# KANSAS DEPARTMENT OF AGRICULTURE DIVISION OF WATER RESOURCES MEMORANDUM

TO:

File

DATE:

May 1, 2018

FROM:

**Amber Herring** 

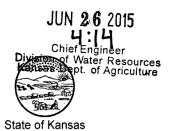
SUBJECT:

**Date Stamping Mail** 

On Friday, June 26<sup>th</sup>, 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 29<sup>th</sup>**, **2015**. Thus, the June 29<sup>th</sup> date is the correct date and time received by the **Division of Water Resources**.

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

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



Filing Fee Must Accompany the Application

(Please refer to Fee Schedule on signature page of application form.)

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

1	David. W. Bartield, DE.  Application is hereby made for approval of the Chief Engineer to change the RECEIVED
1.	IIIN 9 8 2015
	(Check one or more) Point of Diversion
	Use Made of Water Division of Water Resources  Kansas Dept. of Agriculture  S 25  S DEPT OF AGRICULTUR
	File No 22,332 Circle 23.
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)
<u> </u>	
F.0	or Office Use Only:  O. 2 GMD 5 Meets K.A.R. 5-5-1 (YES / NO) Use IRR Source GYS County ED By KAB Date (1991) E  Orde C-3 Fee \$ 780 TR # Receipt Date (1921) 5 Check # 058328
	of 21000-15053309
DΙΛ	VR 1-120 (Revised 06/16/2014)  Assisted by:  SCANNED

6/30/2015 WM

File No. <u>22,332</u>

4.	The	nracantly	authorized	nlace of	fued ie
4.	me	presently	, authonzeu	place of	use is.

Owner of Land — NAME: City of Hays, Kansas

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

					. NE	<b>E</b> 1∕4			NW¼				sv	V1/4			TOTAL			
-	Sec.	Twp.	Range	NE1⁄4	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	NE¼	NW¼	SW1/4	SE1/4	NE1/4	NW¼	SW1/4	SE1/4	ACRES
	2-T2	6S-R	20W													30	Lot 8 32	32	31	125
		4																		

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

				NE	<u>1/4</u>			NW¼				SV	V1/4		SE¼				TOTAL ACRES
Sec.	Twp.	Range	NE1⁄4	NW¼	SW1/4	SE1⁄4	NE¼	NW¼	SW1/4	SE1/4	NE1⁄4	NW⅓	SW1/4	SE1/4	NE1/4	NW¼	SW1/4	SE1⁄4	
				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: <u>City of Hays, Kansas</u>

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

				NE	1/4			NW¼				sv	V1/4		SE¼				TOTAL
Sec.	Twp.	Range	NE1⁄4	NW¼	SW1/4	SE1/4	NE1⁄4	NW1⁄4	SW1/4	SE1/4	NE¼	NW1/4	SW1/4	SE¼	NE1⁄4	NW¼	SW1/4	SE1/4	ACRES
			The (	ne City of Hays, Kansas and its immediate vicinity and other locations as more															
			fully	ully 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

				NE	1/4			NV	V1/4			sv	V1/4			SE	1/4		TOTAL
Sec.	Twp.	Range	NE1⁄4	NW¼	SW1⁄4	SE1/4	NE1/4	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	ACRES
			The C	City o	f Rus	sell,	Kans	as an	d its i	mmed	diate	vicini	ity an	d oth	er loc	ation	s as n	nore	
			fully	descr	ibed	in pai	agrap	oh 5 d	of the	cove	r lette	r.	-					ŀ	
						•	0 1											}	
																			<del></del>

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 NECESSARYRESOURCES RECEIVED

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6. The presently authorized point(s) of diversion (is) (are) irrigation well(s) described in paragraph 8, infra. 7. The proposed point(s) of diversion (is) (are) one or more municipal wells; see paragraph 7 of the cover letter. (Provide description and number of points) List all presently authorized point(s) of diversion: Presently authorized point of diversion: One in the \_\_\_\_\_ near the center \_\_\_ Quarter of the \_\_\_\_\_ \_\_\_\_ Quarter of the \_\_\_\_ of Section \_\_\_\_\_\_, Township \_\_\_\_\_ South, Range 20 (K/W), in Edwards County, Kansas, 1,407 feet North 1,330 feet West of Southeast corner of section. Authorized Rate 655 gpm Authorized Quantity 111 a/f (DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_ feet North \_\_\_\_ feet West) Proposed point of diversion: (Complete only if change is requested) One in the \_\_\_\_\_\_NE \_\_\_\_Quarter of the \_\_\_\_\_SW \_\_\_Quarter of the \_\_\_\_SW \_\_Quarter in Edwards County, Kansas, 1,341 feet North 4,056 feet West of Southeast corner of section. Proposed Rate 980 gpm Proposed Quantity 166.32 a/f This point is:  $\square$  Additional Well  $\square$  Geo Center List other water rights that will use this point 22,329-32;30,084Presently authorized point of diversion: One in the <u>near the center</u> Quarter of the <u>E/2</u> Quarter of the <u>SE</u> Quarter of Section <u>2</u> , Township <u>26</u> South, Range <u>20</u> ( $\cancel{\mathbb{K}}$ /W), in \_\_\_\_\_Edwards \_\_\_\_County, Kansas, \_\_\_1,342 \_\_ feet North \_\_\_\_797\_\_\_ feet West of Southeast corner of section. Authorized Rate 460 gpm Authorized Quantity 77 a/f (DWR use only: Computer ID No. \_\_\_\_\_ feet West) ☐ This point will not be changed ☐ This point will be changed as follows: Proposed point of diversion: (Complete only if change is requested) One in the \_\_\_\_\_\_ NE \_\_\_\_ Quarter of the \_\_\_\_\_ SW \_\_\_\_ Quarter of the \_\_\_\_ SW in Edwards County, Kansas, 1,341 feet North 4,056 feet West of Southeast corner of section. Proposed Rate 980 gpm Proposed Quantity 166.32 a/f This point is: Additional Well Geo Center List other water rights that will use this point 22,329-32; 30,084 Presently authorized point of diversion: One in the \_\_\_\_\_ Quarter of the \_\_\_\_ Quarter of the \_\_\_\_ Quarter of Section \_\_\_\_, Township \_\_\_\_ South, Range \_\_\_\_ (E/W), in \_\_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section. Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_ (DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_ feet West) ☐ This point will not be changed ☐ This point will be changed as follows: Proposed point of diversion: (Complete only if change is requested) One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section. Proposed Rate Proposed Quantity This point is: Additional Well Geo Center List other water rights that will use this point \_ 11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. \_\_\_ See paragraph 11 of the cover letter.

> IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY RECEIVED JUN **2 9** 2015

File No22,332
rposes.
purposes.
se will not be increased. municipal use and paragraph
able (acre-feet or million gallons).
<u>ole</u> gallons per minute ( c.f.s.).
gical Survey Topographic Map, scale ie, University of Kansas, Lawrence, ently authorized point(s) of diversion. The presently authorized place of use on corners and show the appropriate must also be shown on the map.
of the Southeast corner of the section grees with the information shown in
g water wells of any kind, including I as to its use and furnish name and mile, please indicate so on the map. all landowner(s) ½ mile downstream
osshatching on the map. Please be Paragraph No. 5 of the application.
water rights and relates to the same e statements, plats, geology reports, bove. Additional comments may be

12.	The	pre	esently authorized use of water is for <u>irrigation</u> purposes.
	It is	pro	posed that the use be changed to <u>municipal</u> purposes.
13.		_	ging the place of use and/or use made of water, describe how the consumptive use will not be increased.  E attached discussion regarding the quantity of water to be changed to municipal use and paragraph
	<u>13 c</u>	of tl	ne cover letter.
			· · · · · · · · · · · · · · · · · · ·
	(Plea	ase s	show any calculations here.)
14.	It is	req	uested that the maximum annual quantity of water be reduced to <u>not applicable</u> (acre-feet or million gallons).
15.	It is	req	uested that the maximum rate of diversion of water be reduced to not applicable gallons per minute ( c.f.s.).
16.	1:24 Kan Dist	1,00 sas anc uld	olication must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 0, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, 66047-3726 ( <a href="https://www.usgs.gov">www.usgs.gov</a> ). The map should show the location of the presently authorized point(s) of diversion es North and West of the Southeast corner of the section must be shown. The presently authorized place of use also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate township, and range numbers on the map. In addition the following information must also be shown on the map.
	a.	lf 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 $\frac{1}{2}$ mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within $\frac{1}{2}$ mile, please indicate so on the map.
		3)	If the source of supply is surface water, the names and mailing addresses of all landowner(s) $\frac{1}{2}$ mile downstream and $\frac{1}{2}$ mile upstream from your property lines must be shown.
	b.		change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be tain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.
17.	loca well	l so log	documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same urce of supply as to which the water right relates. This information may include statements, plats, geology reports, s, test hole logs, and other information as necessary information to show the above. Additional comments may be elow.
	See	e pa	ragraph 17 of the cover letter.
18.	iden requ will	itify iest not	oposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the should be granted. Attach documentation showing that granting the request will not impair existing water rights and prejudicially and unreasonably affect the public interest.  Transparaph 7 of the cover letter.
		- P*	

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSAR RECEIVED

File No.	22,332	

Any use of water that is not as authorized by the water right or permit to authorize water <u>before</u> 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 a authorized to make this application on their behalf, and declare furth complete. By filing this application I authorize the chief engineer to pe as specified in sections 14 and 15 of this application.	er that the statements contained herein are true, correct, and
Dated at Russell Russell County Kansas, this	<u>23rd</u> day of <u>June</u> , 20 <u>15</u> .
(Owner)	(Spouse)
City of Hays, Kansas, by Toby Dougherty, City Manager (Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)  State of Kansas  County of Russell  I hereby certify that the foregoing application was signed in my p	
My Commission Expires	Malinda Morse Notary Public
FEE SCHEDU	<u>JLE</u>
Each application to change the place of use, the point of diversion or the use application fee set forth in the schedule below:	made of the water under this section shall be accompanied by the
<ul> <li>(1) Application to change a point of diversion 300 feet or less</li> <li>(2) Application to change a point of diversion more than 300 feet</li> <li>(3) Application to change the place of use</li> <li>(4) Application to change the use made of the water</li> </ul>	
Make check payable to Kansas Department of Agriculture.	WATER RESOURCES
	TALLI ILGOUNOLO

