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
   ☑ Point of Diversion
   ☑ Use Made of Water

   (Check one or more)

   File No. 21,732 Circles 6, 11, & 12.

   Chief Engineer
   Division of Water Resources
   Kansas Dept. of Agriculture

   Water Resources
   Received JUN 28 2015
   4:03

   DEPT OF AGRICULTURE
   JUN 28 2015 8:38

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 1RR Source 0 S County ED By K A B Date 6/09/15

Code 0-3 Fee $ 700 TR # Receipt Date 6/02/15 Check # 053328

2000 15053312

SCANNED

DWR 1-120 (Revised 06/16/2014)

21732  Page 1 of 57

Assisted by:
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.</th>
<th>Twp.</th>
<th>Range</th>
<th>NE%</th>
<th>NW%</th>
<th>SW%</th>
<th>SE%</th>
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<th>SE%</th>
<th>NE%</th>
<th>NW%</th>
<th>SW%</th>
<th>SE%</th>
<th>TOTAL ACRES</th>
</tr>
</thead>
</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

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<tr>
<th>Sec.</th>
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<th>Range</th>
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<th>NE%</th>
<th>NW%</th>
<th>SW%</th>
<th>SE%</th>
<th>TOTAL ACRES</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Twp.</th>
<th>Range</th>
<th>NE%</th>
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<th>NE%</th>
<th>NW%</th>
<th>SW%</th>
<th>SE%</th>
<th>TOTAL ACRES</th>
</tr>
</thead>
</table>

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

<table>
<thead>
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<th>NE%</th>
<th>NW%</th>
<th>SW%</th>
<th>SE%</th>
<th>TOTAL ACRES</th>
</tr>
</thead>
</table>

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.
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)

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>Quarter</th>
<th>NE</th>
<th>County</th>
<th>State</th>
<th>Address</th>
<th>Authorized Rate</th>
<th>Authorized Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>25</td>
<td>19</td>
<td>4019</td>
<td>1358</td>
<td>Edwards</td>
<td>Kansas</td>
<td></td>
<td>780 gpm</td>
<td>165 a/f</td>
</tr>
</tbody>
</table>

(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:**

<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>Quarter</th>
<th>NE</th>
<th>County</th>
<th>State</th>
<th>Address</th>
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<th>Authorized Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>25</td>
<td>19</td>
<td>2724</td>
<td>1916</td>
<td>Edwards</td>
<td>Kansas</td>
<td></td>
<td>2380 gpm</td>
<td>687.96 a/f</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>Quarter</th>
<th>NW</th>
<th>County</th>
<th>State</th>
<th>Address</th>
<th>Authorized Rate</th>
<th>Authorized Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>25</td>
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<td>3966</td>
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<td></td>
<td>715 gpm</td>
<td>188 a/f</td>
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</tbody>
</table>

(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:**

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<tr>
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<th>NE</th>
<th>County</th>
<th>State</th>
<th>Address</th>
<th>Proposed Rate</th>
<th>Proposed Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>25</td>
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<td>2724</td>
<td>1916</td>
<td>Edwards</td>
<td>Kansas</td>
<td></td>
<td>2380 gpm</td>
<td>687.96 a/f</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>Quarter</th>
<th>S/2</th>
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<th>State</th>
<th>Address</th>
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<tbody>
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<td>Edwards</td>
<td>Kansas</td>
<td></td>
<td>885 gpm</td>
<td>240 a/f</td>
</tr>
</tbody>
</table>

(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:**

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<td>Kansas</td>
<td></td>
<td>2380 gpm</td>
<td>687.96 a/f</td>
</tr>
</tbody>
</table>

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.
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 ___________ (acre-feet or million gallons).

15. It is requested that the maximum rate of diversion of water be reduced to ___________ 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 ½ 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 ½ 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 ½ 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.
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

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

(Owner)

(Spouse)

(Please Print)

(Please Print)

(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

My Commission Expires 6/15/18

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 ................................................................................. $200
(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

(Owner)

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

(Spouse)

(Owner)

(Please Print)

(Spouse)

(Please Print)

(Spouse)

(Please Print)

NOTARY PUBLIC - State of Kansas
MALINDA MORSE, My Appt Expires 6/15/18
My Commission 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 2015.

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 ...................................................................................... $200
(4) Application to change the use made of the water .................................................................... $300

Make check payable to Kansas Department of Agriculture.

WATER RESOURCES
RECEIVED
SCANNED JUN 29 2015
KS DEPT OF AGRICULTURE
Proposed Rate and Quantity

The Cities are requesting a total of 687.96 acre-feet and 2,380 gallons per minute from the three wells associated with this water right, all of which will be diverted from new point of diversion B, as shown on Exhibit L. New point of diversion B will have a cumulative total of 687.96 acre-feet and 2,380 gallons per minute.

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 426.6 acre-feet for municipal use. As discussed below, 395 approved acres were irrigated during the perfection period; 395 acres multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 426.6 acre-feet.

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

Quantity authorized and perfected

The permit was issued on February 27, 1976, granting the applicant the right to divert up to 834 acre-feet annually at a rate of up to 2,400 gallons per minute for irrigation use, on 417 acres in Section 32-T25S-R19W, or 2.0 acre-feet per acre. The certificate limited the rate to 2,380 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.”

DWR’s Field Inspection Reports indicate that 818 of the 834 acre-feet authorized by the permit were lawfully perfected.

- 265 acre-feet were applied to 110 approved acres in the NE/4 of Section 32 T25S-R19W.
- 243 acre-feet were applied to 125 approved acres in the NW/4 of Section 32 T25S-R19W.

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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, HAYS001328, Ex. A.
5 Application, HAYS001322, Ex. B.
6 February 27, 1976, letter (emphasis added), HAYS001327, Ex. C.
7 FIR, HAYS001300, Ex. D.
8 FIR, HAYS001308, Ex. E.
• 310 acre-feet were applied to 160 approved acres in the S/2 of Section 32 T25S-R19W.\(^9\)

• The permit authorized perfection of 834 acre-feet on 417 acres, or 2.0 acre-feet per acre, but only 395 authorized acres were irrigated during the perfection period resulting in perfection of 790 acre-feet.

While the certificate limits the total quantity to 593 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.\(^10\)

Since the perfection period has expired, the “authorized quantity” for this water right is the 790.00 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**

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 during the year of record,\(^11\) it is reasonable to use the NIR for alfalfa, which yields a total quantity of 687.96 acre-feet consumed. While this quantity is greater than the quantity set out in the certificate, it is less than 790 perfected acre-feet, the “maximum annual quantity authorized by the water right.”\(^12\)

**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.\(^13\) 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 790 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 568.80 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 790 perfected acre-feet, the “maximum annual quantity authorized by the water right.”

The City requests that DWR approve a total of 687.96 acre-feet for municipal use.

