test)	

<u>1 9/16</u>	<u>6.80</u>	<u>6.63</u>	<u>7.39</u>	<u>7.43</u>
<u>2 3/4</u>	<u>6.22</u>	<u>6.37</u>	<u>7.38</u>	<u>7.23</u>
<u>3 9/16</u>	<u>6.18</u>	<u>5.78</u>	<u>6.97</u>	<u>7.04</u>

Average Velocity of Water = Sum of Vel. ÷ 12 = 6.785

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) =
6.785 x .9826 = 6.67

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =
6.67 x 145.4 = 970** GPM

** 'Normal' PUMPING RATE FOR SW 1/4 WELL = 970 - 339 = 631 GPM

PUMPING PLANT TESTING, INC.

Reviewed By:



Professional Engineer
WATER RESOURCES
RECEIVED

HAYS004077

APPLICATION NO: 27760 NAME: Connecticut General Life Ins.

Normal conditions (all wells pumping)
flow from middle well on SW 1/4

COLLINS METER TEST

Collins Meter No. 1-84 Meter Calibration Factor .9635

Pipe Inside Diameter (inches) 8 3/8 Flow Rate Factor 170.5

Test Pressure (psi) 48 Test RPM, Pump 1750

Description of Test Location In horizontal pipe between riser
from middle well and well in SW 1/4

TEST DATA:	<input checked="" type="checkbox"/> Check, Initial	<u>2.25</u>	Reversed	<u>2.28</u>
		Velocity		Velocity
	Meter Setting From	Left Side of Pipe		Right Side of Pipe
	Center of Pipe	(or Front Side if		(or Back Side if
		Vertical Test)		Vertical Test)

<u>1 1/16</u>	<u>2.48</u>	<u>2.45</u>	<u>2.30</u>	<u>2.39</u>
<u>2 15/16</u>	<u>1.78</u>	<u>2.00</u>	<u>1.80</u>	<u>2.05</u>
<u>3 13/16</u>	<u>1.83</u>	<u>1.90</u>	<u>1.85</u>	<u>1.90</u>

Average Velocity of Water = Sum of Vel. ÷ 12 = 2.06

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) =
2.06 x .9635 = 1.986

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =
1.986 x 170.5 = 339 GPM

PUMPING PLANT TESTING, INC.

Reviewed By:

idj.w
Professional Engineer

WATER RESOURCES
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HAYS004078

JUN 29 2015

SCANNED

APPLICATION NO: 27760 NAME: Connecticut General Life Insurance

1 well NC SW 1/4 pumping alone

COLLINS METER TEST

Collins Meter No. 1-85 Meter Calibration Factor .9826

Pipe Inside Diameter (inches) 7 3/4 Flow Rate Factor 145.4

Test Pressure (psi) 25 Test RPM, Pump 1310

Description of Test Location In Vertical pipe inside pivot stand

TEST DATA:	<input checked="" type="checkbox"/> Check, Initial	<u>4.86</u>	Reversed	<u>4.83</u>
		Velocity		Velocity
	Meter Setting From	Left Side of Pipe		Right Side of Pipe
	Center of Pipe	(or Front Side if		(or Back Side if
		Vertical Test)		Vertical Test)

<u>1 9/16</u>	<u>4.65</u>	<u>4.58</u>	<u>5.03</u>	<u>5.11</u>
<u>2 3/4</u>	<u>4.44</u>	<u>4.49</u>	<u>5.00</u>	<u>5.01</u>
<u>3 9/16</u>	<u>4.09</u>	<u>4.23</u>	<u>4.75</u>	<u>4.69</u>

Average Velocity of Water = Sum of Vel. ÷ 12 = 4.67

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) =
4.67 x .9826 = 4.59

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =
4.59 x 145.4 = 667 * GPM

* THIS IS THE MAXIMUM PUMPING RATE FOR THIS WELL.

PUMPING PLANT TESTING, INC.

Reviewed By:



Professional Engineer
WATER RESOURCES
RECEIVED

HAYS004079

NO. TO SCALE

HA 5004080

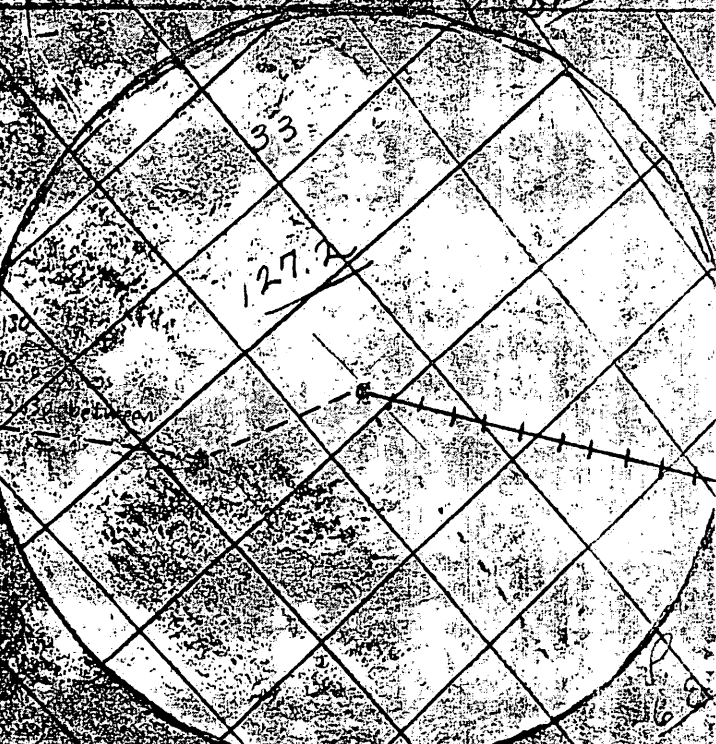
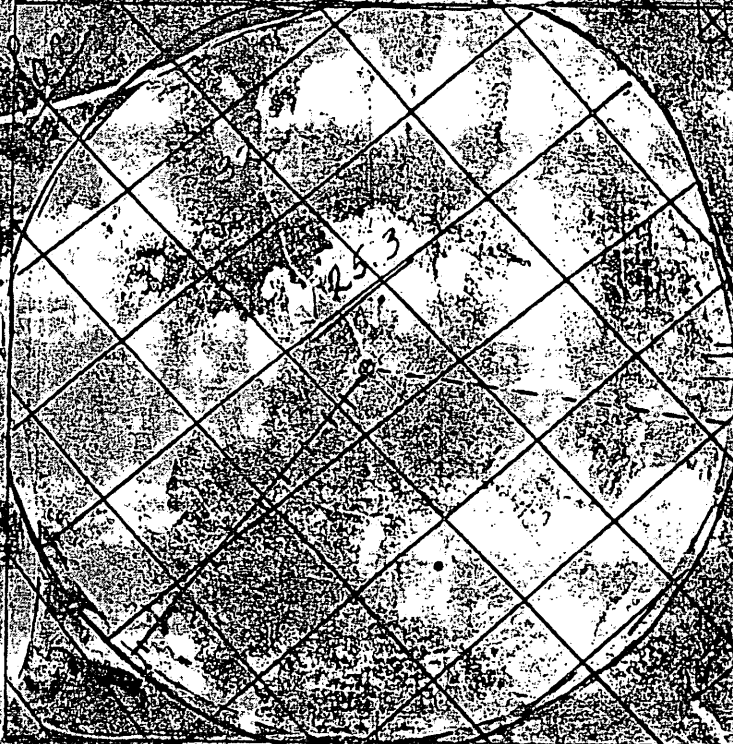
HA 5004080

Application NO. 27760

Legend

- Land on original application
- Land covered presently
- wells
- center pivot
- underground pipe

Randy Oudey 11-24-86



3 farms 26-20
11-26-20

SECTION CORNER
RIGHT ON EDGE
OF PHOTO

EXHIBIT

27760

G



KANSAS STATE BOARD OF AGRICULTURE

Phillip A. Fishburn, Acting Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer-Director
901 S. Kansas Avenue, Second Floor
Topeka, Kansas 66612-1283
(913) 296-3717 Fax (913) 296-1176

July 22, 1994

R-9 RANCH - A KANSAS PARTNERSHIP
C/O JERRY BRYANT
518 GUM STREET
YUMA CO 80759

RE: Appropriation of Water
File No. 27,760

Dear Sir:

Enclosed is the order executed by the Chief Engineer, Division of Water Resources, Kansas State Board 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 flow meters must be installed on the diversion works authorized under the referenced file number.

As a consequence of this change approval, the time in which to perfect (develop) this water right has been extended through calendar year 1995.

All future correspondence and water use reports will be sent to R-9 Ranch-BET Farms, P.O. Box 362, Kinsley, Kansas 67547, unless we are notified otherwise.

If you have any questions, please feel free to contact this office. If you wish to refer to a specific file, please reference the file number when you contact us.