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File No.	22,332

Any use of water that is not as authorized by the water right or permit to authorize water <u>before</u> 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 authorized to make this application on their behalf, and declare furned complete. By filing this application I authorize the chief engineer to pas specified in sections 14 and 15 of this application.	ther that the stat	ements contained herein	are true, correct, and
Dated at Russell, Russell County, Kansas, this	s <u>23rd</u> day	of June	, 20 <u>15</u>
(Owner)		(Spouse)	
City of Russell, Kansas, by Jon Quinday, City Manager			
(Please Print)		(Please Print)	
(Owner)		(Spouse)	
(Please Print)		(Please Print)	
(Owner)		(Spouse)	
(Please Print)		(Please Print)	•
State of Kansas )	TARY PUBLIC - State MALINDA MO fly Appt. Expires		
I hereby certify that the foregoing application was signed in my	presence and so	worn to before me this	<u>23</u> day of
My Commission Expires 6/15/18	Mai	Notary Public	Jone
FEE SCHEE	DULE		
Each application to change the place of use, the point of diversion or the us application fee set forth in the schedule below:	se made of the wat	er under this section shall b	be accompanied by the
<ul> <li>(1) Application to change a point of diversion 300 feet or less</li> <li>(2) Application to change a point of diversion more than 300 feet</li> <li>(3) Application to change the place of use</li> <li>(4) Application to change the use made of the water</li> </ul>			\$100 \$200 \$200 \$300
Make check payable to Kansas Department of Agriculture			

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#### **Proposed Rate and Quantity**

The Cities are requesting a total of 166.32 acre-feet and 980 gpm from the well associated with this water right, all of which will be diverted from new point of diversion J, as shown on Exhibit J. When combined with existing wells from other water rights, new point of diversion J will have a cumulative total of 678.44 acre-feet and 3,170 gpm.

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

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

DWR Regulation, K.A.R. 5-5-9(a), provides that the default calculation used to address the consumptive use issue allows the conversion of 135.00 acre-feet for municipal use. As discussed below, 125 approved acres irrigated during the perfection period multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 135.00 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.<sup>3</sup>

#### Quantity authorized and perfected

The permit, issued on March 19, 1976, granted the right to divert up to 231 acre-feet annually at a rate not to exceed 1,000 gallons per minute for irrigation use<sup>4</sup> on 125 acres in the SE/4 of Section 2-T26S-R20W, or 1.85 acre-feet per acre.<sup>5</sup> The certificate further limited the rate of the wells to 980 gallons per minute when operated simultaneously.<sup>6</sup>

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."<sup>7</sup>

The Field Inspection Reports indicate that all of the 231 acre-feet authorized by the permit were lawfully perfected.

• 205 acre-feet<sup>8</sup> and 144 acre-feet<sup>9</sup> (349 acre-feet) were applied to 125 approved acres in the SE/4 of Section 2-T26S-R20W.

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<sup>&</sup>lt;sup>1</sup> K.A.R. 5-5-9(a) and (a)(1).

<sup>&</sup>lt;sup>2</sup> K.A.R. 5-5-12, NIR Requirements.

<sup>&</sup>lt;sup>3</sup> K.A.R. 5-5-9(b).

<sup>&</sup>lt;sup>4</sup> Permit, HAYS002782, Ex. A.

<sup>&</sup>lt;sup>5</sup> Application, HAYS002775, Ex. B.

<sup>&</sup>lt;sup>6</sup> Certificate, HAYS002790, Ex. C.

<sup>&</sup>lt;sup>7</sup> March 19, 1976, letter (emphasis added), HAYS002781, Ex. D.

<sup>&</sup>lt;sup>8</sup> FIR, HAYS002759, Ex. E.

<sup>&</sup>lt;sup>9</sup> FIR, HAYS002768, Ex. F.

While the certificate limits the total quantity to 188 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.<sup>10</sup>

Since the perfection period has expired, the "authorized quantity" for this water right is the 231 acre-feet actually perfected even though it exceeds the certified quantity.

An alternative approach

DWR's use of the NIR of 1.08 feet of water for corn is based on its maximum gross irrigation requirement of 1.5 acre-feet per acre. 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 231 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 166.32 acre-feet, should be available for conversion to municipal use. This is less than the 231 acre-feet authorized so the limitation in K.A.R. 5-5-9(a)(4) is not implicated.

The Applicants request that DWR approve a total of 166.32 acre-feet for municipal use.

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<sup>&</sup>lt;sup>10</sup> Certificate, HAYS002790, Ex. C; Doug Bush April 10, 1987, Memo, HAYS002785, Ex. G; and *Clawson v. Kansas Dept. of Agriculture, Div. of Water Resources*, 49 Kan. App. 2d 789, 315 P.3d 896 (2013).

Administrative Policy No. 86-8, dated Nov. 5, 1986, Ex. H, 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 April 10, 1987, Memo, HAYS002785, Ex. G.





STATE BOARD OF AGRICULTURE
Roy Freeland, Secretary

DIVISION OF WATER RESOURCES
Guy E. Gibson, Chief Engineer

# APPROVAL OF APPLICATION and PERMIT TO PROCEED

(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application No. 22,332

of the applicant

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

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

- 1. That the priority date assigned to such application is May 2, 1974.
- 2. That the water sought to be appropriated shall be used for irrigation on the land described in the application.
- 3. That the source from which the appropriation is made shall be from ground water in the drainage basin of the Arkansas River to be withdrawn by means of two (2) wells: one well near the center of the Southeast Quarter ( $SE_4$ ) and one well in the Northwest Quarter of the Southeast Quarter of the Southeast Quarter ( $NW_4$   $SE_4$   $SE_4$ ) of Section 2, Township 26 South, Range 20 West, in Edwards County, Kansas, located substantially as shown on the aerial photograph accompanying the application.
  - 4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of

WATER RESOURCES
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1000 gallons per minute (2.23 c.f.s.)

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and to a quantity of not to exceed

231 acre-feet

for any calendar year.

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That installation of works for decrision of water shall be completed on or before Cember 31, 19 77. The applicant shall notify the Chief Engineer of the Division of Water Resources when construction of the works has been completed.

6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before December 31, 19 81.

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

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

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

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

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

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

Dated this 19th day of March

1976

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KS DEPT OF AGRICULTURE

HAYS002783

Cuy H. Gibson, Crie, Engine.
Division of Water Resources
Kansas State Board of Agriculture

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HAYS002774

COANNED

DIVISION OF THE FACTORICES

#### THE STATE



#### OF KANSAS

STATE BOARD OF AGRICULTURE
Roy Freeland, Secretary

450 524

DIVISION OF WATER RESOURCES Guy E. Gibson, Chief Engineer

22,332

NUMBER 13



# APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

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

To the Chief Engineer	r of the Division of Water Resources, Kansas State Board of Agriculture:	
Comes now the	(Mr.) (Mrs.) applicant (Miss) Midwest Land and Cattle Co.	whose post office
address is Box 208	Kinsley, Kansas 67547	
and makes application	to the Chief Engineer of the Division of Water Resources, Kansas Stat	e Board of Agri-
culture, for a permit	to appropriate for beneficial use such unappropriated groundwater	
as may be available in	the Arkansas River basin in the county of Edwar (name of stream or drainage basin)	
state of Kansas, to the	e extent and in accordance with the particulars hereinafter described:	
1. The quantity of	of water desired is in the amount of XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	_per year, to be
diverted at a maximum	n rate of 1000 gallons per minute	·
2. The location of	2 Wells	quarter of the
quarter of	the guarter of section 2, township Brown 26, range	2620 W in
Edwards	County, Kansas,	•
Location of se	econd well can not be determined until test well i	
5. The water is i	intended to be appropriated for:    well near the content	
OF WATER RES	I well in Amount the NW/4.	of the SEh4 of
CLIME	(a) Domestic use	•
AFTEINED /製	(b) Municipal use	WATER RESOURCE RECEIVED
MAY 0 2 1974	(c) Irrigation use (X) 320 R acre ft./yr 1000	gals./min.
975	(d) Industrial use ( )	JUN <b>2 9</b> 2015
ATE & CRITCO	(e) Recreational use	KS DEPT OF AGRICULTUR
ECEIVED ESCA	(f) Water Power use ( )	ECEIVED "
Y 0 9 1975	(checking of War or uses and show impended quarter for each use)	WoM 3 t 1975

MAR 2 9 1976

Page 11 of 43 THE DOFACE NOTES STAFFORD

Street, The Control of the Control o

BUSTER NO.