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\(^9\) FIR, HAYS0001314, Ex. F.


\(^11\) HAYS001303 (Ex. D), HAYS001311 (Ex. E), HAYS001317 (Ex. F). See also HAYS004448-4453, Ex. 1.

\(^12\) See K.A.R. 5-5-9(a)(4).

\(^13\) Administrative Policy No. 86-8, dated Nov. 5, 1986, Ex. J, stating that: “In that area of Kansas located between the Range 5 East/Range 6 East Line and the Range 20 West/Range 21 West line, the maximum allowable quantity shall not exceed an average of 1.50 acre-feet per acre irrigated.” See also, K.A.R. 5-3-24 and Doug Bush Memo dated March 19, 1987, HAYS001332, Ex. H.
STATE BOARD OF AGRICULTURE
Roy Freeland, Secretary

DIVISION OF WATER RESOURCES
Coy 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. 21,732 of the applicant
Midwest Land and Cattle Company
c/o John Carson, Manager
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 January 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 three (3) wells: one well near the center of the Northeast Quarter (NEQ4); one well near the center of the Northwest Quarter (NWQ4) and one well near the center of the South Half (SH) of Section 32, Township 25 South, Range 19 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 2400 gallons per minute (5.35 c.f.s.) and to a quantity of not to exceed 834 acre-feet for any calendar year.
5. 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 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 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 27th day of February 1976

[Signature]

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

WATER RESOURCES RECEIVED
JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS001329
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.) MIDWEST LAND & CATTLE COMPANY
C/O JOHN CARSON, MANAGER

(Mrs.)

Comes now the applicant (Miss) Stanley Jane Tuttle whose post office Box 208, KINSLEY, KANSAS 67547
address is ARTHUR E. MOOD, ATTORNEY AT LAW, PO. BOX 555, WOODWARD, OKLAHOMA 73801
and makes application to the Chief Engineer of the Division of Water Resources, Kansas State Board of Agriculture, for a permit to appropriate for beneficial use such unappropriated ground water

(surface water or groundwater) as may be available in Arkansas River Basin in the county of Edwards (name of stream or drainage basin)

(state of Kansas, to the extent and in accordance with the particulars hereinafter described:

1. The quantity of water desired is in the amount of 3/4 acre feet per year, to be diverted at a maximum rate of 2,400 gals. per minute.

2. The location of the proposed well or other works for diversion of water is in the quarter of the NE/4 and the center of the NW/4 and in the SW/4 of the W 32nd quarter of the N 25th township, 19 range 19 in the County of Edwards, Kansas.

3. The water is intended to be appropriated for:

   (a) Domestic use ( )
   (b) Municipal use ( )
   (c) Irrigation use (x)
   (d) Industrial use ( )
   (e) Recreational use ( )
   (f) Domestic water power use ( )

(Enter and show intended quantity for each use)
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: **Kinsley Joint Venture is a partnership with the following owners**

   W. A. McDowell, 1210 S. Fordham, Perryton, Texas  
   W. W. Hodges, 291 Broadmoor, Woodward, Oklahoma  
   John N. Ellis, 823 S. Indiana, Perryton, Texas  
   N. O. Lindley, Jr., P. O. Box 576, Perryton, Texas  
   R. O. Rice, 304 W. 5th, Perryton, Texas  
   W. B. Sherrill, P. O. Box 305, Perryton, Texas

   Owner of Land—NAME: **Kinsley Joint Venture**
   ADDRESS: c/o Andrew J. Moore, Attorney, P. O. Box 588, Woodward, Oklahoma 73801

<table>
<thead>
<tr>
<th>Sec. Twp. Range</th>
<th>NE1</th>
<th>NW1</th>
<th>SW1</th>
<th>SE1</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 25 19</td>
<td>NE1</td>
<td>NW1</td>
<td>SW1</td>
<td>SE1</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td>1</td>
</tr>
</tbody>
</table>

This acreage is irrigated by pump well and system whose pivot is at the center of SW/4 of said section.

Owner of Land—NAME: **Same as above**
ADDRESS: **Same as above**

<table>
<thead>
<tr>
<th>Sec. Twp. Range</th>
<th>NE1</th>
<th>NW1</th>
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</tr>
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<tbody>
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<td>SW1</td>
<td>SE1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

This acreage is irrigated by pump, well and system whose pivot is at the center of NE/4 of said section.

Owner of Land—NAME: **Same as above**
ADDRESS: **Same as above**

<table>
<thead>
<tr>
<th>Sec. Twp. Range</th>
<th>NE1</th>
<th>NW1</th>
<th>SW1</th>
<th>SE1</th>
<th>Total</th>
</tr>
</thead>
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<td>NE1</td>
<td>NW1</td>
<td>SW1</td>
<td>SE1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

This acreage is irrigated by pump, well and irrigation system whose pivot is at the SW/4 of NE/4 of SW/4 of said section. This acreage is only that acreage irrigated by irrigation system whose pivots are in this section, other acreage in this section is irrigated by systems whose pivots are outside of this section.

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE
7. The works for diversion of water will consist of three wells, three pumps, and three irrigation systems.

and will be completed by already completed

8. The first actual application of water for the beneficial use proposed was or is estimated to be already used - use begun with 1973 growing season

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:

None


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

(Owner, agent or otherwise)

and he is authorized to make this application in behalf of the interest affected.

Dated at Kinsley, Kansas, this 15 day of Dec., 1973

KINSLEY JOINT VENTURE

(Applicant)

By D. Allen Frame, Attorney

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 = 33,860 cubic feet = 325,851 gallons.
The system whose pivot is marked by point A covers 125 acres and has a radius of 1320 feet. The system whose pivot is marked by point B is the same. The system whose pivot is marked by point C covers 167 acres and has a radius of 1522 feet. All three systems are served by one well and one pump at the pivot.

Also shown are some areas covered by irrigation systems whose pivots are outside this section. The pivots, wells, and pumps are listed on those maps showing the sections where those pivots are located.
February 27, 1976

Midwest Land and Cattle Company
C/O John Carson, Manager
Box 203
Kinsley, Kansas 67547

Re: Appropriation of Water
Application No. 21,732

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,

[Signature]

Riley M. Dixon
Hydrologist

Encs.

WATER RESOURCES RECEIVED
RMD:ee1

SCANNED JUN 29 2015

RECEIVED KS DEPT OF AGRICULTURE
MAR 8 1976

FIELD OFFICE DIVISION OF WATER RESOURCES STAFFORD
Exhibit D

Field Inspection Report

Test 1 of 3 Diversion points

Application No. 21732
Date 7/30/84
Firm/Field Office: Pumping Plant Testing, Inc.

