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

   File No. 22325 Circle 19.

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. M.D. 5 Meets K.A.R. 5-5-1 (YES/NO) Use IRR Source S County ED By KAB Date 06/29/15
Code 6-3 Fee $100 TR # Receipt Date 07/22/15 Check # 068337

DWR 1-120 (Revised 06/16/2014) 22325
Page 1 of 54

Assisted by: 6/30/2015 UM
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

<table>
<thead>
<tr>
<th>Sec. Twp. Range</th>
<th>NE⁴</th>
<th>NW⁴</th>
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<td>Lot 4</td>
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<td>Lot 28.5</td>
<td>Lot 30.5</td>
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<tr>
<td>1-T26S-R20W</td>
<td>Lot 26.5</td>
<td>Lot 41</td>
<td>Lot 3</td>
<td>3.5</td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sec. Twp. Range</th>
<th>NE⁴</th>
<th>NW⁴</th>
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<td>Same as above</td>
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</table>

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

<table>
<thead>
<tr>
<th>Sec. Twp. Range</th>
<th>NE⁴</th>
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<tbody>
<tr>
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<td></td>
<td>The City of Hays, Kansas and its immediate vicinity and other locations as more fully described in paragraph 5 of the cover letter.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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<th>Sec. Twp. Range</th>
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<td>The City of Russell, Kansas and its immediate vicinity and other locations as more fully described in paragraph 5 of the cover letter.</td>
<td></td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Presently authorized point of diversion:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot 1 Quarter of the SW Quarter</td>
</tr>
<tr>
<td>of Section 1, Township 26 South, Range 20</td>
</tr>
<tr>
<td>in Edwards County, Kansas, 6,669 feet North 996 feet West of Southeast corner of section.</td>
</tr>
<tr>
<td>Authorized Rate 530 gpm Authorized Quantity 78 a/f</td>
</tr>
<tr>
<td>DWR use only: Computer ID No. GPS feet North feet West</td>
</tr>
<tr>
<td>□ This point will not be changed □ This point will be changed as follows:</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Proposed point of diversion: (Complete only if change is requested)</th>
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<tbody>
<tr>
<td>Lot 1 Quarter of the NE Quarter</td>
</tr>
<tr>
<td>of Section 1, Township 26 South, Range 20</td>
</tr>
<tr>
<td>in Edwards County, Kansas, 5,034 feet North 2,790 feet West of Southeast corner of section.</td>
</tr>
<tr>
<td>Proposed Rate 1,000 gpm Proposed Quantity 215.97 a/f</td>
</tr>
<tr>
<td>This point is: □ Additional Well □ Geo Center List other water rights that will use this point 22,326-27</td>
</tr>
</tbody>
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<th>Presently authorized point of diversion:</th>
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<tbody>
<tr>
<td>Lot 2 Quarter of the SW Quarter</td>
</tr>
<tr>
<td>of Section 1, Township 26 South, Range 20</td>
</tr>
<tr>
<td>in Edwards County, Kansas, 6,673 feet North 1,535 feet West of Southeast corner of section.</td>
</tr>
<tr>
<td>Authorized Rate 805 gpm Authorized Quantity 108 a/f</td>
</tr>
<tr>
<td>DWR use only: Computer ID No. GPS feet North feet West</td>
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<tr>
<td>□ This point will not be changed □ This point will be changed as follows:</td>
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<td>This point is: □ Additional Well □ Geo Center List other water rights that will use this point</td>
</tr>
</tbody>
</table>

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.
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 ¼ 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 ¼ 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) ½ mile downstream and ¼ 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
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 20 15

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

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Please Print)

(Please Print)

(Please Print)

Notary Public - State of Kansas
MALINDA MORSE
My Appt. Expires 6/15/18

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 23rd day of June 20 15

My Commission Expires 6/15/18

Malinda Morse
Notary Public

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 ................................................................................................. $300
(4) Application to change the use made of the water ............................................................................. $300

Make check payable to Kansas Department 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.

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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

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

[Signature]

Spouse

(Please Print)

Owner

(Please Print)

Spouse

(Please Print)

Owner

(Please Print)

Spouse

(Please Print)

State of Kansas

County of Russell

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

[Signature]

Malinda Morse

Notary Public

My Commission Expires 6/15/15

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 RECEIVED JUN 29 2015

KS DEPT OF AGRICULTURE
Proposed Rate and Quantity

The Cities are requesting a total of 215.97 acre-feet and 1,000 gpm from the wells associated with this water right, all of which will be diverted from new point of diversion I, as shown on Exhibit K. When combined with existing wells from other water rights, new point of diversion I will have a cumulative total of 587.78 acre-feet and 2,950 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 conversion of 133.92 acre-feet for municipal use.\(^1\) As discussed below, 124 approved acres were irrigated during the perfection period; 124 acres multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 133.92 acre-feet.\(^2\)

That same regulation goes on to allow the City to request that the change 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 243 acre-feet annually at a rate of up to 1,000 gallons per minute for irrigation use\(^4\) on 124 acres in Sections 31-T25S-R19W and 1-T26S-R20W\(^5\), or 1.96 acre-feet per acre.

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 Reports indicate that 400 acre-feet were applied to 124 acres during the year of record. Since the permit authorized a maximum of 243 acre-feet, the entire quantity was perfected.\(^7\)

While the certificate limits the total quantity to 186 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.\(^8\)

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\(^1\) 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, HAYS002211, Ex. A.
\(^5\) Application, HAYS002190, Ex. B.
\(^6\) March 19, 1976, letter (emphasis added), HAYS002210, Ex. C.
\(^7\) FIRs, HAYS002168, Ex. D, and HAYS002176, Ex. E.
Since the perfection period has expired, the “authorized quantity” for this water right is the 243 acre-feet actually perfected even though it exceeds the certified quantity.

There are at least two alternative approaches to calculating consumptive use.

**NIR for Alfalfa**

Alfalfa was grown on this circle during the perfection period. According to the Kansas Irrigation Guide, the NIR for the 50% chance rainfall in Edwards County is 13 inches (1.083333 feet) for corn and 20.9 (1.741666 feet) inches for alfalfa.

