

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**.

JUN 26 2015
4:20
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 the David W. Barfield, P.E.

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

~~JUN 28 2015
4:20
Chief Engineer
Division of Water Resources
Kansas Dept. of Agriculture~~

~~WATER RESOURCES
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JUN 29 2015
8:23
KS DEPT OF AGRICULTURE~~

File No. 22,340 Circle 31.

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. 2 GMD 5 Meets K.A.R. 5-5-1 (YES) / NO Use IRR Source (C) / S County ED By KAB Date 6/29/15
Code C-3 Fee \$ 700 TR # _____ Receipt Date 6/22/15 Check # 058328

of 21000- 15053309

SCANNED

6/30/2015 UCM

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					
10-T26S-R20W																			14	10	30	39	93
11-T26S-R20W																							1
15-T26S-R20W			9	5																			14

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

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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 NW Quarter of the SE Quarter of the SE Quarter of Section 10, Township 26 South, Range 20 (E/W), in Edwards County, Kansas, 690 feet North 1,136 feet West of Southeast corner of section. Authorized Rate 950 gpm Authorized Quantity 162 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 NE Quarter of Section 15, Township 26 South, Range 20 (E/W), in Edwards County, Kansas, 4,367 feet North 1,228 feet West of Southeast corner of section. Proposed Rate 950 gpm Proposed Quantity 140.4 a/f
 This point is: Additional Well Geo Center List other water rights that will use this point 22,341-42; 30,083

9. **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 _____

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.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

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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.

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.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

WATER RESOURCES RECEIVED

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.

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KS DEPT OF AGRICULTURE

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 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.

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Proposed Rate and Quantity

The Cities are requesting a total of 140.4 acre-feet and 950 gpm from the well associated with this water right, all of which will be diverted from new point of diversion M, as shown on Exhibit I. When combined with existing wells from other water rights, new point of diversion M will have a cumulative total of 475.5 acre-feet and 3,500 gpm.

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

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 116.64 acre-feet to municipal use.¹ 108 approved acres irrigated during the perfection multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 116.64 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 March 19, 1976, granting the applicant the right to divert up to 195 acre-feet annually at a rate not to exceed 1,000 gallons per minute for irrigation use⁴ on 108 acres in Sections 10, 11, and 15-T20S-R26W.⁵ The certificate further limited the rate to 950 gallons per minute.

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

The Field Inspection Report indicates that all of the 195 acre-feet authorized by the permit were lawfully perfected.

- 305 acre-feet were applied to 108 approved acres in Sections 10, 11, and 15-T26S-R20W.⁷

While the certificate limits the total quantity to 162 acre-feet based on DWR’s after-the-fact determination that 1.5 acre-feet per acre was a reasonable quantity for irrigation use, DWR did not have jurisdiction to make this reduction.⁸

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, HAYS003417, Ex. A.

⁵ Application, HAYS003404, Ex. B.

⁶ March 19, 1976, letter (emphasis added), HAYS003416, Ex. C.

⁷ FIR, HAYS003396, Ex. D.

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Since the perfection period has expired, the “authorized quantity” for this water right is the 195 acre-feet actually perfected even though it exceeds the certified quantity.

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.⁹ 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 195 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 140.40 acre-feet, should be available for conversion to municipal use. This is less than the 195 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 140.40 acre-feet for municipal use.

⁸ Certificate, HAYS003425, Ex. E; Larry Sheets Memo dated March 25, 1987, HAYS003420, Ex. F; and *Clawson v. Kansas Dept. of Agriculture, Div. of Water Resources*, 49 Kan. App. 2d 789, 315 P.3d 896 (2013).

⁹ Administrative Policy No. 86-8, dated Nov. 5, 1986, Ex. G, 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 and Larry Sheets Memo dated March 25, 1987, HAYS003420, Ex. F.

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THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE
Roy Freeland, 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. 22,340 of the applicant

Midwest Land and Cattle Co.
Box 208
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 May 2, 1974.
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 ground water in the drainage basin of the Arkansas River to be withdrawn by means of one (1) well in the North-west Quarter of the Southeast Quarter of the Southeast Quarter (NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 10, Township 26 South, Range 20 West, in Edwards County, Kansas, located substantially as shown on the aerial photograph accompanying the application.

4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of 1000 gallons per minute (2.23 c.f.s.) and to a quantity of not to exceed 195 acre-feet

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KS DEPT OF AGRICULTURE

MICROFILMED
for any calendar year

RECEIVED

(OVER)

MAR 29 1976

SCANNED

HAYS003417

FIELD OFFICE
DIVISION OF WATER RESOURCES
STAFFORD

5. That installation of works for diversion of water shall be completed on or before December 31, 19 77. 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 81.

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.

Dated this 19th day of March

1976

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

HAYS003418

2

THE STATE OF KANSAS



STATE BOARD OF AGRICULTURE
Roy Freeland, Secretary

DIVISION OF WATER RESOURCES
Guy E. Gibson, Chief Engineer

Rec'd check \$50.00 5/2/74

22,340

831

NUMBER 21

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

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

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

(Mr.)
(Mrs.)
Comes now the applicant (Miss) Midwest Land and Cattle Co. whose post office address is Box 208 Kinsley, Kansas 67547

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 groundwater (surface water or groundwater) as may be available in the Arkansas River basin in the county of Edwards 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 ~~XXXXXXX~~ ¹⁹⁵ ~~320~~ acre feet per year, to be diverted at a maximum rate of 1000 gallons per minute (gallons per minute or cubic feet per second)

2. The location of the proposed wells or other works for diversion of water is in the NW quarter of the SE quarter of the SE quarter of section 10, township South Brown 26, range 3620 W, in Edwards County, Kansas.