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


Address: Box 1112, North Platte, NE 69103
Attn: Terry Weaver


Groundwater (x) Drainage Basin: Arkansas River

Surface Water ( ) Stream

Authorized Point of Diversion: NE NE 1/4 Sec. 32 T. 25 R. 19
Approximately 907 ft. North and 363 ft. West of SE corner of Sec.

Actual Point of Diversion: Sec. 32 T. 25 R. 19
Approximately 907 ft. North and 1558 ft. West of SE corner of Sec. 32

How were distances determined? Scale from AEC photo

"Approved" Quantity: 834 AF
"Approved" Diversion Rate: 2400 g.p.m. (5.35 c.f.s.)

Priority Date: Jan. 2, 1974
Approval of Application Date: Feb. 27, 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>TOTAL ACRES</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>25</td>
<td>19</td>
<td>31%</td>
<td>31%</td>
<td>31%</td>
<td>31%</td>
<td>31%</td>
</tr>
</tbody>
</table>

LAND IRRIGATED—YEAR OF RECORD: 1985 SEE ATTACHED 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>TOTAL ACRES</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>25</td>
<td>19</td>
<td>29</td>
<td>32</td>
<td>27</td>
<td>22</td>
<td>110</td>
</tr>
</tbody>
</table>

APPLICATION OF WATER: SEE ATTACHED SHEET

Year of Record 1985

Normal Operating C.P.M.: 776
Equiv. c.f.s.: 1.73

Maximum Operating C.P.M.: 1.37
Equiv. c.f.s.: 3.9

F.R. USE ONLY

Year of Record: 1985

Extension of time requested: Yes No

Total No. of Hours on land covered by this application: 1850

Ac. Ft. Applied = 1850 hrs. x 776 g.p.m. x 4419 / 24 x 1000 = 265 AF
Acres of "Approved" Land irrigated: 110

Ac. Ft. on "Approved" Land: 265 / 0.64 Ac. Ft./Ac. = 415 Ac.

Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less: 265

Piration Calculations: 265 irrigated x 1.5 AF/pe. = 397.5 A.

Perfected Rate: 780 g.p.m. Perfected Quantity: 165 AF

Water Resources Received: Jan 31, 1987

Scanned by: JUN 29 2015

KS DEPT. OF AGRICULTURE

Microfilmed

Ways001368

Dw 21732 Page 19 of 57 Revised March 1986
GENERAL INFORMATION ON IRRIGATION SYSTEM:

- Center Pivot ☑️ High Pressure ☐ Low Pressure
- Manufacturer: Valley  Model: N474  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. Toro
- Is End Gun operating during test? Yes ☑️

Gravity Irrigation (show test set on sketch):

- Number of Gates Open ____________ Normal Pipe Size ____________
- Pressure at Pump ____________ p.s.i.

Other ☐
- Type: ____________
- Manufacturer: ____________ Model: ____________ Serial No. ____________
- Unusual Conditions/Other Info. ____________

POWER UNIT INFORMATION:

- Manufacturer: Ford  Model No: 460  HP ____________
- Serial No.: 116478 R-24-T0  Fuel: Natural Gas  Rated RPM ____________

PUMP INFORMATION:

- Manufacturer: Western Land Roller  Model No: N474  Rated RPM ____________
- Serial No.: ____________ Type: ____________ No. Stages ____________

GEAR HEAD INFORMATION:

- Manufacturer: Randolph  Model No: 680  ____________
- Serial No.: 84559  Drive: Right Angle  Ratio: 6:1

WELL INFORMATION:

- Date Drilled: ____________  Original Depth: 43 ft.  Static Water Level When Drilled: 10 ft.
- Tape Down Possible? Yes ☑️
- Water Level Measurement Tube? No ☐
- Measuring Point: ____________ ft. above or below L.S.D.

ADDITIONAL REQUIREMENTS:

- WATER RESOURCES RECEIVED
- SCANNED JUN 29 2015
- KS DEPT OF AGRICULTURE

- Meter Required? Yes ☑️
- 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.
### 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

<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</td>
<td>R.P.M. POWER UNIT</td>
</tr>
<tr>
<td>2117</td>
<td>R.P.M. POWER UNIT</td>
</tr>
<tr>
<td>1764</td>
<td>R.P.M. PUMP UNIT</td>
</tr>
<tr>
<td>52 psi</td>
<td>Pressure at Pump</td>
</tr>
</tbody>
</table>

☐ Jacuzzi Meter Test

Area Constant \( K = 2.45 \times \text{I.D.}^3 \)

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>1.</th>
<th>2.</th>
<th>3.</th>
<th>4.</th>
<th>5.</th>
<th>6.</th>
<th>7.</th>
<th>8.</th>
<th>9.</th>
<th>10.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Total</th>
<th>Avg.</th>
<th>G.P.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

☐ Propeller Meter Test

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Meter Diameter</th>
<th>inches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ending</th>
<th>gal.</th>
<th>Ending</th>
<th>gal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning</td>
<td>gal.</td>
<td>Beginning</td>
<td>gal.</td>
</tr>
<tr>
<td>Difference</td>
<td>gal.</td>
<td>Difference</td>
<td>gal.</td>
</tr>
<tr>
<td>Time</td>
<td>min.</td>
<td>Time</td>
<td>min.</td>
</tr>
<tr>
<td>Rate</td>
<td>gpm</td>
<td>Rate</td>
<td>gpm</td>
</tr>
</tbody>
</table>

☐ Other Flow Meter

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

- Electricity

Meter Manufacturer: __________________ Type: ______________ Serial No: ______________

K _______ watt/rev r _______ revolutions t _______ seconds

Rate = $K \times 3.6$ = _______ kw/hr

Hours = _______ kw-hr = _______

☑ Other Fuels

Type: Natural Gas Supplier: Kansas - Nebraska

Rate = Volume (test) = __________

time

How was the test volume determined? Not Determined Engine not 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>1974</td>
<td>1752</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1975</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1976</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1977</td>
<td>786</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1978</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1979</td>
<td>1224</td>
<td>650</td>
<td>108</td>
<td></td>
</tr>
<tr>
<td>1980</td>
<td>1410</td>
<td>650</td>
<td>108</td>
<td></td>
</tr>
<tr>
<td>1981</td>
<td>1152</td>
<td>900</td>
<td>108</td>
<td></td>
</tr>
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<td></td>
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</tr>
<tr>
<td>1983</td>
<td>2200**</td>
<td>900**</td>
<td>108**</td>
<td>108**</td>
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<td>1984</td>
<td>1500**</td>
<td>850**</td>
<td>110**</td>
<td>110**</td>
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<td>1985</td>
<td>1850**</td>
<td>776**</td>
<td>110</td>
<td></td>
</tr>
<tr>
<td>1986</td>
<td></td>
<td>776**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* obtained from test on 9/30/66
** obtained from well log sent to us from Jerry Weaver

Indicate Year of Record with (*)

Source of Information: Stafford Files

Crops Irrigated: this year wheat Year of record: 1974

REMARKS: See attached sheet for logic in choosing a year of record.

