MEMORANDUM

TO:

File

DATE:

May 1, 2018

FROM:

Amber Herring

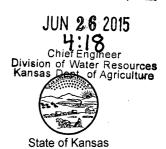
SUBJECT:

Date Stamping Mail

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

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

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



Filing Fee Must Accompany the Application

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

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

1.	Application is hereby made for approval of the Chief Engineer to Dange the Bartield, PE. RECEIVED											
	Check one or more) Place of Use JUN 28 2015 JUN 29 2015											
	✓ Use Made of Water Division of Water Resources KS DEPT OF AGRICULTURE Lansas Dept. of Agriculture											
	File No22,338 Circle 28.											
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; wowner 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)											
F.C	Office Use Only: A GMD 5 Meets K.A.R. 5-5-1 (FS / NO) Use RR Source G S County ED By KAB Date to 29 15 E C-3 Fee \$ 100 TR # Receipt Date to 22 15 Check # 058328											
	of 21000 15053309											
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DWR 1-120 (Revised 06/16/2014) 22338

Assisted by:

File No. 22,338

4.	The presently	v authorized	place o	fuse is:
т.	The present	y authorized	place c	'i use is.

Owner of Land — NAME: <u>City of Hays, Kansas</u>

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

		NE	1/4			NV	V1⁄4			sv	V1/4			SE	1/4		TOTAL
Sec. Twp. Range	NE1/4	NW¼	SW1/4	SE1/4	NE¼	NW1/4	SW1/4	SE1/4	NE1/4	NW¼	SW1/4	SE1/4	NE1/4	NW¼	SW1/4	SE1/4	ACRES
10-T26S-R20W	Lot 7 46	Lot 6 32						-					19	10			107
11-T26S-R20W							2										2
_																	

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	Ξ1/4			NV	V1/4			sv	V1/4			SE	1/4		TOTAL ACRES
Sec.	Twp.	Range	NE1/4	NW1/4	SW1/4	SE1/4	NE¼	NW¼	SW1/4	SE1/4	NE¼	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	
									Sa	me a	s abo	ve							
												,							-

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

				NE	1/4			NV	V1/4			sv	11/4				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	he City of Hays, Kansas and its immediate vicinity and other locations as more															
			fully o	descr	ibed	in par	agrap	oh 5 c	of the	cove	r lette	r.						-	
																		Ì	

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

			NE¼			NW¼				sv	V1⁄4			SE	TOTAL			
Sec.	Twp.	Range	NE¼ NW	1/4 SW1/4	SE1/4	NE1⁄4	NW1⁄4	SW1/4	SE1/4	NE1/4	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	ACRES
			The City	of Rus	sell,	Kans	as and	d its in	nme	diate vicinity and other locations as more							ore	
			fully des	cribed	in pai	ragraph 5 of the cover letter.												

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

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY SOURCES RECEIVED

JUN 2 9 2015

The presently a				(Provide description and number	r of points)	
The proposed i	point(s) of divers	sion (is) (are) one or mo	re municipal	l wells; see paragraph 7	of the cover	letter.
List all presen	tly authorized	point(s) of diversion:		(Provide description and number	of points)	
Presently auth	norized point of	f diversion:				
One in the	Lot 7	Quarter of the		Quarter of the		Quarte
of Section	10	Township	26	South Range	20	Quant
in Edw	ards Co	ounty Kansas 3.152	feet North	Quarter of the South, Range 1,043 feet West of So	outheast corne	r of section
Authorized Rat	e 950 gpm	Authorized Quantity	89 a/f		amouot come	1 01 0000011.
				 feet North	feet We	est)
		nged This point wil				,
Proposed poir	nt of diversion:	(Complete only if change	<u>je is requeste</u>	<u>ed)</u>		
One in the	SW	Quarter of the	NE	Quarter of the	SE	Quarte
of Section	10	, Township	26	 South, Range	20	(%E/W
inEdv	<u>/ards</u> Co	ounty, Kansas, <u>1,863</u>	_ feet North _	South, Range883feet West of Sc	utheast corne	r of section.
Proposed Rate	950 gpm	Proposed Quantity _	141.12 a/f	<u>·</u>		
This point is:	Additional We	II ☐ Geo Center List o	ther water righ	nts that will use this point _	22,339; 2	27,760
Drogontly outh	orized point of	i diversion.				
	orized point of			Ougarter of the		Ounda
of Section	10	Quarter of the	26	Quarter of the South, Range	20	Quarte
in Fdv	ards Co	, rownship	foot North	South, Range 703 feet West of So	20	(IX /VV
		Authorized Quantity			outneast corne	r or section.
Authorized Rati	P /02 2011	Authorized Quantity	/) // /			
/DWD was and					£4 \#/-	- 41
	y: Computer ID	No GP	s	feet North	feet We	st)
☐ This point v	y: Computer ID vill not be chan	No GP ged	S be changed	feet Northas follows:	feet We	st)
☐ This point v	y: Computer ID will not be chan nt of diversion:	No GP ged This point will (Complete only if change	S be changed le is requeste	feet North as follows: ed)		
☐ This point very Proposed point One in the	y: Computer ID will not be chan nt of diversion: SW	No GP Iged This point will (Complete only if chance Quarter of the	S be changed le is requeste NE	feet Northas follows:	SE	Quarte
This point v Proposed point One in the of Section	y: Computer ID will not be chan at of diversion: SW 10	No GP Iged This point will (Complete only if change Quarter of the , Township	s be changed le is requeste NE 26	feet North as follows: ed) Quarter of the South, Range	SE 20	Quarte (% ://W)
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This point v Proposed point One in the of Section inEdw Proposed Rate This point is: Presently auth One in the	y: Computer ID will not be chan nt of diversion: SW 10 ards Co 950 gpm Additional Wel	O No GP Iged This point will (Complete only if chang Quarter of the ounty, Kansas,1,863 Proposed Quantity II	be changed le is requeste NE 26 feet North 141.12 a/f ther water right	feet North as follows: ed) Quarter of the South, Range 883 feet West of Souths that will use this point Quarter of the	SE 20 outheast corne 22,339; 2	Quarte & & W. Tof section. 7,760 Quarte
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12. The presently authorized use of water is for <u>irrigation</u>

File No22,338
poses. purposes.
se will not be increased. municipal use and paragraph
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ble (acre-feet or million gallons).
le gallons per minute (c.f.s.).
ical Survey Topographic Map, scale e, University of Kansas, Lawrence, ntly authorized point(s) of diversion. e presently authorized place of use on corners and show the appropriate must also be shown on the map.
f the Southeast corner of the section grees with the information shown in
water wells of any kind, including as to its use and furnish name and mile, please indicate so on the map.
all landowner(s) ½ mile downstream
sshatching on the map. Please be Paragraph No. 5 of the application.
vater rights and relates to the same e statements, plats, geology reports, pove. Additional comments may be

