

KANSAS DEPARTMENT OF AGRICULTURE

DIVISION OF WATER RESOURCES

MEMORANDUM

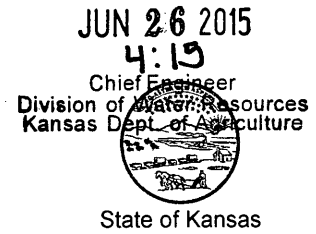
TO: File
DATE: May 1, 2018
FROM: Amber Herring
SUBJECT: Date Stamping Mail

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

David. W. Barfield, P.E.

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

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



Filing Fee Must Accompany the Application
(Please refer to Fee Schedule on signature page of application form.)

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

1. Application is hereby made for approval of the Chief Engineer to change David. W. Barfield, P.E.

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

JUN 28 2015 4:15
Chief Engineer
Division of Water Resources
Kansas Dept. of Agriculture
JUN 29 2015 8:26
KS DEPT OF AGRICULTURE

File No. 22,333 Circle 39.

2. Name of applicant: City of Hays, Kansas and City of Russell, Kansas (See paragraph 2 of the cover letter.)

Address: c/o Foulston Siefkin LLP, 1551 N. Waterfront Parkway, Suite 100

City, State and Zip: Wichita, Kansas 67206

Phone Number: (316) 291-9725 E-mail address: dtraster@foulston.com

What is your relationship to the water right; owner tenant agent other? If other, please explain. Hays and Russell are co-owners of the authorized place of use on the R9 Ranch in Edwards County.

Name of water use correspondent: City of Hays, Kansas

Address: P. O. Box 490, 1507 Main Street

City, State and Zip: Hays, Kansas 67601

Phone Number: (785) 628-7320 E-mail address: tdougherty@haysusa.com

3. The change(s) proposed herein are desired for the following reasons (please be specific):
See Paragraph 3 of the cover letter filed concurrently with this application. The cover letter is incorporated herein by reference.

The change(s) ~~was~~ (will be) completed by See Paragraph 3 of the cover letter

(Date)

For Office Use Only:

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

of 21000-

15053309

SCANNED

6/30/2015 UM

4. The presently authorized place of use is:

Owner of Land — NAME: City of Hays, Kansas

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

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES					
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼						
		2-T26S-R20W															21					8		29
		11-T26S-R20W		2					5															7

List any other water rights that cover this place of use: None

Owner of Land — NAME: City of Russell, Kansas

ADDRESS: 133 W. 8th Street, Russell, Kansas 67665

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
			Same as above																

List any other water rights that cover this place of use: None

(If there are more than two landowners, attach additional sheets as necessary.)

5. It is proposed that the place of use be changed to:

Owner of Land — NAME: City of Hays, Kansas

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

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
			The City of Hays, Kansas and its immediate vicinity and other locations as more fully described in paragraph 5 of the cover letter.																

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

Owner of Land — NAME: City of Russell, Kansas

ADDRESS: 133 W. 8th Street, Russell, Kansas 67665

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
			The City of Russell, Kansas and its immediate vicinity and other locations as more fully described in paragraph 5 of the cover letter.																

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

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY.

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- 6. The presently authorized point(s) of diversion (is) (are) irrigation well(s) described in paragraph 8, infra.
(Provide description and number of points)
- 7. The proposed point(s) of diversion (is) (are) one or more municipal wells; see paragraph 7 of the cover letter.
(Provide description and number of points)

List all presently authorized point(s) of diversion:

8. **Presently authorized point of diversion:**
 One in the SE Quarter of the SE Quarter of the SW Quarter of Section 2, Township 26 South, Range 20 (~~E/W~~), in Edwards County, Kansas, 590 feet North 3,053 feet West of Southeast corner of section. Authorized Rate 520 gpm Authorized Quantity 50 a/f
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the NW Quarter of the SW Quarter of the NE Quarter of Section 11, Township 26 South, Range 20 (~~E/W~~), in Edwards County, Kansas, 3,646 feet North 2,143 feet West of Southeast corner of section. Proposed Rate 520 gpm Proposed Quantity 57.47 a/f
 This point is: Additional Well Geo Center List other water rights that will use this point 22,333-35; 27,760

9. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (~~E/W~~), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section. Authorized Rate _____ Authorized Quantity _____
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/W), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section. Proposed Rate _____ Proposed Quantity _____
 This point is: Additional Well Geo Center List other water rights that will use this point _____

10. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (~~E/W~~), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section. Authorized Rate _____ Authorized Quantity _____
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/W), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section. Proposed Rate _____ Proposed Quantity _____
 This point is: Additional Well Geo Center List other water rights that will use this point _____

- 11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. See paragraph 11 of the cover letter.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

WATER RESOURCES RECEIVED

- 12. The presently authorized use of water is for irrigation purposes.
It is proposed that the use be changed to municipal purposes.
- 13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.
See the attached discussion regarding the quantity of water to be changed to municipal use and paragraph 13 of the cover letter.

(Please show any calculations here.)

- 14. It is requested that the maximum annual quantity of water be reduced to not applicable (acre-feet or million gallons).
- 15. It is requested that the maximum rate of diversion of water be reduced to not applicable gallons per minute (____ c.f.s.).
- 16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 (www.usgs.gov). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.
 - a. If a change in the location of the point(s) of diversion is proposed, show:
 - 1) The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
 - 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
 - 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.
 - b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.
- 17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.
See paragraph 17 of the cover letter.

- 18. If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.
See paragraph 7 of the cover letter.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

Any use of water that is not as authorized by the water right or permit to authorize water **before** the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse. If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of use as identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.

Dated at Russell, Russell County, Kansas, this 23rd day of June, 20 15.

[Signature]

(Owner) _____ (Spouse)

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

(Owner) _____ (Spouse)

(Please Print) _____ (Please Print)

(Owner) _____ (Spouse)

(Please Print) _____ (Please Print)

State of Kansas }
County of Russell } SS



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

Malinda Morse

Notary Public

My Commission Expires 6/15/18

FEE SCHEDULE

Each application to change the place of use, the point of diversion or the use made of the water under this section shall be accompanied by the application fee set forth in the schedule below:

- (1) Application to change a point of diversion 300 feet or less \$100
- (2) Application to change a point of diversion more than 300 feet \$200
- (3) Application to change the place of use \$200
- (4) Application to change the use made of the water \$300

Make check payable to Kansas Department of Agriculture.

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Any use of water that is not as authorized by the water right or permit to authorize water **before** the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse. If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of use as identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.

Dated at Russell, Russell County, Kansas, this 23rd day of June, 20 15.

(Owner)

(Spouse)

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

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

State of Kansas }
County of Russell } SS



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

Malinda Morse
Notary Public

My Commission Expires 4/15/18

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- (2) Application to change a point of diversion more than 300 feet \$200
- (3) Application to change the place of use \$200
- (4) Application to change the use made of the water \$300

Make check payable to **Kansas Department of Agriculture.**

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Proposed Rate and Quantity

The Cities are requesting a total of 57.47 acre-feet and 520 gpm from the well associated with this water right, all of which will be diverted from new point of diversion K, as shown on Exhibit L. When combined with existing wells from other water rights, new point of diversion K will have a cumulative total of 533.2 acre-feet and 3,380 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 up to 35.64 acre-feet for municipal use.¹ As discussed below, 33 approved acres irrigated during the perfection period multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 35.64 acre-feet.²

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

Quantity authorized and perfected

The permit, issued on March 19, 1976, granted the right to divert up to 63 acre-feet annually at a rate not to exceed 840 gallons per minute for irrigation use⁴ on 36 acres in the Sections 2 and 11-T26S-R20W.⁵ The certificate further limited the rate to 520 gallons per minute.

In the cover letter transmitting the permit, DWR made findings of fact stating that “the proposed use is for a beneficial purpose and is *within reasonable limitations*. If priorities are observed and respected, the proposed use will neither impair any use under existing water rights nor prejudicially and unreasonably affect the public interest.”⁶

The Field Inspection Report indicates that 57.75 of the 63 acre-feet authorized by the permit were lawfully perfected.

- 133 acre-feet⁷ were applied to 33 approved acres in Sections 2 and 11-T26S-R20W.
- The permit authorized the perfection of 63 acre-feet on 36 acres, or 1.75 acre-feet per acre, but only 33 authorized acres were irrigated during the perfection period, resulting in perfection of 57.75 acre-feet.

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, HAYS002951, Ex. A.

⁵ Application, HAYS002944, Ex. B.

⁶ March 19, 1976, letter (emphasis added), HAYS002950, Ex. C.

⁷ FIR, HAYS002937, Ex. D.

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While the certificate limits the total quantity to 50 acre-feet based on DWR's after-the-fact determination that 1.5 acre-feet per acre was a reasonable quantity for irrigation use, DWR did not have jurisdiction to make this reduction.⁸

Since the perfection period has expired, the "authorized quantity" for this water right is the 57.75 acre-feet actually perfected even though it exceeds the certified quantity.

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

NIR for Alfalfa

Alfalfa was grown on the authorized place of use in at least one year during the perfection period.⁹ According to the Kansas Irrigation Guide, the NIR for the 50% chance rainfall in Edwards County is 13 inches (1.083333 feet) for corn and 20.9 (1.741666 feet) inches for alfalfa.

Since alfalfa was grown on the authorized place of use in at least one year during the perfection period, it is reasonable to use the NIR for alfalfa, which yields a total quantity of 57.47 acre-feet consumed. While this quantity is greater than the quantity set out in the certificate, it is less than the 57.75 perfected acre-feet, the "maximum annual quantity authorized by the water right."¹⁰

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.¹¹ 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 57.75 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 41.58 acre-feet, should be available for conversion to municipal use. While this quantity is greater than the quantity set out in the certificate, it is less than the 57.75 perfected acre-feet, the "maximum annual quantity authorized by the water right."

The Applicants request that DWR approve a total of 57.47 acre-feet for municipal use.

⁸ Certificate, HAYS002959, Ex. E; Larry Sheets March 20, 1987, Memo, HAYS002954, Ex. F; and *Clawson v. Kansas Dept. of Agriculture, Div. of Water Resources*, 49 Kan. App. 2d 789, 315 P.3d 896 (2013).

⁹ FIR, HAYS002940, Ex. D. See also 1981 Water Use Report from File 21,729, Circle 39, HAYS000605, Ex. G; FSA Reports HAYS004449, Ex. H, and 4922, Ex. I.

¹⁰ See K.A.R. 5-5-9(a)(4).

¹¹ Administrative Policy No. 86-8, dated Nov. 5, 1986, Ex. J, stating that: "In that area of Kansas located between the Range 5 East/Range 6 East Line and the Range 20 West/Range 21 West line, the maximum allowable quantity shall not exceed an average of 1.50 acre-feet per acre irrigated." See also, K.A.R. 5-3-24 and Larry Sheets March 20, 1987, Memo, HAYS002954, Ex. F.