________________________________________________________________________________________________________

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

Person present at test: Kent Naber Irrigation Manager

Water Use Correspondent: Lyle Kolbeck Spearville, KS 67876 316-385-2803

Conducted by: ________ Date: 10/18/86

Approved by: ________ Date: 1/15/87

HAYS001303
APPLICATION NO: 21732  NAME: Connecticut General Life Insurance

COLLINS METER TEST NO W-E %

Collins Meter No. 1-85  Meter Calibration Factor .926
Pipe Inside Diameter (inches) 7-13/32  Flow Rate Factor 147.8
Test Pressure (psi) 52  Test RPM, Pump 176.4

Description of Test Location: In vertical pipe inside pivot stand

<table>
<thead>
<tr>
<th>TEST DATA: q</th>
<th>Check, Initial</th>
<th>Reversed</th>
<th>Velocity</th>
<th>Velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>q</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meter Setting From Center of Pipe</td>
<td>Left Side of Pipe (or Front Side if Vertical Test)</td>
<td>Right Side of Pipe (or Back Side if Vertical Test)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15/3</td>
<td>5.96</td>
<td>5.96</td>
<td>5.39</td>
<td>5.41</td>
</tr>
<tr>
<td>2-3/4</td>
<td>5.87</td>
<td>5.83</td>
<td>5.05</td>
<td>5.09</td>
</tr>
<tr>
<td>3-5/8</td>
<td>5.40</td>
<td>5.19</td>
<td>4.64</td>
<td>4.31</td>
</tr>
</tbody>
</table>

Average Velocity of Water = Sum of Vel. ÷ 12 = 5.346

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 5.346 x 0.926 = 5.253

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 5.253 x 147.8 = 776 GPM

WATER RESOURCES RECEIVED

PUMPING PLANT TESTING, INC. JUN 29 2015

Reviewed By: KS DEPT OF AGRICULTURE
Professional Engineer
JUN 19 1987
HAYS001304 SCANNED
NOTES ON CHOSING A YEAR OF RECORD

This development has had 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 either destroyed or lost, and the systems and pumping plant components have been interchanged over the years.

Since late 1983, Connecticut General has made a diligent effort to keep good records. There are, it would seem reasonable to use the years since 1983 in choosing a year of record.
APPLICATION NO: 21732

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.

PUMPING PLANT TESTING, INC.

Reviewed by: J. W. SCANNED

Professional Engineer: HAYS001306

WATER RESOURCES RECEIVED

JUN 29 2015  Page 22 of 57
APPLICATION OF WATER

Normal Operating Flow Rate (GPM)

Hours of Operation on "Approved" Land

Ac-Ft Applied on "Approved" Land

Acres of "Approved" Land Irrigated

Ac-Ft per Acre Irrigated

Ac-Ft Applied at "Approved" Rate or Less

<table>
<thead>
<tr>
<th>NC NW</th>
<th>NC NE</th>
<th>NC S1/2</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>712</td>
<td>776</td>
<td>985</td>
<td>2373</td>
</tr>
<tr>
<td>1850</td>
<td>1850</td>
<td>1900</td>
<td></td>
</tr>
<tr>
<td>242.5</td>
<td>264</td>
<td>307.6</td>
<td>916.1</td>
</tr>
<tr>
<td>124.5</td>
<td>109.25</td>
<td>159.5</td>
<td>393.25</td>
</tr>
</tbody>
</table>

* Subject to limitation of 1.5 ac-ft per ac of approved land irrigated.

PUMPING PLANT TESTING, INC.

Reviewed by: [Signature]
Professional Engineer

RECEIVED

JUN 19 1967
WATER RESOURCES
RECEIVED

JUN 29 2015
KS DEPT OF AGRICULTURE
DIVISION TER RESOURCES—KANSAS STATE BOARD OF AGRICULTURE
FIELD INSPECTION REPORT

Test 2 of 3 Diversion points

Application No. 21236

Date 9-30-86

Firm/Field Office Pumping Plant Testing, Inc.

Inspector Elmer Hansen

Field Area No. 2

G.M.D. No. 5

County, Edwards


Address: Box 1162, North Platte, NE 69103

Acre, Jerry Weaver

Water Use Classification: 1. Domestic ( ) 2. Industrial ( ) 3. Irrigation


Groundwater / Drainage Basin: Artesian River

Surface Water ( ) Stream

Authorized Point of Diversion: Sec. 32, T. 25, R. 19

Approximately __________________ ft. North and __________________ ft. West of SE corner of Sec. ________

Actual Point of Diversion: Sec. 32, T. 25, R. 19

Approximately 4026 ft. North and 5766 ft. West of SE corner of Sec. 32

How were distances determined? ___________________________

"Approved" Quantity: 834 AF

"Approved" Diversion Rate: 2400 g.p.m. (5.35 c.f.s.)

Priority Date: Jan 2, 1974

Approval of Application Date: Feb 27, 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>TOTAL ACRES</th>
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<tr>
<td>32</td>
<td>25</td>
<td>19</td>
<td>31/4</td>
<td>31/4</td>
<td>31/4</td>
<td>31/4</td>
<td>3/4 2 1 3/3</td>
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<td></td>
<td></td>
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LAND IRRIGATED—YEAR OF RECORD 1985

SEE ATTACHED SHEET

Applications of Water: SEE ATTACHED SHEET

Year of Record: 1985

Hours Pumped: 1850

For D.W.R. Use Only

Year of Record: 1985

Extension of time requested: Yes __ No __

Total No. of Hours on land covered by this application: 1850

Ac. Ft. Applied = 1850 hr. x 712 g.p.m. x 4.419 = 243 AF

Acres of "Approved" Land irrigated: 243

Ac. Ft. on "Approved" Land: 243

Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less: 243

Perfected Rate: 715 g.p.m. Perfected Quantity: 188 AF

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

SCANNED

HAY:001369

Revised March 1986
CENTRAL INFORMATION ON IRRIGATION SYSTEM:

Manufacturer: Olson  Model: 103 PL  Serial No: 3977

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. Toro

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:

Manufacturer:  Model:  Serial No:

Unusual Conditions/Other Info:

POWER UNIT INFORMATION:

Manufacturer: Ford  Model No: 300  HP:

Serial No: 1894- K-29-70  Fuel: Natural Gas  Rated RPM:

PUMP INFORMATION:

Manufacturer: Jacuzzi  Model No: LGC/T-628  Rated RPM:

Serial No: 677 22160  Type: Vertical Turbine  No. stages:

GEAR HEAD INFORMATION:

Manufacturer: Randolph  Model No:  Serial No:

Drive: Ratio:

WELL INFORMATION: Records of well not available to owner's representative.