	сс ра	WATER RESOURCE RECEIVED
	JU Da	U I
ide rec	entify quest I not p	oposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, pleas the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why th should be granted. Attach documentation showing that granting the request will not impair existing water rights an prejudicially and unreasonably affect the public interest.
	ade bo	elow. ragraph 17 of the cover letter.
loc we	al so Il log	documentation to show the change(s) proposed herein will not impair existing water rights and relates to the sam 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 b
b.		change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please b tain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.
	3)	If the source of supply is surface water, the names and mailing addresses of all landowner(s) ½ mile downstrear and ½ mile upstream from your property lines must be shown.
	2)	If the source of supply is groundwater, please show the location of existing water wells of any kind, includin domestic wells, within ½ mile of the proposed well or wells. Identify each well as to its use and furnish name an mailing address of the property owner or owners. If there are no wells within ½ mile, please indicate so on the map
	')	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.
a.	па 1)	change in the location of the point(s) of diversion is proposed, show: The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section
se	ction,	also be shown. Identify the center of the section, the section lines and the section corners and show the appropriat township, and range numbers on the map. In addition the following information must also be shown on the map.
1:2 Ka Dis	24,00 insas stanc	plication must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scal 0, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence 66047-3726 (www.usgs.gov). The map should show the location of the presently authorized point(s) of diversion es North and West of the Southeast theorem of the section must be shown. The presently authorized place of us
. It i	s req	uested that the maximum rate of diversion of water be reduced to not applicable gallons per minute (c.f.s.
. It i	s req	uested that the maximum annual quantity of water be reduced to <u>not applicable</u> (acre-feet or million gallons
(PI	ease s	show any calculations here.)
13	OI ti	ie cover letter.
		e attached discussion regarding the quantity of water to be changed to municipal use and paragraph he cover letter.
		ging the place of use and/or use made of water, describe how the consumptive use will not be increased.
. If c	chanc	tion the place of the product of the first terms of

22338

KS DEPT OF AGRICULTURE

File No.	22,338
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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 authorized to make this application on their behalf, and declared complete. By filing this application I authorize the chief enginess specified in sections 14 and 15 of this application.	lare further that the	e statements conta	ined herein are true.	correct, and
Dated at Russell, Russell County Kan	nsas, this <u>23rd</u>	day of	June , 2	0 15
			,	
(Owner)		(St	ouse)	
City of Hays, Kansas, by Toby Dougherty, City Mana	ager			
(Please Print)		(Plea	se Print)	
(Owner)	-	(Sp	oouse)	
(Please Print)		(Plea	se Print)	
(Owner)	· -	(Sp	ouse)	
(Please Print)			se Print)	
State of Kansas County of Russell	NOTARY PUBLIC - (MALINDA My Appt. Expires	MORSE,	٠ 	,
I hereby certify that the foregoing application was signed, 20/	in my presence a	and sworn to before	e me this $\frac{34}{2}$	d day of
My Commission Expires	<u> </u>	Ollm d Notar	g Public	20
FEE	SCHEDULE			
Each application to change the place of use, the point of diversion capplication fee set forth in the schedule below:	or the use made of th	e water under this se	ection shall be accompa	anied by the
 (1) Application to change a point of diversion 300 feet or le (2) Application to change a point of diversion more than 30 (3) Application to change the place of use (4) Application to change the use made of the water 	00 feet			\$200
Make check payable to Kansas Department of Agriculture.				.*

22338

Page 5 of 38

KS DEPT OF AGRICULTURE

JUN 2 9 2015

WATER RESOURCES
RECEIVED

File No	22,338
FIIE IVO.	,

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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 authorized to make this application on their behalf, and decomplete. By filing this application I authorize the chief engas specified in sections 14 and 15 of this application.	eclare furth	er that the	statements	s contained herein	are true, correct, and
מו מוי מ	(ansas, this _	23rd	day of	June	, 20 <u>15</u> .
(Owner)				(Spouse)	
City of Russell, Kansas, by Jon Quinday, City Mana	ager _				
(Please Print)				(Please Print)	
(Owner)				(Spouse)	
(Please Print)				(Please Print)	
(Owner)				(Spouse)	
(Please Print)				(Please Print)	
State of Kansas County of Russell I hereby certify that the foregoing application was signe	man My	MALIND Appt. Expires		8	23/20/ day of
e, 20	a in my p	escrice a	na swom a	o belote the this t	Or Car day of
My Commission Expires 6 15 18	-	m	ali	Notary Public	Jose
<u>FI</u>	EE SCHEDU	LE		,	
Each application to change the place of use, the point of diversion application fee set forth in the schedule below:	n or the use	made of the	e water unde	er this section shall be	e accompanied by the
 (1) Application to change a point of diversion 300 feet or (2) Application to change a point of diversion more than (3) Application to change the place of use (4) Application to change the use made of the water 	300 feet				\$200 \$200
Make check payable to Kansas Department of Agriculture					

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Proposed Rate and Quantity

The Cities are requesting a total of 141.12 acre-feet and 950 gpm from the wells associated with this water right, all of which will be diverted from new point of diversion L, as shown on Exhibit J. When combined with existing wells from other water rights, new point of diversion L will have a cumulative total of 426.24 acre-feet and 2,430 gpm.

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

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

DWR Regulation, K.A.R. 5-5-9(a), provides that the default calculation used to address the consumptive use issue allows the conversion of 116.64 acre-feet to municipal use. As discussed below, 108 approved acres irrigated during the perfection multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 116.64 acre-feet.

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

Quantity authorized and perfected

The permit was issued on March 19, 1976, granting the applicant the right to divert up to 196 acre-feet annually at a rate not to exceed 1,000 gallons per minute for irrigation use⁴ on 108 acres in Sections 10 and 11-T26S-R20W.⁵ The certificate further limited the wells to a rate of 950 gallons per minute when operated simultaneously.⁶

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."⁷

The Field Inspection Reports indicate that all of the 196 acre-feet authorized by the permit were lawfully perfected.

• 167 acre-feet⁸ and 113.2 acre-feet⁹ (280.2 acre-feet) were applied to 108 approved acres in Sections 10 and 11-T26S-R20W.

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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, HAY-S003231, Ex. A.

⁵ Application, HAYS003222, Ex. B.

⁶ Certificate, HAYS003242, Ex. C.

⁷ March 19, 1976, letter (emphasis added), HAYS003230, Ex. D.

⁸ FIR, HAYS003207, Ex. E.

⁹ FIR, HAYS003213, Ex. F.