Since alfalfa was grown on the authorized place of use in at least one year during the perfection period, it is reasonable to use the NIR for alfalfa, which yields a total quantity of 215.97 acre-feet consumed. While this quantity is greater than the quantity set out in the certificate, it is less than the 243 perfected acre-feet, the “maximum annual quantity authorized by the water right.”

**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. 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 243 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 174.96 acre-feet, should be available for conversion to municipal use. While this quantity is greater than the quantity set out in the certificate, it is less than the 243 perfected acre-feet, the “maximum annual quantity authorized by the water right.”

The City requests that DWR approve a total of 215.97 acre-feet for municipal use.

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10 See K.A.R. 5-5-9(a)(4).
11 Administrative Policy No. 86-8, dated Nov. 5, 1986, Ex. I, 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 Doug Bush Memo dated March 30, 1987, HAYS002214, Ex. G.
APPROVAL OF APPLICATION
and
PERMIT TO PROCEED

(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application No. 22,325 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 two (2) wells: one well near the center of the North side of Lot 1 (NE\(\_\) 1NE\(\_\)) and one well near the center of the North side of the East Half (E\(\_\)) of Section 1, 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 243 acre-feet for any calendar year.

RECEIVED

(over)

JUL 19 1976
HAYS002211
JUN 29 2015
FIELD OFFICE
DIVISION OF WATER RESOURCES
SYRACUSE
KS DEPT OF AGRICULTURE
SCANNED
8. That installation of works for diversion of water shall be completed on or before December 31, 1977. 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, 1981.

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 mixing 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 consent 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

[Signature]

Chief Engineer
Division of Water Resources
Kansas State Board of Agriculture

WATER RESOURCES RECEIVED
JUN 29 2015
HAYS002212
KS DEPT OF AGRICULTURE
SCANNED
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 Kineley, 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 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 243 acre feet per year, to be diverted at a maximum rate of 1,400 gallons per minute.

2. The location of the proposed wells or other works for diversion of water is in the northeast quarter of the northeast quarter of section 1, township 26 S, range 520 W, in Edwards County, Kansas.

3. The water is intended to be appropriated for:

(a) Domestic use
(b) Municipal use
(c) Irrigation use
(d) Industrial use
(e) Recreational use

RECEIVED
MAY 8 1975
SEPTEMBER 15 1975
OCTOBER 15 1975
FEBRUARY 8 1976
MAY 2 1974
JUN 29 2015

WATER RESOURCES RECORDED
KS DEPT OF AGRICULTURE

MICROFILMED
JAN 22 1975

HAYS002190

MAY 9 1975

RECEIVED
DIVISION OF WATER RESOURCES
STATE BOARD OF AGRICULTURE

RECEIVED
DIVISION OF WATER RESOURCES
STATE BOARD OF AGRICULTURE

DIVISION OF WATER RESOURCES
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DIVISION OF WATER RESOURCES
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DIVISION OF WATER RESOURCES
STATE BOARD OF AGRICULTURE

DIVISION OF WATER RESOURCES
STATE BOARD OF AGRICULTURE
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:

<table>
<thead>
<tr>
<th>Owner of Land—NAME: Midwest Land &amp; Cattle Co.</th>
<th>ADDRESS: P.O. Box 208 Kingman, Kansas 67547</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec. Twp. Range</td>
<td>NE1</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td>NE1</td>
</tr>
<tr>
<td>1 26 20</td>
<td>NE1</td>
</tr>
<tr>
<td></td>
<td>NE1</td>
</tr>
<tr>
<td>31 25 19</td>
<td>NE1</td>
</tr>
<tr>
<td></td>
<td>NE1</td>
</tr>
<tr>
<td></td>
<td>NE1</td>
</tr>
</tbody>
</table>

Owner of Land—NAME: ________________________________
ADDRESS: ________________________________________

Owner of Land—NAME: ________________________________
ADDRESS: ________________________________________

Owner of Land—NAME: ________________________________
ADDRESS: ________________________________________

WATER RESOURCES RECEIVED
JUN 29 2015

HAYS002191 KS DEPT OF AGRICULTURE SCANNED
7. The works for diversion of water will consist of 2 walls with 2 pumps and 4 sprinklers in irrigation system (2 motors). And will be completed by July 1974.

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

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 in the process of being brought from a company known as the Kinsley Joint Venture (Wheatheart Land Co.) Permit Application for water rights have been filed.

11. The relation of the subscriber to this application is that of agent 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.

By: [Signature]

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.
Total Acres 430.20
Distances in Chains

Sections 10 & 11, Twp. 26 South, Rge. 20 West
Total Acres: 568.25
Distances in Chains

Section 2, Twp 26 South, Rge 20 West
Section 1, Twp. 26 South, Rge 20 West

Distance in Chains
Total Acres 758.15

[Diagram with labeled coordinates and distances]
March 19, 1976

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

ATTENTION: Mr. Johnny Carson, Manager

Re: Appropriation of Water
Application No. 22,325

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

Encs.
EXHIBIT 22325

FIELD INSPECTION REPORT

Test 1 of 2 Diversion points

Application No. 22325 Date 10/2/86 Firm/Field Office Pumping Plant Testing, Inc

Inspector: Perry Klassen

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


Address: Box 112 North Platte, Nebraska 69103 A&M Jerry Weaver

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

Groundwater (X) Drainage Basin: Akamina River

Surface Water (X) Stream

Authorized Point of Diversion: NC Northside E 1/4 Sec.1 T.26 N. R.20

Approximately ______________ ft. North and ______________ ft. West of SE corner of Sec. ______________

Actual Point of Diversion: Sec 1, T.26 N. R.20

Approximately ______________ ft. North and ______________ ft. West of SE corner of Sec. ______________

How were distances determined? Scaled from HSCS, photo

"Approved" Quantity: 243 AF "Approved" Diversion Rate: 1000 g.p.m. (.23 c.f.s.)

Priority Date: May 2, 1974 Approval of Application Date: March 19, 1974

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% NW% SW% SE% NE% NW% SW% SE% TOTAL ACRES

1 26 20 35 35 13.35 6 54.7

LAND IRRIGATED—YEAR OF RECORD: 1984

S T R NE% NW% SW% SE% NE% NW% SW% SE% TOTAL ACRES

1 26 20 4.5 41 3.5 24.5 24.5 59.1

APPLICATION OF WATER:

Year of Record: 1984 Hours Pumped: 1000 or Quantity: 330 AF

Normal Operating G.P.M.: 1055 GPM Equiv. c.f.s.: 2.35

Maximum Operating G.P.M.: 803 x Sec HSCS Equiv. c.f.s.: 1.79

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

Total No. of Hours on land covered by this application: 1700

Acre Ft. Applied: 1700 hrs. x 902 g.p.m. x 4.419 24 x 1000 = 252 AF

Acres of "Approved" Land irrigated: 124

Ac. Ft. on "Approved" Land: 241 (124 Ac. Ft./Ac.)

Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less: 124

Proration Calculation: 803 x 1000 AF = 3401 g.p.m. x 124 acres = 199 AF

Perfected Rate: 803 g.p.m. Perfected Quantity: 199 AF

Received by: Douglass S. Smith

Page 20 of 54 Revised March 1986

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

SCANNED
GENERAL INFORMATION ON IRRIGATION SYSTEM:

- Center Pivot
- Low Pressure
  Manufacturer: **Rainbird**
  Model: 308
  Serial No: 3536
  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.
  Rainbird 85
  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: 08750
  Engine: V8
  Fuel: Natural Gas
  Rated RPM: 

PUMP INFORMATION:

- Manufacturer: **Fairbanks Morse**
- Model No: 10MP
  Rated RPM: 
  Serial No: 12W4231X
  Type: Vertical Turbine
  No. of stages: 5

GEAR HEAD INFORMATION:

- Manufacturer: **U.S. Motors**
- Model No: N-500 1197
  Drive: Right Angle
  Ratio: 1:1

WELL INFORMATION:

- Date Drilled: **1974**
- Original Depth: 48 ft.
- Static Water Level When Drilled: 17 ft.
- Tape Down Possible? **Yes**
- Water Level Measurement Tube? **No**
- Measuring Point: 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**

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

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS002169

SCANNED
**TEST OF DIVERSION RATE:**

Length of time well has been operating prior to test: 0

Location of test: Horizontal pipe between pump and pivot

Pipe Diameter (I.D.) = 8 3/8 inches

<table>
<thead>
<tr>
<th>Test No. 1—Normal Conditions</th>
<th>Test No. 2—Maximum Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.P.M. POWER UNIT = 1912</td>
<td>R.P.M. POWER UNIT = 1743</td>
</tr>
<tr>
<td>R.P.M. PUMP UNIT = 1512</td>
<td>R.P.M. PUMP UNIT = 1623</td>
</tr>
<tr>
<td>Pressure at Pump = 51 psi</td>
<td>Pressure at Pump = 9 psi</td>
</tr>
</tbody>
</table>

☐ Jacuzzi Meter Test

Area Constant K = 2.45 \times 1.126 = \text{Q (gpm) = VK}

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>9.</td>
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<td>10.</td>
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</tbody>
</table>

Total

Avg.

G.P.M.

☐ Propeller Meter Test

Manufacturer: 
Model: 
Serial No.

JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS002170

☐ Other Flow Meter

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

- Electricity
- Supplier: 

- Meter Manufacturer: 
- Type: 
- Serial No.: 

- K: watt/rev 
- r: revolutions 
- t: seconds

- Rate = $\frac{K \times 3.6}{t}$ = kw/hr 
- Hours = 

- Other Fuels
- Type: Natural Gas
- Supplier: Kansas-Nebraska

- Rate = $\frac{\text{Volume (test)}}{\text{time}}$ = kw-hr

How was the test volume determined? 
- Not Determined
- Engine out on individual meter

TABULATION OF WATER USE:

<table>
<thead>
<tr>
<th>Year</th>
<th>Hours Pumped (hr)</th>
<th>Tested Pumping Rate (gpm)</th>
<th>Water Used (AF)</th>
<th>Acres Irrigated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>1812</td>
<td>1000</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>1976</td>
<td></td>
<td></td>
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<tr>
<td>1977</td>
<td>1102</td>
<td>1000</td>
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<td>130</td>
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<td>1978</td>
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<td>1986</td>
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</tbody>
</table>

- Unused due to pivot problems
- Obtained from test on 10/2/86. See remarks.
- Source of Information: Sluice File

Indicate Year of Record with (*)

Crops Irrigated: this year wheat 
Year of record: 1986 

REMARKS: 
- Due to a lack of check valve to prevent water from being pumped into the other well, the flow rate of 803 gpm reflects water pumped into the centre pivot & the other well. This same well was pumped at 641 gpm (with the second well pumped also) into the centre pivot, which would be 'unusual condition'.

Person present at test: Kent Nebel 
Irrigation Manager

Water Use Correspondent: Lyle Kolbeck 
Sparcville, KS 67876 
216-385-2803

Conducted by: 
Approved by: 
Date 10/2/86

WATER RESOURCES RECEIVED
JUN 29 2015
KS DEPT OF AGRICULTURE

SCANNED

SKETCH THAT ACCOMPANIED ORIGINAL APPLICATION

WATER RESOURCES
RECEIVED
JUN 29 2015
DEPT OF AGRICULTURE

SCANNED
APPLICATION NO: 22325  NAME: Connecticut General Life Insurance

COLLINS METER TEST Flow from well in NEW, NY of lot 2 with both wells pumping

Collins Meter No. 1-85  Meter Calibration Factor 9826
Pipe Inside Diameter (inches) 8.76  Flow Rate Factor 170.5
Test Pressure (psi) 5L  Test RPM, Pump 1812

Description of Test Location In horizontal pipe between
pump and pivot

| TEST DATA: |  | Check, Initial 3.60 | Reversed 3.64 |
|------------|-----------------|-----------------|
|             | Velocity        | Velocity        |
| Meter Setting From |                | Right Side of Pipe | (or Back Side if Vertical Test) |
| Center of Pipe (or Front Side if Vertical Test) | |                        |
| 1 1/4"      | 3.70            | 3.72            | 3.99            | 3.91 |
| 2 1/5"      | 3.68            | 3.70            | 3.75            | 3.79 |
| 3 3/8"      | 3.39            | 3.50            | 3.41            | 3.39 |

Average Velocity of Water = Sum of Vel. ÷ 12 = 3.66

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 3.66 x 9826 = 360

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 360 x 170.5 = 619 GPM

WATER RESOURCES RECEIVED

PUMPING PLANT TESTING, INC.