Tape Down Possible?  Yes  Water Level Measurement Tube:

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

WATER RESOURCES RECEIVED

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.

SCANNED  JUN 29 2015
**SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM.**

(Indicate distribution system layout at time of field test).

![Diagram of a sketch showing scale with 1 inch equal to approximately 7.64 feet.]

**TEST OF DIVERSION RATE:**

Length of time well has been operating prior to test [ ]

Location of test: [ ]

Pipe Diameter (I.D.): [ ]

### Test No. 1—Normal Conditions

<table>
<thead>
<tr>
<th>R.P.M. POWER UNIT</th>
<th>R.P.M. PUMP UNIT</th>
<th>Pressure at Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>1715</td>
<td>53</td>
<td>psi</td>
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</tbody>
</table>

### Test No. 2—Maximum Conditions

<table>
<thead>
<tr>
<th>R.P.M. POWER UNIT</th>
<th>R.P.M. PUMP UNIT</th>
<th>Pressure at Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>psi</td>
</tr>
</tbody>
</table>

☐ Jacuzzi Meter Test

Meter Identification No.: [ ]

Area Constant \( K = 2.45 \times \text{I.D.} \times \) [ ]

\[ Q \text{ (gpm)} = VK \]

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
<td>4.</td>
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<tr>
<td>5.</td>
<td>6.</td>
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<tr>
<td>7.</td>
<td>8.</td>
</tr>
<tr>
<td>9.</td>
<td>10.</td>
</tr>
</tbody>
</table>

Total: [ ]

Avg: [ ]

G.P.M.: [ ]

☐ Propeller Meter Test

Manufacturer: [ ]

Model: [ ]

Serial No.: [ ]

<table>
<thead>
<tr>
<th>Meter Diameter</th>
<th>Maximum Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] inches</td>
<td></td>
</tr>
</tbody>
</table>

Ending: [ ] gal.

Beginning: [ ] gal.

Difference: [ ] gal.

Time: [ ] min.

Rate: [ ] gpm

☐ Other Flow Meter

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

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS001310

SCANNED
**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: kw-hr = \\

- **Other Fuels**
  - Type: Natural Gas
  - Supplier: Kansas-Nebraska
  - Rate: Volume (test) = time
  - How was the test volume determined? Not Determined

**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>1974</td>
<td>1128</td>
<td>1000</td>
<td></td>
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<tr>
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<td>750**</td>
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<td>1750**</td>
<td>800**</td>
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<td>*1985</td>
<td>1850**</td>
<td>712*</td>
<td>125**</td>
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<tr>
<td>1986</td>
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</tbody>
</table>

* Obtained from test on 9/30/86
** Obtained from WUR sent to us from Jerry Weaver

**WATER USE RECORD**

- **Indicate Year of Record with (*)**
- **Source of Information:** Stafford Files
- **Crops Irrigated:** 
  - This year: wheat
  - Year of record: alfalfa

**REMARKS:** See attached sheet for logic in determining

- **Year of record:**

**WATER RESOURCES RECEIVED**

**JUN 29 2015**

- **Person present at test:** Kent Naber (Irrigation Manager)
- **Water Use Correspondent:** Kyle Kolbeck (Spearsville, KS 67876, 716-385-2803)
- **Conducted by:** (Signature) Date: 10/12/86
- **Approved by:** (Signature) Date: 1/15/87

**HAYS001311**

**SCANNED**
APPLICATION NO: 21732  NAME: Connecticut General

COLLINS METER TEST  NC  N W 1/4

Collins Meter No. 1-83  Meter Calibration Factor 0.9559
Pipe Inside Diameter (inches) 7 3/8  Flow Rate Factor 145.4
Test Pressure (psi) 5.3  Test RPM, Pump 1718

Description of Test Location: In vertical pipe inside pivot stand

TEST DATA:

<table>
<thead>
<tr>
<th>Meter Setting From Center of Pipe</th>
<th>Left Side of Pipe (or Front Side if Vertical Test)</th>
<th>Right Side of Pipe (or Back Side if Vertical Test)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3/4</td>
<td>4.83</td>
<td>4.86</td>
</tr>
<tr>
<td>2 3/4</td>
<td>4.63</td>
<td>4.70</td>
</tr>
<tr>
<td>3 3/4</td>
<td>2.95</td>
<td>-3.82</td>
</tr>
</tbody>
</table>

Average Velocity of Water = Sum of Vel. ÷ 12 = 5.12

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 5.12 x 0.9559 = 4.996

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 4.996 x 145.4 = 712 GPM

Water Resources Received

PUMPING PLANT TESTING, INC.

Reviewed By: Professional Engineer

HAYS001312

JUN 9 9 2015
KS DEPT OF AGRICULTURE
APPLICATION NO: 21,732

NAME: CONNECTICUT GENERAL LIFE INSURANCE CO, INC.

NOTES ON CHOOSING A YEAR OF RECORD

THIS DEVELOPMENT WASUpDown SEVERAL OWNERS SINCE ITS INCEPTION IN 1975, WITH OWNERS FROM EUROPE & AROUND THE U.S. AT VARIOUS TIMES; A STATE OF CONFUSION HAS EXISTED IN THE CROP PRODUCTION RECORD. ALL OF THE WATER USE AND EQUIPMENT RECORDS HAVE BEEN AT TIMES 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.
FIELD INSPECTION REPORT

Test 3 of 3 Diversion points

Application No. 21732 Date 9/30/86 Firm/Field Office Pumps/Plant Testing, Inc.

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

Current Landowner: Connecticut General Life Insurance Agri. Affiliates

Address Box 112 North Platte, NE 69103 Attn ferry Weaver

Water Use Classification: 1. Domestic ( ) 2. Industrial ( ) 3. Irrigation ( )

Groundwater ( ) Drainage Basin Arkansas River

Surface Water ( ) Stream

Authorized Point of Diversion: NC 5/2 Sec 32 T 25 R 19
Approximately ft. North and ft. West of SE corner of Sec.

Actual Point of Diversion: NC 5/2 Sec 32 T 25 R 19
Approximately 1441 ft. North and 263.2 ft. West of SE corner of Sec.

HOW WERE DISTANCES DETERMINED? Scaled from ACS photo

"Approved" Quantity: 834 AF "Approved" Diversion Rate: 2400 g.p.m. (1.85 c.f.s.)

Priority Date Jan 2, 1974 Approval of Application Date Feb 27, 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:

<p>| | | | | | | | | |</p>
<table>
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LAND IRRIGATED—YEAR OF RECORD 1985

<p>| | | | | | | | | |</p>
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</tbody>
</table>

APPLICATION OF WATER:

Year of Record 1985 Normal Operating G.P.M. 885

Maximum Operating G.P.M. 885 Equiv. c.f.s. 1.97

Year of Record 1985 Extension of time requested: Yes No

Total No. of Hours on land covered by this application 1900

Ac. Ft. Applied 1900 hrs. × 885 g.p.m. × 4.419 = 310 AF

Acres of "Approved" Land irrigated 160

Ac. Ft. on "Approved" Land 310 (0.74 Ac. Ft./Ac.)

Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less 310

Proration Calculations 160 acres irrigated × 1.5 AF per acre = 240 AF

Perfected Rate 885 g.p.m. Perfected Quantity 240 AF

WATER RESOURCES RECEIVED JUN 29 2015

KS DEPT OF AGRICULTURE

THAYDS1054

SCANNED

Revised March 1996
GENERAL INFORMATION ON IRRIGATION SYSTEM:

☒ Center Pivot ☐ High Pressure ☒ Low Pressure

Manufacturer: Olson  Model: 103  Serial No.: 3809

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. 700

Is end gun operating during test?: yes

☐ Gravity Irrigation (show test set on sketch)

Number of gates open: 

Normal Pipe Size: 

Pressure at pump: p.s.i.

☐ Other  Type: 

Manufacturer:  Model:  Serial No.: 

Unusual Conditions/Other Info.: 

POWER UNIT INFORMATION:

Manufacturer: Ford  Model No.: 460  HP: 

Serial No.:  Fuel: Natural Gas  Rated RPM: 

PUMP INFORMATION:

Manufacturer: Johnston  Model No.: 

Rated RPM: 

Serial No.: CF21233  Type: Vertical Turbine  No. stages: 

GEAR HEAD INFORMATION:

Manufacturer: Amarillo  Model No.: 580 

Serial No.: 87937  Drive: Right Angle  Ratio: 5:1

WELL INFORMATION: No records available from Owner's Representative

Date Drilled: 1979  Original Depth: __ ft.  Static Water Level When Drilled: __ ft.

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

Measuring Point: __ ft. above or below L.S.D.

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS001315

SCANNED

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

![Sketch of distribution system layout](image.com)

**TEST OF DIVERSION RATE:**

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

Location of test: In horizontal pipe between pump and pivot

Pipe Diameter (I.D.): 8\(\frac{7}{8}\) inches

**Test No. 1—Normal Conditions**

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<tr>
<th>R.P.M. POWER UNIT</th>
<th>2190</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.P.M. PUMP UNIT</td>
<td>1752</td>
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<tr>
<td>Pressure at Pump</td>
<td>61   psi</td>
</tr>
</tbody>
</table>

**Test No. 2—Maximum Conditions**

| R.P.M. POWER UNIT | | |
|-------------------|---|
| R.P.M. PUMP UNIT  | | |
| Pressure at Pump  | | psi |

**Jaekuzzi Meter Test**

<table>
<thead>
<tr>
<th>Meter Identification No.</th>
<th></th>
</tr>
</thead>
</table>

**Area Constant**

\(K = 2.45 \times \text{I.D.}^4\)

\(Q \text{ (gpm)} = VK\)

**Velocity (fps)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Velocity (fps)</th>
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<td>9</td>
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</tbody>
</table>

**Total**

**Avg.**

**G.P.M.**

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

**Propeller Meter Test**

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<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial No.</th>
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**Meter Diameter**

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<th>Diameter</th>
<th>Diameter</th>
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**Ending**

<table>
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<tr>
<th>Time (min.)</th>
<th>Rate (gpm)</th>
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</thead>
</table>

**Beginning**

<table>
<thead>
<tr>
<th>Time (min.)</th>
<th>Rate (gpm)</th>
</tr>
</thead>
</table>

**Difference**

<table>
<thead>
<tr>
<th>Time (min.)</th>
<th>Rate (gpm)</th>
</tr>
</thead>
</table>

**Other Flow Meter**

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

**WATER RESOURCES RECEIVED**

JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS001316

SCANNED
FUEL RECORDS:

- Electricity
- Supplier
- Meter Manufacturer
- Type
- Serial No.
- K
- Watt/rev
- revolutions
- seconds

Rate = \( \frac{K \times 3.6}{t} \) = kw/hr
Hours = \( \frac{kw \cdot hr}{rate} \)

Other Fuels
Type: Natural Gas
Supplier: Kansas-Nebraska

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

How was the test volume determined?: Not Determined
Engine set 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>
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<tbody>
<tr>
<td>1974</td>
<td>2328</td>
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<tr>
<td>1986</td>
<td></td>
<td>885*</td>
<td></td>
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</tr>
</tbody>
</table>

*Obtained from test on 9/26/86
**Obtained from WIR sent to us from Jerry Weaver

Indicate Year of Record with (*)

Source of Information: Staff and Files

Crops Irrigated: this year: Soybeans
Year of record: 1985

REMARKS: See attached sheet for logic in choosing a year of record.

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JUN 29 2015

KS DEPT OF AGRICULTURE

Person present at test: Kent Naber
Irrigation Manager

Water Use Correspondent: Lyle Kolbeek
Sparcille, KS 67876
316-385-5803

Conducted by: [Signature]
Date: 10/8/86

Approved by: [Signature]
Date: 11/15/87

HAYS001317

SCANNED
APPLICATION NO: 21732  NAME: Connecticut General Life Insurance

COLLINS METER TEST NC 5½

Collins Meter No. 1-85  Meter Calibration Factor 98.2
Pipe Inside Diameter (inches) 8¼  Flow Rate Factor 165.3
Test Pressure (psi) 61  Test RPM, Pump 175.2
Description of Test Location In horizontal pipe between pump and ejector

TEST DATA:  q Check, Initial 6.03  Reversed 6.02

<table>
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<tr>
<th>Meter Setting From Center of Pipe</th>
<th>Velocity</th>
<th>Left Side of Pipe</th>
<th>Right Side of Pipe</th>
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Average Velocity of Water = Sum of Vel. ÷ 12 = 5.45

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 5.45 x 98.2 = 535.5

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 535.5 x 165.3 = 88.5 GPM
APPLICATION NO: 21732

NAME: CONNECTICUT GENERAL LIFE INSURANCE CO, INC.

NOTES ON CHOOSING A YEAR OF RECORD

This development was held by several owners since its inception in 1975, with owners from various times and locations. At various times, a state of confusion existed in the crop production report. All of the water use and equipment records have been either destroyed or lost, and the systems and pumping plant components have been interchanged over the years.

Since late 1983, Connecticut General has made a diligent effort to keep good records. There are, however, it would seem reasonable to use the years since 1983 in choosing a year of record.

PUMPING PLANT TESTING, INC.