While the certificate limits the total quantity to 162 acre-feet based on DWR's after-the-fact determination that 1.5 acre-feet per acre was a reasonable quantity for irrigation use, DWR did not have jurisdiction to make this reduction.¹⁰

Since the perfection period has expired, the "authorized quantity" for this water right is the 196 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 196 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 141.12 acre-feet, should be available for conversion to municipal use. This is less than the 196 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 141.12 acre-feet for municipal use.

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¹⁰ Certificate, HAYS003242, Ex. C; Doug Bush Memo dated August 19, 1994, HAYS003234, Ex. G; and *Clawson v. Kansas Dept. of Agriculture, Div. of Water Resources*, 49 Kan. App. 2d 789, 315 P.3d 896 (2013).

¹¹ 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 Memo dated August 19, 1994, HAYS003234, 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. 22,338

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 in the Southwest Quarter of the Southeast Quarter of the Northeast Quarter (SW4 SE4 NE4) and one well in the Southeast Quarter of the Southeast Quarter of the Northeast Quarter (SE4 SE4 NE4) of Section 10, Township 26 South, Range 20 West, in Edwards County, Kansas, located substantially as shown on the aerial photograph accompanying the application.

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4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of

JUN 2 9 2015

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

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and to a quantity of not to exceed

22338

196 acre-feet

for any calendar year.

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(OVER)

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HAYS003231

FIELD OFFICE DIVISION OF WATER RESOURCES STAFFORD

circle 28

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5. That installation of works for exercision 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.

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Dated this 19th day of March

19 76

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Page 10 of 38

Guy F. Gibsoh, Chief Engineer Division of Water Resources Kansas State Board of Agriculture

HAYS003232

THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE
Roy Freeland, Secretary

DIVISION OF WATER RESOURCES

Guy E. Gibson, Chief Engineer

22,338

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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	of the Division of Water Re	esources, Kansas State Board of Agri	culture:	
Comes now the ap	(Mr.) (Mrs.) pplicant (Miss) <u>Midwes</u>	it Land and Cattle Co.	whose post office	
address is Box 208 I	Kinsley, Kansas 6754	7		
and makes application t	o the Chief Engineer of th	ne Division of Water Resources, K	ansas State Board of Agri-	
culture, for a permit to	appropriate for beneficial	use such unappropriated m grou	mdwater prises water or groundwater)	
as may be available in	the Arkansas River			
state of Kansas, to the e	(name of stream or drainage extent and in accordance v	obsin) with the particulars hereinafter desc	cribed:	
	water desired is in the amo	196	ere feetper year, to be	
diverted at a maximum r		minute minute or cubic feet per second)		
and the same	the proposed wells or other	r works for diversion of water is in South tion 10 , township Brown 2		
Fdwards	County, K	Cansas.		
Location of secon	ended to be annihitated	determined until test w	oll is drilled	
ON OF WATER REA	orada to be appropriated	/ well in the SW SE	NE	
of the second	(a) Domestic use	()	MICROT MEL)
MAY 02 1974	(b) Municipal use	()		WATER RESOURCES
PG m.	(c) Irrigation use	(x) 320% acre ft./yr.	- 1000 gals./min.	RECEIVED
APO OF ACRICULT	(d) Industrial use	()		JUN 2 9 2015
OF WATER REGI	(e) Recreational use	() MAR 2 0 1976	- received	
ALLEIVED E	WATER Tower use	() FIELD OFFICE	COURCES	KS DEPT OF AGRICULTURE
^{1AY} 09 1975 , \$ € (Check intended use pruses	and the whitended quantity for Paci	h use)	
	CT 1 5 1975	S affin S	DWISION CHAYSOOSS	≿tes

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

	(Owner of	Land-	-NA	ME:_	Mic	lwes	t La	und i	& Ce	attl	e Co								
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Owner of Land—NAME: JUN 2 9 2015														JUN 2 9 2015						
ADDRESS:																				
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	HAYS003222												22							

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two wells with two pumps
7. The works for diversion of water will consist of MMCXMILLY WILL YOUR YOUR YOUR CIPCLE aprinkle
irrigation system (two motors)
(wells, pumps, etc.)
and will be completed by July of 1974 (Date)
8. The first actual application of water for the beneficial use proposed was or is estimated to be
July of 1974 (Date)
9. The application must be accompanied either by a detailed plat prepared from an actual survey or by
an aerial photograph of the area.
The plat or aerial photograph should show
(a) Location of the proposed point or points of diversion
(b) Location of the pipe lines, canals, reservoirs or other facilities for conveying water from the
point of diversion to the place of use
(c) If for irrigation, show the location of the land proposed to be irrigated
(d) If for industrial or other use, show the location of the land where water will be used.
10. List and describe other applications filed or vested rights held by applicant:
Irrigation wells and land is in the process of being bought from a
company known as the Kinsley Joint Venture (Wheatheart Land Co.)
Applications for water rights have been filed
agent
11. The relation of the subscriber to this application is that of (Owner, agent or otherwise)
and he is authorized to make this application in behalf of the interest affected.
Dated at Kinsley , Kansas, this 22 day of Oppoint 1974
·
Midwest Land & Cattle Co.

MICROFILMED

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.

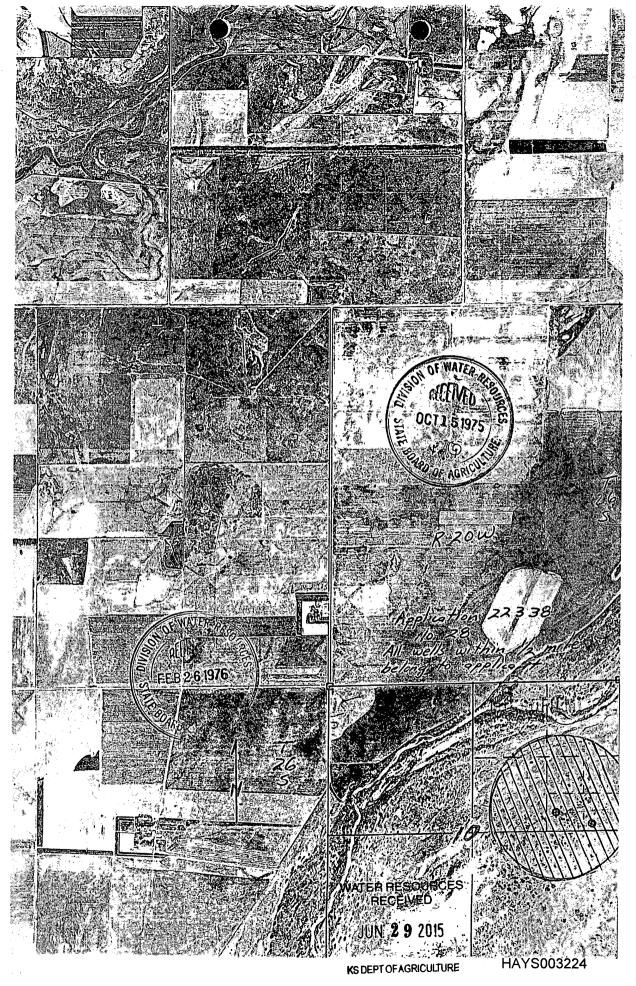
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HAYS003223