3. The water is intended to be appropriated for:

	Amount	
(a) Domestic use	()	_____
(b) Municipal use	()	_____
(c) Irrigation use	(X)	¹⁹⁵ 320 <u>acre ft./yr.</u> - 1000 gals./min.
(d) Industrial use	()	_____
(e) Recreational use	()	_____
(f) Water Power use	()	_____

(check intended uses and show intended quantity for each use)

RECEIVED MAY 02 1974 9:20 a.m. DIVISION OF WATER RESOURCES STATE BOARD OF AGRICULTURE

RECEIVED MAY 09 1975 DIVISION OF WATER RESOURCES STATE BOARD OF AGRICULTURE

RECEIVED OCT 15 1975 DIVISION OF WATER RESOURCES STATE BOARD OF AGRICULTURE

RECEIVED FEB 26 1976 DIVISION OF WATER RESOURCES STATE BOARD OF AGRICULTURE

MICROFILMED

RECEIVED JUN 29 2015

RECEIVED MAR 29 1975 HAYS003403

FIELD OFFICE DIVISION OF WATER RESOURCES STAFFORD

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JUN 29 2015
KS DEPT OF AGRICULTURE

SCANNED

4. If for municipal use, attach tables or curves showing past, present and estimated future population and water requirements of the city.

5. If for industrial use, attach tables or curves showing past, present and estimated future water requirements.

6. If for irrigation use list below or attach name and address of each landowner and the legal description of the lands to be irrigated by designating the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Owner of Land—NAME: Midwest Land & BATTLE Co.

ADDRESS: P.O. Box 208 Kinsley, Kansas 67547

Sec. Twp. Range	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Total
	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
10 26 20													14	10	30	37	93
10 26 20													40	40	40	40	160
14 26 20									1								1
15 26 20	9	5															14
																	108

Owner of Land—NAME: _____

ADDRESS: _____

Sec. Twp. Range	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Total
	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	

Owner of Land—NAME: _____

ADDRESS: _____

Sec. Twp. Range	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Total
	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	

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HAYS003404

7. The works for diversion of water will consist of one well with one pump for one circle sprink-
irrigation system (one motor)
(wells, pumps, etc.)
and will be completed by July of 1974
(Date)

8. The first actual application of water for the beneficial use proposed was or is estimated to be
July of 1974
(Date)

9. The application must 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 should 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 and describe other applications filed or vested rights held by applicant:

Irrigation wells and land is in the process of being bought from a
company known as the Kinsley Joint Venture (Wheatheart Land Co.)
Applications for water rights have been filed

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

Dated at Kinsley, Kansas, this 22 day of April, 1974

Midwest Land & Cattle Co.

(Applicant)

By Johnny Carson MGR
(Agent or Officer)

Note:

- 1 cubic foot per second = 448.8 gallons per minute = 646,317 gallons per day = 1.98 acre feet per day.
- 1 million gallons per day = 1.547 cubic feet per second = 3.07 acre feet per day.
- 1 acre foot = 43,560 cubic feet = 325,851 gallons.

M1-839



8-72-10M 8ETS

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MAR 29 1976

HAYS003405

22340

CD

S.E. corner
of Section 10

No. 31
Application 22340
All wells within 1/2 mile
belong to Applicant

7
36

R-20 W



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HAYS003406 KS DEPT OF AGRICULTURE

SCANNED

E-N²

March 19, 1976

Midwest Land and Cattle Co.
Box 208
Kinsley, Kansas 67547

ATTENTION: Mr. Johnny Carson, Manager

Re: Appropriation of Water
Application No. 22,340

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

RMD:GEE:eel

Encs.

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MAR 29 1976

FIELD OFFICE
DIVISION OF WATER RESOURCES
STAFFORD

HAYS003416
MICROFILMED

SCANNED

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

- Partial
- Full
- Re-Test

Test 1 of 1 Diversion points
 Firm/Field Office Pumping Plant Testing
 Application No. 22340 Date 11/19/86 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 (X)
 4. Municipal () 5. Recreation () 6. Stockwatering () 7. Water Power ()
 Groundwater Drainage Basin Arkansas River
 Surface Water () Stream _____
 Authorized Point of Diversion: Well NW 1/4, SE 1/4, SE 1/4 Sec. 10, T. 26, R. 20
 Approximately _____ ft. North and _____ ft. West of SE corner of Sec. _____
 Actual Point of Diversion: Well NW 1/4, SE 1/4, SE 1/4 Sec. 10, T. 26, R. 20
 Approximately 690 ft. North and 1136 ft. West of SE corner of Sec. 10
 How were distances determined? Scaled from BSCS photo
 "Approved" Quantity 195 AF "Approved" Diversion Rate 1000 g.p.m. (2.23 c.f.s.)
 Priority Date May 2, 1974 Approval of Application Date March 19, 1976
 Perfection Date Dec. 31, 1981

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			
10	26	20															14	10	30	39	93
11	26	20																			1
15	26	20	9	5																	14
																				<u>108</u>	

LAND IRRIGATED—YEAR OF RECORD 1984 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			
10	26	20															16	8	29	40	93
11	26	20																			1
15	26	20	12	5																	17
																				<u>111</u>	

APPLICATION OF WATER: SEE ATTACHED SHEET
 Year of Record 1984 Hours Pumped RECEIVED or Quantity 305 AF

Normal Operating G.P.M. 947 Equiv. c.f.s. 2.11

Maximum Operating G.P.M. _____ Equiv. c.f.s. _____

DIVISION FOR D.W.R. USE ONLY

Year of Record 1984 Extension of time requested: Yes No _____

Total No. of Hours on land covered by this application 1750

Ac. Ft. Applied = $1750 \text{ hrs.} \times 947 \text{ g.p.m.} \times \frac{4.419}{24 \times 1000} = 305 \text{ AF}$

Acres of "Approved" Land irrigated 108 (2.83 ac ft per acre)

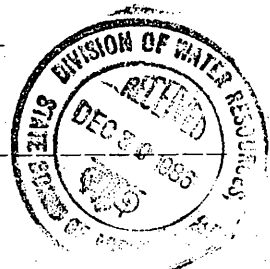
Ac. Ft. on "Approved" Land _____ (_____ Ac. Ft./Ac.)

