

NOTICE

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number 49968
This item to be completed by the Division of Water Resources.

JAN 11 2018
12:04

KS DEPT OF AGRICULTURE

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

Filing Fee Must Accompany the Application
(Please refer to Fee Schedule attached to this application form.)

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture,
1320 Research Park Drive, Manhattan, Kansas 66502:

1. Name of Applicant (Please Print): Jeff Vornauf
Address: 1266 NE 70th Avenue
City: Harper State KS Zip Code 67058
Telephone Number: (620) 840-1132

2. The source of water is: [] surface water in -- (stream)
OR [x] groundwater in Chikaskia River (drainage basin)

Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources.

3. The maximum quantity of water desired is 147 acre-feet OR 47,900,097 gallons per calendar year, to be diverted at a maximum rate of 800 gallons per minute OR 1.786 cubic feet per second.

Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can NOT be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements.

4. The water is intended to be appropriated for (Check use intended):
(a) [] Artificial Recharge (b) [x] Irrigation (c) [] Recreational (d) [] Water Power
(e) [] Industrial (f) [] Municipal (g) [] Stockwatering (h) [] Sediment Control
(i) [] Domestic (j) [] Dewatering (k) [] Hydraulic Dredging (l) [] Fire Protection
(m) [] Thermal Exchange (n) [] Contamination Remediation

YOU MUST COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

For Office Use Only:
F.O. 2 GMD 0 Meets K.A.R. 5-3-1 (YES/NO) Use Free Source GS County HP By AMJ Date 1/10/18
Code REC Fee \$ 300 TR # Receipt Date 1/10/18 Check # 3309

1/10/2018 UH

5. The location of the proposed wells, pump sites or other works for diversion of water is:

Note: For the application to be accepted, the point of diversion location must be described to at least a 10 acre tract, unless you specifically request a 60 day period of time in which to locate the site within a specifically described, minimal legal quarter section of land.

- (A) One in the NE quarter of the SW quarter of the NW quarter of Section 19, more particularly described as being near a point 3400 feet North and 4500 feet West of the Southeast corner of said section, in Township 31 South, Range 5 East/West (circle one), Harper County, Kansas.
- (B) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.
- (C) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.
- (D) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (1/4) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300 foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800 gallons per minute and which supply water to a common distribution system.

6. The owner of the point of diversion, if other than the applicant is (please print):

Don H Vornauf Trust and Mary J Vornauf Trust, 896 NE 40 Avenue, Harper, KS 67058
 (name, address and telephone number)

 (name, address and telephone number)

You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with this application. In lieu thereof, you may sign the following sworn statement:

I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct.

Executed on 1-8, 2018. [Signature]
 Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

7. The proposed project for diversion of water will consist of 4 wells, 4 pumps, 4 motors
 (number of wells, pumps or dams, etc.)

and (will be) completed (by) as soon as approved
 (Month/Day/Year - each was or will be completed)

8. The first actual application of water for the proposed beneficial use was or is estimated to be 2018
 (Mo/Day/Year)

IRRIGATION USE SUPPLEMENTAL SHEET

File No. 49908

Name of Applicant (Please Print): Jeff Vornauf

1. Please supply the name and address of each landowner, the legal description of the lands to be irrigated, and designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Landowner of Record NAME: Don H Vornauf Trust and Mary J Vornauf Trust

ADDRESS: 896 NE 40 Avenue, Harper, KS 67058

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	Lot 1	Lot 2	SE	NE	NW	SW	SE	NE	NW	SW	SE	
19	31S	5W					39.1	36.08	11.42	18.4									105

Landowner of Record NAME: _____

ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Landowner of Record NAME: _____

ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

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2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
NALIM LOAM 0-1%	92.5%	.3	3 Center pivot
NALIM LOAM 1-3%	7.5%	.3	3
_____	_____	_____	_____
_____	_____	_____	_____
Total:	100 %		

b. Estimate the average land slope in the field(s): 1% %

Estimate the maximum land slope in the field(s): 3% %

c. Type of irrigation system you propose to use (check one):

- Center pivot Center pivot - LEPA _____ "Big gun" sprinkler
 Gravity system (furrows) _____ Gravity system (borders) _____ Sideroll sprinkler

Other, please describe: _____

d. System design features:

i. Describe how you will control tailwater: N/A

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: 25 psi

(2) What is the sprinkler package design rate? 150 gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? 20 feet

(4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

Bermuda Grass

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation).