Sincerely,

[Signature of Guy Ellis]

Guy Ellis
Water Rights Section Head

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NOV 08 1994

HAYS004125

FIELD OFFICE
DIVISION OF WATER RESOURCES
Water Rights Section
SCANNED

296-3495

GE:WRE:wre
enc.

pc: Stafford Field Office
Groundwater Management District No. 5
R-9 Ranch - BET Farms

Legal
27760 Services

296-4623
296-6081

Office Services
Water Structure 35 of 62

296-2658
296-2933

MICROFILMED

EXHIBIT

27760

H

1995 IRRIGATION WATER USE REPORT

This is the annual Water Use Report required to be filed for all Vested or Appropriation Rights. IMPORTANT: Kansas Law requires this completed form to be filed by March 1. Failure to do so will subject the owner to a civil fine not to exceed \$250. If any point of diversion shown is permanently inoperable, please circle it. IF YOU DID NOT USE WATER, YOU MUST REPORT THE REASON FOR NON-USE TO PROTECT YOUR WATER RIGHT. Information on each point of diversion must be completed. Please begin by reading the attached instructions and definitions.

Table with columns: FILE NUMBER, LEGAL DESCRIPTIONS OF POINT(S) OF DIVERSION, ACRES IRR., BEGINNING WATER METER READING, ENDING WATER METER READING, METERED QUANTITY OF WATER, HOURS PUMPED, PUMP RATE (GPM), CROP CODE, TYPE OF SYSTEM, WELL DATA (WELL DEPTH, DEPTH TO WATER, DATA MEASUREMENT).

Vertical stamp: DIVISION OF WATER RESOURCES

Vertical stamp: KS DEPT OF AGRICULTURE

Vertical stamp: JUN 29 2015 SCANNED

CDR USE, OFFICE USE, FIELD OFFICE, CO, GMD, 664 Total acres irrigated.

See back of instruction sheet for additional information.

I submit this report as the best information available. I understand that knowingly falsifying the report is a violation of state law.

DIV. OF WATER RES RECEIVED

HAYS CITY HALL 10th & Main PO BOX 400 HAYS

75261057 HAYS004057

Signature of Hannes Zacharias

2-6-96 DATE Hannes Zacharias, City Engineer

FEB 20 1996

KS DEPT OF AGRICULTURE

CIRCLE ONE: OWNER AGENT TENANT

TELEPHONE NUMBER (913) 628-7320

DWR 1-514 (Rev. 08/03/95)

DIVISION OF WATER RESOURCES—KANSAS STATE BOARD OF AGRICULTURE
FIELD INSPECTION REPORT

- Partial
- Full
- Re-Test

Test 2 of 2 Diversion points
 Application No. 27760 Date 10/10/86 Firm/Field Office Pumping Plant Testing, Inc
 Inspector Ebert/Klassen
 Field Area No. 2 G.M.D. No. 5 County Edwards
 Current Landowner Connecticut General Life Insurance % Agri. Affiliates
 Address Box 1162 North Platte, NE 69103 Attn. Jerry Weaver
 Additional landowners and addresses identified in remarks section.
 Water Use Classification: 1. Domestic () 2. Industrial () 3. Irrigation
 4. Municipal () 5. Recreation () 6. Stockwatering () 7. Water Power ()
 Groundwater Drainage Basin Arkansas River
 Surface Water () Stream _____
 Authorized Point of Diversion: Well NC SE 1/4 Sec. 11, T. 26, R. 20
 Approximately _____ ft. North and _____ ft. West of SE corner of Sec. _____
 Actual Point of Diversion: Well NC of SE 1/4 Sec. 11, T. 26, R. 20
 Approximately 1280 ft. North and 1340 ft. West of SE corner of Sec. 11
 How were distances determined? By measuring off small scale ASGS aerial photo
 "Approved" Quantity 480 AF "Approved" Diversion Rate 2000 g.p.m. (4.46 c.f.s.)
 Priority Date Nov. 15, 1976 Approval of Application Date July 6, 1977
 Perfection Date Dec. 31, 1982

Other applications covering land and/or point of diversion None
 (include discussion of overlapping files in remarks section)

LAND TO BE INCLUDED ON CERTIFICATE:

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
<u>11</u>	<u>26</u>	<u>20</u>									<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>320</u>

LAND IRRIGATED—YEAR OF RECORD 1985 - SEE ATTACHED SHEET

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
<u>11</u>	<u>26</u>	<u>20</u>									<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>264</u>

APPLICATION OF WATER:

Year of Record 1985 Hours Pumped 2100 or Quantity 147 AF

Normal Operating G.P.M. 380^A (see remarks) Equiv. c.f.s. .85

Maximum Operating G.P.M. (See remarks) Equiv. c.f.s. _____

FOR D.W.R. USE ONLY

Year of Record _____ Extension of time requested: Yes _____ No _____

Total No. of Hours on land covered by this application _____

Ac. Ft. Applied = _____ hrs. x _____ g.p.m. x $\frac{4.419}{24 \times 1000}$ = _____ AF

Acres of "Approved" Land irrigated _____

Ac. Ft. on "Approved" Land _____ (_____ Ac. Ft./Ac.)

Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less _____

Proration Calculations _____

Perfected Rate _____ g.p.m. Perfected Quantity _____ AF

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JUN 29 2015

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DEC 30 1986

DIVISION OF WATER RESOURCES STAFFORD

SCANNED

GENERAL INFORMATION ON IRRIGATION SYSTEM:

Center Pivot ^{SE 1/4} High Pressure Low Pressure

Manufacturer Valley Model 4071 Serial No. 48217

Drive Electric Length of Pivot Arm _____

Design Pressure-Pivot _____ p.s.i. Operating Pressure-Pivot _____ p.s.i.

End Gun? yes End Gun Rating _____ g.p.m. 2 Rain Bird 85's

Is end gun operating during test? yes

Gravity Irrigation (show test set on sketch)

Number of gates open _____ Normal Pipe Size _____

Pressure at pump _____ p.s.i.

Other Type _____

Manufacturer _____ Model _____ Serial No. _____

Unusual Conditions/Other Info.

POWER UNIT INFORMATION:

Manufacturer Ford Model No. 300 HP _____

Serial No. 08938 E-23-TL Fuel propane Rated RPM _____

PUMP INFORMATION:

Manufacturer Goulds Model No. 10JMC Rated RPM _____

Serial No. K-3861 Type Vertical Turbine No. stages 5

GEAR HEAD INFORMATION:

Manufacturer Randolph Model No. G60

Serial No. G06840093P Drive Right Angle Ratio 4:3

WELL INFORMATION:

Date Drilled July 7, 1976 Original Depth 83 ft. Static Water Level When Drilled 22 ft.

Tape Down Possible? yes-28' Water Level Measurement Tube? no

Measuring Point 1 ft. above ~~or below~~ L.S.D.

ADDITIONAL REQUIREMENTS:

Meter Required? no Make of Meter _____

Meter Model No. _____ Serial No. _____ Size _____

Is Meter Installed Properly? _____

Chemical Injection System? yes Check Valve? yes Low Pressure Drain? no

Vacuum Breaker? yes Are these anti-pollution devices installed properly? yes HAYS004082

If chemicals are injected into system, please attach sketch of system.

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

SCANNED

SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM.
(Indicate distribution system layout at time of field test).

N
↑

Scale
1" = ____ ft.

TEST OF DIVERSION RATE:

Length of time well has been operating prior to test 0
 Location of test In Horizontal pipe before pivot - SE 1/4 - (SEE TEST PROCEDURE SHEET)
 Pipe Diameter (I.D.) 7 3/4 inches

Test No. 1—Normal Conditions

ML 3 WELLS BEING PUMPED - SEE FORMS

middlewell
 R.P.M. POWER UNIT 2372
 R.P.M. PUMP UNIT 1779
 Pressure at Pump 48 psi

Test No. 2—Maximum Conditions

SE 1/4 well
 R.P.M. POWER UNIT 2077
 R.P.M. PUMP UNIT 1535
 Pressure at Pump _____ psi

Jacuzzi Meter Test

Meter Identification No. _____

Area Constant K = 2.45 × I.D.² = _____ Q (gpm) = VK

Velocity (fps)

1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____
7.	_____
8.	_____
9.	_____
10.	_____
Total	_____
Avg.	_____
G.P.M.	_____

Velocity (fps)

1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____
7.	_____
8.	_____
9.	_____
10.	_____
Total	_____
Avg.	_____
G.P.M.	_____

Propeller Meter Test

Manufacturer _____ Model _____ Serial No. _____

Meter Diameter _____ inches

Ending _____ gal.
 Beginning _____ gal.
 Difference _____ gal.
 Time _____ min.
 Rate _____ gpm

Ending _____ gal.
 Beginning _____ gal.
 Difference _____ gal.
 Time _____ min.
 Rate _____ gpm

Other Flow Meter

Use Supplemental Sheet (include meter identification, data and calculations).