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

Proration Calculations 108 x 1.5 = 162

Perfected Rate 950 ^{2.12 cfs} g.p.m. Perfected Quantity 162 AF

DWR-101 22340 Completed by Larry M Sheets 3-25-87



WATER RESOURCES RECEIVED

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HAYS 003396

GENERAL INFORMATION ON IRRIGATION SYSTEM:

Center Pivot High Pressure Low Pressure

Manufacturer Zimmatic Model no tag Serial No. _____

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. Nelson 100

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. 428 HP —

Serial No. — Fuel Propane Rated RPM —

PUMP INFORMATION:

Manufacturer Fairbanks Morse Model No. 12MC Rated RPM _____

Serial No. N2W24424X Type Vertical Turbine No. stages 3

GEAR HEAD INFORMATION:

Manufacturer Randolph Model No. F80

Serial No. 82398 Drive Right Angle Ratio 6:5

WELL INFORMATION:

Date Drilled 8/29/74 Original Depth 61 ft. Static Water Level When Drilled 5 ft.

Tape Down Possible? yes 9' Water Level Measurement Tube? no

Measuring Point 1 ft. above ~~center~~ 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? yes

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

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

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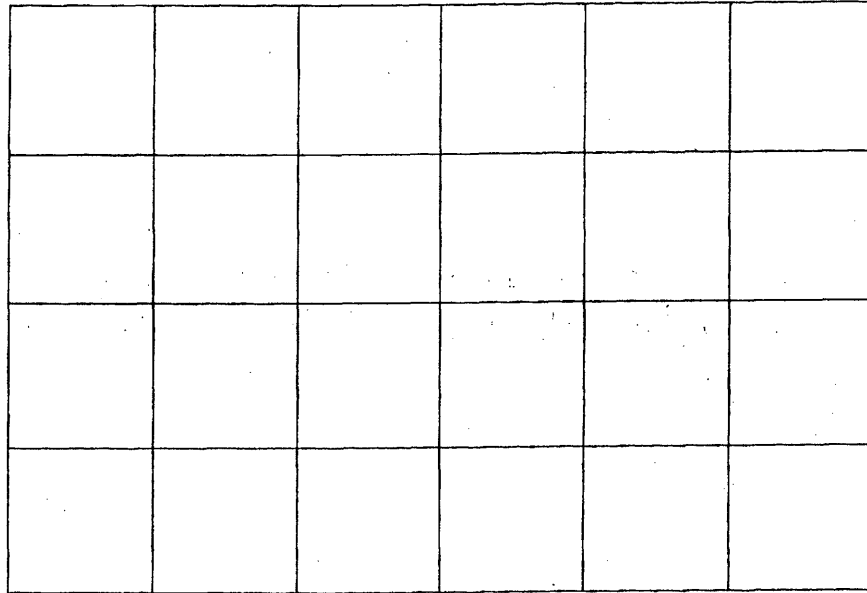
KS DEPT OF AGRICULTURE

HAYS003397

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 vertical pipe inside pivot stand
Pipe Diameter (I.D.) 7 3/4 inches

Test No. 1—Normal Conditions

R.P.M. POWER UNIT 1860
R.P.M. PUMP UNIT 1550
Pressure at Pump 58 psi

Test No. 2—Maximum Conditions

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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HAYS003398

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 = $\frac{\text{kw-hr}}{\text{rate}}$ = _____

Other Fuels Type propane Supplier Mid-Continent
 Rate = $\frac{\text{Volume (test)}}{\text{time}}$ = _____
 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
1975	1740	1000		125
1976				
1977	794	1000		130
1978				
1979				
1980				
1981				
1982				
1983	PIK			
* 1984	1750*	947*		111*
1985	1600*	950		111*
1986				

AC 24890
 NW SE SE
 26 20W
 10 03

* from WUR sent to us from Jerry Weaver of Agri Affiliates
 * from test on 11/19/86

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

REMARKS: Engine was not running as well as owner's representative wanted. Pump RPM was only 1550 during test, with pivot panel volts at 450. Normal speed of pump's engine gives volts up to 500 in pivot panel box.

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 JUN 29 2015

Person present at test Steve Chadd employee of tenant
 Water Use Correspondent Agri Affiliates Inc. Box 1162 North Platte, NE 69103 308-534-9240
 Conducted by Breg Ebert Date 11/21/86
 Approved by lidj W.A. P.E. Date 12/26/86

KS DEPT OF AGRICULTURE

HAYS003399

APPLICATION NO: 22340 NAME: Connecticut General Life Ins.

COLLINS METER TEST

Collins Meter No. 185 Meter Calibration Factor .9826

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

Test Pressure (psi) 58 Test RPM, Pump 1550

Description of Test Location In Vertical pipe inside pivot stand

TEST DATA: Check, Initial 7.34 Reversed 7.36

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>1 9/16</u>	<u>7.26</u>	<u>7.18</u>	<u>6.94</u>	<u>6.84</u>
<u>2 3/4</u>	<u>6.73</u>	<u>6.95</u>	<u>6.59</u>	<u>6.70</u>
<u>3 9/16</u>	<u>5.99</u>	<u>6.06</u>	<u>6.00</u>	<u>6.26</u>

Average Velocity of Water = Sum of Vel. ÷ 12 = 6.625

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 6.625 x .9826 = 6.51

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 6.51 x 145.4 = 947 GPM



PUMPING PLANT TESTING, INC.
RECEIVED
 Reviewed By: [Signature]
 JUN 01 1987 Professional Engineer

WATER RESOURCES RECEIVED
 HAYS003400
 DIVISION OF WATER RESOURCES
 MICROFILMED

JUN 29 2015

SCANNED

APPLICATION NO: 22,340

NAME: CONNECTICUT GENERAL LIFE
INSURANCE CO, INC.