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THE STATE



OF KANSAS

STATE BOARD OF AGRICULTURE
Roy Freeland, Secretary

DIVISION OF WATER RESOURCES
Guy E. Gibson, Chief Engineer

**APPROVAL OF APPLICATION
and
PERMIT TO PROCEED**

(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application No. 22,333 of the applicant

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

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

1. That the priority date assigned to such application is May 2, 1974.
2. That the water sought to be appropriated shall be used for irrigation on the land described in the application.
3. That the source from which the appropriation is made shall be from ground water in the drainage basin of the Arkansas River to be withdrawn by means of one (1) well in the Southeast Quarter of the Southeast Quarter of the Southwest Quarter (SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$) 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
840 gallons per minute (1.87 c.f.s.)
and to a quantity of not to exceed 63 acre-feet for any calendar year.

(OVER)

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JUN 29 2015

KS DEPT OF AGRICULTURE

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HAYS 0029519
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FIELD OFFICE
DIVISION OF WATER RESOURCES
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5. That installation of works for diversion of water shall be completed on or before December 31, 1977. The applicant shall notify the Chief Engineer of the Division of Water Resources when construction of the works has been completed.

6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before December 31, 1981.

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

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

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

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

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

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

Dated this 19th day of March 1976

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KS DEPT OF AGRICULTURE



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

HAYS002952

SCANNED



THE STATE OF KANSAS

#39

STATE BOARD OF AGRICULTURE

Roy Freeland, Secretary

DIVISION OF WATER RESOURCES

Guy E. Gibson, Chief Engineer

Rec'd check \$50.00 5-2-74
SA

22,333

NUMBER 14

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

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

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

(Mr.)

(Mrs.)

Comes now the applicant (Miss) Midwest Land and Cattle Co. whose post office

address is Box 208 Kinsley, Kansas 67547

and makes application to the Chief Engineer of the Division of Water Resources, Kansas State Board of Agriculture, for a permit to appropriate for beneficial use such unappropriated groundwater

as may be available in the Arkansas River basin in the county of Edwards

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

1. The quantity of water desired is in the amount of ~~1000000~~ ⁶³ 140 acre feet per year, to be diverted at a maximum rate of ⁸⁴⁰ 4000 gallons per minute

2. The location of the proposed wells or other works for diversion of water is in the SE quarter of the SE quarter of the SW quarter of section 2, township South Brown 26, range 2620 W, in Edwards County, Kansas.

3. The water is intended to be appropriated for:

- (a) Domestic use ()
(b) Municipal use ()
(c) Irrigation use (X)
(d) Industrial use ()
(e) Recreational use ()
(f) Water power use ()

Amount

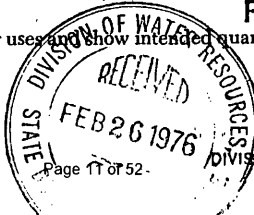
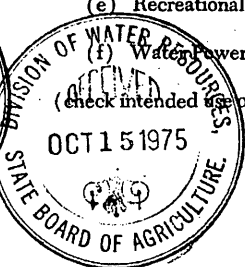
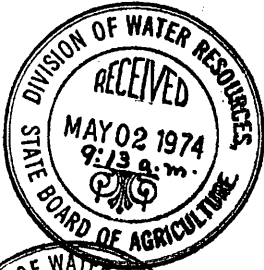
MICROFILMED

140 acre ft./yr. - 1000 gals./min.

WATER RESOURCES RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE



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MAR 29 1976 NOV 25 1975

HAYS002943

FIELD OFFICE DIVISION OF WATER RESOURCES STATE BOARD OF AGRICULTURE

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

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

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

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

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

Sec. Twp. Range	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Total
	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
2 26 20									21	40	40	2/40				8	70 16029
11 26 20		2			5												7
																	36

Owner of Land—NAME: _____

ADDRESS: _____

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

Owner of Land—NAME: _____

ADDRESS: _____

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

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KS DEPT OF AGRICULTURE

HAYS002944

7. The works for diversion of water will consist of one well with one pump for one circle sprinkle irrigation system (one motor)

and will be completed by July of 1974
(well, pumps, etc.)
(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 MMY&X for water rights have been filed

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

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

Midwest Land & Cattle Co.
(Applicant)
By Johnny Carson MCK
(Agent or Officer)

NOTE:

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

MI-229  S-72-10H SETS

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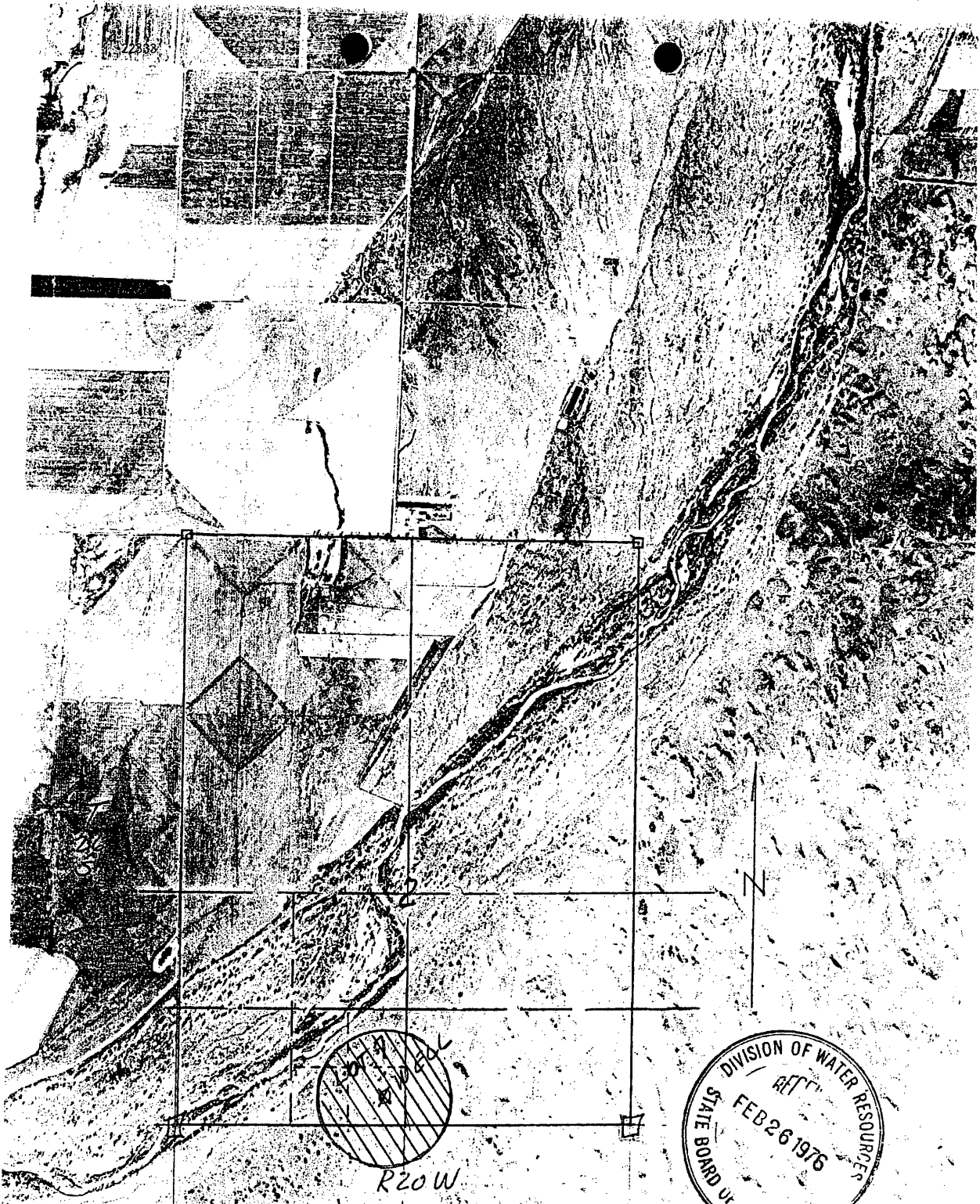
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MAR 29 1976 HAYS002945

FIELD OFFICE DIVISION OF WATER RESOURCES STAFFORD

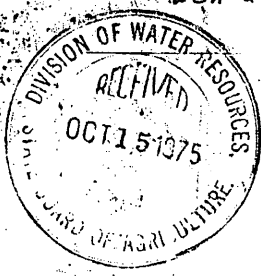
SCANNED



APPLICATION 22333

9-15-75

All wells within 1/4 mile of the irrigation well are owned by the applicant.
No. 39



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HAYS002946

EXHIBIT

22333

C

2

E-N

March 19, 1976

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

ATTENTION: Mr. Johnny Carson, Manager

Re: Appropriation of Water
Application No. 22,333

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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MICROFILMED

MAR 29 1976 002950

RMD:GEE:eel

Encs.

EXHIBIT
22333
D

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

- Partial
- Full
- Re-Test

Test 1 of 1 Diversion points
 Firm/Field Office Pumping Plant Testing, Inc
 Application No. 22333 Date 10-3-86 Inspector Ebert/Klassen
 Field Area No. 2 G.M.D. No. 5 County Edwards
 Current Landowner Connecticut General Life Insurance Co Agri. Affiliates Inc.
 Address Box 1162 North Platte, NE 69103 Attn: Jerry Weaver
 Additional landowners and addresses identified in remarks section.
 Water Use Classification: 1. Domestic () 2. Industrial () 3. Irrigation (X)
 4. Municipal () 5. Recreation () 6. Stockwatering () 7. Water Power ()
 Groundwater (X) Drainage Basin Arkansas River
 Surface Water () Stream _____
 Authorized Point of Diversion: 1 well in the SE 1/4, SE 1/4, SW 1/4 Sec. 2, T. 26, R. 20
 Approximately _____ ft. North and _____ ft. West of SE corner of Sec. _____
 Actual Point of Diversion: 1 well in the SE 1/4, SE 1/4, SW 1/4 Sec. 2, T. 26, R. 20
 Approximately 590 ft. North and 3053 ft. West of SE corner of Sec. 2
 How were distances determined? By Scaling off Large Scale Aerial Photo
 "Approved" Quantity 63 AF "Approved" Diversion Rate 840 g.p.m. (1.87 c.f.s.)
 Priority Date May 2, 1974 Approval of Application Date March 19, 1976
 Perfection Date Dec. 31, 1981

Other applications covering land and/or point of diversion None
 (include discussion of overlapping files in remarks section)

LAND TO BE INCLUDED ON CERTIFICATE:

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			
2	26	20															21			8	29
11	26	20		2				5													7 1/36

LAND IRRIGATED—YEAR OF RECORD 1984

S	T	R	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL ACRES		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			
2	26	20															25			7	32
11	26	20					1														33

APPLICATION OF WATER:

Year of Record 1984 Hours Pumped 1750 or Quantity 167 ac-ft
 Normal Operating G.P.M. 519 Equiv. c.f.s. 116
 Maximum Operating G.P.M. _____ Equiv. c.f.s. _____

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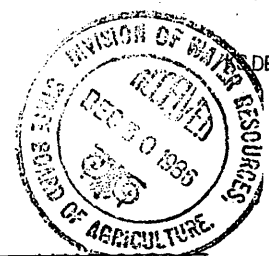
FOR D.W.R. USE ONLY

Year of Record 1983 Extension of time requested: Yes No _____
 Total No. of Hours on land covered by this application 1400
 Ac. Ft. Applied = 1400 hrs. x 519 g.p.m. x $\frac{4.419}{24 \times 1000}$ = 133 AF
 Acres of "Approved" Land irrigated 33 4.05 ac-ft per ac.
 Ac. Ft. on "Approved" Land 133 (_____ Ac. Ft./Ac.)
 Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less _____
 Proration Calculations Limited by approval to 63 ac-ft.
 Perfected Rate 520 g.p.m. Perfected Quantity 63 AF
 DWRA8833 completed by Larry _____ Page 18 of 52 3-18-87

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HAYS002937

MICROFILMED Revised March 1986

SCANNED

GENERAL INFORMATION ON IRRIGATION SYSTEM:

Center Pivot High Pressure Low Pressure

Manufacturer Olson Model 103 P Serial No. 4019

Drive Electric Length of Pivot Arm _____

Design Pressure-Pivot _____ p.s.i. Operating Pressure-Pivot _____ p.s.i.