Reviewed By:        KS DEPT OF AGRICULTURE
JANUARY 1 1987

Received By:        Professional Engineer
JUN 29 1987

HAYS002173

SCANNED
APPLICATION NO: 22325  NAME: Connecticut General Life Insurance

COLLINS METER TEST Flow from well in the NE 1/4, NW 1/4 of Lot 2 pumping alone

Collins Meter No. 1-85  Meter Calibration Factor .7826
Pipe Inside Diameter (inches) 3/8  Flow Rate Factor 170.5
Test Pressure (psi) 9  Test RPM, Pump 1762
Description of Test Location In horizontal pipe between pump and pivot

TEST DATA:  Q Check, Initial _______ Reversed _______

<table>
<thead>
<tr>
<th>Meter Setting From Center of Pipe</th>
<th>Velocity Left Side of Pipe (or Front Side if Vertical Test)</th>
<th>Velocity Right Side of Pipe (or Back Side if Vertical Test)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4</td>
<td>5.12  5.14</td>
<td>5.00  4.99</td>
</tr>
<tr>
<td>2 1/2</td>
<td>5.01  5.04</td>
<td>4.67  4.60</td>
</tr>
<tr>
<td>3 1/2</td>
<td>4.69  4.98</td>
<td>4.17  4.12</td>
</tr>
</tbody>
</table>

Average Velocity of Water = Sum of Vel. ÷ 12 = 4.79
Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 4.79 x .7826 = 4.71
Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 4.71 x 170.5 = 803 GPM

WATER RESOURCES RECEIVED

PUMPING PLANT TESTING, INC. JUN 29 2015
KS DEPT OF AGRICULTURE
HAYS002174

Reviewed By: [Signature]
Professional Engineer
APPLICATION NO: 22,325

NAME: CONNECTICUT GENERAL LIFE INSURANCE CO, INC.

NOTES ON CHOOSING A YEAR OF RECORD

THIS DEVELOPMENT WAS OWNED SEVERAL OWNERS SINCE ITS INCEPTION IN 1975, WITH OWNERS FROM EUROPE AND 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 MINDALLY 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. THERE ARE, IT WOULD SEEM REASONABLE TO USE THE YEARS SINCE 1983 IN CHOOSING A YEAR OF RECORD.
**EXHIBIT**

**FIELD INSPECTION REPORT**

Test 2 of 8 Diversion points

Application No. 22325 Date 10/26/86 Firm/Field Office: Pumping Plant Testing, Inc.

Field Area No. 2 C.M.D. No. 5 County: Edwards

Current Landowner: Connecticut General Life Insurance & Agri. Affiliates

Address: Box 1162 North Platte, NE 69103 Atttn: Jerry Weaver


Groundwater (x) Drainage Basin: Arkansas River

Surface Water ( ) Stream

Authorized Point of Diversion: NE Northside of Lot 1 (NE1/4, NE1/4), Sec 1, T. 26, R. 20

Approximately 87 ft. North and 87 ft. West of SE corner of Sec.

Actual Point of Diversion: NW1/4 NE1/4 of NW1/4, Sec 1, T. 26, R. 20

Approximately 1.669 ft. North and 9.76 ft. West of SE corner of Sec.

How Were Distances Determined? Scaled from ASCS photo

"Approved" Quantity: 243 AF "Approved" Diversion Rate: 1800 g.p.m. (22.3 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:**

<table>
<thead>
<tr>
<th>S</th>
<th>T</th>
<th>R</th>
<th>NE%</th>
<th>NW%</th>
<th>SW%</th>
<th>SE%</th>
<th>NE</th>
<th>NW</th>
<th>SW</th>
<th>SE</th>
<th>TOTAL ACRES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>26</td>
<td>20</td>
<td>35</td>
<td>35</td>
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<td>70</td>
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<td>31</td>
<td>25</td>
<td>19</td>
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<td></td>
<td></td>
<td>13</td>
<td>35</td>
<td></td>
<td>6</td>
<td>54/124</td>
</tr>
</tbody>
</table>

**LAND IRRIGATED—YEAR OF RECORD:** 1984 - SEE ATTACHMENT SHEET

<table>
<thead>
<tr>
<th>S</th>
<th>T</th>
<th>R</th>
<th>NE%</th>
<th>NW%</th>
<th>SW%</th>
<th>SE%</th>
<th>NE</th>
<th>NW</th>
<th>SW</th>
<th>SE</th>
<th>TOTAL ACRES</th>
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<tbody>
<tr>
<td>1</td>
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<td>20</td>
<td>21</td>
<td>41</td>
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<td>3.5</td>
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<td>71</td>
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<td>31</td>
<td>25</td>
<td>19</td>
<td></td>
<td></td>
<td>28.5</td>
<td>30.5</td>
<td></td>
<td></td>
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<td>59/130</td>
</tr>
</tbody>
</table>

**APPLICATION OF WATER:**

Year of Record: 1984 Hours Pumped: 1700 or Quantity: 330 AF

- Normal Operating C.P.M.: 10.55 Equiv. c.f.s.: 2.35
- Maximum Operating C.P.M.: 530* Equiv. c.f.s.: 1.18

*K.S.A. REMARKS

**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: 1200

Ac. Ft. Applied = \[
\text{Ac. Ft.} \times \frac{1700}{24000} \times 1200 = 760 \text{ AF}
\]

Acres of "Approved" Land irrigated: 124

Ac. Ft. on "Approved" Land: 159 (0.129 Ac. Ft./Ac.)

Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less: 126

<table>
<thead>
<tr>
<th>Max. Allowable</th>
<th>120</th>
<th>105.5</th>
</tr>
</thead>
</table>

Perfected Rate: 0.30 g.p.m. Perfected Quantity: 78 AF

Compl. by Douglas Bush 5-31-86

Revised March 1986

**RECEIVED**

JAN 21 1997

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

SCANNED
GENERAL INFORMATION ON IRRIGATION SYSTEM:

- **Center Pivot**
  - Manufacturer: **Zimmatic**
  - Model: **308**
  - Serial No.: **3536**
  - Drive: **Electric**
  - Length of Pivot Arm

- **Design Pressure-Pivot**
  - Operating Pressure-Pivot

- **End Gun?**
  - **YES**
  - End Gun Rating

- **Is end gun operating during test?**
  - **YES**

- **Gravity Irrigation** (show test set on sketch)
  - Number of gates open
  - Normal Pipe Size
  - Pressure at pump

- **Other**
  - Type
  - Manufacturer
  - Model
  - Serial No.