NOTES ON CHOOSING A YEAR OF RECORD

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

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JUN 01 1987

Reviewed by:

W. J. W.
Professional Engineer

HAYS003401

MICROFILMED

FIELD OFFICE
DIVISION OF WATER RESOURCES
STATE OF CONNECTICUT



22340

10-26-20

JUN 1 1997

11-26-20

2620

Application no. 22340

Legend

- /// Land on original application
- /// Land covered by this application
- W Well

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KS DEPT OF AGRICULTURE

HAYS003402

THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE
Sam Brownback, Secretary

DIVISION OF WATER RESOURCES
David L. Pope, Chief Engineer

**CERTIFICATE OF APPROPRIATION
FOR BENEFICIAL USE OF WATER**

WATER RIGHT, File No. 22,340
PRIORITY DATE May 2, 1974

WHEREAS, It has been determined by the undersigned that construction of the appropriation diversion works has been completed, that water has been used for beneficial purposes and that the appropriation right has been perfected, all in conformity with the conditions of approval of the application pursuant to the water right referred to above and in conformity with the laws of the State of Kansas,

NOW, THEREFORE, Be It Known that DAVID L. POPE, the duly appointed, qualified and acting Chief Engineer of the Division of Water Resources of the Kansas State Board of Agriculture, by authority of the laws of the State of Kansas, and particularly K.S.A. 82a-714, does hereby certify that, subject to vested rights and prior appropriation rights, the appropriator is entitled to make use of groundwater in the drainage basin of the Arkansas River to be withdrawn by means of a well located in the Northwest Quarter of the Southeast Quarter of the Southeast Quarter (NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 10, more particularly described as being near a point 690 feet North and 1,136 feet West of the Southeast corner of said section, in Township 26 South, Range 20 West, Edwards County, Kansas, at a diversion rate not in excess of 950 gallons per minute (2.12 c.f.s.) and in a quantity not to exceed 162 acre-feet per calendar year for irrigation use on the following described property:

14 acres in the Northeast Quarter of the Southeast Quarter (NE $\frac{1}{4}$ SE $\frac{1}{4}$),
10 acres in the Northwest Quarter of the Southeast Quarter (NW $\frac{1}{4}$ SE $\frac{1}{4}$),
30 acres in the Southwest Quarter of the Southeast Quarter (SW $\frac{1}{4}$ SE $\frac{1}{4}$),
39 acres in the Southeast Quarter of the Southeast Quarter (SE $\frac{1}{4}$ SE $\frac{1}{4}$),
a total of 93 acres in Section 10,

1 acre in the Southwest Quarter of the Southwest Quarter (SW $\frac{1}{4}$ SW $\frac{1}{4}$)
of Section 11,

9 acres in the Northeast Quarter of the Northeast Quarter (NE $\frac{1}{4}$ NE $\frac{1}{4}$),
5 acres in the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ NE $\frac{1}{4}$),
a total of 14 acres in Section 15,

all in Township 26 South, Range 20 West,
Edwards County, Kansas.

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DIVISION OF WATER RESOURCES
STATE OF KANSAS

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HAYS003425

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The appropriator shall maintain in an operating condition, satisfactory to the Chief Engineer, all check valves installed for preventing chemical or other foreign substance pollution of the water supply.

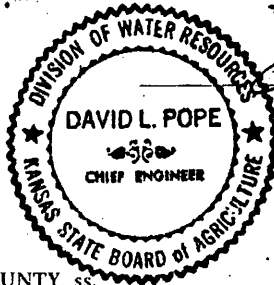
The appropriator shall maintain records from which the quantity of water actually diverted during each calendar year may be readily determined. Such records shall be furnished to the Chief Engineer within 30 days of receipt of the annual water use report form.

The appropriation right as perfected is appurtenant to and severable from the land herein described.

The appropriation right shall be deemed abandoned and shall terminate when without due and sufficient cause no lawful beneficial use is made of water under this appropriation for three (3) successive years.

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 stream flow at the appropriator's point of diversion.

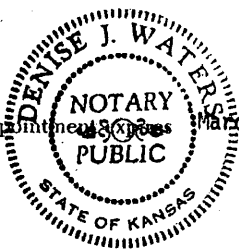
IN WITNESS WHEREOF, I have hereunto set my hand at my office at Topeka, Kansas, this 21st day of May, 1987.



David L. Pope
David L. Pope, P.E.
Chief Engineer
Division of Water Resources
Kansas State Board of Agriculture

STATE OF KANSAS, Shawnee COUNTY, ss.

The foregoing instrument was acknowledged before me this 21st day of May, 1987, by David L. Pope, P.E., Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture.



Signature: *Denise J. Waters*
Denise J. Waters, Notary Public

My appointment expires March 1, 1990

(Record in the Office of Register of Deeds in the county or counties wherein the point of diversion is located)

22340

**WATER APPROPRIATION
CERTIFICATE**

No. 15,945

STATE OF KANSAS

Water Right, File No. 22,340

Page 24 of 36

STATE OF KANSAS, _____ COUNTY, ss.
Filed for record this _____ day of _____, 19____
at _____ o'clock _____ m. and _____
recorded in Book _____ Page _____
Fee \$ _____

Register of Deeds.

HAYS003426

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KANSAS DEPT OF AGRICULTURE

SCANNED

KANSAS STATE BOARD OF AGRICULTURE
Division of Water Resources

MEMORANDUM

TO: Files

DATE: March 25, 1987

FROM: Larry M. Sheets

RE: Appropriation of Water
File No. 22,340

The Field Inspection Report for the above referenced file, conducted under contract by Pumping Plant Testing, has been reviewed. It meets the requirements specified in the scope of work. Based on the 1984 Water Use Report, 1,750 hours of pumping the well in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 10, T 26 S, R 20 W, Edwards County, Kansas, provided 305 acre-feet of water for irrigating 111 acres or 2.74 acre-feet per acre.