End Gun? Yes End Gun Rating 2 Rainbird 85 g.p.m.

Is end gun operating during test? Yes

Gravity Irrigation (show test set on sketch)

Number of gates open _____ Normal Pipe Size _____

Pressure at pump _____ p.s.i.

Other Type _____

Manufacturer _____ Model _____ Serial No. _____

Unusual Conditions/Other Info. _____

POWER UNIT INFORMATION:

Manufacturer Ford Model No. 300 HP _____

Serial No. 11836 K-29-TG Fuel Propane Rated RPM _____

PUMP INFORMATION:

Manufacturer Fairbanks Morse Model No. 10 MA Rated RPM _____

Serial No. N2X2804996X Type Vertical Turbine No. stages 5

GEAR HEAD INFORMATION:

Manufacturer U.S. Model No. G003146 T

Serial No. 955600-D-571 Drive Right Angle Ratio 6:5

WELL INFORMATION:

Date Drilled 2-14-75 Original Depth 40 ft. Static Water Level When Drilled 9 ft.

Tape Down Possible? yes Water Level Measurement Tube? no

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

ADDITIONAL REQUIREMENTS:

Meter Required? no Make of Meter _____

Meter Model No. _____ Serial No. _____ Size _____

Is Meter Installed Properly? _____

Chemical Injection System? yes Check Valve? yes Low Pressure Drain? no

Vacuum Breaker? no Are these anti-pollution devices installed properly? yes

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

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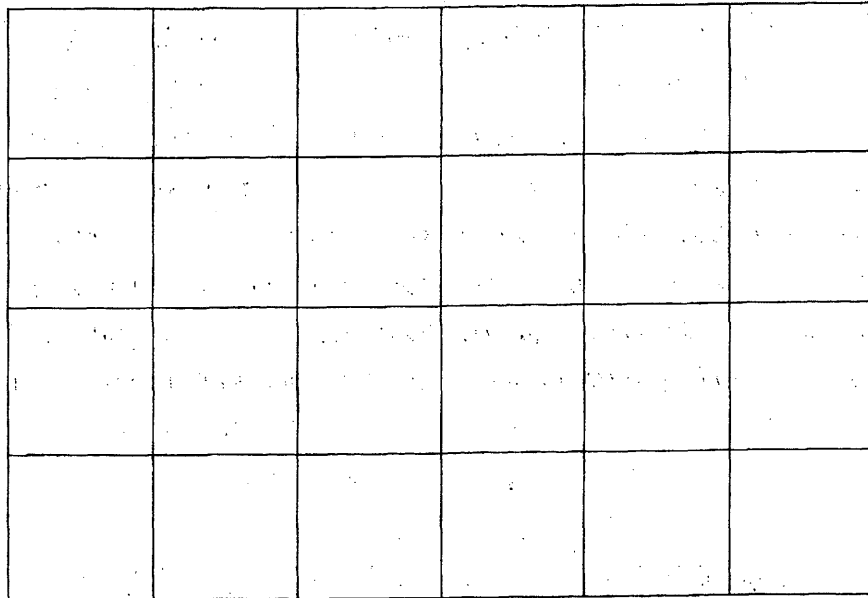
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HAYS002938

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



Scale
1" = _____ ft.

TEST OF DIVERSION RATE:

Length of time well has been operating prior to test 0
Location of test In Vertical pipe inside pivot stand
Pipe Diameter (I.D.) 7 3/16 inches

Test No. 1—Normal Conditions

Test No. 2—Maximum Conditions

R.P.M. POWER UNIT 2118
R.P.M. PUMP UNIT 1765
Pressure at Pump 42 psi

R.P.M. POWER UNIT _____
R.P.M. PUMP UNIT _____
Pressure at Pump _____ psi

Jacuzzi Meter Test

Meter Identification No. _____

Area Constant $K = 2.45 \times I.D.^2 =$ _____ $Q (gpm) = VK$

Velocity (fps)

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____

Total _____
Avg. _____
G.P.M. _____

Velocity (fps)

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____

Total _____
Avg. _____
G.P.M. _____

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FIELD OFFICE
DIVISION OF WATER RESOURCES
STAFFORD

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Propeller Meter Test

Manufacturer _____ Model _____ Serial No. _____

Meter Diameter _____ inches

Ending _____ gal.
Beginning _____ gal.
Difference _____ gal.
Time _____ min.
Rate _____ gpm

Ending _____ gal.
Beginning _____ gal.
Difference _____ gal.
Time _____ min.
Rate _____ gpm

MICROFILMED

Other Flow Meter

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

HAYS002939

FUEL RECORDS:

Electricity Supplier _____
 Meter Manufacturer _____ Type _____ Serial No. _____
 K _____ watt/rev r _____ revolutions t _____ seconds
 Rate = $\frac{Kr \times 3.6}{t}$ = _____ kw/hr Hours = $\frac{\text{kw-hr}}{\text{rate}}$ = _____

Other Fuels Type propane Supplier Mid-Continent

Rate = $\frac{\text{Volume (test)}}{\text{time}}$ = _____
 How was the test volume determined? Not Determined, Representative. Didn't know Rate either.

TABULATION OF WATER USE:

24290
 SE SE SW
 2-26-2020

Year	Hours Pumped (hr)	Tested Pumping Rate (gpm)	Water Used (AF)	Acres Irrigated
1975	552	700		40
1976				
1977	55	700		36
1978				
1979	336	450		33
1980	720	450		33
1981	1080	450		33
1982				
1983	1400*	800		33
1984	1750	519*	167*	36*
1985	1700*	800*		36*
1986		519*		33 (from Kent Naber)

* From Data collected during Test
 † Obtained from water use reports sent to use from Jerry Weaver

Indicate Year of Record with (*) Source of Information State Arch Files
 Crops Irrigated: this year alfalfa Year of record Alfalfa

REMARKS: THIS DEVELOPMENT HAS HAD SEVERAL OWNERS SINCE ITS INCEPTION IN 1975. ALL OF THE RECORDS HAVE BEEN EITHER DESTROYED OR LOST, AND THE SYSTEMS & PUMPING PLANTS HAVE BEEN CHANGED OVER THE YEARS. CONNECTICUT GENERAL, SINCE 1983, HAS MADE A GOOD EFFORT TO KEEP GOOD RECORDS & THEREFORE, IT WOULD SEEM REASONABLE TO USE THE YEARS SINCE 1983 IN CHOOSING A YEAR OF RECORD.

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Person present at test Kent Naber Irrigation Manager
 Water Use Correspondent Lyle Kelbeck Spearville, KS 67876 (316) 385-2803
 Conducted by Lyle Kelbeck Date 10/6/86
 Approved by [Signature], P.E. Date 12/21/86 HAYS002940

APPLICATION NO: 22 333 NAME: Connecticut General Life Insurance

COLLINS METER TEST

Collins Meter No. 1-84 Meter Calibration Factor .9635

Pipe Inside Diameter (inches) 7 13/16 Flow Rate Factor 147.8

Test Pressure (psi) 42 Test RPM, Pump 1765

Description of Test Location In vertical pipe inside pivot stand

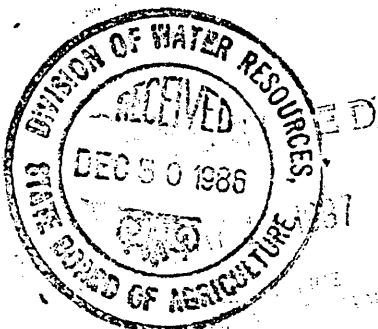
TEST DATA: Check, Initial 3.82 Reversed 3.81
 Meter Setting From Center of Pipe
 Velocity Left Side of Pipe (or Front Side if Vertical Test) Velocity Right Side of Pipe (or Back Side if Vertical Test)

<u>1 5/8</u>	<u>4.27</u>	<u>4.35</u>	<u>3.38</u>	<u>3.35</u>
<u>2 3/4</u>	<u>4.38</u>	<u>4.35</u>	<u>3.40</u>	<u>3.28</u>
<u>3 9/16</u>	<u>3.96</u>	<u>3.90</u>	<u>2.32</u>	<u>2.83</u>

Average Velocity of Water = Sum of Vel. ÷ 12 = 3.65

Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) =
3.65 x .9635 = 3.51

Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =
3.51 x 147.8 = 519 GPM



Reviewed By:

PUMPING PLANT TESTING, INC. JUN 29 2015

Richard J. Munch
Professional Engineer

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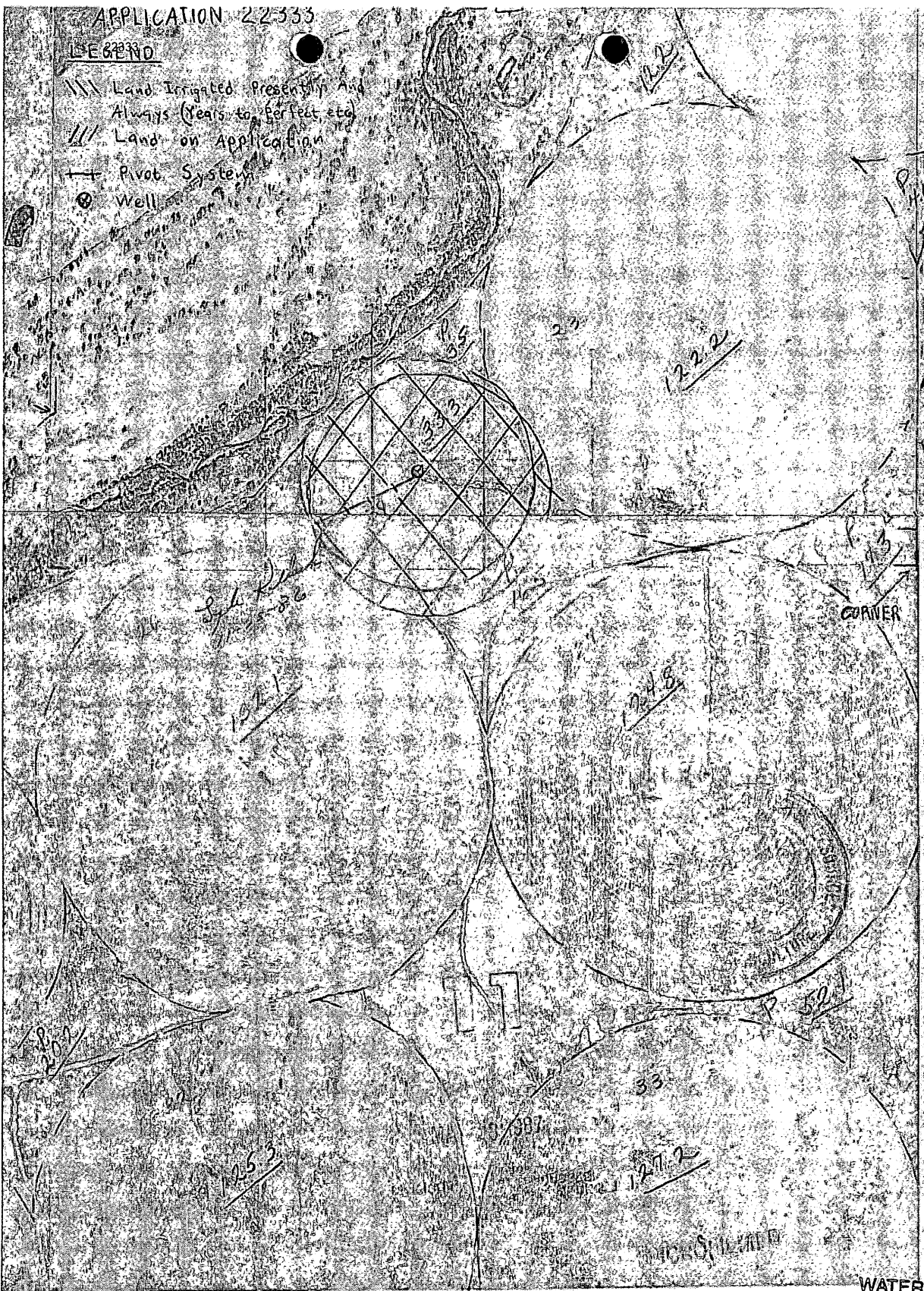
HAYS002941

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APPLICATION 22333

LEGEND

- /// Land Irrigated Presently And Always (Years to Perfect etc)
- /// Land on Application
- Pivot System
- ⊙ Well



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HAYS002942

SCANNED

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. 22,333
PRIORITY DATE May 2, 1974

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

NOW, THEREFORE, Be It Known that DAVID L. POPE, the duly appointed, qualified and acting Chief Engineer of the Division of Water Resources of the Kansas State Board of Agriculture, by authority of the laws of the State of Kansas, and particularly K.S.A. 82a-714, does hereby certify that, subject to vested rights and prior appropriation rights, the appropriator is entitled to make use of groundwater in the drainage basin of the Arkansas River to be withdrawn by means of a well located in the Southeast Quarter of the Southeast Quarter of the Southwest Quarter (SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$) of Section 2, more particularly described as being near a point 590 feet North and 3,053 feet West of the Southeast corner of said section, in Township 26 South, Range 20 West, Edwards County, Kansas, at a diversion rate not in excess of 520 gallons per minute (1.16 c.f.s.) and in a quantity not to exceed 50 acre-feet per calendar year for irrigation use on the following described property:

- 21 acres in the Southeast Quarter of the Southwest Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$),
- 8 acres in the Southwest Quarter of the Southeast Quarter (SW $\frac{1}{4}$ SE $\frac{1}{4}$),
- a total of 29 acres in Section 2,

- 2 acres in the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ NE $\frac{1}{4}$),
- 5 acres in the Northeast Quarter of the Northwest Quarter (NE $\frac{1}{4}$ NW $\frac{1}{4}$),
- a total of 7 acres in Section 11,

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

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STAFFORD

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HAYS002959

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

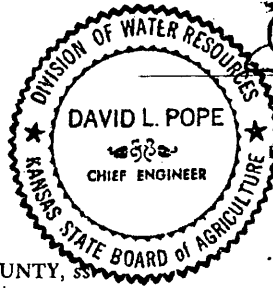
The appropriator shall maintain records from which the quantity of water actually diverted during each calendar year may be readily determined. Such records shall be furnished to the Chief Engineer within 30 days of receipt of the annual water use report form.

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

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

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

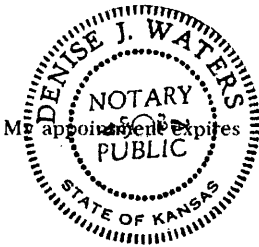
IN WITNESS WHEREOF, I have hereunto set my hand at my office at Topeka, Kansas, this 7th day of May, 1987.



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

STATE OF KANSAS, Shawnee COUNTY, ss

The foregoing instrument was acknowledged before me this 7th day of May, 1987, by David L. Pope, P.E., Chief Engineer, Division of Water Resources, Kansas State Board of Agriculture.



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

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

**WATER APPROPRIATION
CERTIFICATE**

No. 15,886

STATE OF KANSAS

Water Right, File No. 22,333

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

Register of Deeds.

HAYS002960

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JUN 29 2015

KS DEPT OF AGRICULTURE

SCANNED

MEMORANDUM

To: Files

From: Larry M. Sheets

Re: Appropriation of Water
File No. 22,333

Date: March 20, 1987

The Field Inspection Report of the above referenced file, conducted under contract by Pumping Plant Testing, has been reviewed. It meets the requirements specified in the Scope of Work. Based on the 1983 Water Use Report, 1,400 hours of pumping the well in the Southeast Quarter of the Southeast Quarter of the Southwest Quarter (SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$) of Section 2, Township 26 South, Range 20 West, Edwards County, Kansas, provided 133 acre-feet of water for irrigating 33 acres or 4.04 acre-feet per acre. The certificate of appropriation has been drafted for the tested pumping rate rounded up to 520 g.p.m. and the approved quantity of 63 acre-feet.

An extension of time to perfect for two years or through 1983, has been granted.

Larry M. Sheets

Larry M. Sheets
Hydrologist

LMS:aw

Addendum: March 25, 1987

Proir to sending the draft certificate (during review) it was noticed that 63 acre-feet is greater than 1.5 acre-feet per acre for the acres irrigated by the small pivot system. The certificate of appropriation was revised to reflect a reasonable quantity for the acres irrigated (33 x 1.5 = 49.5 or 50 acre-feet).

Larry M. Sheets

Larry M. Sheets
Hydrologist

LMS:aw

WATER RESOURCES
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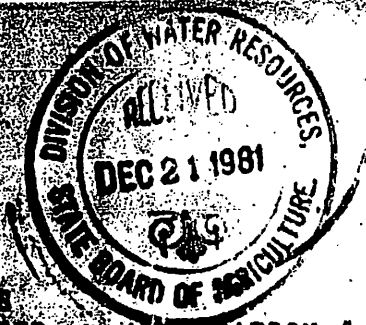
JUN 29 2015

KS DEPT OF AGRICULTURE

HAYS002954

AMERICAN AGRICULTURAL INDUSTRIES INC.

1981 WATER USE REPORT



CIRCLE	LEGALS	HOURS	GPM	ACRE-FEET	ACRES WATERED	APPLICATION #
# 0	NE 1/4 30-25-19	1152	550	116	54.2	21,730
# 1	SW 1/4 30-25-19	1152	650	137	118.8	
# 2	SW 1/4 31-25-19-5	1152	650	137	127.7	21,731
# 3	NW 1/4 31-25-19	1152	750	159	267.	
# 4	SE 1/4 31-25-19	1152	400	84	121.1	
# 5	NE 1/4 31-25-19	1152	550	117	106.3	
# 6	NW 1/4 32-25-19	1152	650	137	112.5	21,732
# 11	NE 1/4 32-25-19	1152	650	137	108.	
# 12	SW 1/4 32-25-19	1152	900	191	157.2	
# 7	SW 1/4 29-25-19	1152	650	137	126.9	21,729
# 8	NW 1/4 29-25-19	1152	743	157	125.9	
# 9	NE 1/4 29-25-19	1152	600	127	124.6	
# 10	SE 1/4 29-25-19	1152	780	65	123.	
# 13	SE 1/4 32					
	SW 1/4 33-25-19	1152	650	137	120.5	21,733
# 16	SE 1/4 5-26-19	1152	700	148	115.6	21,734
# 17	NE 1/4 5-26-19	1152	750	159	120.6	
# 19	1/2 NE 1/4 1-26-20	1080	850	169	74.9	22,325
# 20	NW 1/4 1-26-20	480	800	70	121.2	22,326 sudan & rabe
# 21	NE 1/4 & SE 1/4 1-26-20	840	900	139	127.5	22,327 milo
# 22	NE 1/4 & SE 1/4 2-26-20	840	850	131	118.7	22,331 milo
# 23	SE 1/4 2-26-20	840	800	123	122.2	22,332 milo
# 26	NW 1/4 11-26-20	840	900	139	132.1	22,335 milo
# 27	NE 1/4 11-26-20	840	900	139	124.8	22,334 milo
# 28	NE 1/4 10-26-20	840	850	131	106.5	22,338 milo
# 29	NW 1/4 10-26-20	840	800	123	104.	22,329 milo
# 30	SW 1/4 & SE 1/4 10-26-20					
	NW 1/4 15-26-20	1080	785	156	125.3	22,341 alfalfa
# 31	SE 1/4 10-26-20	840	800	123	111.2	22,340 milo

RECEIVED

22,341 alfalfa

DEC 21 1980
HAYS000604

This document was not found in DWR's records in Stafford. It was referred to in a letter from Pam Meadows dated November 3, 1981 found in File No. 21,730. It was subsequently obtained from DWR in Topeka using an open record request.

WATER RESOURCES RECEIVED
Page 25 of 52

300420

SCANNED

JUN 29 2015

AMERICAN AGRICULTURE INDUSTRIES, INC.

1981 Water Use Report

CIRCLE	LEGALS	HOURS	GPM	ACRE-FEET	ACRES WATERED	APPLICATION #
#35	NE 1/4 15-26-20	840	800	123	125.9	22,343 milo
#36	NW 1/4 14-26-20	840	800	123	126.5	22,342 milo
#37	SW 1/4 15-26-20	840	800	123	108.6	22,346 soy be
#38	SW 1/4 15-26-20	1080	836	166	103.2	22,345 alfalfa
#39	SW 1/4 2-26-20	1080	450	89	33.3	22,333 alfalfa

Circles #13, #15, and #18 did not run due to the lack of stand in view of the pending foreclosure.