BITTELATO

- 4. If for municipal use, attach tables or curves showing past, present and estimated future population and water requirements of the city.
- If for industrial use, attach tables or curves showing past, present and estimated future water requirements.
- 6. If for irrigation use list below or attach name and address of each landowner and the legal description of the lands to be irrigated by designating the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Owner of 1	and-	-NA	ME:_	tM	.dwe	st I	and	& (	att	le (	o.						
	ΑĽ	ODRE	ESS:_	Ρ.	.0.	Box	208	Kir	sle	y, R	ans	as (	754	7			
	NE!			NW1		SW1				SE}							
Sec. Twp. Range	NE:	NW	swi	SEŁ	NE	NW	sw <sub>1</sub>	8Eł	NE:	NW	8W1	SE	NE:	NW!	8Wł	SE:	Total
2 26 20										<u>.</u>			<i>30</i> 40	32 40	32 40	3/ 40	125 160
			<u> </u>														
Owner of L		-NAN DRE															
	NE <sub>1</sub>			NW1			SW1				SE1						
Sec. Twp. Range	NE	NWł	sw <sub>1</sub>	SE:	NE:	NW:	sw:	SE	NE	NWł	sw <sub>1</sub>	SE	NE:	NW1	sw <sub>1</sub>	SE!	Total
				, .													
				100	7 (5)		ja e				3 % S						
						* * * * * *	3.										
Owner of L		-NAN	<b>∕</b>								9.8				-		
Owner of L			<b>∕</b>				• • •										
Owner of L		-NAN	ЛЕ: SS:			, , ,		*		SV				S	Eł		Total

WATER RESOURCES RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

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immigration agester (two rotes	na) .
irrigation system (two motor	(wells, pumps, etc.)
nd will be completed by July	of 1974
	(Date)
8. The first actual application of water	r for the beneficial use proposed was or is estimated to
July of 1974	
(Date)	
9. The application must be accompanied	either by a detailed plat prepared from an actual survey or l
aerial photograph of the area.	
The plat or aerial photograph should sho	<b>)W</b>
(a) Location of the proposed point	or points of diversion
(b) Location of the pipe lines, car	nals, reservoirs or other facilities for conveying water from ti
	•
point of diversion to the place of	f use
(c) If for irrigation, show the local	tion of the land proposed to be irrigated
(d) If for industrial or other use, sl	how the location of the land where water will be used.
•	<b>r</b>
10. List and describe other applications fil	led or vested rights held by applicant:
rrigation wells and land is in	the process of being bought by a
company known as the Kinsley J	oint Venture (Wheatheart Land CO.)
Applications for water rights	have been filed
II The relation of the sub-sub- to the	amplication is that of agent
11. The relation of the subscriber to this a	(Owner, agent or otherwise)
d he is authorized to make this application in	behalf of the interest affected.
Dated at Kinsley	Kansas, this 22 day of Agril 1971
Dated at	Kansas, this day of / [, 197]
	Midwest Land & Cattle Co.
·	(Applicant)
	() $()$ $()$ $()$ $()$ $()$ $()$ $()$
	By Johnny arcen 16
	(Agent on Offices)

Note:

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

WATER RESOURCES RECEIVED

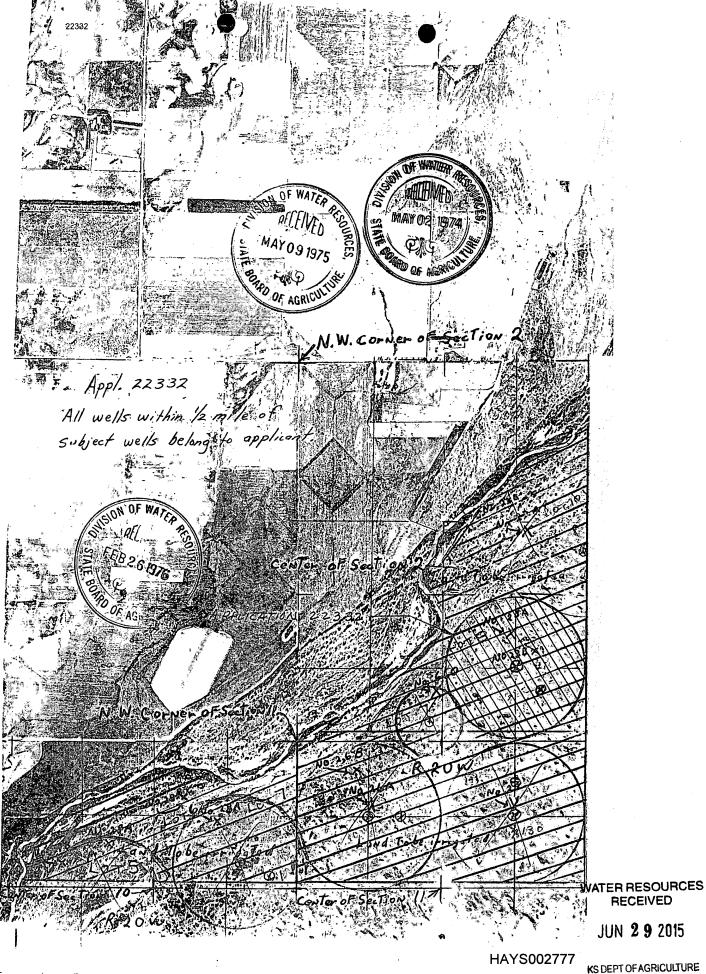
JUN 2 9 2015

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· KS DEPT OF AGRICULTURE

MAR 2 9 1976

HAYS002776



Page 14 of 43



#### THE STATE



#### OF KANSAS

STATE BOARD OF AGRICULTURE Sam Brownback, Secretary

DIVISION OF WATER RESOURCES David L. Pope, Chief Engineer

## CERTIFICATE OF APPROPRIATION FOR BENEFICIAL USE OF WATER

WATER RIGHT, File No. 22,332 PRIORITY DATE May 2, 1974

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

Now, THEREFORE, Be It Known that DAVID L. POPE, the duly appointed, qualified and acting Chief Engineer of the Division of Water Resources of the Kansas State Board of Agriculture, by authority of the laws of the State of Kansas, and particularly K.S.A. 82a-714, does hereby certify that, subject to vested rights and prior appropriation rights, the appropriator is entitled to make use of groundwater in the drainage basin of the Arkansas River to be withdrawn by means of two (2) wells: one (1) well located near the center of the Southeast Quarter (SE%) of Section 2, more particularly described as being near a point 1,407 feet North and 1,330 feet West of the Southeast corner of said section, at a diversion rate not in excess of 655 gallons per minute (1.46 c.f.s.) and in a quantity not to exceed 111 acre-feet per calendar year; and one (1) well located near the center of the East Half of the Southeast Quarter (E4 SE4) of Section 2, more particularly described as being near a point 1,342 feet North and 797 feet West of the Southeast corner of said section, at a diversion rate not in excess of 460 gallons per minute (1.02 c.f.s.) and in a quantity not to exceed 77 acre-feet per calendar year; both in Township 26 South, Range 20 West, Edwards County, Kansas, for irrigation use on the following described property:

```
30 acres in the Northeast Quarter of the Southeast Quarter (NE% SE%),
```

This appropriation right is further limited to a diversion rate which when the wells operate simultaneously will provide a diversion rate not in excess of 980 gallons per minute (2.18 c.f.s.) for irrigation use on the property described herein.

JUN 29 1987

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KS DEPT OF AGRICULTURE

WATER RESOURCES

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JUN **2 9** 2015

DIVISION ROLL 15 of 431 (OVER) 15 of 43:1... 19 10:15

<sup>32</sup> acres in Lot 8 (NW% SE%),

<sup>32</sup> acres in the Southwest Quarter of the Southeast Quarter (SWk SEk).

<sup>31</sup> acres in the Southeast Quarter of the Southeast Quarter (SE% SE%),

a total of 125 acres in Section 2, Township 26 South, Range 20 West, Edwards County, Kansas.

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

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

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

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

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

June , 1987.

DAVID L. POPE David L. Pope, P.E.
Chief Engineer
Division of Water Resources
CHIEF ENGINEER

BOARD OF WATER PRODUCTION OF WATER PROD

STATE OF KANSAS, Shawnee COUNTY, ss.

My appointment expression of the control of the con

The foregoing instrument was acknowledged before me this 11th day of June, 1987 by David L. Pope, P.E., Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture.

Signature: Denise J. Waters, Notary Public

larch 1, 1990

day of Record in the Office of Register of Deeds in the county or counties wherein the point of diversion is located) WATER APPROPRIATION 22,332 o'clock ATER RESOURCES STATE OF KANSAS Register of Deeds CERTIFICATE RECEIVED 16,117 JUN **2 9** 2015 Water Right, File No. Filed for record this Eb to 91 age A STATE OF KANSAS, recorded in Book (S DEPT OF AGRICULTURE HAYS00279 Fee \$ 22332 SCANNED





March 19, 1976

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

ATTENTION: Mr. Johnny Carson, Manager

Re: Appropriation of Water Application No. 22,332

#### Gentlemen:

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

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

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

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

Very truly yours,

Riley M. Dixon Hydrologist

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WATER RESOURCES
RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

MAR 2 9 1976

HAYS002781

FIELD OFFICE
DIVISION DELWARD RESOURCES
STAFFORD MED

RMD:GEE:eel

Encs.



# DIVISION OF ATER RESOURCES—KANSAS STATE BOARD OF A RICULTURE FIELD INSPECTION REPORT

☐ Partial
☑ Full
☐ Re-Test

Test 1 of 2 Diversion points	Re-1est
Application No. 22 332 Date 1/30/86 Inspecto	ld Office <u>fumping Plant Testing</u> , Inc. <u>Fbett/klassen</u>
Field Area No. 2 G.M.D. No. 5	County Edwards
Current Landowner Connecticut General Life	reservance % Agri, Affiliates
Address Box 1162 North Platte, NE 69103 At	O. Jerry Weaver
Water Use Classification: 1. Domestic ( ) 2. Industrial ( ) 4. Municipal ( ) 5. Recreation ( ) 6. Stockwatering (	3. Irrigation 🚫
Groundwater M Drainage Basin Arkansas River	
Surface Water ( ) Stream	<u> </u>
Authorized Point of Diversion:   well NC SF/4   Approximately ft. North and	
Actual Point of Diversion:	Sec. 2, T. 26, R. 20.  ft. West of SE corner of Sec. 2.  hote
"Approved" Quantity 231 AF "Approved" Div	ersion Rate
Priority Date May 2, 1974 Approval of Applicati	on Date March 19,1976
Perfection Date Dec. 31, 1981	
Other applications covering land and/or point of diversion	<u>e</u>
LAND TO BE INCLUDED ON CERTIFICATE:	
S T R NEW NWW SW SE NE NW SW SE NE	SW4 SE4 TOTAL NW SW SE NE NW SW SE ACRES
2 26 20	30 32 32 31 125
LAND IRRIGATED—YEAR OF RECORD ) 984 SEE AT	ACHED SHEET
NE¼ NW¼	SW4 SE4 TOTAL
S T R NE NW SW SE NE NW SW SE NE	NW SW SE NE NW SW SE ACRES
2 26 20 5.5	34 34 28 28 125
combined ====================================	Quantity 305,8 AF (@ 977 G.P.M.)
Normal Operating G.P.M. 95019 ho 150. Equiv. c.f	s. 2,17
Maximum Operating G.P.M. 65 3	
Year of Record 1997 Extension of time requested: Yes_	WATER RESOURCES
Total No. of Hours on land covered by this application 1,000	JUN <b>2 9</b> 2015
Ac. Ft. Applied = $\frac{1}{100}$ hrs. $\times \frac{65}{100}$ g.p.m. $\times \frac{4}{24}$	1000 AF
Acres of "Approved" Land irrigated / /	AS DEPT OF AGRICULTURE
Ac. Ft. on "Approved" Land (// b	Ac. Ft./Ac.)
Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less 5 30 pt. 7 15 5 9 pt. 6 1111 9 pt. 6 Proration Calculations 0, 5 4 X (12 5 acres X), 5	530pn - 111/9 pm 103 9 2
Perfected Rate 655 g.p.m. Perfected Quantity //	AF SCANNED