Reviewed by: [Signature] HAYS001319
Professional Engineer

Page 35 of 57
THE STATE OF KANSAS

STATE BOARD OF AGRICULTURE

Sam Brownback, Secretary

DIVISION OF WATER RESOURCES

David L. Pope, Chief Engineer-Director

CERTIFICATE OF APPROPRIATION

FOR BENEFICIAL USE OF WATER

WATER RIGHT, File No. 21,732

PRIORITY DATE January 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 three (3) wells: one (1) well located near the center of the Northeast Quarter (NEQ) of Section 32, more particularly described as being near a point 4,019 feet North and 1,358 feet West of the Southeast corner of said section, at a diversion rate not in excess of 780 gallons per minute (1.74 c.f.s.) and in a quantity not to exceed 165 acre-feet per calendar year; one (1) well located near the center of the Northwest Quarter (NWQ) of Section 32, more particularly described as being near a point 4,026 feet North and 3,966 feet West of the Southeast corner of said section, at a diversion rate not in excess of 715 gallons per minute (1.59 c.f.s.) and in a quantity not to exceed 188 acre-feet per calendar year; and one (1) well located near the center of the

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

RECEIVED 21732

Page 37 of 57

MICROFILMED

SCANNED
Re: File No. 21,732

South Half (5%) of Section 32, more particularly described as being near a point 1,441 feet North and 2,632 feet West of the Southeast corner of said section, at a diversion rate not in excess of 885 gallons per minute (1.97 c.f.s.) and in a quantity not to exceed 240 acre-feet per calendar year, all in Township 25 South, Range 19 West, Edwards County, Kansas, for irrigation use on the following described property:

31.25 acres in the Northeast Quarter of the Northeast Quarter (NE NW NE NE),
31.25 acres in the Northwest Quarter of the Northeast Quarter (NW NW NE NE),
38.25 acres in the Southwest Quarter of the Northeast Quarter (SW NW NE NE),
31.25 acres in the Southeast Quarter of the Northeast Quarter (SE NW NE NE),
31.25 acres in the Northwest Quarter of the Northeast Quarter (NW NW NW NW),
31.25 acres in the Southwest Quarter of the Northwest Quarter (SW NW NW NW),
37.25 acres in the Southwest Quarter of the Northwest Quarter (SE NW NW NW),
38.00 acres in the Northeast Quarter of the Southwest Quarter (NE SW NW NW),
2.00 acres in the Northwest Quarter of the Southwest Quarter (NW SW NW NW),
1.00 acre in the Southwest Quarter of the Southwest Quarter (SW SW NW NW),
33.00 acres in the Southwest Quarter of the Southwest Quarter (NW SW SW SW),
4.00 acres in the Northeast Quarter of the Southwest Quarter (SE SW SW SW),
39.00 acres in the Northwest Quarter of the Southwest Quarter (NW SW SW SW),
35.00 acres in the Southwest Quarter of the Southwest Quarter (SW SW SW SW),
2.00 acres in the Southwest Quarter of the Southwest Quarter (SW SW SW SW),

a total of 417.00 acres in Section 32, Township 25 South, Range 19 West, Edwards County, Kansas.

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 by March 1 of each year following.

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

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.

WATER RESOURCES
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JUN 29 2015
KS DEPT OF AGRICULTURE

MICROFILMED
HAYS001337

RECEIVED
JUN 19 1987
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 5th day of June 1987.

[Signature]

State of Kansas  
County of Shawnee

The foregoing instrument was acknowledged before me this 5th day of
June 1987, by David L. Pope, P.E., Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture.

[Signature]

Notary Public

Appointments expires: March 1, 1990

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JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS001338

SCANNED
KANSAS STATE BOARD OF AGRICULTURE  
Division of Water Resources

MEMORANDUM

To: Files  
From: Douglas E. Bush  
Date: March 19, 1987  
Re: Appropriation of Water  
File No. 21,732

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

The quantities for wells covered by the above referenced file were calculated as such:

Well near the center of the Northeast Quarter (NE¼), 1,850 hours x 776 gallons per minute x 0.0001841 = 265 acre-feet. 110 acres irrigated x 1.5 acre-feet per acre = 165 acre-feet.

Well near the center of the Northwest Quarter (NW¼), 1,850 hours x 712 gallons per minute x 0.0001841 = 243 acre-feet. 125 acres irrigated x 1.5 acre-feet per acre = 188 acre-feet.

Well near the center of the South Half (SH), 1,850 hours x 885 gallons per minute x 0.0001841 = 310 acre-feet. 160 acres irrigated x 1.5 acre-feet per acre = 240 acre-feet.

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 of Agri Affiliates.

Douglas E. Bush  
Hydrologist

DEB:jt

WATER RESOURCES RECEIVED  
JUN 29 2015  
KS DEPT OF AGRICULTURE

MICROFILMED  
HAYS001332  
SCANNED

21732  
Page 40 of 57
March 25, 1982

Slentz-McAllaster Inc.
P O Box 38
Lewis, 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 2278 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.
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**WATER RESOURCES RECEIVED**

**JUN 29 2015**

**KS DEPT OF AGRICULTURE**

Page 42 of 57
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|      | 3rd  | 167 | 209 |      | 3rd  | 42  |
|      | 4th  | 82  | 102 |      | 4th  | 20  |
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|      | 3rd  | 162 | 202 |      | 3rd  | 40  |
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|      | 3rd  | 257 | 321 |      | 3rd  | 64  |
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|      | 3rd  | 50  | 63  |      | 3rd  | 13  |
| #30  | 1st  | 126 | 158 | #30  | 1st  | 32  |
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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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<tr>
<td></td>
<td>5</td>
<td>4th</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>1st</td>
<td>26</td>
</tr>
<tr>
<td>2-4</td>
<td>7</td>
<td>1st</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>2nd</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>3rd</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>1st</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>2nd</td>
<td>14</td>
</tr>
<tr>
<td>2-22</td>
<td>30</td>
<td>2nd</td>
<td>52</td>
</tr>
</tbody>
</table>

**WATER RESOURCES RECEIVED**

**JUN 29 2015**

**KS DEPT OF AGRICULTURE**

**HAYS004452**

**SCANNED**
<table>
<thead>
<tr>
<th>DATE</th>
<th>CIRCLE #</th>
<th>CUTTING</th>
<th>AMOUNT OF BALES TAKEN</th>
<th>TONS PER SCALE TICKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-24</td>
<td>38</td>
<td>1st</td>
<td>26</td>
<td>23.75</td>
</tr>
<tr>
<td>3-9</td>
<td>7</td>
<td>2nd</td>
<td>30</td>
<td>21.64</td>
</tr>
<tr>
<td>3-10</td>
<td>10</td>
<td>3rd</td>
<td>5</td>
<td>3.95</td>
</tr>
<tr>
<td>3-15</td>
<td>11</td>
<td>4th</td>
<td>25</td>
<td>23.60</td>
</tr>
<tr>
<td>3-17</td>
<td>7</td>
<td>2nd</td>
<td>5</td>
<td>4.61</td>
</tr>
</tbody>
</table>

\[
\begin{align*}
(\text{This does not include hay taken this week) } & \frac{3/25/92}{22.75} \quad 2.035.58
\end{align*}
\]
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>
<thead>
<tr>
<th>Area, Place of use</th>
<th>Max. Allowable Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 10 acres</td>
<td>450 g.p.m.</td>
</tr>
<tr>
<td>10 - 40 acres</td>
<td>(+) 450 g.p.m.</td>
</tr>
<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>
</tr>
</tbody>
</table>