Circles #24, #25, #32, and #33 did not run this year due to the removing of systems, engines, and pumps by First Leasing Corporation of Omaha, Nebraska.



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JUN 29 2015

FILED

HAYS000605

KS DEPT OF AGRICULTURE

300421

EXHIBIT

22333

H

LUCERNE FARMS HAY

PRODUCTION

McALLASTERS 4/5

TOTAL BALES

ANIBYPRO 1/5

#0

1st	13
2nd	52
3rd	83
4th	31

16
65
104
39

#0

1st	4
2nd	13
3rd	21
4th	8

#1

1st	73
2nd	113
3rd	127
4th	46

91
141
159
58

#1

1st	18
2nd	28
3rd	32
4th	12

#2

1st	54
2nd	106
3rd	144
4th	48

68
133
180
60

#2

1st	14
2nd	27
3rd	36
4th	12

#3

1st	153
2nd	164
3rd	373
4th	121

191
205
466
152

#3

1st	38
2nd	41
3rd	93
4th	31

#4

1st	82
2nd	85
3rd	170
4th	32

103
106
212
40

#4

1st	21
2nd	21
3rd	42
4th	8

#5

1st	44
2nd	155
3rd	135
4th	38

55
194
169
47

#5

1st	11
2nd	39
3rd	34
4th	9

#6

1st	41
2nd	82
3rd	164
4th	82

51
103
205
102

#6

1st	10
2nd	21
3rd	41
4th	20

#7

1st	141
2nd	170
3rd	206
4th	96

176
212
258
120

#7

1st	35
2nd	42
3rd	52
4th	24

#8

1st	82
2nd	122
3rd	177
4th	99

103
153
221
124

#8

1st	21
2nd	31
3rd	44
4th	25

22333

Page 27 of 52

WATER RESOURCES
RECEIVED

JUN 29 2015

KS DEPT OF AGRICULTURE

SCANNED

HAYS004449

#9		
1st	119	149
2nd	194	243
3rd	167	209
4th	82	102

#9		
1st		30
2nd		49
3rd		42
4th		20

#10		
1st	77	96
2nd	261	326
3rd	201	251
4th	118	148

#10		
1st		19
2nd		65
3rd		42
4th		30

#11		
1st	116	145
2nd	208	260
3rd	162	202
4th	42	52

#11		
1st		29
2nd		52
3rd		40
4th		10

#12		
1st	130	162
2nd	302	377
3rd	257	321
4th	110	137

#12		
1st		32
2nd		75
3rd		64
4th		27

#13		
1st	75	94
2nd	122	153
3rd	121	151
4th	13	16

#13		
1st		19
2nd		31
3rd		30
4th		4

#16		
1st	70	88
2nd	144	180
3rd	86	108
4th	15	19

#16		
1st		18
2nd		36
3rd		22
4th		4

#17		
1st	107	134
2nd	218	273
3rd	122	152
4th	42	53

#17		
1st		27
2nd		55
3rd		30
4th		11

#18		
1st	23	28

#18		
1st		6

#19		
1st	47	59
2nd	42	53
3rd	50	63

#19		
1st		12
2nd		11
3rd		13

#30		
1st	126	158
2nd	157	196
3rd	90	113
4th	18	23

#30		
1st		32
2nd		39
3rd		23
4th		5

#38		
1st	98	122
2nd	162	202
3rd	95	119
4th	52	65

WATER RESOURCES RECEIVED #38 HAYS004450

JUN 29 2015

KS DEPT OF AGRICULTURE

1st	24
2nd	40
3rd	24
4th	13

SCANNED

22333

#39

1st	16	20
2nd	26	33
3rd	31	39

#39

1st	4
2nd	7
3rd	8

Total Bales 10776

McAllasters 4/5's 8621

Anibypros 1/5's 2155

*Note In order to come up to 8.000 Tons it will take 8.889 bales of 1800lbs.
This will leave Anibypro 1887 bales

WATER RESOURCES
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JUN 29 2015

HAYS004451

EXHIBIT

ASCS-578 22333
(6-7-7)

REPORT OF ACREAGE *4/1*

2/3/91

USDA-ASCS

NOTE: Sect. 1374a, 7 U.S.C., authorizes collection of the following data. The data will be used to determine eligibility for assistance. Furnishing this data is voluntary; however, without it assistance cannot be provided. The data may be furnished to any agency responsible for enforcing the Act.

Form Approved - OMB No. 0560-0004

PAGE 1 OF 2

KEY	OPERATOR	FARM NO.	NAME AND ADDRESS	FARM LAND	CROP LAND	OPERATOR	OTHER INTERESTED PRODUCERS				ASSIGNMENT
							KEY	NAME AND ADDRESS	OTHER FARMS	CROP	
1	L	440	CECIL OFFERLE	1302	1302	<i>Feed Co</i>	3				
		OP	OFFERLE KS 67563			<i>TX - Mob Co.</i>	4				
2	OWNER						5				
							6				
							7				

Conneticent General

SECTION I - FARM FIELD REPORT (NOTE: Grey Shaded Area to be Filled in by Reporter ONLY.)

TRACT NO.	FIELD NO.	CROP OR LAND USE	CROP OR LAND USE SUMMARY							KEY	SHARE	DISPOSITION	METHOD	GROSS ACRES	DEDUCTIONS		NET ACRES	INITIAL & DATE
			DRY WHEAT	IRR. WHEAT	BARLEY	CORN	DRY MILO	IRR. MILO	OTHER						IDENT./MEAS.	ACRES		
11-26-20	1	<i>Dir - cc</i>		132.1														
26-20	1	<i>Wht grain</i>		132.1														
	2	<i>Dir - cc</i>		124.8														
15-26-20	35	<i>Wht grain</i>		125.9														
26-20	37	<i>cc - Dir</i>		108.6														
	2	<i>Wht grain</i>		108.6														
14-26-20	1	<i>cc - Dir</i>		121.5														
26-20	1	<i>Wht grain</i>		121.5														
10-26-20	29	<i>cc - Dir</i>		104.0														
26-20	8	<i>Wht grain</i>		104.0														
	28	<i>cc - Dir</i>		106.5														
	2	<i>Wht grain</i>		106.5														
	31	<i>cc - Dir</i>		111.2														
	3	<i>Wht grain</i>		111.2														
	22	<i>cc - Dir</i>		118.7														
26-20	1	<i>Wht grain</i>		118.7														
TOTAL OPERATOR REPORT				1734.3		487.9		176.4	73.8									
TOTAL REPORTER'S REPORT				1734.3		487.9		176.4	73.8									

WATER RESOURCES RECEIVED JUN 29 2015

SCANNED

SECTION II - OPERATOR'S CERTIFICATION

I certify to the best of my knowledge and belief that the acreages of crops and land uses listed herein are true and correct. Further, my signature constitutes authority for ASCS personnel to enter my farm for making any program determinations.

OPERATOR'S SIGNATURE: *[Signature]* DATE: 5-25-91 OPERATOR'S SIGNATURE: *Kim Schlegel* HAYS004922
15-84

SECTION 1 - FARM FIELD REPORT (Continued) (Grey Area to be Filled In by Reporter ONLY.)

TRACT NO.	FIELD NO.	CROP OR LAND USE	CROP OR LAND USE SUMMARY				KEY	SHARE	DISPOSITION	METHOD	GROSS ACRES	DEDUCTIONS		NET ACRES	INITIAL & DATE
			1	2	3	4						IDENTITY & MEAS.	ACRES		
	22333														
	1	cc - Irr													
	2	Wht grain													
	3	cc - Irr													
	4	Wht grain													
1-		cc - Irr													
26-20	1	Wht grain													
		cc - Irr													
	2	Wht grain													
		No Barley/Cat													
5-29-84															
	1	IRR wheat													
	2	IRR wheat - gro.													

SKETCHES OR REMARKS

circle IRR

54.2

54.2

U.S. GOVERNMENT PRINTING OFFICE: 1983-607-313:058

REPORT OF ACREAGE

USDA - ASCS

NOTE: Sect. 1374a, 7 U.S.C., authorizes collection of the following data. The data will be used to determine eligibility for assistance. Furnishing this data is voluntary; however, without its assistance cannot be provided. The data may be furnished to any agency responsible for enforcing the Act.

KEY	OPERATOR	FARM NO.	NAME AND ADDRESS	FARM- LAND	CROP- LAND	OPERATOR	KEY	OTHER INTERESTED PRODUCERS		ASSIGNMENT	
								NAME AND ADDRESS	OTHER FARMS	CROP	JOB
1	E	477	Connecticut General			OWNER	3				
							4				
							5				
							6				
2	OWNER					PROGRAM YEAR	1984				
						OTHER					

SECTION I - FARM FIELD REPORT (NOTE: Grey Shaded Area to be Filled in by Reporter ONLY.)

TRACT NO.	FIELD NO.	CROP OR LAND USE	CROP OR LAND USE SUMMARY			KEY	SHARE	DISPOSITION	METHOD	GROSS ACRES	DEDUCTIONS		NET ACRES	INITIAL & DATE
			CORN	Dry Acre	IRP Acre						IDENT./MEAS.	ACRES		
33	18	Circle IRR			101.5	5	6	7						
25-19	18	Milo-grain			74.9									
	19	Circle IRR												
	19	Milo-grain												
11	32	Circle IRR CORN	125.3											
26-20	32	Circle " "	127.3											
	33	Circle " "												
1	24	Circle " "	110.4											
26-26	24	Circle " "												
	25	Circle " "	127.9											
	14	Circle wht. dest back to ACR - nat. cover								73.8				
		No Soybeans no sunflowers All Crops Reported												
		7-9-84												
TOTAL OPERATOR REPORT														
TOTAL REPORTER'S REPORT														