Unusual Conditions/Other Info.

---

POWER UNIT INFORMATION:

- **Manufacturer**: **Ford**
- Model No.: **300**
- HP
- Serial No.: **18942 E 2376**
- Fuel: **Net. Gas**
- Rated RPM

---

PUMP INFORMATION:

- **Manufacturer**: **Johnston**
- Model No.: **-**
- Rated RPM
- Serial No.: **L F 21235**
- Type: **Vertical Turbine**
  - No. stages

---

GEAR HEAD INFORMATION:

- **Manufacturer**: **Randolph**
- Model No.: **F 80**
- Serial No.: **82949**
  - Drive: **Right Angle**
  - Ratio: **6.5**

---

WELL INFORMATION:

- Date Drilled: **NOV., 1974**
- Original Depth: **47 ft.**
- Static Water Level: **13 ft.**

- Tape Down Possible? **YES**
- Water Level Measurement Tube? **NO**

Measuring Point: **-** ft. above or below L.S.D.

---

WATER RESOURCES RECEIVED

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ADDITIONAL REQUIREMENTS:

- **Meter Required?** **NO**
- **Make of Meter**
- **Meter Model No.**
- **Serial No.**
- **Size**

- Is Meter Installed Properly? **YES**

- Chemical Injection System? **YES**
  - Check Valve? **YES**
  - Low Pressure Drain? **NO**

- Vacuum Breaker? **YES**
  - Are these anti-pollution devices installed properly? **YES**

---

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

---

**JUN 29 2015**

---

**Page 29 of 55**

**HAYSO02177**

---

**SCANNED**
TEST OF DIVERSION RATE:

Length of time well has been operating prior to test: ___
Location of test: Horizontal pipe at point
Pipe Diameter (I.D.): 6 1/4 inches

<table>
<thead>
<tr>
<th>Test No. 1—Normal Conditions</th>
<th>Test No. 2—Maximum Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.P.M. POWER UNIT: 2098</td>
<td>R.P.M. POWER UNIT: 2100</td>
</tr>
<tr>
<td>B.P.M. PUMP UNIT: 1750 psi</td>
<td>R.P.M. PUMP UNIT: 1750 psi</td>
</tr>
<tr>
<td>Pressure at Pump: 51 psi</td>
<td>Pressure at Pump: 10 psi</td>
</tr>
</tbody>
</table>

☐ Jacuzzi Meter Test

Area Constant $K = 2.45 \times 1.0^3 = $ ____________

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>4</td>
</tr>
<tr>
<td>5.</td>
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<tr>
<td>6.</td>
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<td>9.</td>
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</tr>
<tr>
<td>10.</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
<tr>
<td>Avg.</td>
<td>Avg.</td>
</tr>
<tr>
<td>G.P.M.</td>
<td>G.P.M.</td>
</tr>
</tbody>
</table>

☐ Propeller Meter Test

Manufacturer: _____________________ Model: _____________________ Serial No: ____________

Meter Diameter: ____________ inches

Time: ____________ min.     Time: ____________ min.
Rate: ____________ gpm      Rate: ____________ gpm

☒ Other Flow Meter

Use Supplemental Sheet (include meter identification, data and calculations)
FUEL RECORDS:

- Electricity
- Supplier
  - Meter Manufacturer
  - Type
  - Serial No.
  - K: watt/rev
  - rev: revolutions
  - t: seconds
  - Rate = K x 3.6
  - Hours = kwh
  - rate
  - Additional Fuels: Natural Gas
  - Supplier: Kansa - Nebraska
  - Rate = Volume (test) / time
  - How was the test volume determined?
  - Not determined
  - Engine not an individual meter

TABELULATION OF WATER USE:

<table>
<thead>
<tr>
<th>Year</th>
<th>Hours Pumped (hr)</th>
<th>Tested Pumping Rate (gpm)</th>
<th>Water Used (AF)</th>
<th>Acres Irrigated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>1812</td>
<td>1000</td>
<td></td>
<td>6.5</td>
</tr>
<tr>
<td>1976</td>
<td></td>
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<td>1977</td>
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<td>1000</td>
<td></td>
<td>13.0</td>
</tr>
<tr>
<td>1978</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1979</td>
<td>336</td>
<td>850</td>
<td></td>
<td>7.4</td>
</tr>
<tr>
<td>1980</td>
<td>720</td>
<td>850</td>
<td></td>
<td>7.4</td>
</tr>
<tr>
<td>1981</td>
<td>1040</td>
<td>850</td>
<td></td>
<td>7.4</td>
</tr>
<tr>
<td>1982</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1983</td>
<td></td>
<td></td>
<td></td>
<td>** Unused due to pivot problems**</td>
</tr>
<tr>
<td>*1984</td>
<td>1700**</td>
<td>530*</td>
<td></td>
<td>130**</td>
</tr>
<tr>
<td>1985</td>
<td>500**</td>
<td>550**</td>
<td></td>
<td>130**</td>
</tr>
<tr>
<td>1986</td>
<td></td>
<td>550*</td>
<td></td>
<td>** obtained from test on 10/24/86 - S.E.R. Fernandes **</td>
</tr>
</tbody>
</table>

Indicate Year of Record with (*)

Source of Information: Staff Files

Crops Irrigated: this year: wheat
Year of record: 1986

REMARKS: There was no check valve to prevent water from moving into other well during the flow rate test on 11/14/84 or 11/2 of lot 1 pumping house. These are, the 530 gpm is a reflection of water being pumped into the central pivot and into the other well. The 441 gpm is the contribution of this same well when both wells are being pumped.