### GENERAL INFORMATION ON IRRIGATION SYSTEM:

☐ Center Pivot ☐ High Pressure ☐ Lo	w Pressure
Manufacturer Zimmatic Mode	
Drive Eketric Lengt	h of Pivot Arm
Design Pressure-Pivotp.s.i.	Operating Pressure-Pivotp.s.i.
End Gun? YES End Gun Rating	_g.p.m. 2 RainBird B53
Is end gun operating during test?	
Gravity Irrigation (show test set on sketch)	
Number of gates open Norma	al Pipe Size
Pressure at pumpp.s.i.	
Other Type	
Manufacturer Model	Serial No
Unusual Conditions/Other Info.	
POWER UNIT INFORMATION:	
Manufacturer <u>Ford</u> Model	No. 300 G HP
Serial No Fuel propo	Rated RPM
Manufacturer Fair banks Morse Model No. 10 Serial No. N2W24231X Type Vertica	
GEAR HEAD INFORMATION:	
Manufacturer Randolph Model No. F	60
Serial No. 62056 Drive Right Angle	Ratio 6:5
WELL INFORMATION:	· •
Date Drilled 8-27-74 Original Depth 45 ft. Stat	tic Water Level When Drilledft.
Tape Down Possible? No Water Le	wel Massurament Tube? 0.0
Measuring Pointft. above or below L.S.D.	WATER RESOURCES RECEIVED
ADDITIONAL REQUIREMENTS:	
Meter Required? <u>no</u> Make of Meter	JUN <b>2 9</b> 2015
	Size KS DEPT OF AGRICULTURE
Is Meter Installed Properly? Check Valve? Check Valve?	Ves Low Pressure Drain? 110
Chemical injection system: Check valver	TOTAL LOSSILE DIGITIC LAND
Vacuum Breaker? Are these anti-pollution devices	installed properly? V. S HAYS002760

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

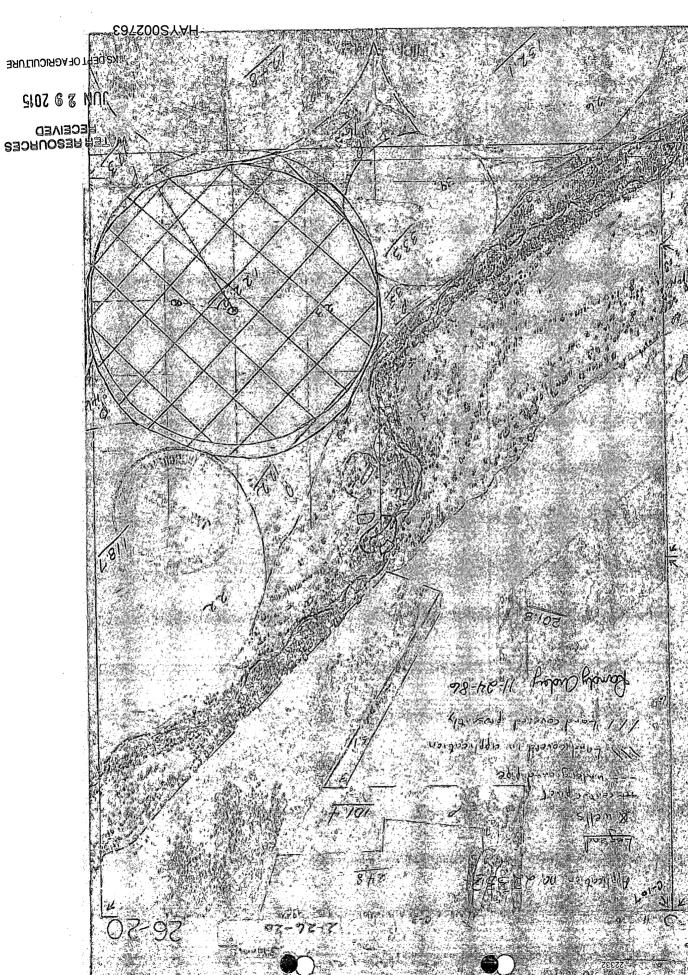
SE1/4 MOVE
Se 1/4 Morte
Sella Morte
Sel 1/4 Morte
Sel 1/4 Morte
Se 1/4 Morte
Sella Morte
Se 1/4 Morte
Se 1/4 Morte
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SE 1/4 MONE
SEYO MONE
CEYA MONE
CE 1/4 MONE
CEYA MONE
CE /4 MONE
•
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9
HIN 9 Q 2015
JUN <b>2 9</b> 2015
•
JUN 2 9 2015

Other Flow Meter

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

FI	EI.	R	FC	a	p	n	2

	Electricity	Supplier				
	Meter Manufact	turer	Тур	е	Serial No	
	Kwat	t/rev r	revolutions	tse	conds	
	Rate = $\frac{Kr \times 3}{1}$	i.6 =	_kw/hr H	lours =rate	kw-hr =	
· 🛭	Other Fuels	Type Propa		plier Mid-Cont		
	Rate = Volume	e (test) =				
	tim How was the te		d? Not Determin	ad represent	ative didn't know	
TABULA		R USE:	Tested	<b>,</b>		
10-749 10-749 174 7 137	Year	Hours Pumped ( hr )	Pumping Rate ( gpm )	Water Used ( AF )	Acres Irrigated	
(D)	1975	1668	1000		130	
2741	1976					•
100 3000	1977	798	1000		130	
): <sup>gre</sup>	1978					
	1979	336	800		122	
	1980		-			
	1981	840	800		122	
	1982					
	1983	unused	due to PIK	010 9 1 a m_ ##		
j	X- 1984	1700**	653 X		125 **	and the second s
Ź	1985	1600**	700 **		125**	
	1986		653 A			•
		* n	tained from t	est on 9/30	186	
				, ,	is from Jerry We	avef
		· · · · · · · · · · · · · · · · · · ·				
Indicate \	Year of Record with	h (*)	Source of Informat	ion Staff	ord Files	
Crops Irri	igated: this year _	corn		Year of record	d	
REMARK	ζS:					
						WATER RESOURCE
						RECEIVED
						JUN <b>2 9</b> 2015
		· · · · · · · · · · · · · · · · · · ·				KS DEPT OF AGRICULTURE
_	esent at test	Clint Jones	· · · · · · · · · · · · · · · · · · ·	em	(relationship)	
Water Use	e Correspondent_	Agri Affiliates.		Jorkh Platte, Mi	F 69/03 308-5	31-9240
Conducted	d by	Sreg Ele	7	Date	10/8/86 HAYS	002762
Approved	by (signiture)	LES,	(trile)	Date	12/29/84	
. 223	332		Page 21 of 43		·	SCANNED



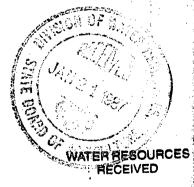
APPLICATION NO: 22, 332

NAME: CONNECTICUT GENERAL LIKE INSUMMER CO, INC.

### NOTES ON CHOOSING A YEAR OF RECORD

THIS DEVELOPMENT WOODS WHORE SWEELS SINCE 175 IN CEPTION IN 1975 WITH OWNERS FROM EUROPE & AROUND THE U.S. AT VOHOUS TIMES, A STATE OF CONFUEND HMS EXISTED THE CAOP PROJETION REFURT. THE OR THE WATER USE BND EQUIPMENT RECORDS HOVE BREN MITHER DESTROYED OL LOST, AND THE SYSTEMS AND PUMPING PLANT UMPONEUTS HAVE BEEN INTERCHONGED ONER THE YEARS.

SINCE LATE 1983, CONNECTICUT GENERAL HAS MADE A DILICENT REPORT TO KEEP GOOD RECORDS. THERE MAKE, WOULD SEEM REDSONABLE TO USE THE YEARS SINCE 1983 IN CHOOSING A YEAR OF REURO.



JUN 2 9 2015

RECEIVED

STAFFUED

PUMPING PLANT TESTING. INCEPTOFAGRICULTURE

JUN 29 198 Eviewed by:

Professional Engineer

APPLICATION NO: 22332 NAME: Connecticut General Life Insurance

COLLINS METER TEST BOTH WELLS COMB	NED
Collins Meter No. <u>1-83</u>	Meter Calibration Factor 19559
Pipe Inside Diameter (inches)	83/8 Flow Rate Factor / 70,5
	1780 (NC SE%) Test RPM, Pump 1837 (NWM, SEX, SEX)
Description of Test Location_	In horizontal pipe between
	<u> </u>

Meter Settir	ng From	Left Side (or Front	ity of Pipe	Right Side	city e of Pipe Side if
11/16		6.56	6,57	6.31	6.19
21/6		6.36	6.32	5,79	5,84
3/36		5.81	5,83	5.18	5,14

Reviewed By:

PUMPING PLANT TESTING, INC.

Professional Engineer

WATER RESOURCES RECEIVED HAYS002765

JUN 2 9 2015

APPLICATION NO: 22332 NAME: Connecticut General Life Insurance

COLLINS METER TEST WELL NO SE'4	•
Collins Meter No. 1-83	Meter Calibration Factor .9559
Pipe Inside Diameter (inches)	838 Flow Rate Factor 170,5
Test Pressure (psi) 26	Test RPM, Pump 1752
Description of Test Location_	<u>In hosizontal pipe between</u> vet

TEST DATA: Q_ Check, I  Meter Setting From Center of Pipe	Veloci Left Side (or Front	ty of Pipe Side if	Veloc Right Side	ity of Pipe Side if
11/46	4.56	4,58	4,12	4.1/
2 15/16	4,39	4.44	3,67	3,69
313/6	3,97	3,82	3,48	3,21
Average Velocity of Corrected Ave. Vel.	= (Ave. Ve)	.) x (Ca		tor) =
Flow Rate = (Correc			ow Rate Facto	



PUMPING PLANT TESTING, INC.