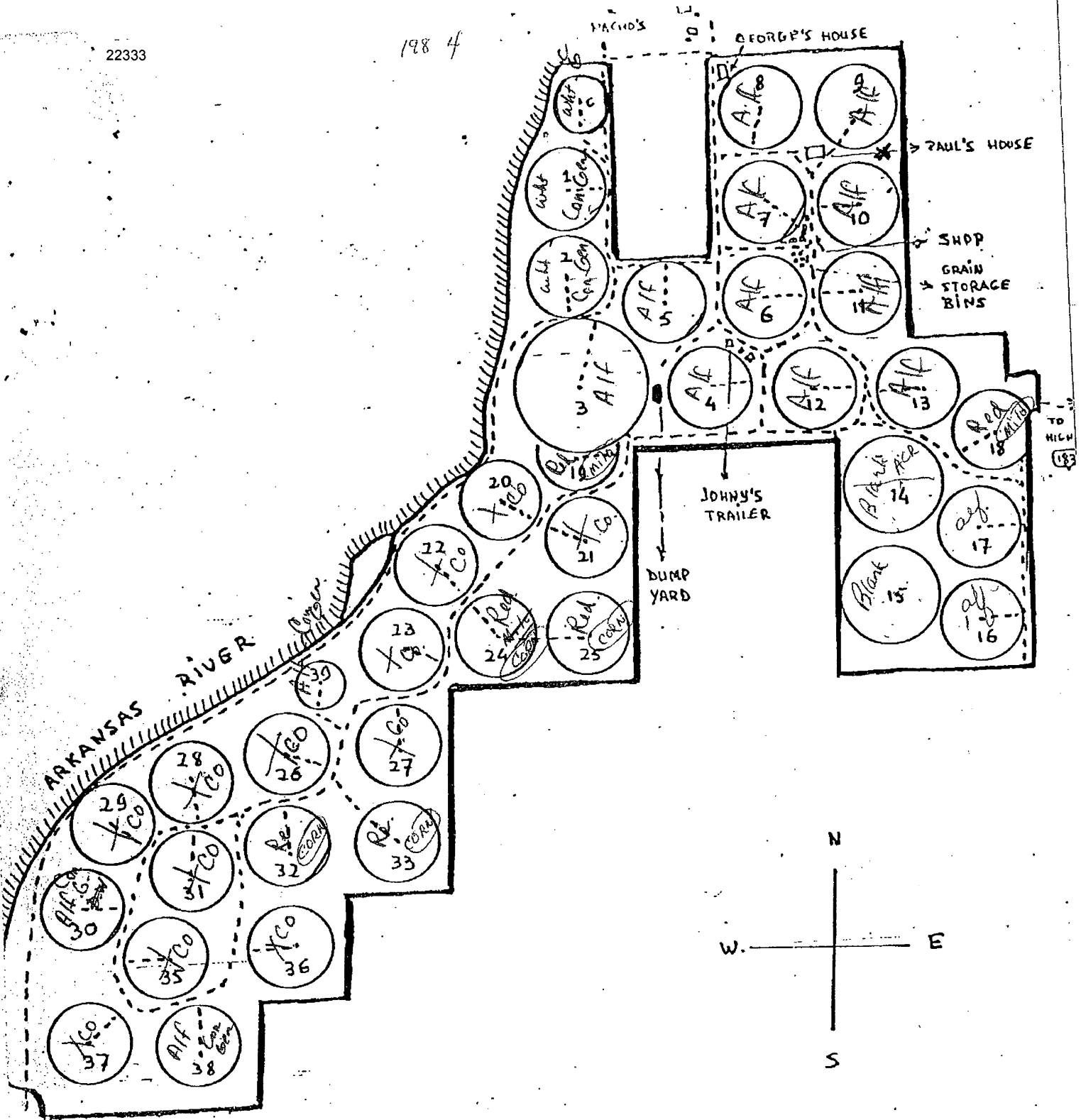
SECTION II - OPERATOR'S CERTIFICATION

I certify to the best of my knowledge and belief that the acreages of crops and land uses stated herein are true and correct. Further, my signature constitutes authority for ASCS personnel to enter my farm for making any program determinations.

OPERATOR'S SIGNATURE: Kim Schladmiller DATE: _____ OPERATOR'S SIGNATURE: HAYS004924 DATE: _____

JUN 29 2015 SCANNED

198 4



LUCERNE FARMS

KINSLEY, KS

PH. OFFICE 659-2668
SHOP 659-3711

WATER RESOURCES RECEIVED

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KS DEPT OF AGRICULTURE

KS DEPT OF AGRI. & FISH.

JUN 29 2015

WATER RESOURCES RECEIVED



15.6

16

14.9

16

151.6

15

18

162.8

14

61.6

101.5

5.8

Dist

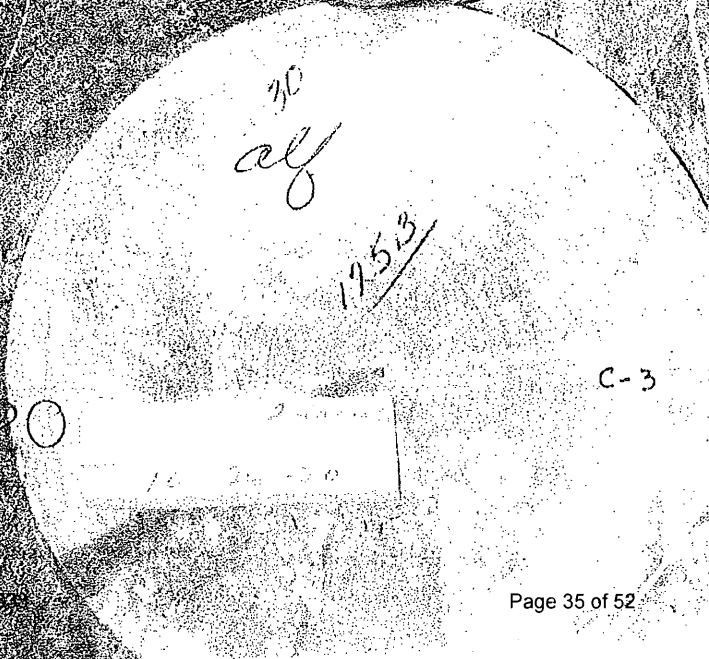
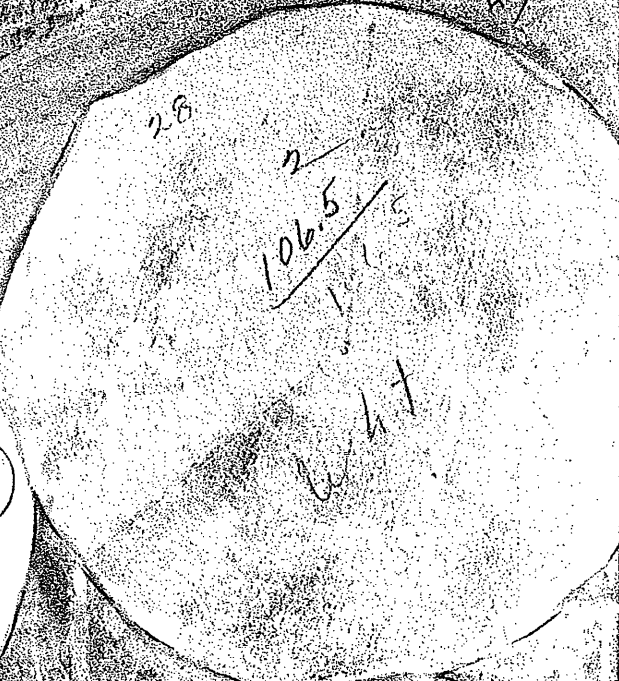
14

26

5-26-19

C-5

10-50-11



WATER RESOURCES RECEIVED

JUN 29 2015

152.1

Wht
1

124.8

Wht
2

11

125.3

Corn

127.2

Corn

P
20.3

P
52.1

C-3

C-3

26-20

WATER RESOURCES
RECEIVED

JUN 29 2015

HAYS004928

100
140

P
286.2

3333

13

120.5

P
85.9

19
Mils.

D-5

D-5 25-19

WATER RESOURCES
RECEIVED

SCANNED

JUN 29 2015

HAYS004929

26-20

Harms
1-26-20

24

19

100
44.9

wh 20
121.2

P
7.5

P
8.2

22
118.7

wh
21
127.5

P
90.8

P
16.7

24

25

WATER RESOURCES
RECEIVED

JUN 29 2015

JUN 29 2015

HAYS004931

SCANNED

WATER RESOURCES RECEIVED



26-20
15-26-20
2.973

NOT TO SCALE

NOT TO SCALE

L-9arm

14-26-20

26-20

B-3

B-3



E-428

740
4-81-7

WATER RESOURCES
RECEIVED

JUN 29 2015

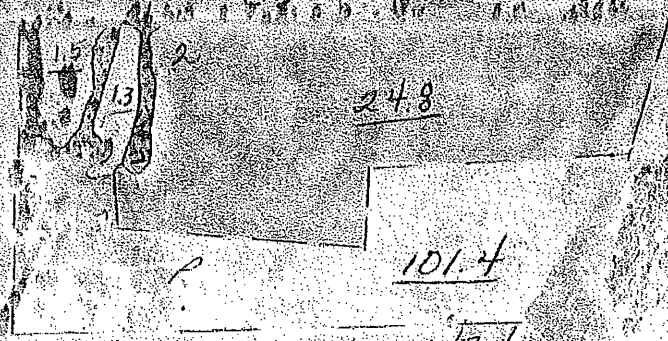
SCANNED
HAYS004932

3 Farms

2-26-20

26-20

0-107



201.8



22 w h t

118.7

12.2

23 w h t

122.2

33.3

WATER RESOURCES RECEIVED

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HAYS004933

Kansas State Board of Agriculture
Division of Water Resources

ADMINISTRATIVE POLICY
No. 86-8

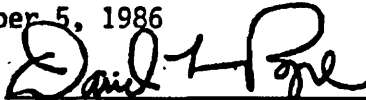
Subject: Allowable Rates of Diversion and Maximum Annual Quantities for Irrigation Use - Permits and Approvals

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

Date: November 5, 1986

History: Effective November 5, 1986

Approved by: David L. Pope
Chief Engineer



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

<u>Area, Place of use</u>	<u>Max. Allowable Rate</u>	
up to 10 acres	450 g.p.m.	450
10 - 40 acres	(+) 450 g.p.m.	900
40 - 120 acres	(+) 8 g.p.m./acre	580 + 8X
more than 120 acres	(+) 7 g.p.m./acre	700 + 7X

EXAMPLES:

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

B. 83 acres requested;

10 acres	=	450 g.p.m.	} 900 g.p.m.
(+) 40 acres (10 + 30)	=	450 g.p.m.	
(+) 43 acres @ 8 g.p.m./acre	=	344 g.p.m.	
		1,244 (allow 1,245 g.p.m.)	

A further limiting factor of this procedure is the availability of water from the proposed source of supply. In those instances whereby the source of supply is incapable of yielding a reasonably, sustainable (computed) rate, then the source becomes a further limiting factor.

A further limiting factor is well design and equipment, which shall be reasonable to divert the requested rate.