STATE BOARD OF AGRICULTURE Phillip A. Fishburn, Acting Secretary DIVISION OF WATER RESOURCES
David L. Pope, Chief Engineer

DUPLICATE COPY

CERTIFICATE OF APPROPRIATION

FOR BENEFICIAL USE OF WATER

WATER RIGHT, File No. 22,338

PRIORITY DATE May 2, 1974

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

NOW, THEREFORE, Be It Known that DAVID L. POPE, the duly appointed, qualified and acting Chief Engineer of the Division of Water Resources of the Kansas State Board of Agriculture, by authority of the laws of the State of Kansas, and particularly K.S.A. 82a-714, does hereby certify that, subject to vested rights and prior appropriation rights, the appropriator is entitled to make use of groundwater in the drainage basin of the Arkansas River to be withdrawn by means of two (2) wells:

one (1) well located in Lot 7 of Section 10, more particularly described as being near a point 3,152 feet North and 1,043 feet West of the Southeast corner of said section, at a diversion rate not in excess of 950 gallons per minute (2.11 c.f.s.) and a quantity not to exceed 89 acre-feet of water per calendar year, and

one (2) well located in Lot 7 of Section 10, more particularly described as being near a point 2,705 feet North and 730 feet West of the Southeast corner of said section, at a diversion rate not in excess of 785 gallons per minute (1.74 c.f.s.) and a quantity not to exceed 73 acre-feet of water per calendar year,

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

for irrigation use on the following described property:

46 acres in Lot 7 (E½ NE½),

32 acres in Lot 6 (Wigh NEigh),

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

10 acres in the Northwest Quarter of the Southeast Quarter (NW SE%),

a total of 107 acres in Section 10,

JUN 2 9 2015

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02 acres in the Southwest Quarter of the Northwest Quarter (SW1 NW1) of Section 11,

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

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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 950 gallons per minute (2.11 c.f.s.) for irrigation use on the property described herein. HAYS003242 SCANNED

DUPLICATE COPY

The appropriator shall maintain in an operating condition, satisfactory to the Chief Engineer, all check valves installed for preventing chemical or other foreign substance likely to cause 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 by March 1 following the end of the previous calendar year.

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

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

IN WITNESS WHEREOF, I have hereunto set my band at my office as Topical X kansas, this

DAVID L. POPE

David L. Pope, P.E.

Chief Engineer

Division of Weter Resources

Kansas State Board of Agriculture

STATE OF KANSAS, Shawnee COUNTY, as.

The foregoing instrument was acknowledged before me this

day of NDU., 19 by David L. Pope, P.E., Chief Engineer, Division of Water Repayment, Kansas State Board of Agriculture

Signature:

NOTARY

PUBLIC

Notary Public

Notary Public

OF Kansas State Board of Agriculture

COUNTY, 85. (Record in the Office, of Register of Deeds in the county WATER RESOURCE counties wherein the point of diversion is located) RECEIVED WATER APPROPRIATION CERTIFICATE o'clock STATE OF KANSAS JUN 2 9 2015 21835 KS DEPT OF AGRICULTU STATE OF KANSAS, Filed Oor record this Water Right, File No. HAYS003243 recorded in Book 22338 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. 22,338

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,

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JUN 2 9 2015

Riley M. Dixon Hydrologist

KS DEPT OF AGRICULTURE

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Encs.

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by 1728 gpm 5570 x 162 A.F. = 69 A.F.

211 a.G.) Perfected Quantity SHOYS003207 SCANNED Perfected Rate 950 g.p.m. (2.11 c.f.s.) Perfected Quantity _ DWR-101 22358 Ompleted by D. F. Page 18 of 38-1 9-94

MICROPILMED

GENERAL INFORMATION ON TRIGATION SYSTEM:

Center Pivot	
Manufacturer Zimma Eig Model 307	Serial No4782
Drive: Water Z Electric Length of Pivot Arm	acres irr
Design Pressure-Pivotp.s.i. Operating Pres	ssure-Pivotp.s.i.
Is there an End Gun? (yes () no Is end gun operating during	Test (yes () no
End Gun Model Rain Bird 85 Rating g.p.m. Orifice	size
☐ Gravity Irrigation	
Items to be shown on sketch of system: 1) Layout of pipe, 2) sizes of pip	pe, 3) type of pipe, 4) set which was
tested, 5) test location and 6) hydrant location.	
Description	
Other Type	
Manufacturer Model	Serial No
	·
unusual condition/other information	
POWER UNIT INFORMATION:	
Manufacturer Ford Model No. 42	8 — нР — —
Manufacturer Ford Model No. 429 Serial No. Fuel propane	Rated RPM
PUMP INFORMATION:	
Manufacturer Fair banks Morse Model No. 12m.	Rated RPM
Serial No. N 2 W 2440 0 x Type Vertical Turbin	
GEAR HEAD INFORMATION:	
Manufacturer N.S. Motors Model No. 60 HP	
Serial No. 0-9556-00-11-AZDrive Right Angle	Ratio
WELL INFORMATION:	
Date Drilled Ang 1974 Original Depth 41 ft. Static W	Vater Level When Drilled ft.
Length of time well has () operated (> rested prior to measurement	
Is measurement tube required? () yes (no Is measurement tube prese	
Depth to water ft. below LSD.	WATER RESOURCES
ADDITIONAL REQUIREMENTS:	RECEIVED
Is a meter required? () yes (X) no Make of Meter	JUN 2 9 2015
Meter Model No Serial No Sig	ZE KS DEPT OF AGRICULTURE
Meter Model No. Serial No. Size Is the meter installed properly? () yes () no Check	ck Valve Present? (yes () no
	injection system? () yes 🙀 no
	acuum Breaker? 💓 yes () no
Plant Health Chemigation Report completed? > yes () no	SCANNED
Plant Health Chemigation Report completed (54) yes (7) no	HAYS003208

22338

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TEST OF DIVERSION RATE:

N

Scale

Location of test Herron Pipe Diameter (I.D.)	inches	fore pivo	t stand	<u>-1</u>
Test No. 1—Normal Conditio	ns	Test No. 2—	Maximum C	onditions
	036 697	R.P.M. POW R.P.M. PUM		
	68 psi			ps ps
☐ Jacuzzi Meter Test	Meter	Identification No.		·
Area Constant $K = 2.45 \times 1$.	D.4 =		•	Q (gpm) = VK
Velocity (fps)		Velocity (fps)		
2		1 2		
3	•	3.		
4		4		
5	RECE	IVED"		 ·
6		6		
8				
9	דבס ונ) 199 5		
10	PIEUL	:/×z10		
Total	DIVISION OF THE	Fotalsources		
Avg	STAFFO	Wg		
G. P. M	•	G.P.M		

☐ Propeller Meter Test	Manufacturer	Model	Serial No
Meter Diameter	inches		WATER RESOURCES RECEIVED
EndingBeginning	gal. Ending gal. Beginn	gal. inggal.	JUN 2 9 2015

gal. SCANNED Time_ min. _inin. Time_

KS DEPT OF AGRICULTURE

Other Flow Meter

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

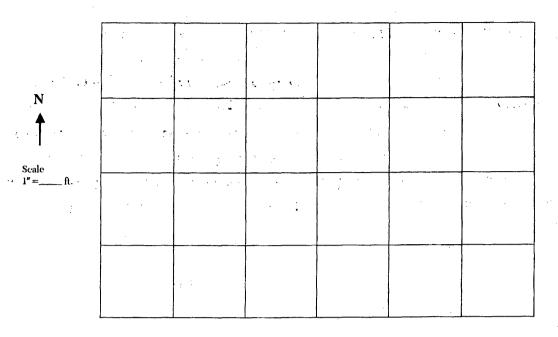
TABULATION OF WATER	USE:	Domontod			
Year	Hours Pumped (hr)	Reported Pumping Rate (gpm)	Water Used (AF)	Acres Irrigated	
1975	1512	1000		125	
1976					
1977	1262	1000		108	
1978			:		
1979					
1780	580	700		130	
1181					
1982					
1983	PIK				
* 1984	1750*	947 **		107*	
1485	1600 =	675 *		107 [‡]	
1986					
1987					
	** obta	ined from te	st data		
		-			
Indicate Year of Record with	(*)	Source of Information	on Staffor	d Files	
Crops Irrigated: this year				rd ?	-
FUEL RECORDS: (Complete	•				_
☐ Electricity					
Meter Manufactur	•	Туре_		Serial No	_
Kwatt/r		revolutions	tse		_
	,				
Rate = $\frac{\text{Kr} \times 3.6}{\text{t}}$		_kw/hr Ho	urs =	<u>kw-hr</u> =	
Other Fuels	Туре	Suppl	ier		
	-) I ⁻	J. P.			
Rate = Volume (test) =	polymentern turnenyy diliki sud			
	volume determined			·	-
REMARKS: SRE AT	7114447 324	Malles	020 (1000)	SIDE A YEAR OF	_
JOSCHO.				V	_ VATER RESOURCES
					RECEIVED
					JUN 2 9 2015
					_
	1 K 11 h				KS DEPT OF AGRICULTURE
Person present at test	(nume)	San 111 1	17021	tenant (relationship)	SCANNED
Water Use Correspondent	Grea Effer			3/6-385-3803 (phose number)	
1:1,21	1 0	?	Date	10/15/87AYS0032 11/15/87	1 U
Approved by Manager (Signature)		Page 24 of 38	Date	11401	-

Field G.M.	BIT 22338	ce No	. <u>2</u>	Div	/ISION	•,	\ter ¦IEI	reso LD 1	urces NSP	–KAI EC	nsas s CTIC	TATE OF THE PARTY	STATE OF THE PARTY	TW.	987	TU	RE	□ P: 52 F □ R				
Test.	2	of	2_D	iversi	on po	oints	Co	unty_	Eol	wa	rd.	SE	NUV	PA P		NATURE S	•	·				
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Ac. F	t. Ap	plied	= 78	7. 5	lırs	. ×_	18	/	_ g.p.n	n. ×	94	.419 × 100	, () =		3.2	AF.		, ,	. ,	WAT	ER RESOUR	CES
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Total .	AF (i	neludi	ing ov	erlapp	oing F	files) .								(_ AF	acre)	* .	KS DE	EPT OF AGRICULT	JRE
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GENERAL INFORMATION ON IRREATION SYSTEM:

☑ Center Pivot	
Manufacturer Zimmatic Model 307 Serial No. 4782	-
Drive: Water Z Electric Length of Pivot Arm acres irr. 108	-
Design Pressure-Pivotp.s.i. Operating Pressure-Pivotp.s.i.	
Is there an End Gun? (X) yes () no Is end gun operating during Test (2) yes () no	
End Gun Model Rais Bird 85 Rating g.p.m. Orifice size	
☐ Gravity Irrigation	
Items to be shown on sketch of system: 1) Layout of pipe, 2) sizes of pipe, 3) type of pipe, 4) set which was	;
tested, 5) test location and 6) hydrant location.	
Description	
Other Type	
Manufacturer Model Serial No	
unusual condition/other information	-
Constant Condition Francisco	
	•
POWER UNIT INFORMATION:	
Manufacturer Ford Model No. 300 HP	
Serial No. 08941 E-23-74 Fuel propane Rated RPM	
PUMP INFORMATION:	
Manufacturer Johnston Model No. Rated RPM	
Serial No. CF21225 Type Vestical Tusbine No. stages	
GEAR HEAD INFORMATION:	İ
Manufacturer Randolph Model No. 70 B	
Serial No. 73931 Drive Right Angle Ratio 1:1	
WELL INFORMATION:	,
Date Drilled Nov 1974 Original Depth 37 ft. Static Water Level When Drilledft.	
Length of time well has () operated 💢 rested prior to measurement90 (💢 days () hrs	
·	WATER RESOURCES
Depth to water ft. below LSD.	RECEIVED
ADDITIONAL REQUIREMENTS:	JUN 2 9 2015
Is a meter required? () yes () no Make of Meter	
Is a meter required? () yes (x) no Make of Meter	KS DEPT OF AGRICULTURE
Is the meter installed properly? () yes () no Check Valve Present? (**) yes () no	_
Injection port present? () yes () no Operating an injection system? () yes 😾 no	
Low Pressure Drain? (yes () no Vacuum Breaker? (yes () no	SCANNED
Plant Health Chemigation Report completed? 😝 yes () no 🚻	
HAYS0032	14

22338



TEST OF DIVERSION RATE:

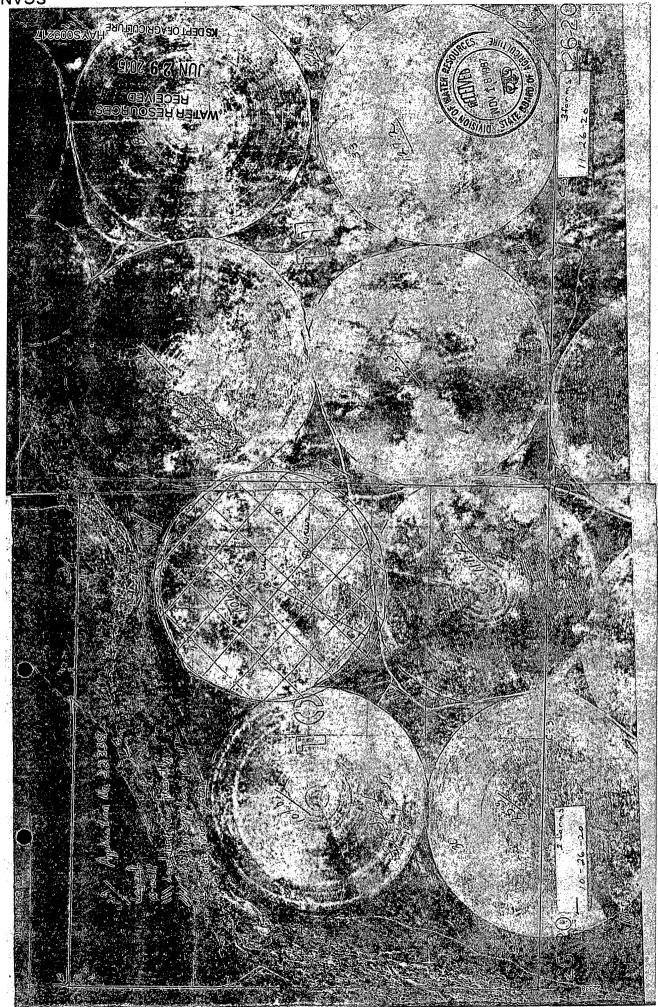
Location of test Ho Pipe Diameter (I. D	(izontal Pipe at C .) 874 inches	enter Pivot	
Test No. 1-Norma	d Conditions	Test No. 2—Maximo	um Conditions
R.P.M. POWER U R.P.M. PUMP UN Pressure at Pump	IT 1135	R.P.M. POWER UN R.P.M. PUMP UNI Pressure at Pump	
☐ Jacuzzi Meter Test	. Met	er Identification No	
Area Constant K =	2.45 × 1.D. ² =		Q (gpm) = VK
7	RECEIVI	5 9	

☐ Propeller Meter Test	Manufactur	er	Model	Serial No	WATER RESOURCES RECEIVED
Meter Diameter	inches				JUN 2 9 2015
Ending	gal.	Ending	gal.		
Beginning	gal.	Beginning	gal.		KS DEPT OF AGRICULTURE
Difference	gal.	Difference	gal.		No DEL TOTAL TOTAL ONE
Time	nin.	Time	nin.		
Rate	goin	Rate	gpm		SCANNET

Other Flow Meter

Use Supplemental Sheet (include meter identification, data and calculations) \$5003215

TABULATION OF WATE	R USE:	Reported			
Year	Hours Pumped (hr)	Pumping Rate (gpm)	Water Used (AF)	Acres Irrigated	
1975	1512			125	
¥ 1976					
1977	1262			108	
[‡] 1978					•
± /979	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			·	
¥ 1980					
± 1981			<u> </u>		
‡ 1982		,			· , · · · ·
1983	PIK				
* 1984	1750	¥781		107	
1985	1600	***************************************		107	
1486	·				
1987		781		107 Grom tena	·t)
F See Addi	tional Sheet				
* From Test	·	:			
Indicate Year of Record wit	h (*)	Source of Informa	ation 5tas	fford Files	
Crops Irrigated: this year _			Year of reco		
FUEL RECORDS: (Compl	• •	e information is not	available)		
☐ Electricity	Supplier				
Meter Manufacti	urer	Тур	e	Serial No	
Kwatt	/rev r	revolutions	ts	econds	
$Rate = \frac{Kr \times 3}{t}$.6 =	kw/hr l-	fours =rate	<u>kw-hr</u> =	WATER RESOURCES RECEIVED
	Time Pragar	e Sup	plior		JUN 2 9 2015
Z Other Fuels	Туре	<u> </u>	үмет	- Annual Control of the Control of t	
Rate = Volume	<u>e (test) =</u>				KS DEPT OF AGRICULTURE
How was the tes	t volume determin	ed?			12 41
REMARKS: Although :					
the two wells are					
		•		ther well is ha	
				s well was used	
		-		tfor 2 years.	Hecording
to the pumping					
Person present at test	yle Kolbeck		1 ve	(relationship)	SCANNED
Water Use Correspondent I	Lyle Kolbeck No	· spentyi	(address)	(1-19-87	vs
Approved by Lily W 22338 (sign ture)	me,	Page 25 of 38	Date	1/13/01	





KANSAS STATE BOARD OF AGRICULTURE Division of Water Resources

MEMORANDUM

TO: Files

DATE: August 19, 1994

FROM:

Douglas E. Bush

RE: Appropriation of Water

File No. 22,338

The quantity for the Certificate of Appropriation was calculating by prorating the quantity by tested rates. The wells are now used together to run a pivot irrigation system. The quantity per each well was thus determined by that method. It appears from information obtained from Greg Ebert on August 18, 1994, who manages and has managed the ranch for the last several years, the wells are run together and that particular pivot is nozzled for 950 gpm. By prorating the quantity per well, the need for a limitation on quantity was eliminated. A limitation on rate was needed as the wells are used together at a combined tested rate of 950 gpm. The quantities were calculated as such:

Combined rate of both wells = 1.728 gpm

North well: 947 gpm divided by 1,728 gpm = 55% x 162 AF (maximum allowable for the irrigation of 108 acres x 1.5 AF per acre) = 89 AF.

South well: 781 gpm divided by 1,728 gpm = 45% x 162 AF (maximum allowable for the irrigation of 108 acres x 1.5 AF per acre) = 73 AF.

It appears some unauthorized land may be irrigated. The place of use associated with File No. 22,338 is located in some sand hills South of the Arkansas River. Section corners are almost impossible to locate. If any unauthorized land has been irrigated it would be hard to determine. The aerial photo supplied with the original application and the aerial photo supplied with the F.I.R. appear to be almost identical. Therefore no reduction of quantity took place or unauthorized land being noted on the draft certificate letter.

Water use was reviewed and water use shows in the recent past, therefore the water right appears to be active. Douglas & Bush

Douglas E. Bush

Environmental Scientist

DEB: jt

WATER RESOURCES RECEIVED

HAYS003234

JUN **2 9** 2015

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22338

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	o 10 acre	S
10 -	40 acres	
40 -	120 acre	S
more	than 120	acres

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 χ 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.