Professional Engineer

WATER RESOURCES RECEIVED

HAYS002766

JUN 2 9 2015

APPLICATION NO: 22 332

NAME: Connecticut General Life Ins

## POINTS OF DIVERSIONSION AND SECTION CORNERS

The actual section corners of the land applied for and the land irrigated have never been dearly marked. (If it was marked at some time, we, vior 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 boularies 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 transfered 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: W

rofessionalsonateeerHAYS002767

JUN 2 9 2015

## EXHIBIT F

# DIVISION OF THE RESOURCES—KANSAS STATE BOARD OF RICULTURE FIELD INSPECTION REPORT

☐ Partial

Full

Re-Test

Test 2	of	2 D	Diversi	ion po	oints								0		•	,	_ к	e-Test	
Applicatio	n No.	22	33	۵	_ Da	te	9-3	0-8	6 Ir	irm/Fi	ield C or	ffice_	Ebe	ngin H/i	g Pl	ant sen	Tes	ting, Inc	<u>.</u>
																		vards	
Current L								_											
Address_	Bex 1	162 Addition	No	rth downe	Pla-	<i>He</i>	NE es iden	tified i	910	ks sent	ían	A	tt n.	2-1	42	Wee	ves		-
Water Use 4. Mu	Class	ificati	on: 1.	Dom	estic	( )	2. ]	Indus	trial (	)	3. Ir	rigatio	on (🔀	)					
Groundwa	ter 🔀	🕽 Dra	inage	Basin	_A	rka	N Sa	<u> </u>	live	۲_							• .		
Surface W	ater (	) Str	eam_						•									,	-
Authorized Approxima																			
Actual Poi Approxima How were	nt of I tely distar	Divers ices d	ion: N 342 eterm	ft ft ined?	E½ Nort	ness h and	Б ¼ с	797 <del>4</del> 56	, m	A S C	_ft. \ '_Sp	West of	ece of SE	Corne	26 r of Sc	R	20		
"Approved	" Qua	ntity_	2.	31	AF			"A[	prove	d" Di	versio	n Rat	e	1000	2	_g.p.1	n. (	<b>2.23</b> c.f.s.)	ı
Priority Da	ate	W	ay.	2,	197		_ App	proval	of Ap	plicat	tion D	ate_	Mo	rch	19	19	76		-
Perfection	Date_	D	ec,	31,	198	1			,										
Other appl (include di LAND TO	scussi	on of o	overla	pping	g files '	in ren	narks	sectio	on on)	No	n e				···.				-
		NCL		EW.	CER	IFIC		N 1/4	<u> </u>		sv	V 1/4			SE	:1/4		TOTAL	
S T	R	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW		SE	ACRES	_
2 26	20													30	32	32	3/	125	
								<u></u>											- -
LAND IRI	RIGAT	ED-	-YEA	ROF	REC	ORD_	1	984		SEE	ATTA	4CHEF	SHE	ET					·
S · T	R	NE	NW	sw	SE	NE	NW NW	sw	SE	NE	NW.	sw	SE	NE	S NW	E¼ SW	SE	TOTAL ACRES	_
2 26	20			.5	.5							-		34	34	28	28	125	• -
APPLICAT Year of Re			784 784	R. S	EE /	TYAC	HED	SHE	EY 200	<u>,                                    </u>	r Qua	ntity_	36	2 <u>5,8</u>	A	= (@	977	76.P.M.)	
Normal Or	<b></b> .	g G.F			9	7.7			_ Equ	iiiv. c.i	f.s	2,	17					3A//	ATER RESOURCES
Maximum	Opera	ting C	S.P. M	l	45	1187	291	987		iiv. c.		1,0	2					·	RECEIVED
Year of Rec	cord_/	198	94	Di	Exten	sion ö					ONL	Y No	_	<b></b> '					JUN <b>2 9</b> 2015
	Total No. of Hours on land covered by this application 100 KS DEPT OF AGRICULTURE																		
Ac. Ft. Applied = $\frac{100}{100}$ hrs. $\times \frac{4.9}{24 \times 1000}$ g.p.m. $\times \frac{4.419}{24 \times 1000}$																			
Acres of "Approved" Land irrigated 125																			
Ac. Ft. on "Approved" Land 77 (/, /) Ac. Ft./Ac.)																			
Ac. Ft. Use	09	P.m.	roved'	Land 65 67/	1 at "A 3 9 1/2	ppro	ved" I	Rate o	r Les	5 A	200	7 20 0 0	455	- 9pr.	÷ /	1/1	2E	x = 0.4	7/
Perfected 1		46	0	, , , , , , , , , , , , , , , , , , ,	.g.p.n	n. Per	ected	Qua	 ntity		5 5	)		F		1981	117	YS00276	8 SCANNED
าพยาศ23ส2	7 h	10/07	fed	1	)			, -	,	of 43	625	4	4-	11)-	27	) Mi	SK!	TIMEL	

#### GENERAL INFORMATION ON IRRICATION SYSTEM:

☐ Center Pivot ☐ High Pressure	Low Pressure	
Manufacturer Zimmatic	Model 310 Serial No. 3068	e applications
DriveElectric	Length of Pivot Arm	
Design Pressure-Pivot	p.s.i. Operating Pressure-Pivotp.	s.i.
End Gun? yes End Gun Rating		
Is end gun operating during test? Y € 5		
Gravity Irrigation (show test set on sketch)		
Number of gates open	Normal Pipe Size	
Pressure at pumpp.s.i.		
☐ Other Type	<u> </u>	
Manufacturer	ModelSerial No	<del></del>
Unusual Conditions/Other Info.		
		<u> </u>
POWER UNIT INFORMATION:		
Manufacturer <u>Ford</u>	Model No HP	
Serial No. 34842 - F - 13-HK Fuel	propane Rated RPM	<del></del>
PUMP INFORMATION:		
	No. /O M A Rated RPM	
	Vertical Turbine No. stages 5	
17,10	The state of the s	<del></del>
GEAR HEAD INFORMATION:	•	
Manufacturer <u>U, S, Motors</u> Model	No. Type GP	
	Angle Ratio 11)	
Serial No. Series Drive Night	11/3/12	<del></del>
WELL INFORMATION.		
WELL INFORMATION:  Date Drilled 11-18-74 Original Depth 5		
•	Water Level Measurement Tube?	WATER RESOURCES RECEIVED
Measuring Pointft. above or below L.S.D.		
ADDITIONAL REQUIREMENTS:		JUN <b>2 9</b> 2015
Meter Required? Make of Meter_	"	KS DEPT OF AGRICULTURE
Meter Model No Serial No		<del></del>
Is Meter Installed Properly?		
	k Valve? <u>no</u> Low Pressure Drain? <u>no</u> HAYS002	
Vacuum Breaker? Are these anti-pollution	on devices installed properly? — HAYS002	SCANNED
	toh ot sustam	· · · <del></del>

.. 22332

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

		,		·	
ft.					
	·				_
			:		

#### TEST

Length of time well has been operating prior Location of test In herizontal pip Pipe Diameter (I.D.) 656 inches	e ber	ween pump and	pivot	Ť.
		weu	NC E'12 SE'A	PLONE
Test No. I-Normal Conditions _ 150/14 a	ikus	Test No. 2—Maximum	Conditions	
R.P.M. POWER UNIT		R.P.M. POWER UNIT R.P.M. PUMP UNIT Pressure at Pump	1800	
] Jacuzzi Meter Test	Aeter Ide	entification No		
Area Constant K = 2.45 × I.D. <sup>2</sup> =			Q (gpm) = VK	
Velocity (fps)	•	Velocity (fps)		
1		1		
2 3		2		
4		4		
5		5	· ·	
6 7		6		
8		7		
9		9		
10		10		
Total		al		
AvgG.P.M	Avg G. P	.M		

Propeller Meter Test	Manufacturer		Model	Serial No	WATER RESOURCES
Meter Diameter	inches				RECEIVED
Vadina	1	r	,		JUN 2 9 2015

\_gpm

Beginning\_ gal. Beginning. gal. Difference\_ gal. Difference\_ gal. \_min. Time\_ min. Rate\_

\_gpm

KS DEPT OF AGRICULTURE E REFEMEN HAYS002770

🛭 Other Flow Meter

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

Fī	JEL	RI	EC	ΛR	DS.