WATER RESOURCES
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JUN 29 2015

HAYS00496 DEPT OF AGRICULTURE

FUEL RECORDS:

Electricity Supplier _____

Meter Manufacturer _____ Type _____ Serial No. _____

K _____ watt/rev r _____ revolutions t _____ seconds

Rate = $\frac{Kr \times 3.6}{t}$ = _____ kw/hr Hours = $\frac{kw-hr}{rate}$ = _____

Other Fuels Type propane Supplier Mid-Content

Rate = $\frac{Volume (test)}{time}$ = _____

How was the test volume determined? Not Determined

TABULATION OF WATER USE:

Year	Hours Pumped (hr)	Tested Pumping Rate (gpm)	Water Used (AF)	Acres Irrigated
1977	420	800		260
1978				
1979	336	675		125
1980				
1981				
1982				
1983	Unused due to redevelopment ^F			
1984	2000 ^F	675 ^F		132 ^F
* 1985	2100 ^F	380 [*]		132 ^F
1986		380 [*]		

^F obtained from WUR sent to us from Jerry Weaver

* obtained from test on 10/10/86

Indicate Year of Record with (*)

Source of Information Stafford Files

Crops Irrigated: this year Corn

Year of record Corn

REMARKS: A 380 gpm. is the flow from the well NC SE 1/4 operating under normal conditions. This was obtained by subtracting the flow of the unapproved well from the total flow on the pivot in the SE 1/4. An individual flow rate was not obtained on the well NC SE 1/4 because it was pumping too much air. A second test was attempted with a substantially lower rpm, but the pump still pumped too much air for a test.

Person present at test Randy Ardey tenant

Water Use Correspondent Agri Affiliates Box 1102 North Platte, NE 69103 (308) 534-9240

Conducted by Breg Ebert Date 10/13/86

Approved by [Signature], P.E. Date 12/21/86

WATER RESOURCES RECEIVED

JUN 29 2015

SCANNED

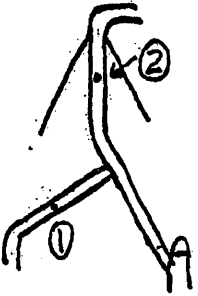
KS DEPT OF AGRICULTURE

APPLICATION NO: 27760

NAME: Connecticut General Life Ins.

Test Procedure:

The middle well (unapproved) has its flow divided between the two pivots. The water from the well NC of the SE $\frac{1}{4}$ pumps only into the pivot on the SE $\frac{1}{4}$. The water from the well NC of the SW $\frac{1}{4}$ is pumped only into the pivot on the SW $\frac{1}{4}$.



At each pivot, we plumbed in with two meters (see right). ① was the flowrate from the middle well before it tied into the flowrate from the approved well. The max. flowrate for the well NC of the SW $\frac{1}{4}$ was taken with meter ② and all other wells shut off. Check valves prevented flow back through the lines (past ①). The normal pumping rate of the well NC SW $\frac{1}{4}$ was found by subtracting the flow through ① from the flow through ② when the middle well was assisting the well NC SW $\frac{1}{4}$. The normal flowrate (when both pivots were running and all 3 wells were pumping) from the middle well was found by adding the flowrate through location ① at the SW pivot to the flowrate through location ① at the SE pivot. We also tried to get a max. flowrate from the middle well by turning the other two wells off and pumping it all through the SE pivot, but the two rates were almost identical. The normal flowrate from the well NC SE $\frac{1}{4}$ was found the same way as the normal flowrate for the well NC SW $\frac{1}{4}$ (subtract ① from ② when all 3 wells were running). A max. flowrate for the well NC SE $\frac{1}{4}$ could not be found, however, because it was pumping too much air for our Collins meter.

PUMPING PLANT TESTING, INC.

WATER RESOURCES RECEIVED
Reviewed by:

Professional Engineer HAYS004085

JUN 29 2015

APPLICATION NO: 27,760

NAME: CONNECTICUT GENERAL LIFE
INSURANCE CO, INC.NOTES ON CHOOSING A YEAR OF RECORD

THIS DEVELOPMENT WDS WTD SEVERAL OWNERS SINCE ITS INCEPTION IN 1975, WITH OWNERS FROM EUROPE & AROUND THE U.S. AT VARIOUS TIMES, A STATE OF CONFUSION WDS EXISTED IN THE CROP PRODUCTION REPORT. ALL OF THE WATER USE AND EQUIPMENT RECORDS HAVE BEEN EITHER DESTROYED OR LOST, AND THE SYSTEMS AND PUMPING PLANT COMPONENTS HAVE BEEN INTERCHANGED OVER THE YEARS.

SINCE LATE 1983, CONNECTICUT GENERAL HAS MADE A DILIGENT EFFORT TO KEEP GOOD RECORDS. THEREFORE, IT WOULD SEEM REASONABLE TO USE THE YEARS SINCE 1983 IN CHOOSING A YEAR OF RECORD.

WATER RESOURCES
RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

PUMPING PLANT TESTING, INC.

Reviewed by:



HAYS004086

Professional Engineer

APPLICATION NO: 27760 NAME: Connecticut General Life Ins.

Normal conditions (all three wells pumping)
total flow on SE 1/4

COLLINS METER TEST

Collins Meter No. 1-84 Meter Calibration Factor .9635

Pipe Inside Diameter (inches) 7 3/4 Flow Rate Factor 145.4

Test Pressure (psi) 48 Test RPM, Pump 1535 1779

Description of Test Location In vertical pipe inside pivot stand

TEST DATA: Check, Initial 7.29 Reversed 7.30

	Velocity	Velocity
Meter Setting From	Left Side of Pipe	Right Side of Pipe
Center of Pipe	(or Front Side if Vertical Test)	(or Back Side if Vertical Test)

<u>1 1/6</u>	<u>7.07</u>	<u>7.02</u>	<u>7.55</u>	<u>7.60</u>
<u>2 3/4</u>	<u>6.77</u>	<u>6.66</u>	<u>7.39</u>	<u>7.43</u>
<u>3 9/16</u>	<u>5.98</u>	<u>6.36</u>	<u>7.30</u>	<u>6.62</u>

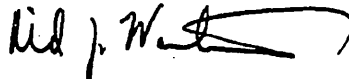
Average Velocity of Water = Sum of Vel. ÷ 12 = 6.98

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) =
6.98 x .9635 = 6.724

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =
6.724 x 145.4 = 978 GPM

PUMPING PLANT TESTING, INC.

Reviewed By:



Professional Engineer

WATER RESOURCES
RECEIVED

HAYS004087

JUN 29 2015

APPLICATION NO: 27760 NAME: Connecticut General Life Ins.

Normal conditions (all three wells pumping)
 COLLINS METER TEST flow from middle well on SE 1/4

Collins Meter No. 1-85 Meter Calibration Factor .9826

Pipe Inside Diameter (inches) 7 3/4 Flow Rate Factor 145.4

Test Pressure (psi) 48 Test RPM, Pump 1779

Description of Test Location In horizontal pipe between riser from middle well and well on SE 1/4

TEST DATA: Check, Initial 4.41 Reversed 4.39
 Meter Setting From Center of Pipe
 Velocity Left Side of Pipe (or Front Side if Vertical Test) Velocity Right Side of Pipe (or Back Side if Vertical Test)

Meter Setting From	Velocity Left Side of Pipe (or Front Side if Vertical Test)	Velocity Right Side of Pipe (or Back Side if Vertical Test)
<u>1 9/16</u>	<u>4.49</u> <u>4.52</u>	<u>4.47</u> <u>4.38</u>
<u>2 3/4</u>	<u>4.11</u> <u>4.19</u>	<u>4.10</u> <u>4.19</u>
<u>3 9/16</u>	<u>3.90</u> <u>4.08</u>	<u>4.10</u> <u>3.67</u>

Average Velocity of Water = Sum of Vel. ÷ 12 = 4.18

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) =
4.18 x .9826 = 4.11

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =
4.11 x 145.4 = 598 GPM

PUMPING PLANT TESTING, INC.

Reviewed By: 
 Professional Engineer

WATER RESOURCES RECEIVED

HAYS004088

JUN 29 2015

SCANNED

KANSAS STATE BOARD OF AGRICULTURE
DIVISION OF PLANT HEALTH

CHEMIGATION FIELD INSPECTION REPORT

PUMPING PLANT TESTING, INC.

Permit No. 27760 Date 10/10/86 Inspector Ebert

Name Randy Ardery

Address Hwy 183

City Greensburg State Ks Zip 67054

Phone (316) 723-3052

Check one: Owner () Tenant Manager ()

Check one (if applicable): Corporation () Partnership ()

Co-owner () Proprietorship () Estate () Other ()

County Edwards Current Landowner Connecticut General Life Ins.

Legal description of well or point of diversion: NE SE 1/4 11-26-20

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11	26	20													33	33	33	33	132

Type of system: Center Pivot Flood () Drip () Other ()

Check the appropriate box for each of the following items, if present.

- A. Interlock
- B. Mainline Checkvalve
- C. Chemical line closure device
- D. Vacuum relief device
- E. Automatic low-pressure drain
- F. Manually operated valve on chemical supply tank
- G. In-line strainer
- H. Positive displacement pump
- I. Air bleeder valve
- J. Calibration device

Note: Anti-pollution and safety devices shall be maintained in a functional state for any irrigation system used in the chemigation process.