It appears that four acres of unapproved land were irrigated, and more than a reasonable amount on a per acre basis was provided. A paragraph was added to the transmittal letter for the draft certificate to indicate unapproved acres were being irrigated.

The Certificate of Appropriation has been drafted for the tested pumping rate rounded up to 950 g.p.m. and a reasonable quantity for the approved acres irrigated ($108 \times 1.5 = 162$).

Larry M. Sheets

Larry M. Sheets
Hydrologist

LMS:rk

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JUN 29 2015

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6/1/87

MICROFILMED
KAYS003420

Kansas State Board of Agriculture
Division of Water Resources

ADMINISTRATIVE POLICY
No. 86-8

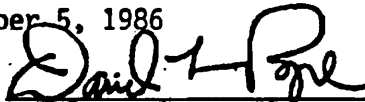
Subject: Allowable Rates of Diversion and Maximum Annual Quantities for Irrigation Use - Permits and Approvals

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
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.	
	<u>1,244</u> (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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JUN 29 2015

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.

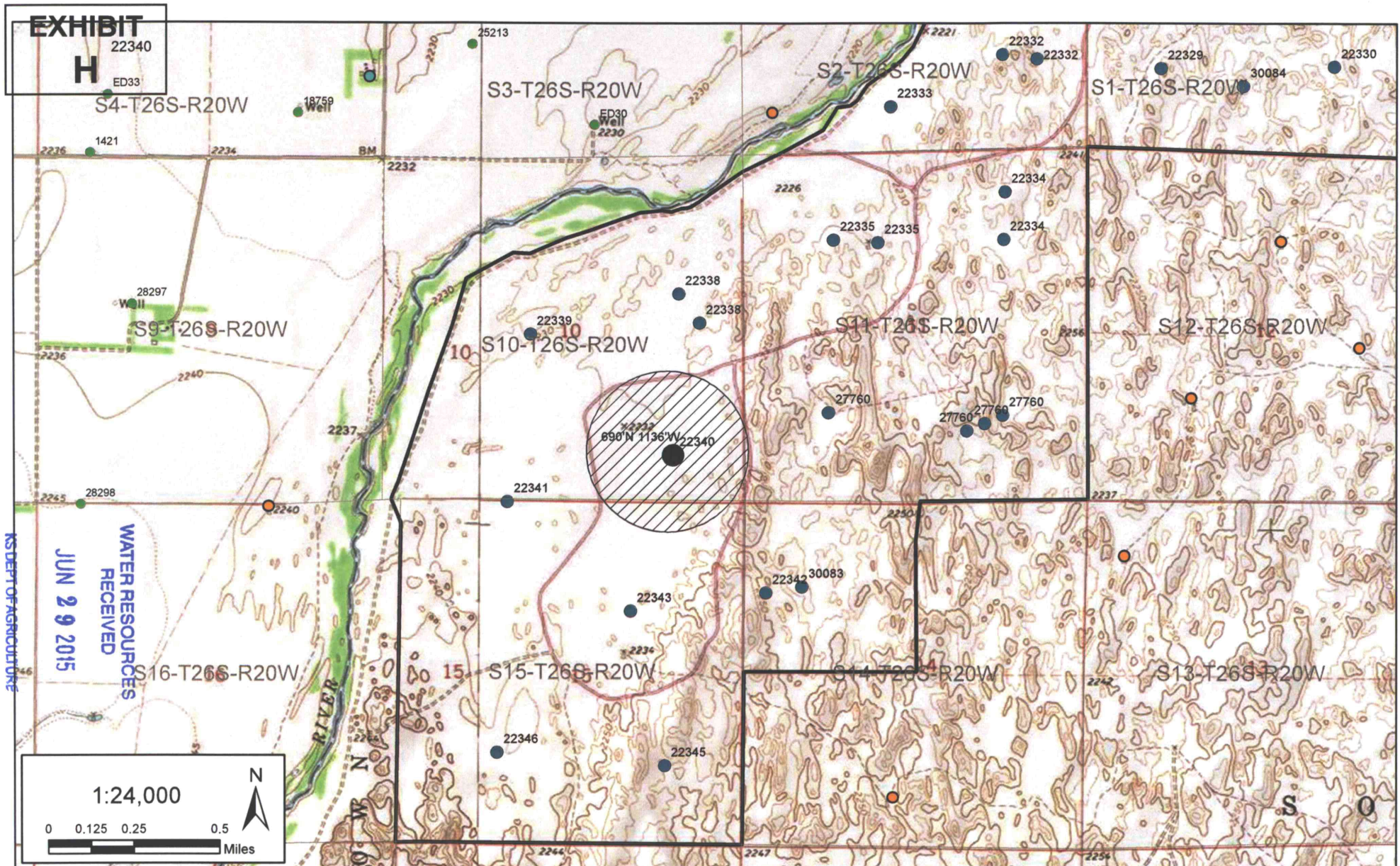
That if an applicant can show that his or her system design is reasonable for the use intended and approval of the proposed rate and/or maximum annual quantity will not impair any senior water right or prejudicially and unreasonably affect the public interest, the Chief Engineer may waive the above guidelines.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

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EXHIBIT

H



ILLINOIS DEPARTMENT OF AGRICULTURE
 WATER RESOURCES
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 JUN 29 2015

Legend

- 22340 Existing Point(s) of Diversion
- ▨ 22340 Existing Place of Use
- ▭ R9 Ranch Property Boundary
- PLSS Sections 22340
- Irrigation Wells (File No.)
- Stockwater Wells (File No.)
- Domestic Well (Non-Permitted)
- Stock Well (Non-Permitted)
- Existing R9 Ranch Irrigation Wells