JUN <b>2 9</b> 2015	_ E	Electricity	Supplier				
Rate = Kr x 3.6 =		Meter Manufacturer		Туре_		Serial No	
Rote = Volume (test) =   How was the set volume determined? Not Ortenies representative didn't know.  TABULATION OF WATER USE.  Total Propries (AF)  1975.   1668.   1800.   130.    1976.   1977.   1980.   2100.   225.    1982.   1982.   1982.   1982.    1983.   1984.   1980.   2100.   225.    1983.   1984.   1984.   1984.    1983.   1984.   1985.   1986.    1985.   1900.   125.    1985.   1900.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1987.   1988.   125.    1988.   1989.   125.    1988.   1989.   125.    1988.   125.    1988.   125.    1989.   125.    1980.		Kwatt/rev	r	revolutions	tsec	onds	
Rote = Volume (test) =   How was the set volume determined? Not Ortenies representative didn't know.  TABULATION OF WATER USE.  Total Propries (AF)  1975.   1668.   1800.   130.    1976.   1977.   1980.   2100.   225.    1982.   1982.   1982.   1982.    1983.   1984.   1980.   2100.   225.    1983.   1984.   1984.   1984.    1983.   1984.   1985.   1986.    1985.   1900.   125.    1985.   1900.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1986.   1986.   125.    1987.   1988.   125.    1988.   1989.   125.    1988.   1989.   125.    1988.   125.    1988.   125.    1989.   125.    1980.		Rate = $Kr \times 3.6$	=	kw/hr Ho	urs = <u>k</u>	w-hr =	
Rate = Volume (test) =							
How was the test volume determined? Not Determined? It Determined? Act Ordermined? It Determined It Determined It Determined It Determined? It Determined It D	DX O	ther Fuels	Type Prope	suppli	ier_ //() Ø - Con	TENENT	
TABULATION OF WATER USE:    Major   Pumping   Used   Used   Irrigated   Irriga	•	Rate = Volume (tes	<u>:t)</u> =				
1977   798   1000   130     1978   1979   1980   2100   225   130     1981   1983   unused due to PIK stagtam. **     1983   1984   1700** 458*   125**     1985   1600** 475**   125**     1986   458*   458*   458*		How was the test vo		Not Determined	l representat	ive didn't know	
1977   798   1000   130     1978   1979   1980   2100   225   130     1981   1983   unused due to PIK stagtam. **     1983   1984   1700** 458*   125**     1985   1600** 475**   125**     1986   458*   458*   458*	TABULAT	ION OF WATER U				Acres	
1977   798   1000   130     1978   1979   1980   2100   225   130     1981   1983   unused due to PIK stagtam. **     1983   1984   1700** 458*   125**     1985   1600** 475**   125**     1986   458*   458*   458*	, 240 747V	Year Year		Rate			
1977   798   1000   130     1978   1979   1980   2100   225   130     1981   1983   unused due to PIK stagtam. **     1983   1984   1700** 458*   125**     1985   1600** 475**   125**     1986   458*   458*   458*	MY	/1975	1668			130	
1989 1989 1989 1989 1989 1989 1989 1988 1	0.3	1976					
1989 1989 1989 1989 1989 1989 1989 1988 1	1570	/1977	798	1000		130	
1979  1980 200 225 1981 1982 1983  # 1984 1700**  # 1985 1000**  # 1985 1000**  # 1986  # 1986  # 1986  # 1986  # 1988  # 1986  # 1986  # 1986  # 1988  # 1986  # 1986  # 1988  # 1986  # 1988  # 1986  # 1986  # 1988  # 1986  # 125**  125**  1986  ## 125**  125**  125**  125**  1986  ## 125**  Water and Test of Record with (*)  Source of Information Stacker's Files  Water and From Series and Files		1978					
1980 2100 225 130  1981  1982  1983 unused due to PIK pregram **  1984 17001* 458 **  1985 1000* 475 **  1986 458 **  A obtained from test on 9/20/86  ** obtained from WUR sent to be from Terry Weaver  Indicate Year of Record with (*) Source of Information Stafford Files  Crops Irrigated: this year Coss  WATER RESOURC RECEIVED  JUN 29 2015  Person present at test Clint Tones (Source of Information Water Use Correspondent Asti, Astiviates Int. Box/162 North Platt NIF 63/103 308-534-9240 (Sobrem United)  Water Use Correspondent Asti, Astiviates Int. Box/162 North Platt NIF 63/103 308-534-9240 (Sobrem United)  Conducted by Are the the Computer Date 10/8/84 HAYS002771  Approved by Use Correspondent Astiviates Int. Box/162 North Platt NIF 63/103 408-600-600-600-600-600-600-600-600-600-6							
1982  1983  4 1989  1700° 458 **  1985  1986  458 **  1988  458 **  1986  458 **  1988  1988  19	72		2100	225	.,·	130	
1983 unused due to PIK graziam **  1984 170033 458 **  1985 10005 475 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 458 **  255 **  1986 558 **  WATER RESOURC RECEIVED  JUN 292015  KSDEPTOFAGRICUITU  Person present at test 101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ü		Ø10 C				
1983   UNIVERS dive to PIK program **   1984   1700**   458*   125.**   1985   1000**   475.**   125.**   1986   45.8*   125				<u> </u>			
1984   1700# 475# 125#   125##   1986   475##   125##   125##   1986   458#			1	1 4 07 1	. **		
1986  1986  458  A obtained from test on 9/30/86  ** obtained from WUR sent to Be from Telly Wedner  Indicate Year of Record with (*)  Source of Information  Stafford Files  Crops Irrigated: this year  COS (C. Year of record RECRIVED  JUN 292015  WATER RESOURC  RECRIVED  JUN 292015  KSDEPT OF AGRICULTU  Water Use Correspondent fast, ffst ales Int. Box/1162 North Platt, NE 69103  Water Use Correspondent fast, ffst ales Int. Box/1162 North Platt, NE 69103  Conducted by Srey Ebent Date 10/3/86  Approved by Use (unquarer)  Date 10/3/86  HAYS002771	14				program		•
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Indicate Year of Record with (*)  Source of Information  Stafferd Files  Crops Irrigated: this year  Cost  REMARKS:  WATER RESOURCE  RECEIVED  JUN 2 9 2015  KSDEPT OF AGRICULTU  Person present at test  Clint Forces  Water Use Correspondent Acti, Affiliales Int. Box 1162 North Platt, NF 69103  Source of Information  Stafferd Files  WATER RESOURCE  RECEIVED  JUN 2 9 2015  KSDEPT OF AGRICULTU  (address)  Conducted by  Source of Information  Stafferd Files  Water RESOURCE  RECEIVED  JUN 2 9 2015  KSDEPT OF AGRICULTU  (address)  Conducted by  Source of Information  Stafferd Files  Water RESOURCE  RECEIVED  JUN 2 9 2015  KSDEPT OF AGRICULTU  (address)  Conducted by  Source of Information  Stafferd Files  Water RESOURCE  RECEIVED  JUN 2 9 2015  KSDEPT OF AGRICULTU  (address)  Conducted by  Source of Information  Stafferd Files  WATER RESOURCE  RECEIVED  JUN 2 9 2015  KSDEPT OF AGRICULTU  (address)  (address)  Date  10/3/84  HAYS002771  Date  MAYS002771  Date  MAYS002771			1600		· · · · · · · · · · · · · · · · · · ·	123	
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Indicate Year of Record with (*)  Source of Information Stafford Files  Crops Irrigated: this year Cost Year of record  REMARKS:  WATER RESOURCE RECEIVED  JUN 2 9 2015  KSDEPT OF AGRICULTU  Water Use Correspondent Asi, Asi, Asi, Asi, Asi, Asi, Asi, Asi,			_ A obtain	ed from test	on 9/30/86		
Crops Irrigated: this year			** obtaine	d from wur	sent to us	From Jerry Weaver	
Crops Irrigated: this year	Indicate Va	ear of Record with (*)		Sauras of Informatio		ford Files	
WATER RESOURCE RECEIVED  JUN 29 2015  WATER RESOURCE RECEIVED  JUN 29 2015  KS DEPT OF AGRICULTURE  (name)  Water Use Correspondent Agri, Affiliales Int. Box/162 North Platt. NE 69/03 308-5-34-9240  (name)  Conducted by Sreg Eben (address)  Date 10/3/84  HAYS002771  (tignature)  Date 12/9/86  HAYS002771							
WATER RESOURCE RECEIVED  JUN 29 2015  Water Use Correspondent Asi, Assistates Inc. Box/162 North Platt NF 69/03 308-534-9240  (chance)  (chance)  (chance)  (conducted by Sreg Ebet Date 10/8/86  Approved by Water Use (ingualure)		-	<del></del>		rear or record		
Person present at test Clint Jones Employee  (name)  Water Use Correspondent Agti, Affiliates Inc. Box 1162 North Platt, NE 69/03 308-5-34-9240  (name)  Conducted by Steet Date 10/8/86  Approved by Water Use (signature)  Approved by Usignature)  (signature)  Date 12/2/86 HAYS002771		,					
Person present at test Clint Iones  Water Use Correspondent Agti, Affiliates Inc. Box1162 North Platt, NE 69103 308-5-34-9240  Conducted by Steet Date 10/8/86  Approved by Ciagnature)  Date 10/8/86  HAYS002771							WATER RESOURCE
Person present at test Clint Jones Employee  (name)  Water Use Correspondent Agti, Affiliates Inc. Box/162 North Platt NF 69/03 308-534-9240  Conducted by Steg Eben Date 10/8/86  Approved by Use (signature)  Approved by Use (signature)  (signature)  Approved by (signature)  (site)  KS DEPT OF AGRICULTURE  (relationship)  (relationship)  (relationship)  Approved by HAYS002771							
Person present at test Clint Iones  (name)  (name)  (relationship)  Water Use Correspondent Agti, Affiliates Inc. Box/162 North Platt, NE 69/03 308-5-34-9240  (name)							JUN Z 9 ZU15
Water Use Correspondent Agti, Affiliates Inc. Box/162 North Platt, NE 69/03 308-5-34-9240  Conducted by Sreg Ebest Date 10/8/86  Approved by (signature) Date 12/29/86 HAYS002771		<u> </u>	Y T			al	KS DEPT OF AGRICULTUR
Approved by Net (signature)  Approved by (signature)  Approved by (signature)  Date 10/8/86  Date 12/29/86  Date 12/29/86	-		(name)	0 11110 41	-4L DI 41-	(relationship)	- -
Approved by Wet (signature) P. E. Date 129/86 HAYS002771		Q/	(name)	nc, box1162 No		67/03 308-3 -> 7- (phone number)	_/o=1U
Approved by Date (title)		170 14	(signature)	· ·		10/8/86 125 /2 HAYS002	 .771
ESES A KIRIL LY	Approved b	(signature)	uc, p	(title)	Date	1/11/86	

APPLICATION NO: 22332 NAME: Connecticut General Life Insurance

COLLINS METER TEST WELL NW SE SE

Collins Meter No. 1-83 Meter Calibration Factor 19539

Pipe Inside Diameter (inches) 55/6 Flow Rate Factor 95:35

Test Pressure (psi) 10 Test RPM, Pump 1800

Description of Test Location In horizontal pipe between pump and pixot

TEST DATA: Q_ Check,  Meter Setting From Center of Pipe	Veloci Left Side ( (or Front )	ty of Pipe Side if	Velo Right Sid	city e of Pipe Side if
1/4	5120	5,12	5,40	5,40
21/4	4,89	4,85	5,19	5,17
27/8	4,76	4,28	4.90	5,10
Average Velocity of Corrected Ave. Vel	. = (Ave. Vel	.) x (Cal		ctor) =
Flow Rate = (Corre	ected Ave. Vel	.) × (Flo	W Rate Facto	or) = 8GPM



RECEIVED

Professional Engineer

PUMPING PLANT TESTING, INC.