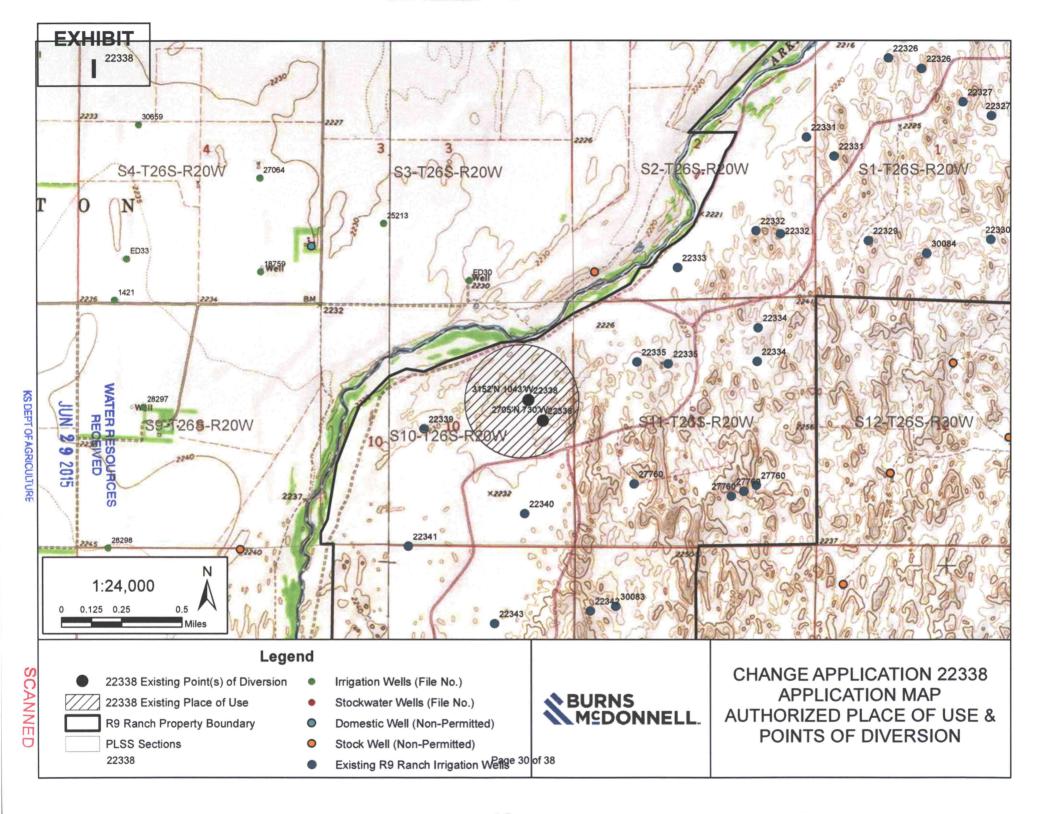
A further limiting factor to maximum allowable quantity is the availability of water from the proposed source of supply. If the source of supply is incapable of yielding a reasonably, sustainable (computed) quantity during the irrigation season in that area of the state, then the source becomes a further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

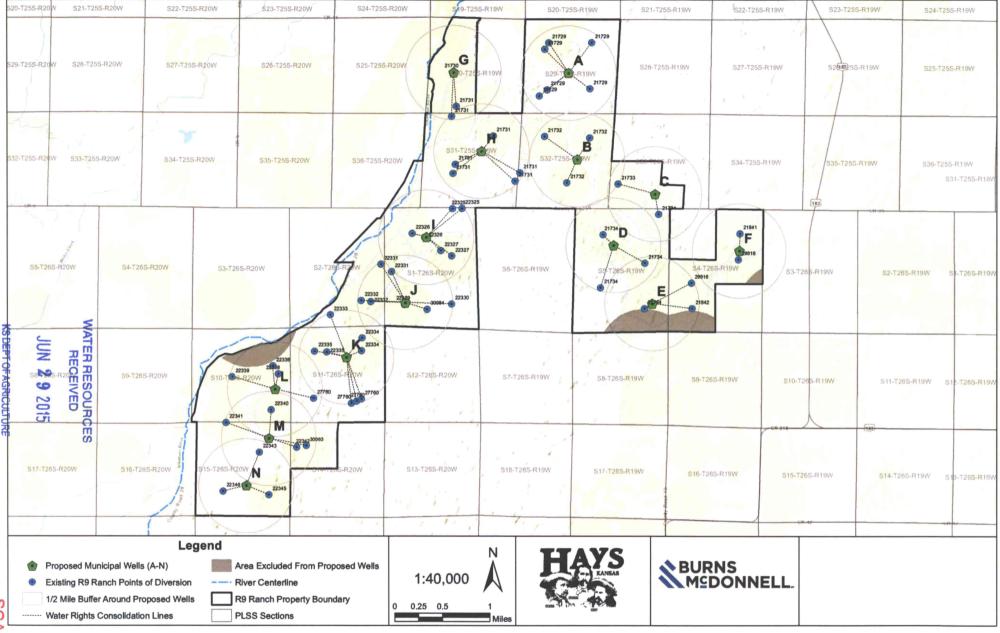
WATER RESOURCES RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