WATER RESOURCES
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JUN 29 2015

Administrative Policy No.86-8
Page 2

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

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

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

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

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

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

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

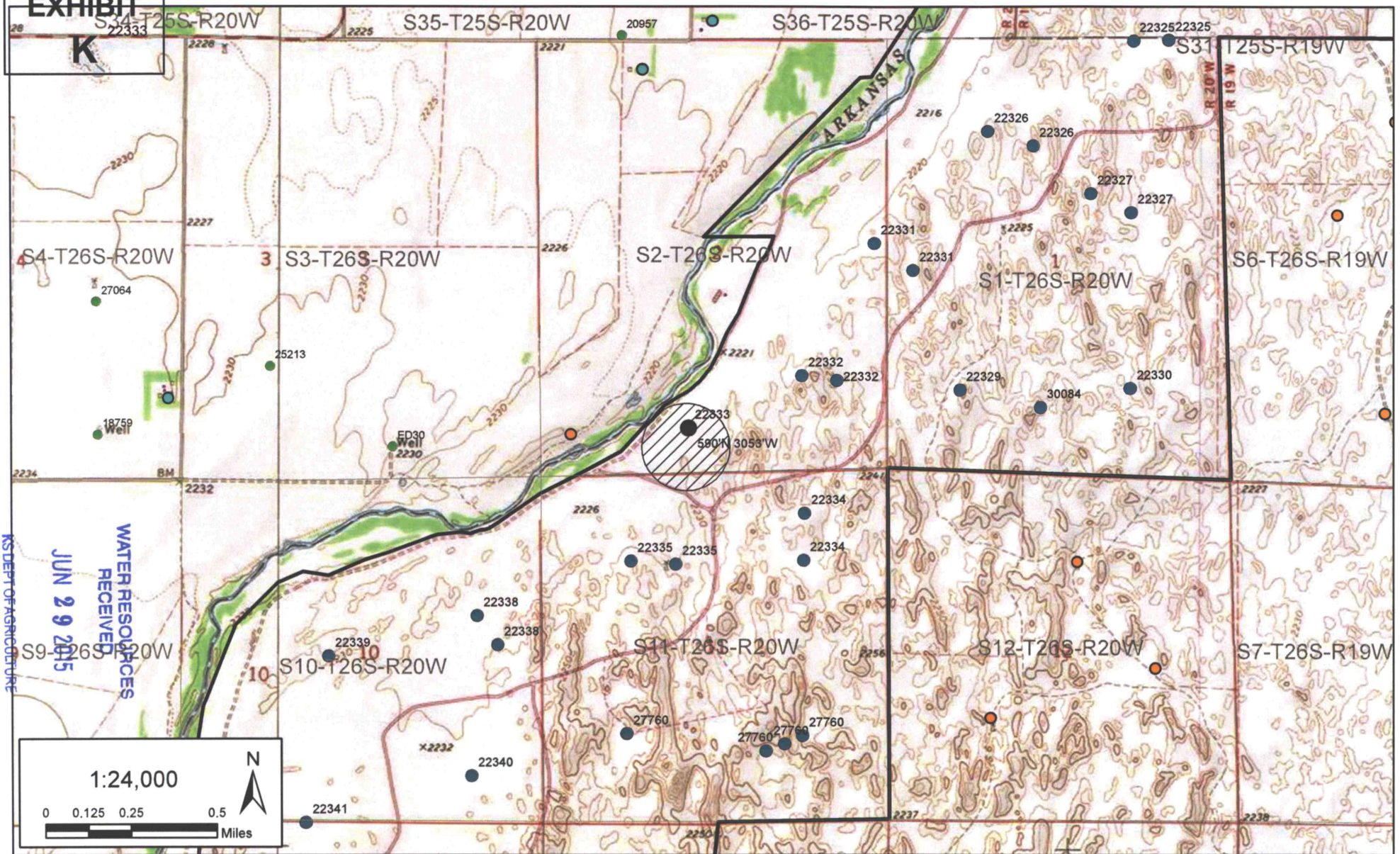
WATER RESOURCES
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JUN 29 2015

KS DEPT OF AGRICULTURE

EXHIBIT

K



MS DEPT OF AGRICULTURE
JUN 29 2015
WATER RESOURCES RECEIVED



Legend

- 22333 Existing Point(s) of Diversion
- ▨ 22333 Existing Place of Use
- ▭ R9 Ranch Property Boundary
- PLSS Sections 22333
- Irrigation Wells (File No.)
- Stockwater Wells (File No.)
- Domestic Well (Non-Permitted)
- Stock Well (Non-Permitted)
- Existing R9 Ranch Irrigation Wells



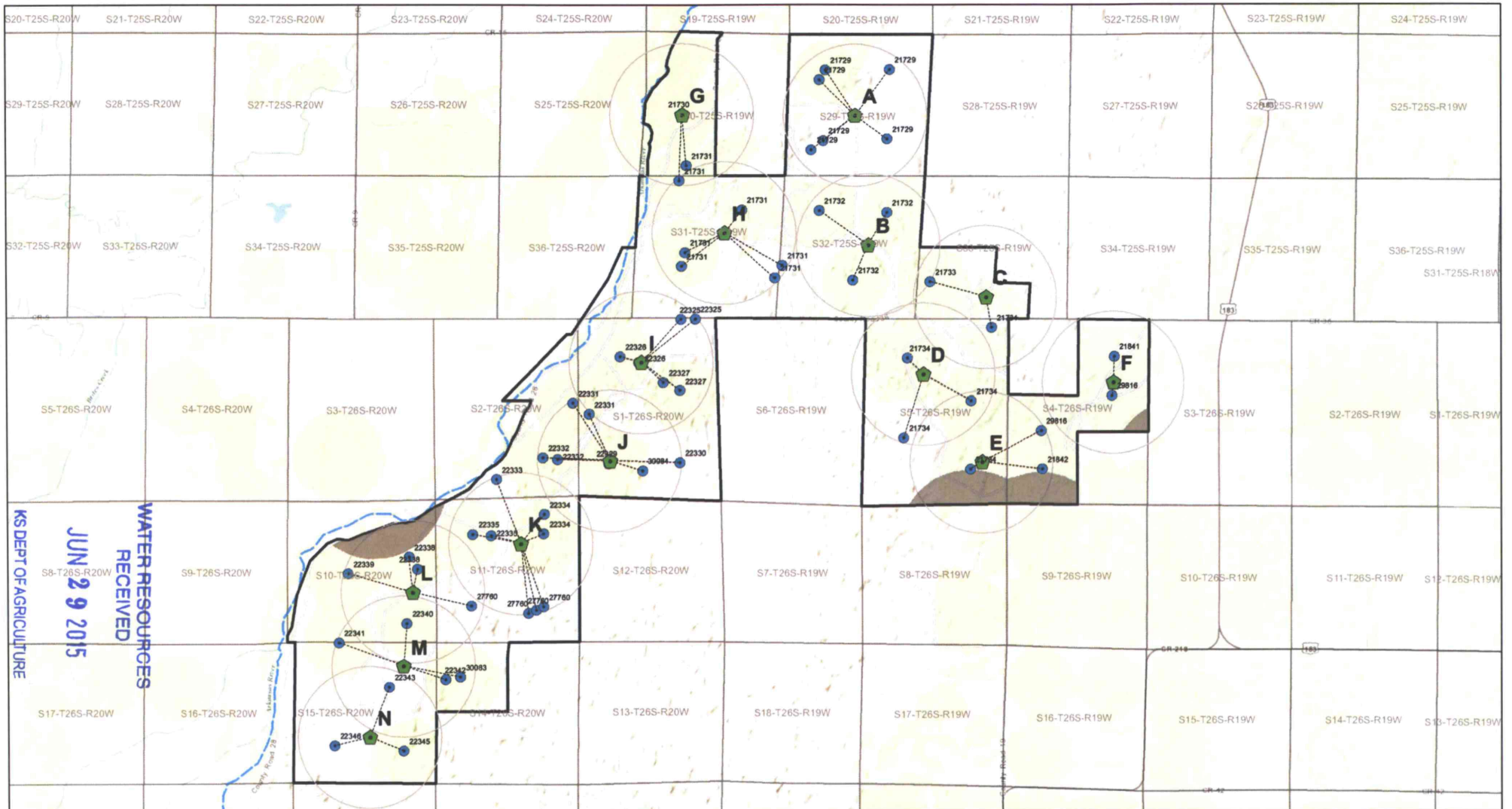
**CHANGE APPLICATION 22333
APPLICATION MAP
AUTHORIZED PLACE OF USE &
POINTS OF DIVERSION**

SCANNED

EXHIBIT

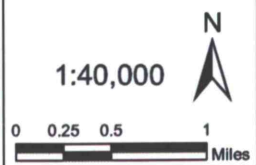
22333

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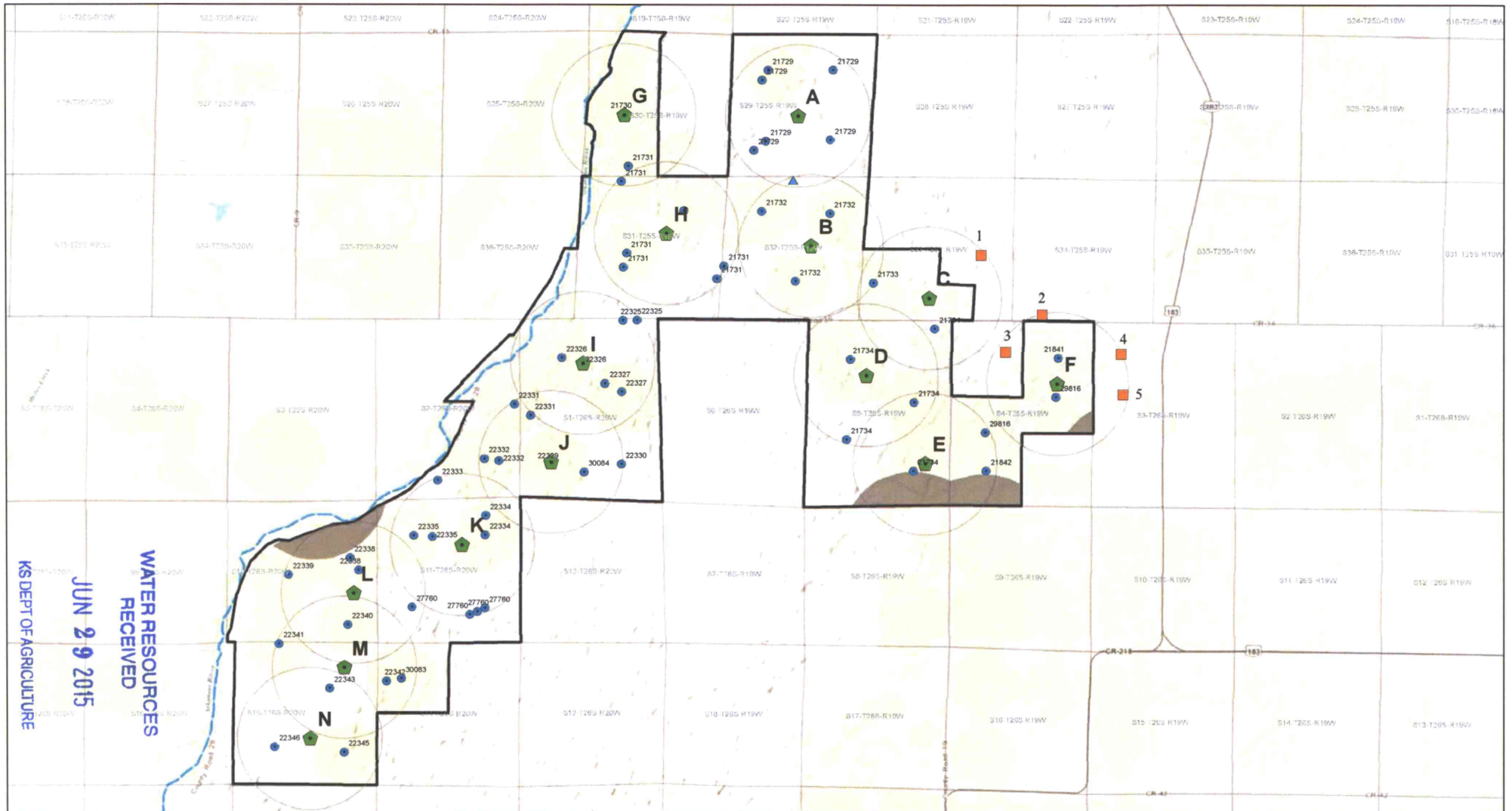
Legend