Comments:

Entire chemical injection system not present at the time of test

WATER RESOURCES RECEIVED

HAYS004089

FIELD INSPECTION REPORT

- Partial
- Full
- Re-Test

Test 3 of 2 Diversion points 'SEE REMARKS'

Application No. _____ Date 10/10/86 Firm/Field Office Pumping Plant Testing, Inc.
Inspector Ebert/Klassen

Field Area No. 2 G.M.D. No. 5 County Edwards

Current Landowner Connecticut General Life Ins. % Agri. Affiliates

Address Box 1162 North Platte, NE 69103 Attn. Jerry Weaver
 Additional landowners and addresses identified in remarks section.

Water Use Classification: 1. Domestic () 2. Industrial () 3. Irrigation
4. Municipal () 5. Recreation () 6. Stockwatering () 7. Water Power ()

Groundwater Drainage Basin Arkansas River

Surface Water () Stream _____

Applied For
Authorized Point of Diversion: NE 1/4, SW 1/4, SE 1/4 Sec. 11, T. 26, R. 20
Approximately 1040 ft. North and 1870 ft. West of SE corner of Sec. 11

Actual Point of Diversion: NE 1/4, SW 1/4, SE 1/4 Sec. 11, T. 26, R. 20
Approximately 1040 ft. North and 1890 ft. West of SE corner of Sec. 11
How were distances determined? By measuring off small scale ASES aerial photo

"Approved" Quantity _____ "Approved" Diversion Rate _____ g.p.m. (_____ c.f.s.)

Priority Date _____ Approval of Application Date _____

Perfection Date _____

Other applications covering land and/or point of diversion _____
(include discussion of overlapping files in remarks section)

LAND TO BE INCLUDED ON CERTIFICATE:

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		

LAND IRRIGATED—YEAR OF RECORD

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
<u>11</u>	<u>26</u>	<u>20</u>									<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>264</u>	

APPLICATION OF WATER:

Year of Record _____ Hours Pumped _____ or Quantity _____
Normal Operating G.P.M. 938 Equiv. c.f.s. 2.09
Maximum Operating G.P.M. _____ Equiv. c.f.s. _____

FOR D.W.R. USE ONLY

Year of Record _____ Extension of time requested: Yes _____ No _____
Total No. of Hours on land covered by this application _____
Ac. Ft. Applied = _____ hrs. × _____ g.p.m. × $\frac{4.419}{24 \times 1000}$ = _____ AF
Acres of "Approved" Land irrigated _____
Ac. Ft. on "Approved" Land _____ (_____ Ac. Ft./Ac.)
Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less _____
Proration Calculations _____
Perfected Rate _____ g.p.m. Perfected Quantity _____ AF

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JUN 29 2015
KS DEPT OF AGRICULTURE

RECEIVED
DEC 30 1986

HAYS004090
DIVISION OF WATER RESOURCES
STAFFORD
Revised March 1986

GENERAL INFORMATION ON IRRIGATION SYSTEM:

Center Pivot High Pressure Low Pressure

Manufacturer SW Valley SE Valley Model 4071 Serial No. 41286
48217

Drive Electric Length of Pivot Arm _____

Design Pressure-Pivot _____ p.s.i. Operating Pressure-Pivot _____ p.s.i.

End Gun? yes End Gun Rating SW 2 Rain Bird 85's
g.p. 150' 2 Rain Bird 85's

Is end gun operating during test? yes

Gravity Irrigation (show test set on sketch)

Number of gates open _____ Normal Pipe Size _____

Pressure at pump _____ p.s.i.

Other Type _____

Manufacturer _____ Model _____ Serial No. _____

Unusual Conditions/Other Info. _____

POWER UNIT INFORMATION:

Manufacturer Ford Model No. 460 HP _____

Serial No. 12563 H-21-TC Fuel propane Rated RPM _____

PUMP INFORMATION:

Manufacturer Goulds Model No. 12 JLO Rated RPM _____

Serial No. K 3862 Type Vertical Turbine No. stages 4

GEAR HEAD INFORMATION:

Manufacturer Randolph Model No. G 80

Serial No. 85446 Drive Right Angle Ratio 4:3

WELL INFORMATION:

Date Drilled JULY 1976 Original Depth _____ ft. Static Water Level When Drilled _____

Tape Down Possible? yes 23' Water Level Measurement Tube? no

Measuring Point 1 ft. above or below L.S.D.

ADDITIONAL REQUIREMENTS:

Meter Required? no Make of Meter _____

Meter Model No. _____ Serial No. _____ Size _____

Is Meter Installed Properly? _____

Chemical Injection System? no Check Valve? yes Low Pressure Drain? no

Vacuum Breaker? yes Are these anti-pollution devices installed properly? yes HAYS004091

If chemicals are injected into system, please attach sketch of system.

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SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM.
 (Indicate distribution system layout at time of field test).

N
 ↑
 Scale
 1" = ____ ft.

TEST OF DIVERSION RATE:

Length of time well has been operating prior to test 0
 Location of test between riser at center of SE1/4 and well NC of SE1/4
 Pipe Diameter (I.D.) 7 3/4 inches

Test No. 1—Normal Conditions

Test No. 2—Maximum Conditions

R.P.M. POWER UNIT 2372
 R.P.M. PUMP UNIT 1779
 Pressure at Pump 26 psi

R.P.M. POWER UNIT _____
 R.P.M. PUMP UNIT _____
 Pressure at Pump _____ psi

Jacuzzi Meter Test

Meter Identification No. _____

Area Constant $K = 2.45 \times I.D.^2 =$ _____ $Q (gpm) = VK$

Velocity (fps)

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- Total _____
- Avg. _____
- G.P.M. _____

Velocity (fps)

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- Total _____
- Avg. _____
- G.P.M. _____

Propeller Meter Test

Manufacturer _____ Model _____ Serial No. _____

Meter Diameter _____ inches

Ending _____ gal.
 Beginning _____ gal.
 Difference _____ gal.
 Time _____ min.
 Rate _____ gpm

Ending _____ gal.
 Beginning _____ gal.
 Difference _____ gal.
 Time _____ min.
 Rate _____ gpm

Other Flow Meter

Use Supplemental Sheet (include meter identification, data and calculations).

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HAYS004069 DEPT OF AGRICULTURE

FUEL RECORDS:

Electricity Supplier _____

Meter Manufacturer _____ Type _____ Serial No. _____

K _____ watt/rev r _____ revolutions t _____ seconds

Rate = $\frac{Kr \times 3.6}{t}$ = _____ kw/hr Hours = $\frac{kw-hr}{rate}$ = _____

Other Fuels Type propane Supplier Mid-Continent

Rate = $\frac{\text{Volume (test)}}{\text{time}}$ = _____

How was the test volume determined? Not Determined representative didn't know

TABULATION OF WATER USE:

Year	Hours Pumped (hr)	Tested Pumping Rate (gpm)	Water Used (AF)	Acres Irrigated

Indicate Year of Record with (*) Source of Information _____

Crops Irrigated: this year Corn Year of record _____

REMARKS: This well has been applied for but not yet approved. The flow rate was tested through the pivot on the SE 1/4, both pivots were tested approximately the same. Although this well was not on our list to be tested, it was tested anyway because this well is always used in conjunction with the wells located NE SE 1/4 & NE SW 1/4.

WATER RESOURCES RECEIVED

Person present at test Randy Ardery (name) tenant (relationship)

Water Use Correspondent Agri Affiliates (name) Box 1162 North Platte, NE 69103 (address) (308) 534-9240 (phone number)

Conducted by Brag Ebert (signature) Date 10/14/86

Approved by W. J. Walt (signature), P.E. (title) Date 12/26/86

JUN 29 2015
DEPT OF AGRICULTURE
HAYS004093

APPLICATION NO: 27760 NAME: Connecticut General Life Ins.

COLLINS METER TEST well in the NE¹/₄, SW¹/₄, SE¹/₄ puming alone through pivot on the SE¹/₄

Collins Meter No. 1-85 Meter Calibration Factor .9826

Pipe Inside Diameter (inches) 7³/₄ Flow Rate Factor 145.4

Test Pressure (psi) 26 Test RPM, Pump 1779

Description of Test Location In horizontal pipe between riser from middle well and well on SE¹/₄

TEST DATA: Check, Initial 7.23 Reversed 7.25
 Meter Setting From Center of Pipe
 Velocity Left Side of Pipe (or Front Side if Vertical Test) Velocity Right Side of Pipe (or Back Side if Vertical Test)

<u>1⁹/₁₆</u>	<u>7.09</u>	<u>7.03</u>	<u>6.99</u>	<u>7.02</u>
<u>2³/₄</u>	<u>6.65</u>	<u>6.67</u>	<u>6.70</u>	<u>6.62</u>
<u>3⁹/₁₆</u>	<u>5.94</u>	<u>6.32</u>	<u>6.28</u>	<u>5.49</u>

Average Velocity of Water = Sum of Vel. ÷ 12 = 6.567

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) =
6.567 x .9826 = 6.45

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =
6.45 x 145.4 = 938 GPM

PUMPING PLANT TESTING, INC.

Reviewed By: 

WATER RESOURCES RECEIVED

Professional Engineer

HAYS004094

JUN 29 2015

KANSAS STATE BOARD OF AGRICULTURE
DIVISION OF PLANT HEALTH

CHEMIGATION FIELD INSPECTION REPORT

PUMPING PLANT TESTING, INC.