Person present at test: Kent Naber
Irrigation Manager

Water Use Correspondent: Lyle Kolbeck
Sparta, KS 67876-2803
(316) 385-2803

Conducted by: Doe East
Date: 10/24/86

Approved by: Doe East
Date: 12/29/86

WATER RESOURCES RECEIVED
JUN 29 2015

KS DEPT OF AGRICULTURE

SCANNED
APPLICATION NO: 22325  NAME: Connecticut General Life Insurance

C Collins Meter Test Flow from well NW 4 of N 1 at 1 pumping alone

Collins Meter No. 1-84  Meter Calibration Factor 9635
Pipe Inside Diameter (inches) 6 7/8  Flow Rate Factor 91.4
Test Pressure (psi) 10  Test RPM, Pump 1750

Description of Test Location

<table>
<thead>
<tr>
<th>Test Data: Q Check, Initial</th>
<th>Reversed</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.29 Q</td>
<td>6.25 Q</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Meter Setting From Center of Pipe</th>
<th>Velocity Left Side of Pipe (or Front Side if Vertical Test)</th>
<th>Velocity Right Side of Pipe (or Back Side if Vertical Test)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>6.30</td>
<td>6.28</td>
</tr>
<tr>
<td>2 3/8</td>
<td>6.05</td>
<td>5.99</td>
</tr>
<tr>
<td>2 1/8</td>
<td>5.50</td>
<td>5.88</td>
</tr>
</tbody>
</table>

Average Velocity of Water = Sum of Vel. ÷ 12 = 6.02

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 6.02 x 9635 = 5.18

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 5.18 x 91.4 = 530 GPM

WATER RESOURCES RECEIVED
PUMPING PLANT TESTING, INC. JUN 29 2015
KS DEPT OF AGRICULTURE

Reviewed by: [Signature]
Professional Engineer
JUN 29 1997

HAYS002180

SCANNED
APPLICATION NO: 22325 NAME: Connecticut General Life Insurance

N W 40 FT N 1/2 Lot 1 (well) Both wells pumping

Collins Meter No. 1-84 Meter Calibration Factor .9535
Pipe Inside Diameter (inches) 6 3/16 Flow Rate Factor .914
Test Pressure (psi) 51 Test RPM, Pump 1740

Description of Test Location: In horizontal pipe between pump and pivot

TEST DATA:

<table>
<thead>
<tr>
<th>Meter Setting From Center of Pipe</th>
<th>Check, Initial Velocity</th>
<th>Reversed Velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Side of Pipe (or Front Side if Vertical Test)</td>
<td>5.12</td>
<td>5.12</td>
</tr>
<tr>
<td>Right Side of Pipe (or Back Side if Vertical Test)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 1/4 5.29 5.38 5.17 5.19
2 3/16 5.13 5.09 5.11 5.09
2 3/16 4.58 4.75 4.80 4.50

Average Velocity of Water = Sum of Vel. ÷ 12 = 5.01

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 5.01 x .9535 = 4.83

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 4.83 x .914 = 441 GPM

WATER RESOURCES RECEIVED

PUMPING PLANT TESTING, INC. JUN 29 2015

Reviewed By: J. W. Professional Engineer

KS DEPT OF AGRICULTURE

HAYS002181

SCANNED
APPLICATION NO: 22325
NAME: Connecticut General Life Ins.

POINTS OF DIVERSION AND SECTION CORNERS

The actual section corners of the land applied for and the land irrigated have never been clearly marked. (If it was marked at some time, we, nor the present owners and managers could find any marks or records.) It appears the land described on the applications was based on visible marks, but we don't know for sure. It might have been surveyed and be more accurate than our method of identifying section corners. Our procedure of finding the section corners consisted of several steps. First, we used copies of the original survey plats to find the dimension of each section. Second, we laid out each section on the large small-scale photos in the ASCS office. For this, we used not only survey plat dimensions, but also by drawing lines across several miles from identifiable boundaries. However, sometimes these points made a section so "out-of-square" that we shifted the boundaries until they were reasonably tolerable. Because some of these marks were based on our judgement, we can not be sure they would be the same if the land was surveyed. These points were then transferred to the large-scale photos included.

The point of diversion location on the photo is correct. The photos were taken at a time when the diversion points were visible. The problem is in our ability to correctly describe the diversion points in relation to section corners.
CERTIFICATE OF APPROPRIATION FOR BENEFICIAL USE OF WATER

WATER RIGHT, File No. 22,325
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 two (2) wells: one (1) well located in Lot 1 of Section 1, more particularly described as being near a point 6,669 feet North and 996 feet West of the Southeast corner of said section, at a diversion rate not in excess of 530 gallons per minute (1.18 c.f.s.) and in a quantity not to exceed 78 acre-feet per calendar year; and one (1) well located in Lot 2 of Section 1, more particularly described as being near a point 6,643 feet North and 1,565 feet West of the Southeast corner of said section, at a diversion rate not in excess of 805 gallons per minute (1.79 c.f.s.) and in a quantity not to exceed 108 acre-feet per calendar year; both in Township 26 South, Range 20 West, Edwards County, Kansas, for irrigation use on the following described property:

13 acres in Lot 4 (SWK SWK),
35 acres in the Southeast Quarter of the Southwest Quarter (SEK SWK),
6 acres in the Southwest Quarter of the Southeast Quarter (SWK SEK),
a total of 54 acres in Section 31, Township 25 South, Range 19 West,
35 acres in Lot 1 (E1 NEK),
35 acres in Lot 2 (W2 NEK),
a total of 70 acres in Section 1, Township 26 South, Range 20 West,
all in Edwards County, Kansas.
This appropriation right is further limited to a diversion rate which when the wells operate simultaneously will provide a diversion rate not in excess of 1,000 gallons per minute (2.23 c.f.s.) for irrigation use on the property described herein.

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 11th day of June, 1987.

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 11th day of June, 1987 by David L. Pope, P.E., Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture.

Denise J. Waters, Notary Public

Signature:  Denise J. Waters, Notary Public

Notary Public

WATER RESOURCES RECEIVED
JUN 29 2015
KS DEPT OF AGRICULTURE

WATER APPROPRIATION CERTIFICATE
No. 15,113
STATE OF KANSAS
Water Right, File No. 22,325

COUNTY, ss.

Day of
19

o'clock

Page

Filed for record this day of
at
recorded in Book
on
Register of Deeds.

HAYS002219

Page 36 of 84

_SCANNED_
MEMORANDUM

To: Files

From: Douglas E. Bush

Date: March 30, 1987

Re: Appropriation of Water
File No. 22,325

No proposed certificate on file. The certificate is based on a field inspection report conducted under contract by Pumping Plant Testing, Inc.