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



SCANNED

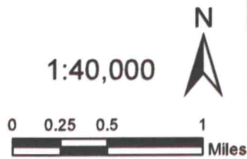
EXHIBIT
22333
M



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JUN 29 2015
 WATER RESOURCES
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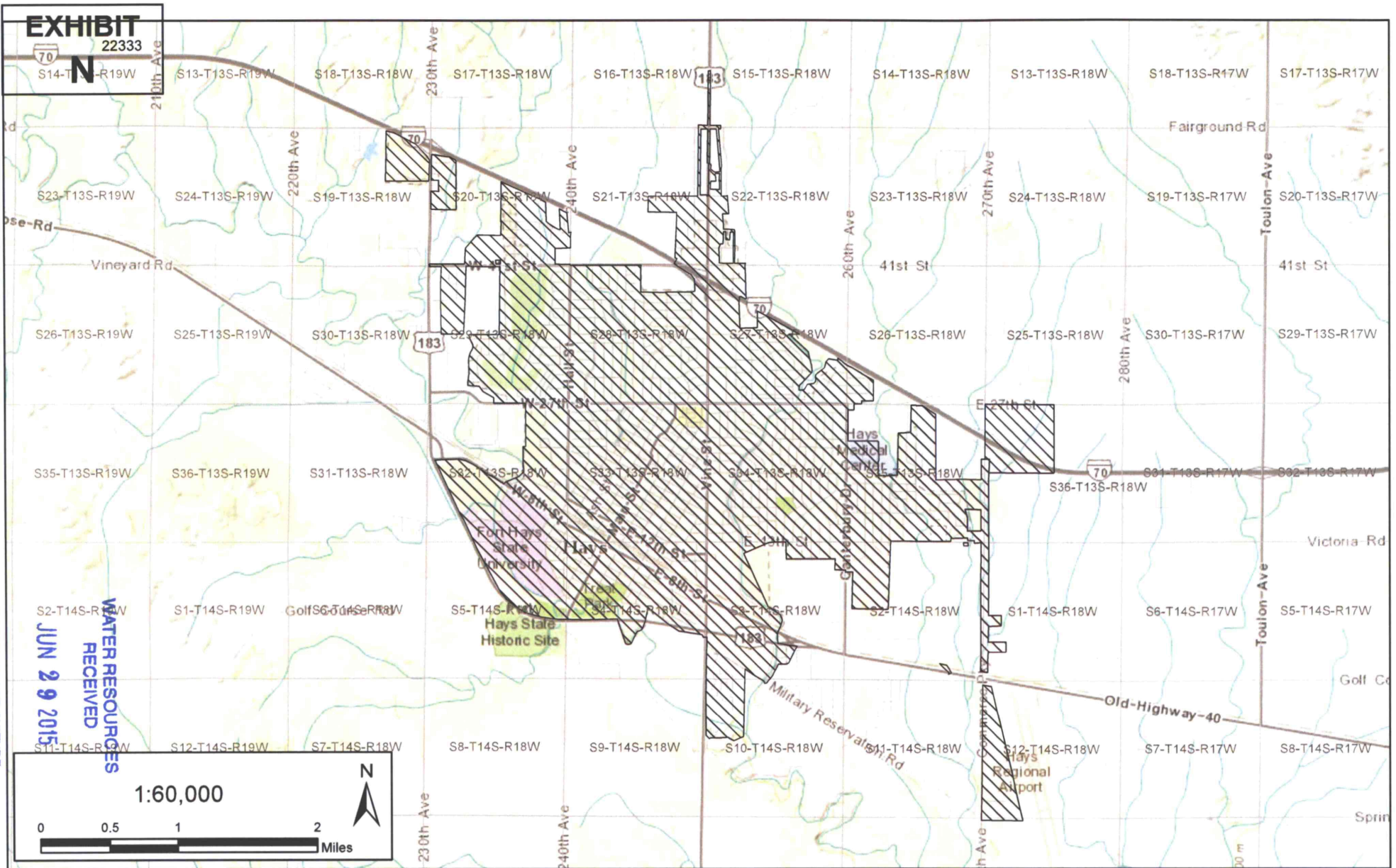
Legend

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



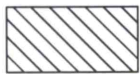
EXHIBIT

22333



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WATER RESOURCES
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JUN 29 2015



Proposed Place of Use City of Hays



PLSS Sections

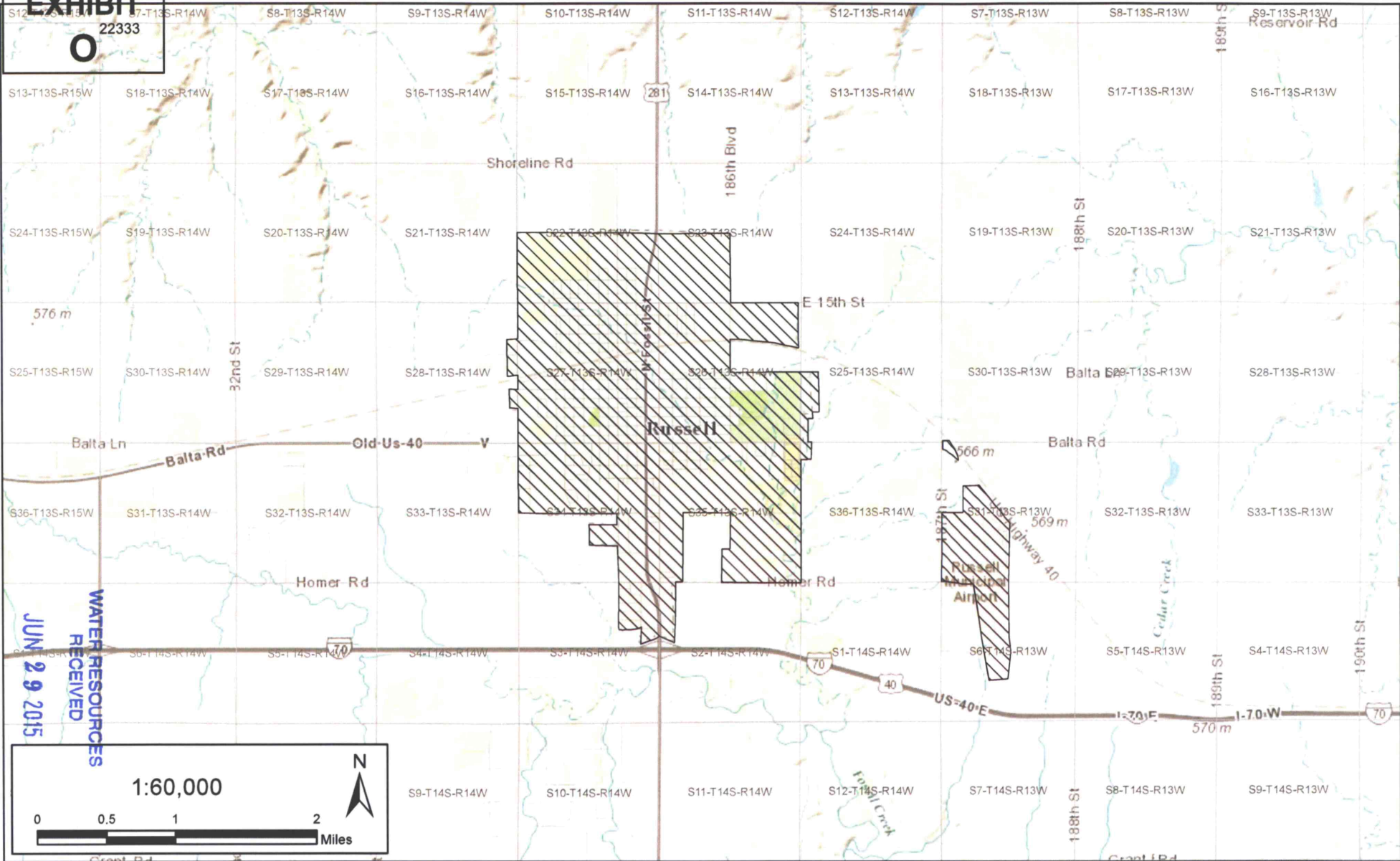


SCANNED

EXHIBIT

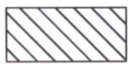
22333

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KS DEPT OF AGRICULTURE

JUN 29 2015
WATER RESOURCES
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Proposed Place of Use - City of Russell



PLSS Sections



SCANNED

22333
 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	Column 5	Column 6	Column 7
Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Below Explanation)
684,559,000			10,806,000	595,254,000	16,327,000	62,172,000
TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

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

UNACCOUNTED FOR WATER

Use the following to calculate your distribution system's Unaccounted For Water:
 Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Columns 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

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

$$\text{Percent Unaccounted For Water} = \frac{\text{Unaccounted For Water}}{\text{Total Water (Columns 1,2)}} \times 100$$
 If this number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it.

**EXHIBIT
 P**

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

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

KS DEPT OF AGRICULTURE

JUN 29 2015

WATER RESOURCES RECEIVED

SCANNED

22333
SECTION 3: PROJECTED FUTURE WATER NEEDS

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

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

SECTION 4: POPULATION AND SERVICE CONNECTIONS

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

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

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

PROJECTED FUTURE POPULATION

ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS

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

Provide number of current active service connections:

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

SECTION 5: PRESENT GALLONS PER PERSON PER DAY

CALCULATE YOUR GALLONS PER PERSON PER DAY

Water in Columns 5, 6, and 7 + Population + 365 Days/Year = Gallons per Person per Day

$$\frac{221,991,000}{\text{Amount of water in Columns 5, 6, and 7 of Section 1}} \div \frac{4,475}{\text{Population from Last Year of Section 4}} \div 365 \text{ Days/Year} = 135.9 \text{ GALLONS PER PERSON PER DAY.}$$

SECTION 6: AREA TO BE SERVED

Describe the area to be served or provide the legal description of the location where the water is to be used including any other city of water supply system (i.e. Rural Water District): City of Russell
 Note that the actual quantity of "Unaccounted for Water" is lower than shown here. Large quantities diverted from the Pfeifer Wells are returned to the aquifer in the "Collector Well." See detailed explanation in the cover letter accompanying this application. Projected future water needs include losses in the collector well but when repaired or replaced, total raw water diversion will be reduced.

You may attach additional information you believe will assist in informing the Division of the Page 52 of 52 your request.