Permit No. 27,760 Date 10/10/86 Inspector Ebert/Klasson

Name AGRI-AFFILIATES, INC. - ATTN: JERRY WEAVER

Address BOX 1162

City NORTH PLATTE State NEB. zip 69103

Phone (308) 534-9240

Check one: Owner () Tenant () Manager (X)

Check one (if applicable): Corporation () Partnership ()

Co-owner () Proprietorship () Estate () Other ()

County EDWARDS Current Landowner CONNECTICUT GENERAL LIFE

Legal description of well or point of diversion: INS. CO. NE 1/4 SW 1/4 SE 1/4 Sec. 11, T6-20

S	T	R	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL ACRES
11	26	20									33	33	33	33	33	33	33	33	264

Type of system: Center Pivot (X) Flood () Drip () Other ()

Check the appropriate box for each of the following items, if present.

- () A. Interlock
- (X) B. Mainline Checkvalve
- () C. Chemical line closure device
- (X) D. Vacuum relief device
- () E. Automatic low-pressure drain
- () F. Manually operated valve on chemical supply tank
- () G. In-line strainer
- () H. Positive displacement pump
- () I. Air bleeder valve
- () J. Calibration device

Note: Anti-pollution and safety devices shall be maintained in a functional state for any irrigation system used in the chemigation process.

Comments: THIS IS NOT A CHEMICAL INJECTION LOCATION AT PUMPING PLANT.

WATER RESOURCES RECEIVED

KS DEPT OF AGRICULTURE

HAYS004095

Kansas State Board of Agriculture
Division of Water Resources

ADMINISTRATIVE POLICY
No. 86-8

Subject: Allowable Rates of Diversion and Maximum Annual Quantities for Irrigation Use - Permits and Approvals

Reference: K.S.A. 82a-708a and K.A.R. 5-3-1

Date: November 5, 1986

History: Effective November 5, 1986

Approved by: David L. Pope *David L. Pope*
Chief Engineer

During the review of an APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE for irrigation purposes the following guidelines shall be considered in determining the maximum reasonable rate of diversion to be allowed under any APPROVAL OF APPLICATION AND PERMIT TO PROCEED:

<u>Area, Place of use</u>	<u>Max. Allowable Rate</u>	
up to 10 acres	450 g.p.m.	450
10 - 40 acres	(+) 450 g.p.m.	900
40 - 120 acres	(+) 8 g.p.m./acre	580 + 8X
more than 120 acres	(+) 7 g.p.m./acre	700 + 7X

EXAMPLES:

A. 37 acres requested; since this area is less than 40 acres, a rate of up to 900

B. 83 acres requested;

10 acres	=	450 g.p.m.	} 900 g.p.m.
(+) 40 acres (10 + 30)	=	450 g.p.m.	
(+) 43 acres @ 8 g.p.m./acre	=	344 g.p.m.	
		1,244 (allow 1,245 g.p.m.)	

A further limiting factor of this procedure is the availability of water from the proposed source of supply. In those instances whereby the source of supply is incapable of yielding a reasonably, sustainable (computed) rate, then the source becomes a further limiting factor.

A further limiting factor is well design and equipment, which shall be reasonable to divert the requested rate.

WATER RESOURCES
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KS DEPT OF AGRICULTURE

Administrative Policy No.86-8
Page 2

Further, the rate authorized should not impair senior water rights in the area, including domestic rights.

In reviewing an APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE for irrigation purposes, the following guidelines shall be considered when determining a maximum allowable annual quantity of water request:

In that area of Kansas located between the Kansas/Missouri border and the Range 5 East/Range 6 East line, the maximum allowable quantity shall not exceed an average of 1.00 acre-foot per acre to be irrigated.

In that area of Kansas located between the Range 5 East/Range 6 East Line and the Range 20 West/Range 21 West line, the maximum allowable quantity shall not exceed an average of 1.50 acre-feet per acre irrigated.

In that area of Kansas located between the Range 20 West/Range 21 West line and the Kansas/Colorado border, the maximum allowable quantity shall not exceed an average of 2.00 acre-feet per acre irrigated.

A further limiting factor to maximum allowable quantity is the availability of water from the proposed source of supply. If the source of supply is incapable of yielding a reasonably, sustainable (computed) quantity during the irrigation season in that area of the state, then the source becomes a further limiting factor.

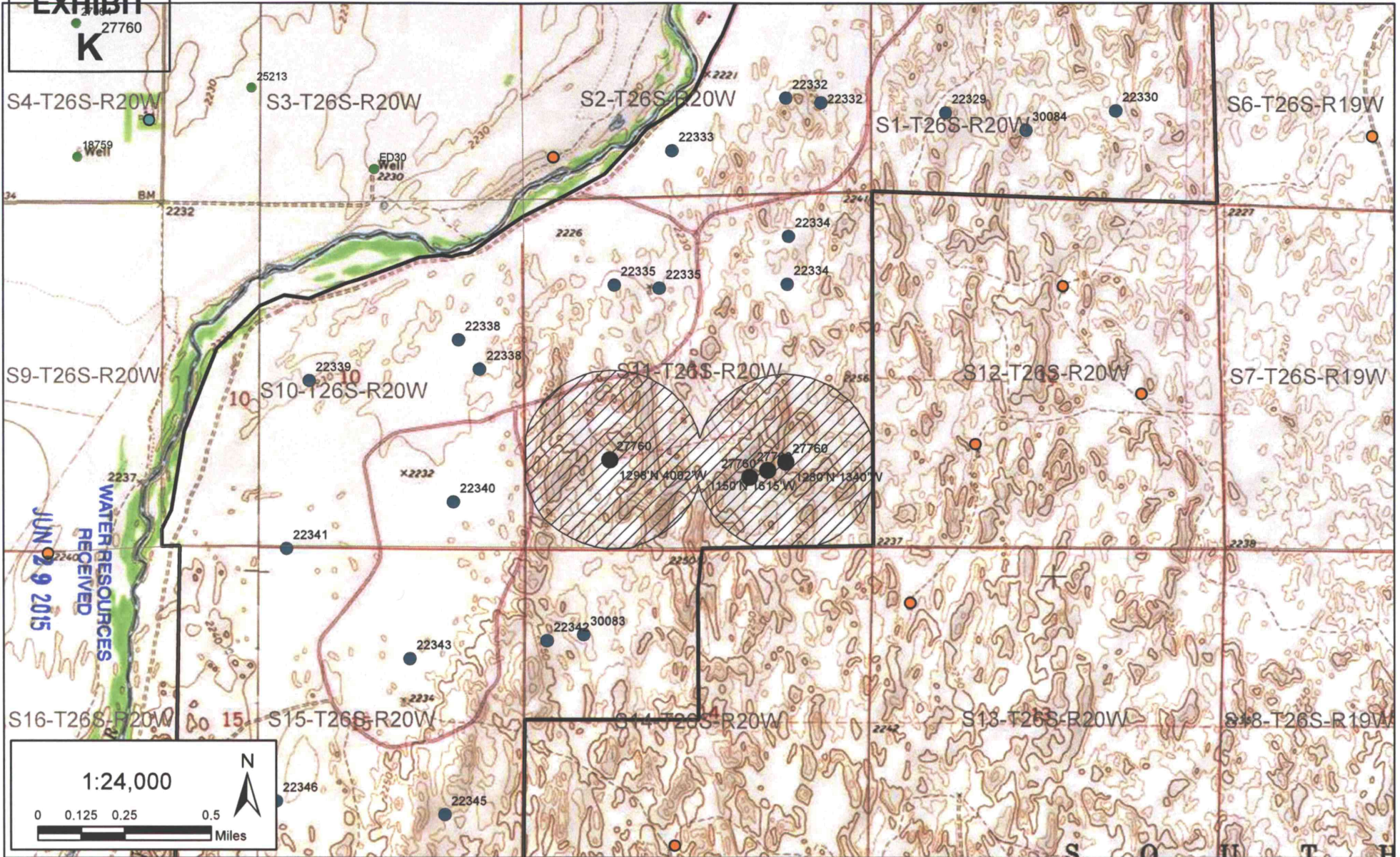
That if an applicant can show that his or her system design is reasonable for the use intended and approval of the proposed rate and/or maximum annual quantity will not impair any senior water right or prejudicially and unreasonably affect the public interest, the Chief Engineer may waive the above guidelines. Documentation shall be placed in the file clearly demonstrating any exceptions to the above policy.