EXAMPLES:

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

B. 83 acres requested;

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

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 RECEIVED
JUN 29 2015
SCANNED

KS DEPT OF AGRICULTURE
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.
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>684,559,000</td>
<td>10,808,000</td>
<td>595,254,000</td>
<td>16,327,000</td>
<td>62,172,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL WATER = Columns 1 + 2

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

UNACCOUNTED FOR WATER

Column 1: The amount of raw water diverted from all of your points of diversion.

Column 2: The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office.

Column 3: The amount of water sold wholesale to all other public water supply systems.

Column 4: The amount of water sold retail to all industrial, pasture, stockwater, feedlot, and bulk water service connections. Include the amount of water sold to all farmsteads using at least 200,000 gallons of water per year.

Column 5: The amount of water sold retail to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year.

Column 6: The amount of water used that is metered at individual service connections and supplied free, such as for public service, treatment processes, and connections receiving free water.

Column 7: The amount of remaining water used. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6.

UNACCOUNTED FOR WATER

Use the following to calculate your distribution system's Unaccounted For Water:

Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Columns 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

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

Percent Unaccounted For Water = Unaccounted For Water x 100
Total Water (Columns 1.2)

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>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>
</tr>
<tr>
<td>10 years ago</td>
<td>592,323,000</td>
<td>5,029,000</td>
<td>469,314,000</td>
<td>5,155,000</td>
<td>112,825,000</td>
<td></td>
</tr>
<tr>
<td>15 years ago</td>
<td>780,527,000</td>
<td>10,819,000</td>
<td>587,865,000</td>
<td>10,470,000</td>
<td>171,473,000</td>
<td></td>
</tr>
<tr>
<td>10 years ago</td>
<td>706,926,000</td>
<td>7,103,000</td>
<td>839,222,000</td>
<td>20,861,000</td>
<td>39,740,000</td>
<td></td>
</tr>
<tr>
<td>5 years ago</td>
<td>693,966,000</td>
<td>13,537,000</td>
<td>581,900,000</td>
<td>19,362,000</td>
<td>114,383,000</td>
<td></td>
</tr>
</tbody>
</table>

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:

<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>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>11,866,600</td>
<td>654,779,400</td>
<td>17,059,700</td>
<td>66,389,200</td>
<td></td>
</tr>
<tr>
<td>Year 10</td>
<td>828,316,300</td>
<td></td>
<td>13,075,260</td>
<td>720,257,340</td>
<td>19,755,570</td>
<td>76,228,120</td>
<td></td>
</tr>
<tr>
<td>Year 15</td>
<td>911,148,029</td>
<td></td>
<td>14,382,768</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>1,002,262,632</td>
<td></td>
<td>15,821,065</td>
<td>871,511,381</td>
<td>23,904,361</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>17,836</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:

<table>
<thead>
<tr>
<th>6,824</th>
<th>Residential</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,256</td>
<td>Commercial</td>
</tr>
<tr>
<td></td>
<td>Industrial</td>
</tr>
<tr>
<td></td>
<td>Pasture/Stockwater/Feedlot</td>
</tr>
<tr>
<td></td>
<td>Other (specify)</td>
</tr>
<tr>
<td>8,082</td>
<td>Total</td>
</tr>
</tbody>
</table>

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>WATER RESOURCES RECEIVED</th>
<th>Calculations</th>
<th>Gallons per Person per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>673,753,000</td>
<td>+ 21,038</td>
<td>365 Days/Year = 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.
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>
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<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>327,284,100</td>
<td>0</td>
<td>0</td>
<td>105,295,000</td>
<td>108,743,000</td>
<td>19,944,000</td>
<td>83,308,100</td>
</tr>
<tr>
<td>TOTAL WATER = Columns 1 + 2</td>
<td>ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6</td>
<td>UNACCOUNTED FOR WATER</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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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:

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

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.

<table>
<thead>
<tr>
<th>20 years ago</th>
<th>15 years ago</th>
<th>10 years ago</th>
<th>5 years ago</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>
</tr>
<tr>
<td>373,757,000</td>
<td>0</td>
<td>0</td>
<td>171,928,220</td>
</tr>
<tr>
<td>477,486,000</td>
<td>0</td>
<td>0</td>
<td>222,781,000</td>
</tr>
<tr>
<td>375,790,000</td>
<td>0</td>
<td>0</td>
<td>144,277,000</td>
</tr>
<tr>
<td>TOTAL WATER = Columns 1 + 2</td>
<td>ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6</td>
<td>UNACCOUNTED FOR WATER</td>
<td></td>
</tr>
<tr>
<td>115,864,670</td>
<td>18,687,850</td>
<td>67,276,260</td>
<td></td>
</tr>
<tr>
<td>147,340,000</td>
<td>19,483,000</td>
<td>87,882,000</td>
<td></td>
</tr>
<tr>
<td>123,343,000</td>
<td>18,807,000</td>
<td>89,263,000</td>
<td></td>
</tr>
</tbody>
</table>

DWR 1-0199-04 (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></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</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Under Your Rights</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From All Sources</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 5</td>
<td>386,346,512</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>185,536,377</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>80,999,052</td>
</tr>
<tr>
<td>Year 20</td>
<td>443,848,022</td>
<td>0</td>
<td>0</td>
<td>204,170,090</td>
<td>137,592,887</td>
<td>17,753,921</td>
<td>84,331,124</td>
</tr>
<tr>
<td>TOTAL WATER = Columns 1 + 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNACCOUNTED FOR WATER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>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>

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>4,566</td>
</tr>
<tr>
<td>Year 10</td>
<td>4,605</td>
</tr>
<tr>
<td>Year 15</td>
<td>4,651</td>
</tr>
<tr>
<td>Year 20</td>
<td>4,698</td>
</tr>
</tbody>
</table>

Provide number of current active service connections:

<table>
<thead>
<tr>
<th>Residential</th>
<th>2,049</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td>360</td>
</tr>
<tr>
<td>Industrial</td>
<td>9</td>
</tr>
<tr>
<td>Pasture/Stockwater/Feedlot</td>
<td>0</td>
</tr>
</tbody>
</table>

Other (specify) Free Service | 30 | 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

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

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