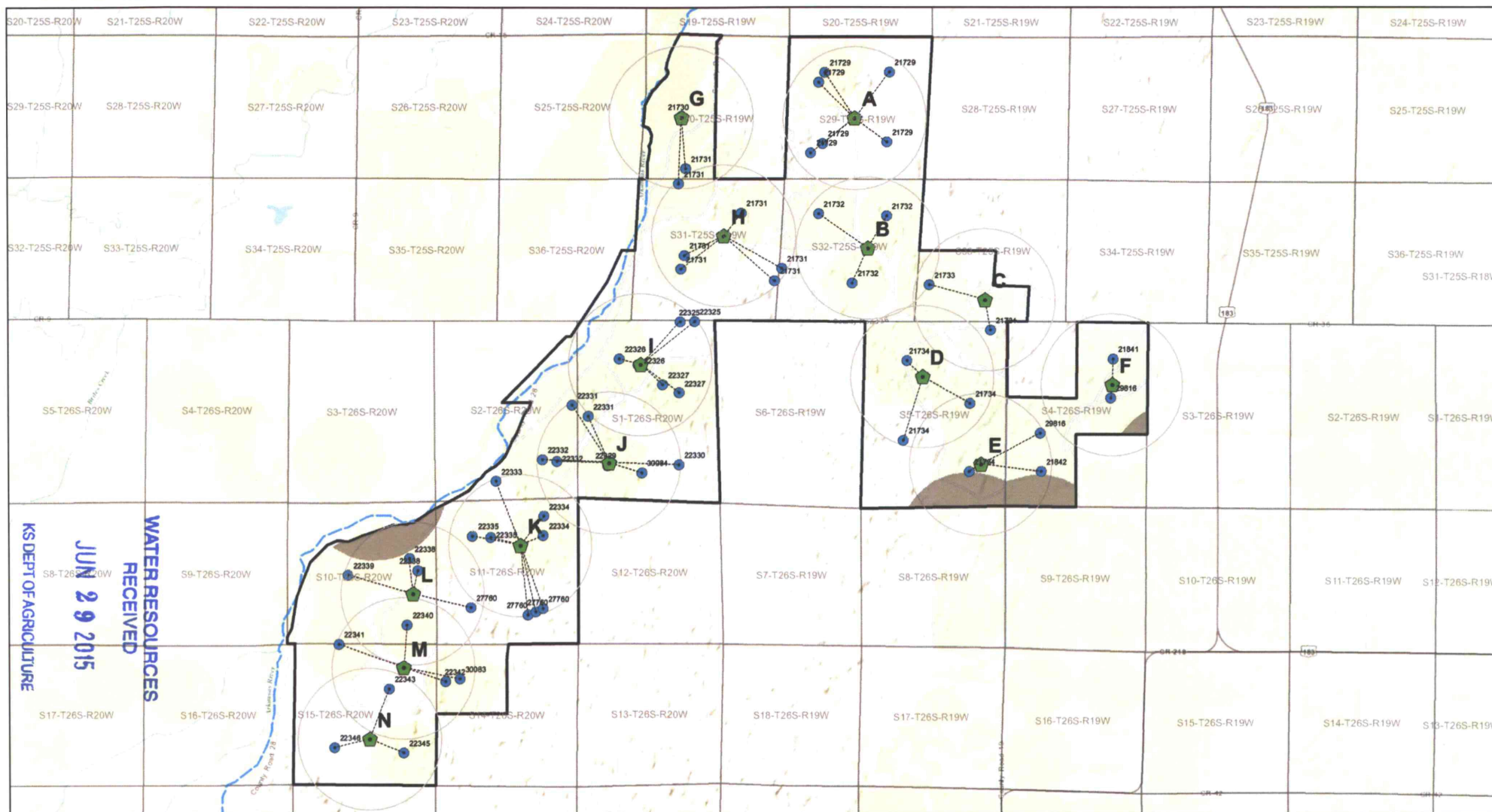


CHANGE APPLICATION 22340
APPLICATION MAP
AUTHORIZED PLACE OF USE &
POINTS OF DIVERSION

SCANNED

EXHIBIT

22340

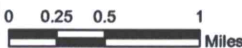


KS DEPT OF AGRICULTURE
 JUN 29 2015
 WATER RESOURCES RECEIVED

Legend

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

1:40,000

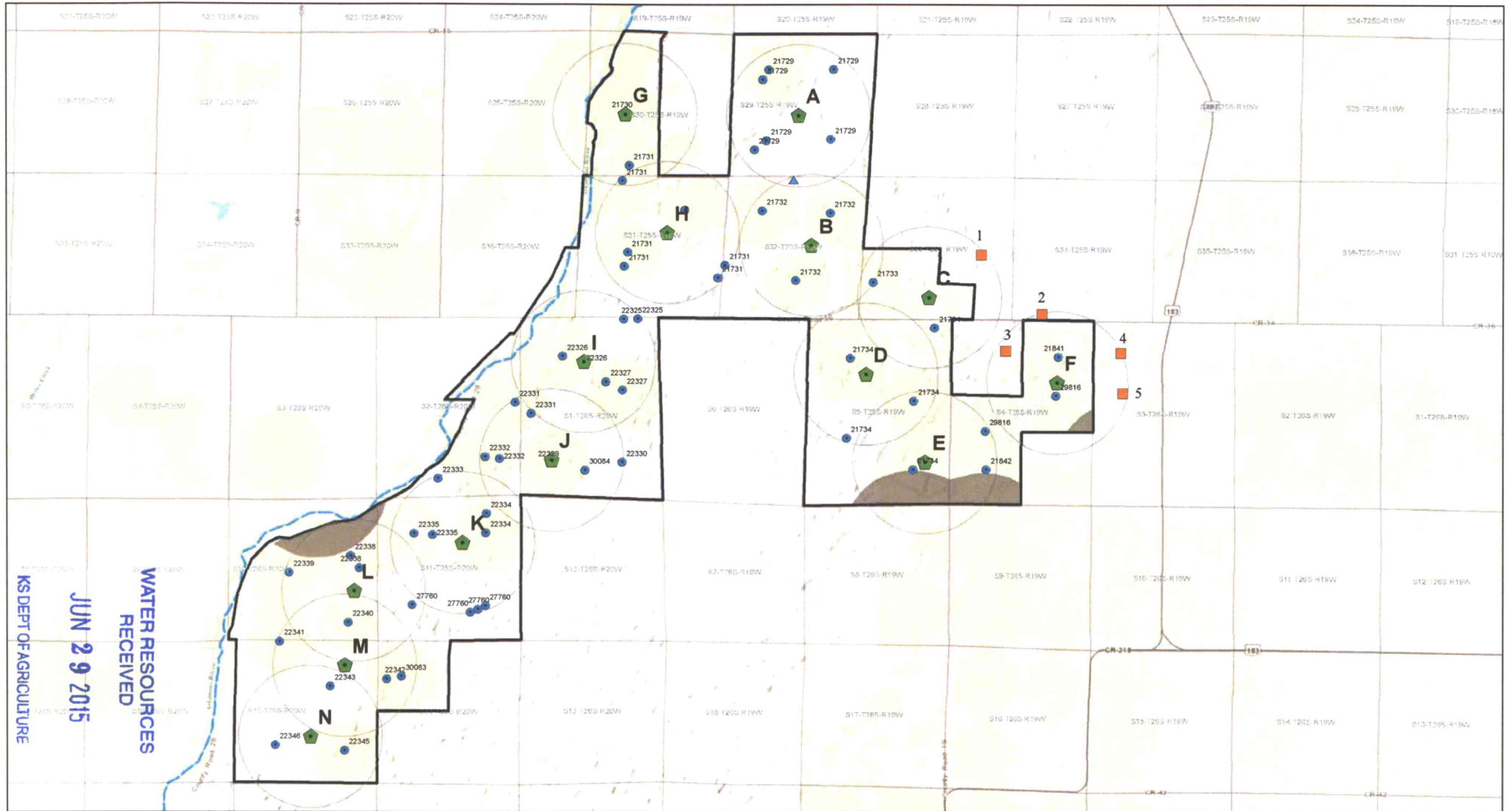


**BURNS
MCDONNELL**

SCANNED