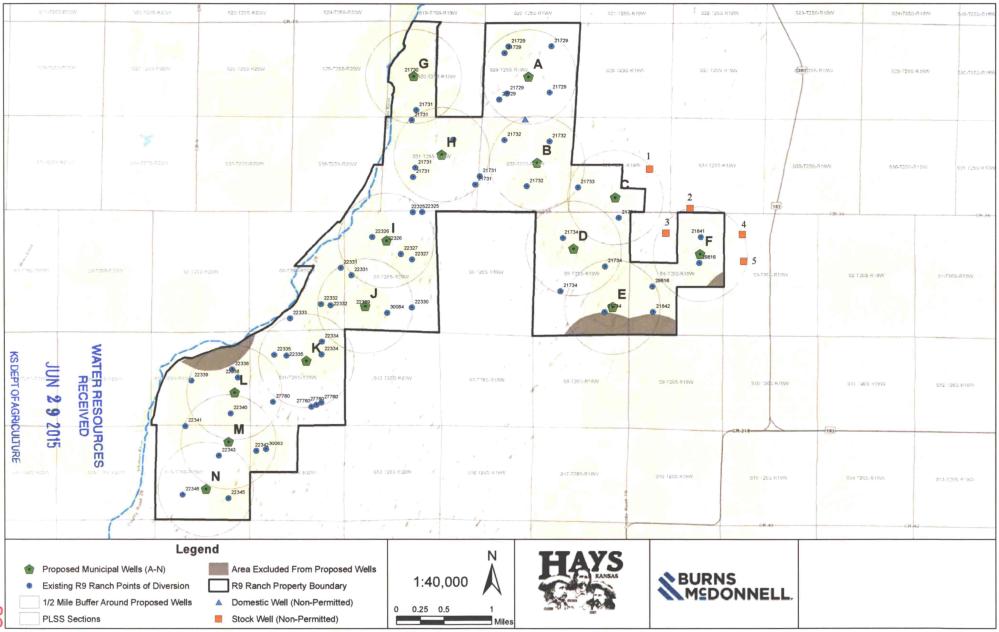




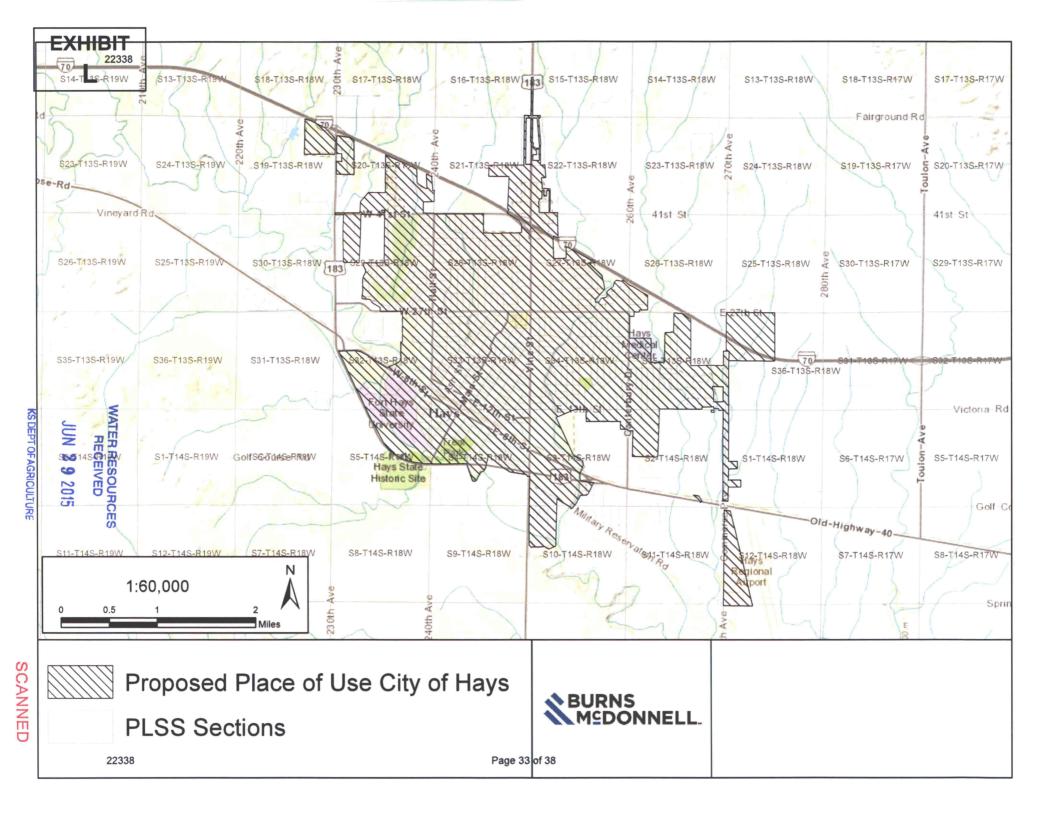


22338 Page 31 of 38





22338 Page 32 of 38



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9 2015

22338 Applicant's Name	City Of Hays KS	
	(Please Print)	

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

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

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

UNACCOUNTED FOR WATER

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

Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in 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 = <u>Unaccounted For Water</u> 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.

SECTION 2: PAST WATER USE

COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

$\leq \infty$							
8 2	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
7				Water Sold to Your	Water Sold to Your		
m	Raw Water Diverted		Water Sold to Other Public				Remaining Water Used
O	Under Your Rights	From All Sources	Water Suppliers	Customers	Customers	Metered Water	(See Above Explanation)
20 years ago	592,323,000			5,029,000	469,314,000	5,155,000	112,825,000
15 years ago	780,527,000			10,619,000	587,965,000	10,470,000	171,473,000
10 years ago	706,926,000			7,103,000	639,222,000	20,861,000	39,740,000
5 years ago	693,966,000			13,537,000	581,900,000	19,362,000	114,383,000
	TOTAL WATER	TOTAL WATER = Columns 1 + 2 ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6			UNACCOUNTED FOR WATER		



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SECTION 3:	38 PROJECTED	FUTURE	WATER	NEEDS

	LEASE COMPLETE THE	FULLUMING INDL	SUCMING LOOK LOIDE	E MAI EK KEGOIKEMEN	13 FOR THE NEXT 20 TEAL	K5 :	
	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/ Stockwater/	8,082	Total
			Feedlot		

SECTIONS 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

m623,753,000

÷ 21,038

÷ 365 Days/Year = 88

GALLONS PER PERSON PER DAY.

Amount of water in Columns 5, 6, and 7 of Section 1 Population from Last Year of Section 4

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.

22338

	(Please Print)	
Applicant's Name	City of Russell	
22338		

MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION SUPPLEMENTAL INFORMATION SHEET

Application	File	Number	
(assigned	l by [DWR)	

EXHIBIT

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

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

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

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

UNACCOUNTED FOR WATER

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

Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in 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 = <u>Unaccounted For Water</u> 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.

SECTION 2: PAST WATER USE

COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

32	m m									
2015		Column 1	Column 2	Column 3	Column 4 Water Sold to Your	Column 5 Water Sold to Your	Column 6	Column 7		
5	RCE	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)		
•	20 years ago		_							
15 years ago		373,757,000	0	0	171,928,220	115,864,670	18,687,850	67,276,260		
	10 years ago	477,486,000	0	0	222,781,000	147,340,000	19.483,000	87,882,000		
5 years ago		375,790,000	0	0	144,277,000	123,343,000	18,907,000	89,263,000		
TOTAL WATER = Columns 1 + 2				ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER		

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SECTION 3: PROJECTED FUTURE WATER NEEDS

LETE THE FOLLOWING TABLE SHOWING YOUR FUTURE WATER REQUIREMENTS FOR	R THE NEXT 20 YEARS:

	LEASE COMPLETE THE	13.							
	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	AC	ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6					

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	2,049	Residential	9	Industrial	30	Other (specify)	Free Service
3	360	Commercial	0	Pasture/	2448	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

Manual of Water in Columns 5, 6, and 7

Amount of water in Columns 5, 6, and 7

Of Section 1

Feedlot

Feedlot

Feedlot

GALLONS PER PERSON PER DAY

365 Days/Year = 135.9

GALLONS PER PERSON PER DAY.

Population from Last Year of Section 4

Of Section 1

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.