WATER RESOURCES
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SCANNED JUN 29 2015

EXHIBIT

K
27760



KS DEPT OF AGRICULTURE

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Legend

- 27760 Existing Point(s) of Diversion
- ▨ 27760 Existing Place of Use
- ▭ R9 Ranch Property Boundary
- PLSS Sections 27760
- Irrigation Wells (File No.)
- Stockwater Wells (File No.)
- Domestic Well (Non-Permitted)
- Stock Well (Non-Permitted)
- Existing R9 Ranch Irrigation Wells

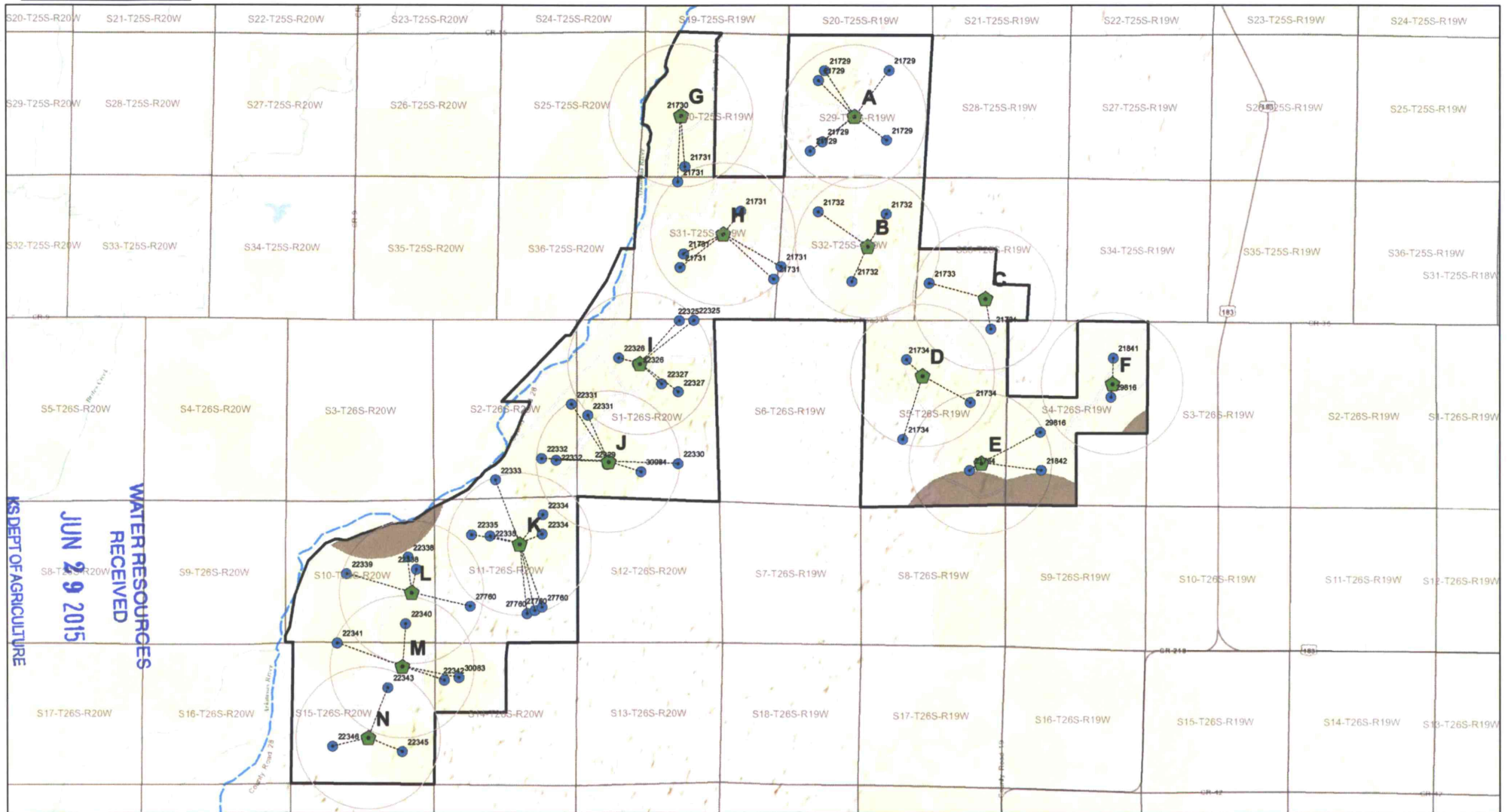


**CHANGE APPLICATION 27760
APPLICATION MAP
AUTHORIZED PLACE OF USE &
POINTS OF DIVERSION**

EXHIBIT

27760

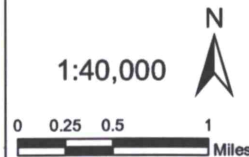
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DEPT. OF AGRICULTURE
WATER RESOURCES RECEIVED
JUN 29 2015

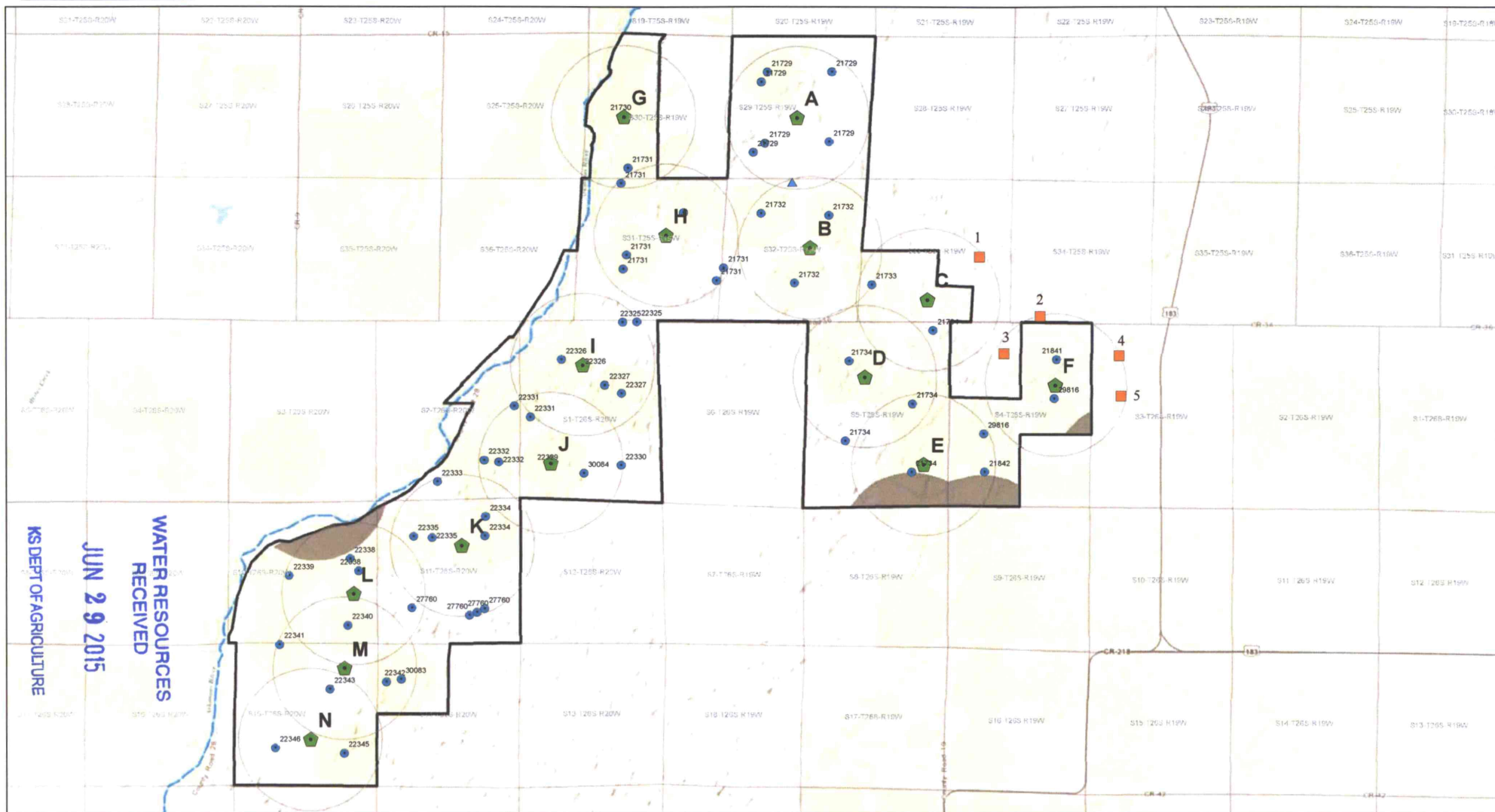
Legend

- Proposed Municipal Wells (A-N)
- Existing R9 Ranch Points of Diversion
- 1/2 Mile Buffer Around Proposed Wells
- Water Rights Consolidation Lines
- Area Excluded From Proposed Wells
- River Centerline
- R9 Ranch Property Boundary
- PLSS Sections



SCANNED

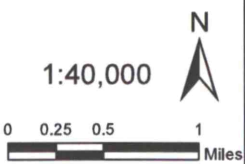
EXHIBIT
27760
M



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JUN 29 2015
WATER RESOURCES RECEIVED