KS DEPT OF AGRICULTURE

WATER RESOURCES RECEIVED

JUN 29 1987

HAYS002772

FIELD FOR A PROPERTY OF WARRES

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

#### MEMORANDUM

TO: Files

DATE: April 10, 1987

FROM: Douglas E. Bush

RE: Appropriation of Water

File No. 22,332

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 the wells were prorated by rate so they would not exceed the maximum quantity for irrigating 125 acres or 188 A.F.

The wells were prorated as such:

Well (NC SE¼) 653 g.p.m. + 458 g.p.m. = 1,111 g.p.m. 653 g.p.m. 

‡ 1,111 g.p.m. = 0.59 x (125 acres x 1.5 A.F. per acre) = 111 A.F.

Well (NC E½ SE½) 458 g.p.m. + 653 g.p.m. = 1,111 g.p.m. 458 g.p.m. ÷ 1,111 g.p.m. = 0.41 x (125 acres x 1.5 A.F. per acre) = 77 A.F.

The rates shown on the certificate are those of when the wells were tested individually. A limitation was needed on the combined rate since the combined rate exceeded the total rate of the two wells when ran simultaneously.

The Field Inspection Report (F.I.R.) showed the possibility of unapproved land being irrigated. Because of this land being in an area where section corners are hard to locate, making the actual place of use hard to pinpoint, no action is being taken.

The F.I.R. shows one well possibly to be located in an unapproved location. By adjusting the coordinates, because of the sections not being square, the actual location of this well is less than 300 feet from where it was approved. The description for this well was changed to better describe this well. The description was changed from the NW½ SE½ SE½ of said section to near the center of the E½ SE½ of said section. The latter description better describes a well with coordinates of 1,342 feet North and 797 feet West of the Southeast corner of said section.

WATER RESOURCES RECEIVED

JRCES Douglas E. Bush
Hydrologist

HAYS002785

JUN 2 9 2015

Page 32 of 43

SCANNED

DEB:rk

#### Kansas State Board of Agriculture Division of Water Resources

# ADMINISTRATIVE POLICY No. 86-8

Subject:

Allowable Rates of Diversion and Maximum Annual Quantities for

Irrigation Use - Permits and Approvals

Reference:

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

Date:

November 5, 1986

History:

Effective November 5, 1986

Approved by:

David L. Pope

Chief Engineer

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

#### Area, Place of use

#### Max. Allowable Rate

up to	10 a	cres	5
10 -	40 ac	res	
40 -	120 a	cres	<b>;</b>
more	than	120	acres

450 g.p.m. 450 (+) 450 g.p.m. 900 (+) 8 g.p.m./acre 550 + 8X (+) 7 g.p.m./acre 700+ 7X

#### **EXAMPLES:**

- A. 37 acres requested; since this area is less than 40 acres, a rate of up to 900
- B. 83 acres requested;

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  $\chi$  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 2 9 2015

Administrative Policy No. 86-8 Page 2

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

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

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

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

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

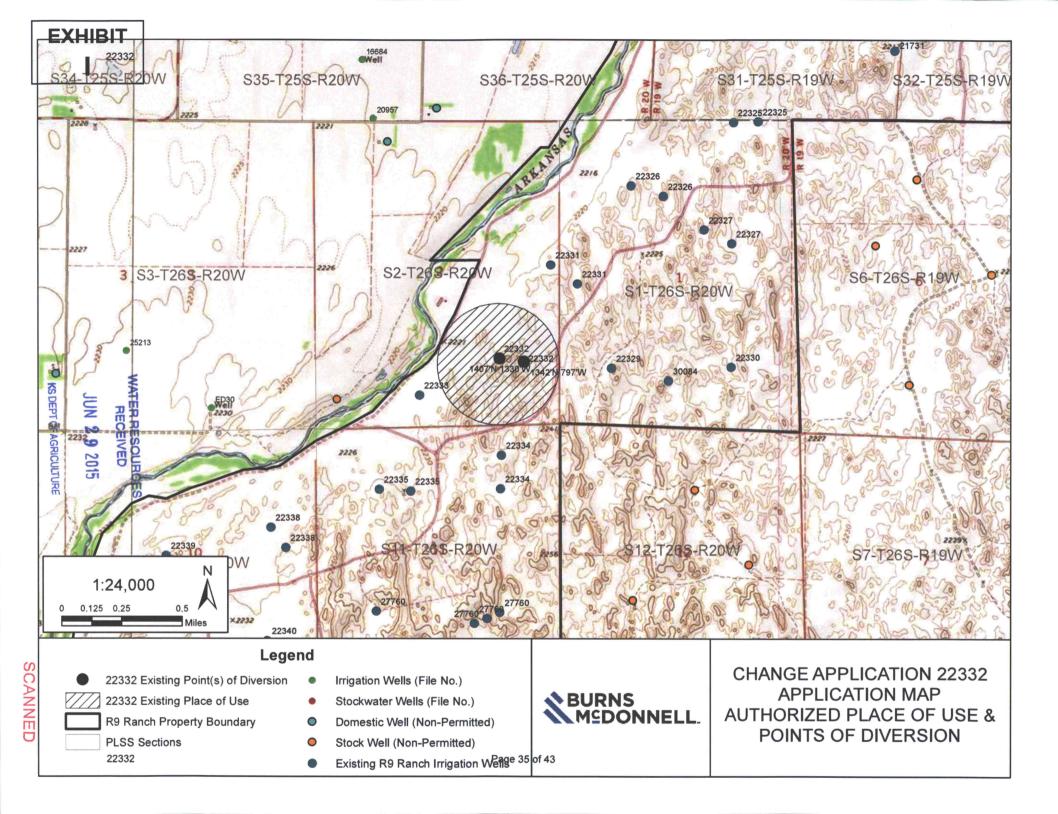
A further limiting factor to maximum allowable quantity is the availability of water from the proposed source of supply. If the source of supply is incapable of yielding a reasonably, sustainable (computed) quantity during the irrigation season in that area of the state, then the source becomes a further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