The quantity per well reflected has been prorated proportionate to that actually diverted so that the total authorization will not exceed a reasonable quantity for the land irrigated under File No. 22,325. The quantities were prorated as such:

Maximum approved rate = 1,000 gallons per minute
Maximum approved quantity = 186 acre-feet for irrigating 124 acres at
1.5 acre-feet per acre

Well (Lot 1) 441 gallons per minute + 614 gallons per minute = 1,055 gallons per minute. 441 gallons per minute divided by 1,055 gallons per minute = 0.42 x 1,000 gallons per minute = 420 gallons per minute. 420 gallons per minute x 1,700 hours = 132 acre-feet. 0.42 x (124 acres x 1.5 acre-feet per acre) = 78 acre-feet.

Well (Lot 2) 614 gallons per minute + 441 gallons per minute = 1,055 gallons per minute. 614 gallons per minute divided by 1,055 gallons per minute = 0.58 x 1,000 gallons per minute = 580 gallons per minute. 580 gallons per minute x 1,700 hours = 182 acre-feet. 0.58 x (124 acres x 1.5 acre-feet per acre) = 108 acre-feet.

The place of use shown on the aerial photo supplied with the Field Inspection Report is not valid. The contractor has shown the place of use as he thinks it should be in regards to the section corner. The actual land irrigated is the same land that was originally approved and shown to be irrigated on the aerial photo. However, in regards to the place of use, the contractor shows 130 acres being irrigated with 124 acres being approved. Therefore, a change in place of use application is being sent with the draft certificate.

The coordinates for the two points of diversion were not changed from those found on the Field Inspection Report. It appears that the coordinates for the points of diversion were correctly measured regarding the section corners.

The WUC shown on the Field Inspection Report was changed to show Agri Affiliates as correspondent. This information was obtained in a March 25, 1987 phone call from Larry Sheets, Division of Water Resources, to Jerry Weaver, Agri Affiliates.

A limitation was needed on the combined rate. This limitation limits the combined rate to 1,000 gallons per minute; the maximum approved rate.

Douglas E. Bush
Hydrologist
March 25, 1982

Slentz-McAllaster Inc.
P O Box 38
League, Kansas 67552

Dear Don,

This letter is in reference to our conversation concerning the alfalfa insurance on the alfalfa located at the Lucerne Farms in Kinsley, Kansas.

As of today, we will no longer be responsible for the insurance on the alfalfa that you have paid us for but have not removed from the farm.

Our records show that you have paid us $416,000.00 (this includes the March payment of $52,000.00) for alfalfa. At $65.00 per ton this figures that you have paid for 6,400 ton of hay. We show that you have removed 2,278 bales at 1800 lbs average weight. That is 2050.2 Tons removed. So there is 4,349.80 tons of alfalfa on this farm that you have paid for but you have not removed.

If you have any question on how I have arrived at these figures please contact me.

Best Regards,

Pamela Meadows
Secretary

*Note: This figure of 2278 removed doesn't include the 54 bales taken this week.
<table>
<thead>
<tr>
<th>McALLASTERS 4/5</th>
<th>TOTAL BALES</th>
<th>ANIBYPRO 1/5</th>
</tr>
</thead>
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<tr>
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<td>13</td>
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<tr>
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<td>4th</td>
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WATER RESOURCES RECEIVED
JUN 29 2015
KS DEPT OF AGRICULTURE

SCANNED
<table>
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<tr>
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Total Bales 10776

McAllasters 4/5's 8621
Anibypros 1/5's 2155

*Note* In order to come up to 8.000 Tons it will take 8.889 bales of 1800lbs. This will leave Anibupro 1887 bales
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(* This does not include hay taken this week 3/25/15)

Totals: 2278' 2035.58
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:  

<table>
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<th>Area, Place of use</th>
<th>Max. Allowable Rate</th>
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<tr>
<td>up to 10 acres</td>
<td>450 g.p.m.</td>
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<tr>
<td>10 - 40 acres</td>
<td>(+) 450 g.p.m.</td>
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<tr>
<td>40 - 120 acres</td>
<td>(+) 8 g.p.m./acre</td>
</tr>
<tr>
<td>more than 120 acres</td>
<td>(+) 7 g.p.m./acre</td>
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</table>

EXAMPLES:  

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

B. 83 acres requested;  

\[ 10 \text{ acres} = 450 \text{ g.p.m.} \]  
\[ (+) 40 \text{ acres} \times (10 + 30) = 450 \text{ g.p.m.} \]  
\[ (+) 43 \text{ acres} @ 8 \text{ g.p.m./acre} = 344 \text{ g.p.m.} \]  
\[ 1,244 \text{ (allow 1,245 g.p.m.)} \]  

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.
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.
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.

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

**ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6**

**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:

1. 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.

2. Use the following to calculate the percent Unaccounted For Water versus the Total Water of your system:
   \[
   \text{Percent Unaccounted} = \frac{\text{Unaccounted For Water}}{\text{Total Water (Columns 1 & 2)}} \times 100
   \]

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

**SECTION 2: PAST WATER USE**

COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

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**TOTAL WATER = Columns 1 + 2**

**ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6**

**UNACCOUNTED FOR WATER**
SECTION 3: PROJECTED FUTURE WATER NEEDS

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

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<th>Year</th>
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<th>Column 2: Water Purchased From All Sources</th>
<th>Column 3: Water Sold to Other Public Water Suppliers</th>
<th>Column 4: Water Sold to Your Industrial, Stock, and Bulk Customers</th>
<th>Column 5: Water Sold to Your Residential and Commercial Customers</th>
<th>Column 6: Other Metered Water</th>
<th>Column 7: Remaining Water Used (See Explanation on other side)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 5</td>
<td>753,014,900</td>
<td></td>
<td>11,886,600</td>
<td>654,779,400</td>
<td>17,959,700</td>
<td>68,389,200</td>
<td></td>
</tr>
<tr>
<td>Year 10</td>
<td>826,316,390</td>
<td></td>
<td>13,075,260</td>
<td>720,257,340</td>
<td>19,755,670</td>
<td>76,228,120</td>
<td></td>
</tr>
<tr>
<td>Year 15</td>
<td>911,148,029</td>
<td></td>
<td>14,282,786</td>
<td>792,283,074</td>
<td>21,731,237</td>
<td>82,750,932</td>
<td></td>
</tr>
<tr>
<td>Year 20</td>
<td>1,002,262,832</td>
<td></td>
<td>15,821,065</td>
<td>871,511,381</td>
<td>23,804,361</td>
<td>91,026,025</td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>LAST 20 YEARS</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 years ago</td>
<td>17,636</td>
</tr>
<tr>
<td>15 years ago</td>
<td>18,750</td>
</tr>
<tr>
<td>10 years ago</td>
<td>20,013</td>
</tr>
<tr>
<td>5 years ago</td>
<td>20,106</td>
</tr>
<tr>
<td>Last Year</td>
<td>21,038</td>
</tr>
</tbody>
</table>