Legend

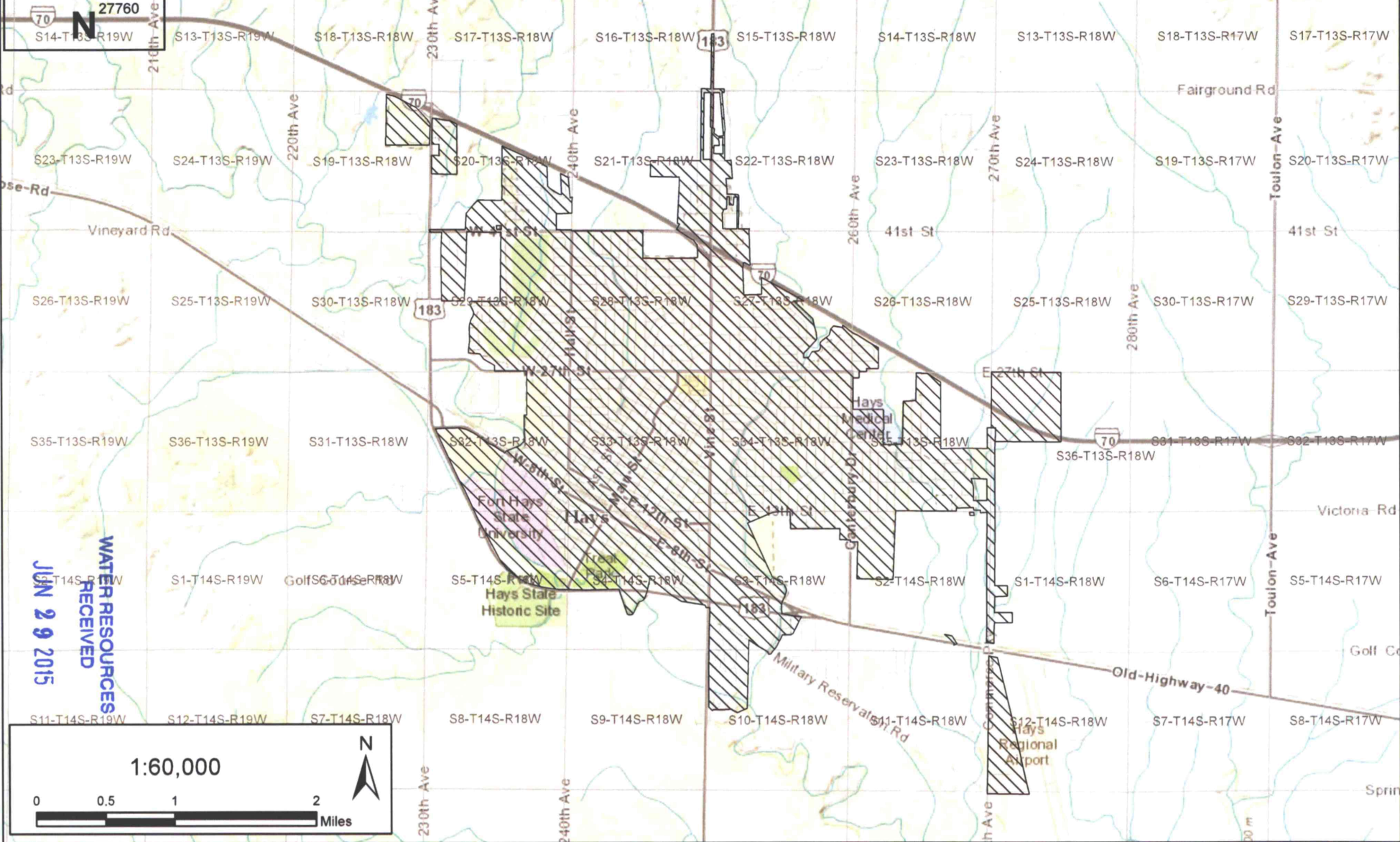
- Proposed Municipal Wells (A-N)
- Existing R9 Ranch Points of Diversion
- 1/2 Mile Buffer Around Proposed Wells
- PLSS Sections
- Area Excluded From Proposed Wells
- R9 Ranch Property Boundary
- Domestic Well (Non-Permitted)
- Stock Well (Non-Permitted)



SCANNED

EXHIBIT

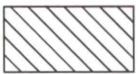
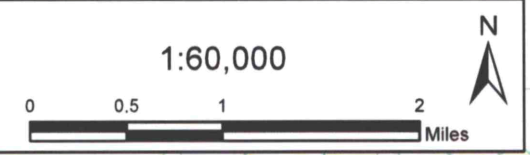
27760



KS DEPT OF AGRICULTURE

JUN 29 2015

WATER RESOURCES RECEIVED



Proposed Place of Use City of Hays



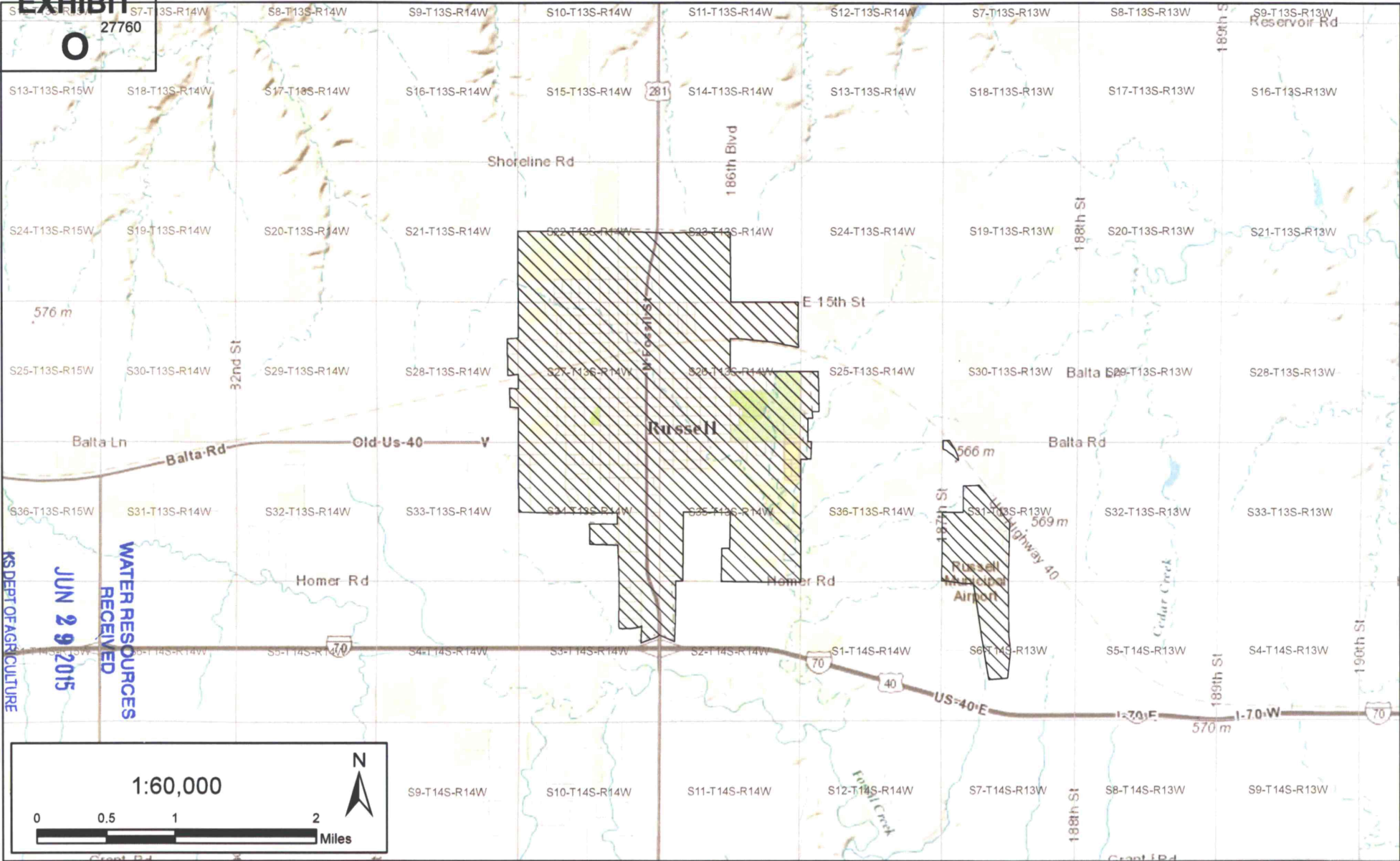
PLSS Sections



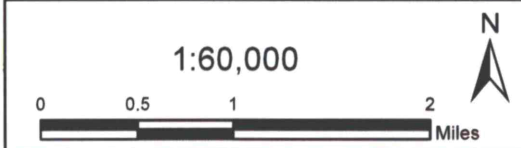
SCANNED

EXHIBIT

27760



KS DEPT OF AGRICULTURE
 JUN 29 2015
 WATER RESOURCES RECEIVED



Proposed Place of Use - City of Russell



PLSS Sections



SCANNED

27760
 Applicant's Name City Of Hays KS
 (Please Print)

**MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION
 SUPPLEMENTAL INFORMATION SHEET**

Application File Number

 (assigned by DWR)

**SECTION 1: PRESENT WATER USE SUMMARY (IF NO PREVIOUS MUNICIPAL WATER USE HAS BEEN UTILIZED, PROCEED TO SECTION 3)
 NOTE: WORKSHEET FOR WATER PUMPED, PURCHASED, AND SOLD BY YOUR WATER DISTRIBUTION SYSTEM.**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Below Explanation)
684,559,000			10,806,000	595,254,000	16,327,000	62,172,000
TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6			UNACCOUNTED FOR WATER	

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

- Column 1: The amount of raw water diverted from all of your points of diversion.
- Column 2: The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office.
- Column 3: The amount of water sold wholesale to all other public water supply systems.
- Column 4: The amount of water sold retail to all industrial, pasture, stockwater, feedlot, and bulk water service connections. Include the amount of water sold to all farmsteads using at least 200,000 gallons of water per year.
- Column 5: The amount of water sold retail to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year.
- Column 6: The amount of water used that is metered at individual service connections and supplied free, such as for public service, treatment processes, and connections receiving free water.
- Column 7: The amount of remaining water used. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6.