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

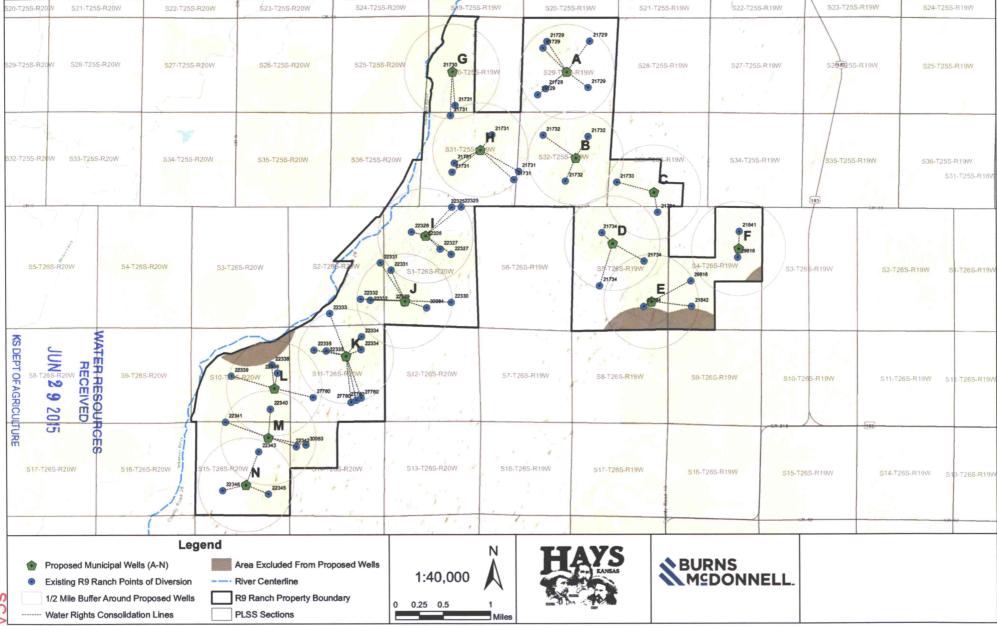
WATER RESOURCES RECEIVED

JUN 2 9 2015

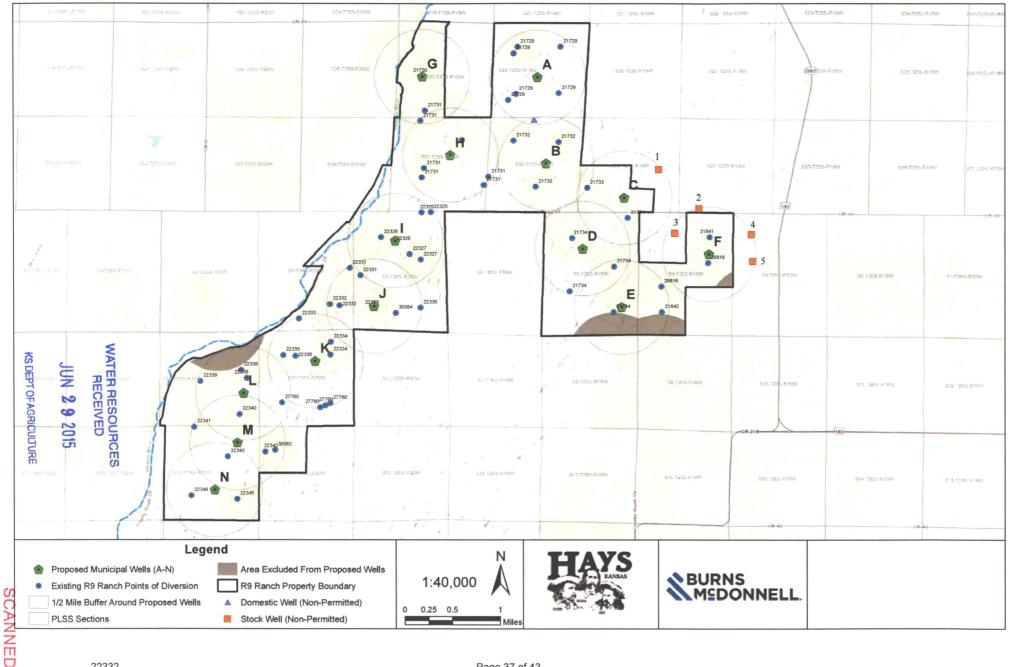
KS DEPT OF AGRICULTURE



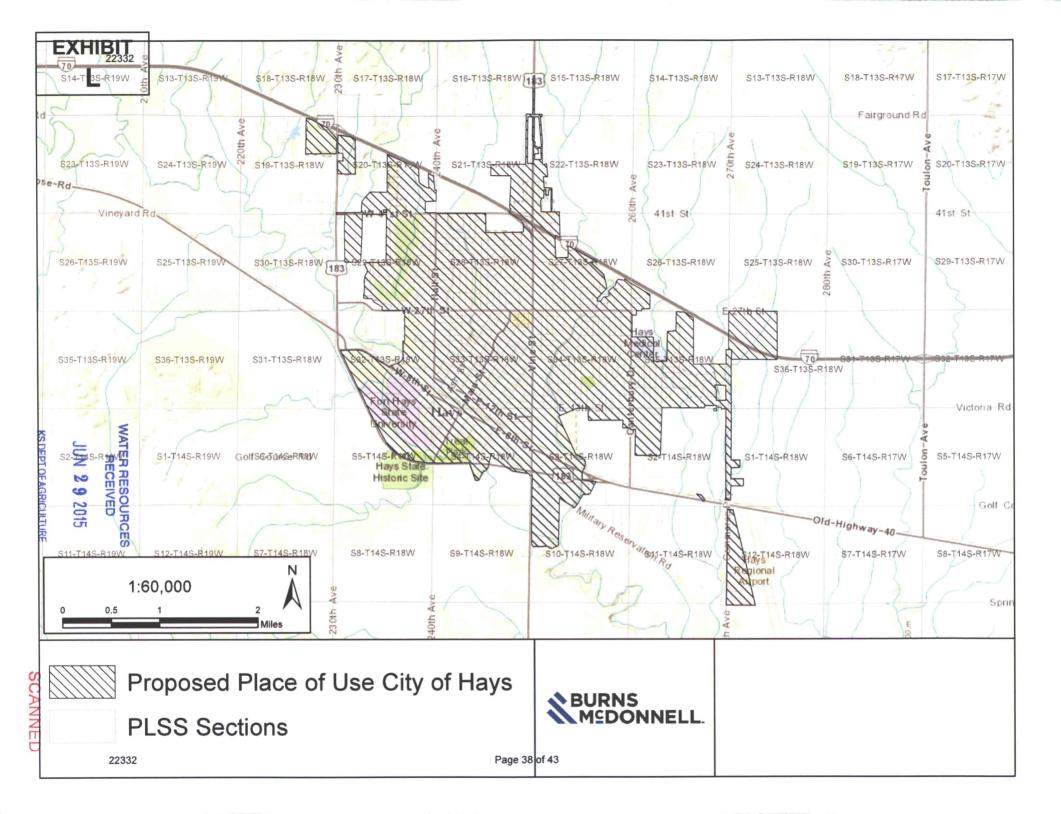


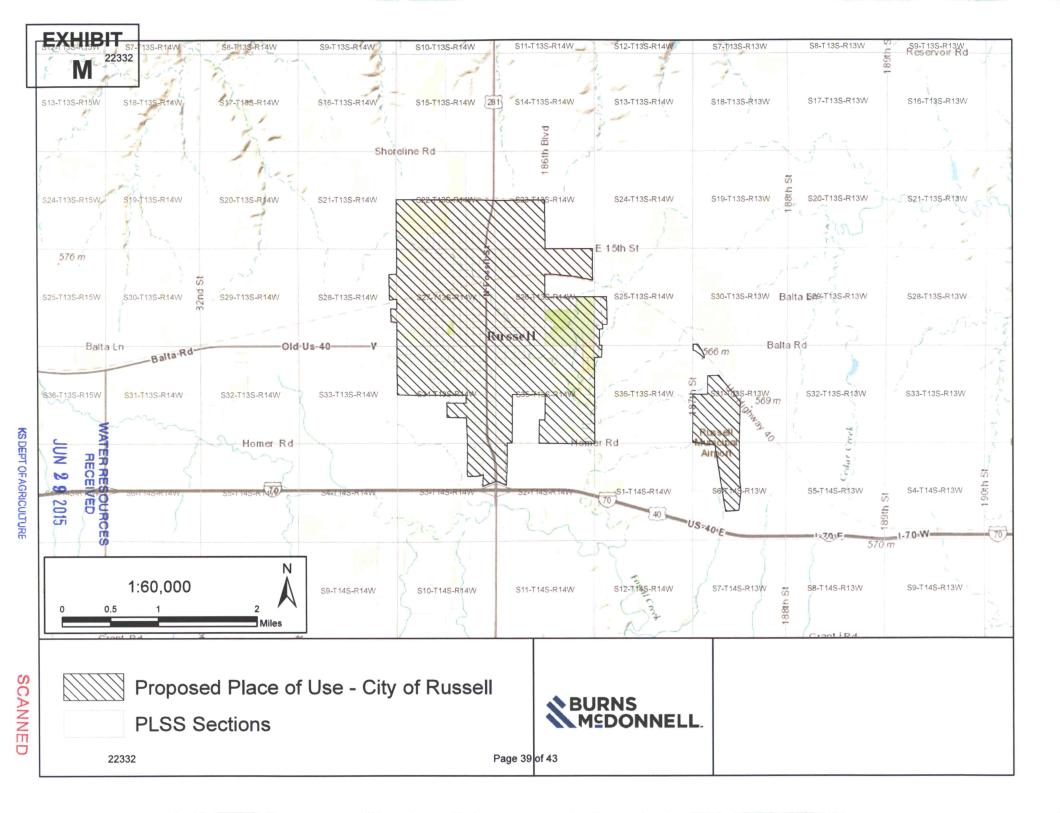






22332 Page 37 of 43





22332 Applicant's Name	City Of Hays KS	
	(Please Print)	

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

**Application File Number** (assigned by DWR)

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

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

#### UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

- The amount of raw water diverted from all of your points of diversion.
- The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office. Column 2:
- Column 3: The amount of water sold wholesale to all other public water supply systems.
- 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 Column 4: 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 Column 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

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

Percent Unaccounted = Unaccounted For Water x 100 For Water 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.

**EXHIBIT** 

**SECTION 2: PAST WATER USE** 

,	OLUMBIA. I AUI	WAILINGGE						
	co	MPLETE THE FOLLO						
<b>2</b>	ER RES	Column 1	Column 2	Column 3	Column 4 Water Sold to Your	Column 5 Water Sold to Your	Column 6	Column 7
9 20	SOU	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers		Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Above Explanation)
ज	20 years ago	592,323,000			5,029,000	469,314,000	5,155,000	112,825,000
	15 years ago	780,527,000			10,619,000	587,965,000	10,470,000	171,473,000
	10 years ago	706,926,000			7,103,000	639,222,000	20,861,000	39,740,000
	5 years ago	693,966,000			13,537,000	581,900,000	19,362,000	114,383,000
S		TOTAL WATER	= Columns 1 + 2	A	CCOUNTED FOR WATER	= Columns 3 + 4 + 5 + 6		UNACCOUNTED FOR WATER

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223	32			
<b>SECTION 3:</b>	PROJECTED	<b>FUTURE</b>	WATER	NEEDS

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

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

#### **SECTION 4: POPULATION AND SERVICE CONNECTIONS**

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

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

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

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

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

#### Provide number of current active service connections:

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

#### 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

673,753,000 ÷ 365 Days/Year = 88 GALLONS PER PERSON PER DAY. Amount of water in Population from Last Columns 5, 6, and 7 Year of Section 4

#### SECTION 6: AREA TO BE SERVED

of Section 1

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

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

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

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Applicant's Name	City of Russell	
22332		

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

Application	File Number	
(assigned	d by DWR)	

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

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

#### **UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER**

- The amount of raw water diverted from all of your points of diversion.
- 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.
- 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 Column 4: water per year.
- 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 5:
- 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 Column 7.

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

Percent Unaccounted = Unaccounted For Water x 100 Total Water (Columns 1,2) For Water

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

**EXHIBIT** 

SECTION 2: PAST WATER USE

COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

— m 2								
29	RESC	Column 1 Column 2		Column 3	Column 4 Water Sold to Your	Column 5 Water Sold to Your	Column 6	Column 7
2015	Raw Water Diverted Water Purchased Under Your Rights From All Sources		Water Sold to Other Public Water Suppliers	Industrial, Stock, and Bulk Customers	Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Above Explanation)	
20 years ago								
15 years ago		373,757,000	0	0	171,928,220	115,864,670	18,687,850	67,276,260
10 years ago		477,486,000	0	0	222,781,000	147,340,000	19.483,000	87,882,000
5 years ago		375,790,000	0	0	144,277,000	123,343,000	18,907,000	89,263,000
		TOTAL WATER = Columns 1 + 2 ACCOUNTED FOR WATER = Columns 3 + 4 + 6 + 6					UNACCOUNTED FOR WATER	

SECTION 3: PROJECTED FUTURE WATER NEEDS

DI EACE COMPLETE THE FOLLOWING TABLE CHOMING VOUR PUTURE WATER D	EQUIDENTALIZA FOR THE NEVT OF VEARS.
PLEASE COMPLETE THE FOLLOWING TABLE SHOWING YOUR FUTURE WATER R	EQUIREMENTS FOR THE NEXT 20 YEARS:

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

## SECTION 4: POPULATION AND SERVICE CONNECTIONS ESTIMATE THE NUMBER OF PERSONS DIRECTLY SERVED BY YOUR WATER DISTRIBUTION SYSTEM

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

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

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

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

#### Provide number of current active service connections:

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

#### SECTION 5: PRESENT 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.