EXHIBIT

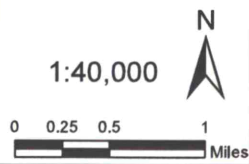
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Legend

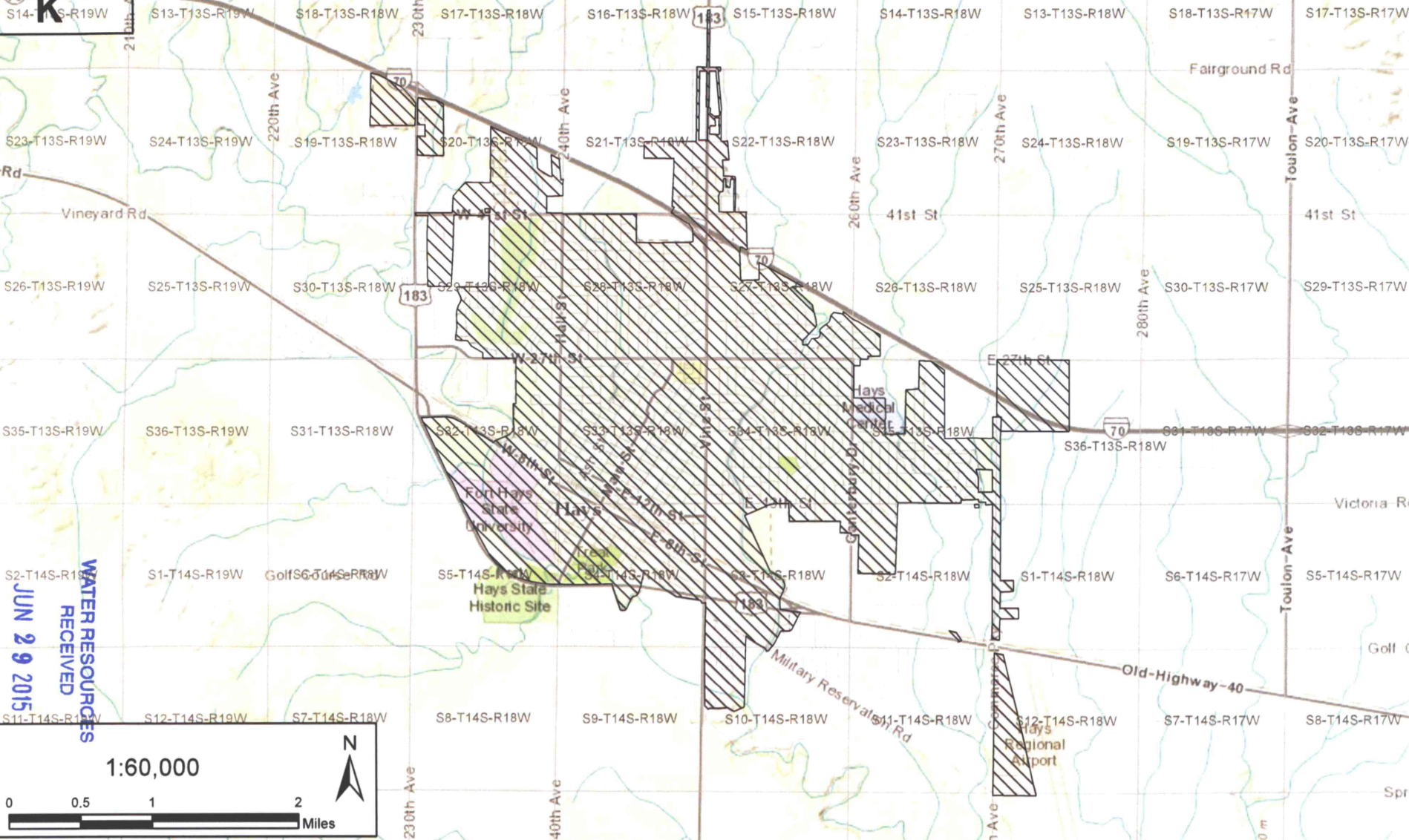
- Proposed Municipal Wells (A-N)
- Existing R9 Ranch Points of Diversion
- 1/2 Mile Buffer Around Proposed Wells
- PLSS Sections
- Area Excluded From Proposed Wells
- R9 Ranch Property Boundary
- ▲ Domestic Well (Non-Permitted)
- Stock Well (Non-Permitted)