PROJECTED FUTURE POPULATION
ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS

<table>
<thead>
<tr>
<th>NEXT 20 YEARS</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 5</td>
<td>23,142</td>
</tr>
<tr>
<td>Year 10</td>
<td>25,456</td>
</tr>
<tr>
<td>Year 15</td>
<td>28,002</td>
</tr>
<tr>
<td>Year 20</td>
<td>30,802</td>
</tr>
</tbody>
</table>

Provide number of current active service connections:

- Residential: 6,824
- Commercial: 1,256
- Pasture/Stockwater/Feedlot: 2
- Other: 8,082

Total: 8,082

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

<table>
<thead>
<tr>
<th>Amount of water in Column 5, 6, and 7</th>
<th>Population from Last Year of Section 4</th>
<th>365 Days/Year</th>
<th>Gallons per Person per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>673,753,000</td>
<td>21,038</td>
<td>365</td>
<td>88</td>
</tr>
</tbody>
</table>

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.
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.

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
<th>Column 6</th>
<th>Column 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw Water Diverted Under Your Rights</td>
<td>Water Purchased From All Sources</td>
<td>Water Sold to Other Public Water Suppliers</td>
<td>Water Sold to Your Industrial, Stock, and Bulk Customers</td>
<td>Water Sold to Your Residential and Commercial Customers</td>
<td>Other Metered Water</td>
<td>Remaining Water Used (See Below Explanation)</td>
</tr>
<tr>
<td>327,286,100</td>
<td>0</td>
<td>0</td>
<td>105,295,000</td>
<td>108,743,000</td>
<td>19,944,000</td>
<td>93,306,100</td>
</tr>
</tbody>
</table>

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 diversions.

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 = Unaccounted For Water / Total Water (Columns 1,2) x 100
If this number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it.

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

<table>
<thead>
<tr>
<th></th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
<th>Column 6</th>
<th>Column 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw Water Diverted Under Your Rights</td>
<td>Water Purchased From All Sources</td>
<td>Water Sold to Other Public Water Suppliers</td>
<td>Water Sold to Your Industrial, Stock, and Bulk Customers</td>
<td>Water Sold to Your Residential and Commercial Customers</td>
<td>Other Metered Water</td>
<td>Remaining Water Used (See Above Explanation)</td>
<td></td>
</tr>
<tr>
<td>20 years ago</td>
<td>373,757,000</td>
<td>0</td>
<td>0</td>
<td>171,928,220</td>
<td>115,864,870</td>
<td>18,687,650</td>
<td>67,276,200</td>
</tr>
<tr>
<td>15 years ago</td>
<td>477,486,000</td>
<td>0</td>
<td>0</td>
<td>222,781,000</td>
<td>147,340,000</td>
<td>19,483,000</td>
<td>87,882,000</td>
</tr>
<tr>
<td>10 years ago</td>
<td>375,790,000</td>
<td>0</td>
<td>0</td>
<td>144,277,000</td>
<td>123,343,000</td>
<td>18,307,000</td>
<td>89,263,000</td>
</tr>
<tr>
<td>5 years ago</td>
<td>375,790,000</td>
<td>0</td>
<td>0</td>
<td>144,277,000</td>
<td>123,343,000</td>
<td>18,307,000</td>
<td>89,263,000</td>
</tr>
</tbody>
</table>

TOTAL WATER = Columns 1 + 2  
ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6  
UNACCOUNTED FOR WATER

DWR 1-99-94 (Revised 08/15/2002)
### SECTION 3: PROJECTED FUTURE WATER NEEDS

Please complete the following table showing your future water requirements for the next 20 years:

<table>
<thead>
<tr>
<th>Year</th>
<th>Column 1: Raw Water Diverted Under Your Rights</th>
<th>Column 2: Water Purchased From All Sources</th>
<th>Column 3: Water Sold to Other Public Water Suppliers</th>
<th>Column 4: Water Sold to Your Industrial, Stock, and Bulk Customers</th>
<th>Column 5: Water Sold to Your Residential and Commercial Customers</th>
<th>Column 6: Other Metered Water</th>
<th>Column 7: Remaining Water Used (See Explanation on other side)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 5</td>
<td>368,346,512</td>
<td>0</td>
<td>0</td>
<td>177,719,396</td>
<td>119,767,419</td>
<td>15,453,861</td>
<td>73,405,836</td>
</tr>
<tr>
<td>Year 10</td>
<td>405,513,682</td>
<td>0</td>
<td>0</td>
<td>186,536,377</td>
<td>125,709,241</td>
<td>16,220,547</td>
<td>77,047,517</td>
</tr>
<tr>
<td>Year 15</td>
<td>426,310,852</td>
<td>0</td>
<td>0</td>
<td>196,102,992</td>
<td>132,156,364</td>
<td>17,052,434</td>
<td>80,999,062</td>
</tr>
<tr>
<td>Year 20</td>
<td>443,848,022</td>
<td>0</td>
<td>0</td>
<td>204,170,080</td>
<td>137,592,887</td>
<td>17,753,921</td>
<td>84,331,124</td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Last 20 Years</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 years ago</td>
<td>4,710</td>
</tr>
<tr>
<td>15 years ago</td>
<td>4,696</td>
</tr>
<tr>
<td>10 years ago</td>
<td>4,506</td>
</tr>
<tr>
<td>5 years ago</td>
<td>4,475</td>
</tr>
<tr>
<td>Last Year</td>
<td>4,475</td>
</tr>
</tbody>
</table>

Provide number of current active service connections:

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

**Total: 2448**

---

### 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

\[
\frac{21,991,000}{4,475} \div 365 \text{ Days/Year} = 135.9 \text{ GALLONS PER PERSON PER DAY.}
\]

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### 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 purposes of your request.