UNACCOUNTED FOR WATER

Use the following to calculate your distribution system's Unaccounted For Water:
 Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Columns 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

Use the following to calculate the percent Unaccounted For Water versus the Total Water of your system:

$$\text{Percent Unaccounted For Water} = \frac{\text{Unaccounted For Water}}{\text{Total Water (Columns 1,2)}} \times 100$$

 If this number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it.

**EXHIBIT
 P**

**SECTION 2: PAST WATER USE
 COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.**

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Above Explanation)
20 years ago	592,323,000			5,029,000	469,314,000	5,155,000	112,825,000
15 years ago	780,527,000			10,619,000	587,965,000	10,470,000	171,473,000
10 years ago	706,926,000			7,103,000	639,222,000	20,861,000	39,740,000
5 years ago	693,966,000			13,537,000	581,900,000	19,362,000	114,383,000
	TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6			UNACCOUNTED FOR WATER	

WATER RECORDS REVIEWED
 JUN 29 2015
 KS DEPT OF AGRICULTURE
 SCANNED

27760
SECTION 3: PROJECTED FUTURE WATER NEEDS

PLEASE COMPLETE THE FOLLOWING TABLE SHOWING YOUR FUTURE WATER REQUIREMENTS FOR THE NEXT 20 YEARS:

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Explanation on other side)
Year 5	753,014,900			11,886,600	654,779,400	17,959,700	68,389,200
Year 10	828,316,390			13,075,260	720,257,340	19,755,670	75,228,120
Year 15	911,148,029			14,382,786	792,283,074	21,731,237	82,750,932
Year 20	1,002,262,832			15,821,065	871,511,381	23,904,361	91,026,025
	TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

SECTION 4: POPULATION AND SERVICE CONNECTIONS

ESTIMATE THE NUMBER OF PERSONS DIRECTLY SERVED BY YOUR WATER DISTRIBUTION SYSTEM

**PAST POPULATION - PROVIDE INFORMATION BELOW:
 (CENSUS BUREAU INFORMATION)**

LAST 20 YEARS	POPULATION
20 years ago	17,636
15 years ago	18,750
10 years ago	20,013
5 years ago	20,106
Last Year	21,038

PROJECTED FUTURE POPULATION

ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS

NEXT 20 YEARS	POPULATION
Year 5	23,142
Year 10	25,456
Year 15	28,002
Year 20	30,802

Provide number of current active service connections:

6,824 Residential 2 Industrial _____ Other (specify) _____
 1,256 Commercial _____ Pasture/ Stockwater/ Feedlot 8,082 Total

**SECTION 5: PRESENT GALLONS PER PERSON PER DAY
 CALCULATE YOUR GALLONS PER PERSON PER DAY**

Water in Columns 5, 6, and 7 + Population + 365 Days/Year = Gallons per Person per Day

$$\frac{673,753,000}{21,038} \div 365 \text{ Days/Year} = 88 \text{ GALLONS PER PERSON PER DAY.}$$

SECTION 6: AREA TO BE SERVED

Describe the area to be served or provide the legal description of the location where the water is to be used including any other city of water supply system (i.e. Rural Water District): _____

City of Hays, KS Municipal Water Supply

2013 is year one and 2033 will be year twenty. 2 percent growth is used for estimate. Hays had a reasonable 9.1 percent unaccounted water in 2013.

You may attach additional information you believe will assist in informing the Division of the need for your request.

Applicant's Name City of Russell
(Please Print)

**MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION
SUPPLEMENTAL INFORMATION SHEET**

Application File Number _____
(assigned by DWR)

**SECTION 1: PRESENT WATER USE SUMMARY (IF NO PREVIOUS MUNICIPAL WATER USE HAS BEEN UTILIZED, PROCEED TO SECTION 3)
NOTE: WORKSHEET FOR WATER PUMPED, PURCHASED, AND SOLD BY YOUR WATER DISTRIBUTION SYSTEM.**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Below Explanation)
327,288,100	0	0	105,295,000	108,743,000	19,944,000	93,306,100
TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

- Column 1: The amount of raw water diverted from all of your points of diversion.
- Column 2: The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office.
- Column 3: The amount of water sold wholesale to all other public water supply systems.
- Column 4: The amount of water sold retail to all industrial, pasture, stockwater, feedlot, and bulk water service connections. Include the amount of water sold to all farmsteads using at least 200,000 gallons of water per year.
- Column 5: The amount of water sold retail to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year.
- Column 6: The amount of water used that is metered at individual service connections and supplied free, such as for public service, treatment processes, and connections receiving free water.
- Column 7: The amount of remaining water used. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6.

UNACCOUNTED FOR WATER

Use the following to calculate your distribution system's Unaccounted For Water:
Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Columns 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

Use the following to calculate the percent Unaccounted For Water versus the Total Water of your system:
Percent Unaccounted For Water = $\frac{\text{Unaccounted For Water}}{\text{Total Water (Columns 1,2)}} \times 100$
If this number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it.

EXHIBIT
Q

SECTION 2: PAST WATER USE
COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Above Explanation)
20 years ago							
15 years ago	373,757,000	0	0	171,928,220	115,864,670	18,687,850	67,276,260
10 years ago	477,486,000	0	0	222,781,000	147,340,000	19,483,000	87,882,000
5 years ago	375,790,000	0	0	144,277,000	123,343,000	18,907,000	89,263,000
	TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

KS DEPT OF AGRICULTURE

JUN 29 2015

WATER RESOURCES RECEIVED

SCANNED

27760
SECTION 3: PROJECTED FUTURE WATER NEEDS

PLEASE COMPLETE THE FOLLOWING TABLE SHOWING YOUR FUTURE WATER REQUIREMENTS FOR THE NEXT 20 YEARS:

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Explanation on other side)
Year 5	386,346,512	0	0	177,719,396	119,767,419	15,453,861	73,405,836
Year 10	405,513,682	0	0	186,536,377	125,709,241	16,220,547	77,047,517
Year 15	426,310,852	0	0	196,102,992	132,156,364	17,052,434	80,999,062
Year 20	443,848,022	0	0	204,170,090	137,592,887	17,753,921	84,331,124
TOTAL WATER = Columns 1 + 2			ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

SECTION 4: POPULATION AND SERVICE CONNECTIONS

ESTIMATE THE NUMBER OF PERSONS DIRECTLY SERVED BY YOUR WATER DISTRIBUTION SYSTEM

PAST POPULATION - PROVIDE INFORMATION BELOW:
(CENSUS BUREAU INFORMATION)

LAST 20 YEARS	POPULATION
20 years ago	
15 years ago	4,710
10 years ago	4,696
5 years ago	4,506
Last Year	4,475

PROJECTED FUTURE POPULATION

ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS

NEXT 20 YEARS	POPULATION
Year 5	4,596
Year 10	4,605
Year 15	4,651
Year 20	4,698

Provide number of current active service connections:

2,049 Residential 9 Industrial 30 Other (specify) Free Service
 360 Commercial 0 Pasture/ Stockwater/ Feedlot 2448 Total

SECTION 5: PRESENT GALLONS PER PERSON PER DAY

CALCULATE YOUR GALLONS PER PERSON PER DAY

Water in Columns 5, 6, and 7 + Population + 365 Days/Year = Gallons per Person per Day

$$\frac{221,991,000}{\text{Amount of water in Columns 5, 6, and 7 of Section 1}} \div \frac{4,475}{\text{Population from Last Year of Section 4}} \div 365 \text{ Days/Year} = 135.9 \text{ GALLONS PER PERSON PER DAY.}$$

SECTION 6: AREA TO BE SERVED

Describe the area to be served or provide the legal description of the location where the water is to be used including any other city of water supply system (i.e. Rural Water District): City of Russell
 Note that the actual quantity of "Unaccounted for Water" is lower than shown here. Large quantities diverted from the Pfeifer Wells are returned to the aquifer in the "Collector Well." See detailed explanation in the cover letter accompanying this application. Projected future water needs include losses in the collector well but when repaired or replaced, total raw water diversion will be reduced.

You may attach additional information you believe will assist in informing the Division of the ~~Page 62 of 62~~ Page 67 of 62 of your request.

KS DEPT OF AGRICULTURE
 JUN 29 2015
 WATER RESOURCES RECEIVED

SCANNED