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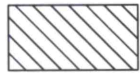
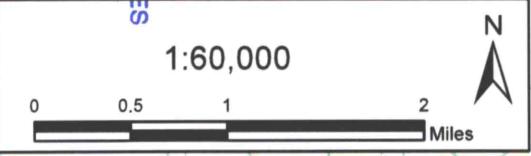
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Proposed Place of Use City of Hays



PLSS Sections

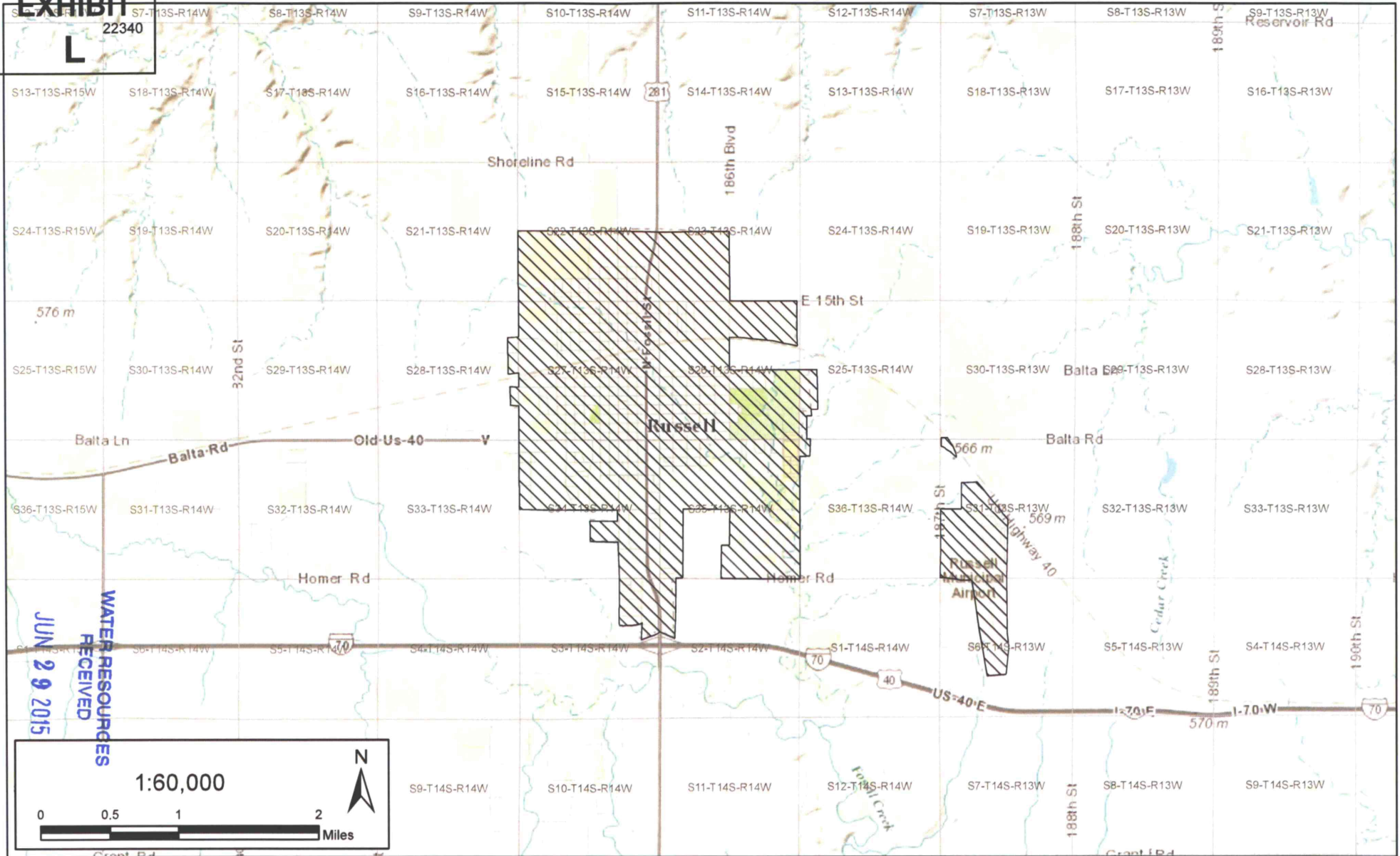


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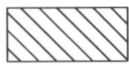
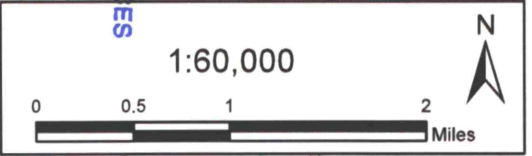
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Proposed Place of Use - City of Russell



PLSS Sections



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

**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
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**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

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SECTION 3: PROJECTED FUTURE WATER NEEDS

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

	Column 1 Raw Water Diverted Under Your Rights	Column 2 Water Purchased From All Sources	Column 3 Water Sold to Other Public Water Suppliers	Column 4 Water Sold to Your Industrial, Stock, and Bulk Customers	Column 5 Water Sold to Your Residential and Commercial Customers	Column 6 Other Metered Water	Column 7 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	91,028,025
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

$$\frac{673,753,000}{\text{Amount of water in Columns 5, 6, and 7 of Section 1}} \div \frac{21,038}{\text{Population from Last Year of Section 4}} \div 365 \text{ Days/Year} = \underline{88} \text{ GALLONS PER PERSON PER DAY.}$$

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.

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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 86 of 96 of your request.