Rainfall, other weather conditions, and stage of plant growth.

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

13. Furnish the following well information if the proposed appropriation is for the use of groundwater. If the well has not been completed, give information obtained from test holes, if available.

Information below is from: Test holes Well as completed Drillers log attached

Well location as shown in paragraph No.	(A)	(B)	(C)	(D)
Date Drilled	<u>11/14/17</u>	_____	_____	_____
Total depth of well	<u>28 ft</u>	_____	_____	_____
Depth to water bearing formation	<u>13.5 ft</u>	_____	_____	_____
Depth to static water level	<u>13.5 ft</u>	_____	_____	_____
Depth to bottom of pump intake pipe	<u>28 ft</u>	_____	_____	_____

14. The relationship of the applicant to the proposed place where the water will be used is that of tenant/agent/son
(owner, tenant, agent or otherwise)

15. The owner(s) of the property where the water is used, if other than the applicant, is (please print):
Don H Vornauf Trust and Mary J Vornauf Trust, 896 NE 40 Avenue, Harper, KS 67058
(name, address and telephone number)

(name, address and telephone number)

16. The undersigned states that the information set forth above is true to the best of his/her knowledge and that this application is submitted in good faith.

Dated at Harper, Kansas, this 8th day of January, 2018.
(month) (year)



(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by CRC _____ SFFO-AWC _____ Date: 11/17/17
(office/title)

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9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?
 Yes No If "yes", a check valve shall be required.

All chemigation safety requirements must be met including a chemigation permit and reporting requirements.

10. If you are planning to impound water, please contact the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir

Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water Resources? Yes No

- If yes, show the Water Structures permit number here n/a
- If no, explain here why a Water Structures permit is not required n/a

11. The application must be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers. Also, please show the following information:

- (a) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) should be plotted as described in Paragraph No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section.
- (b) If the application is for groundwater, please show the location of any existing water wells of any kind within 1/2 mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please advise us.
- (c) If the application is for surface water, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.
- (d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.
- (e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.

A 7.5 minute U.S.G.S. topographic map may be obtained by providing the section, township and range numbers to: Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence, Kansas 66047.

12. List any application, appropriation of water, water right, or vested right file number that covers the same diversion points or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.

There are no other files covering the proposed place of use or point of diversion.

49968

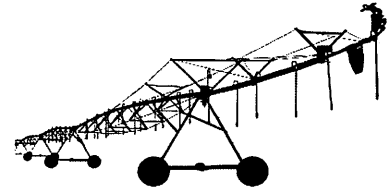


ELECTROGATOR II™

Irrigation System Proposal

Proposal1 - 11/27/2017

PRICES EFFECTIVE: July 01, 2017



Dealer Information

Carmichael Irrigation, LLC
13508 W 101st St N
Sedgwick, KS 67135

PO #:
Phone: 316-250-2593
FAX:
Mobile:
Email: carmichaelirrigation@gmail.com

Customer Information

Customer:
Manager:

Legal:
Mailing:
Email:
Phone:

System Information

System Type:	Center Pivot	Model:	E2045-G LP/57"	
System GPM:	150.0 GPM	System Length:	952'	
Elevation:	0' feet	System Acres:	65.3	Acres
Top of Inlet Pressure:	13.4 PSI	End Gun Acres:	0.0	Acres
End Pressure:	11 PSI	Total Acres:	65.3	Acres
Hours to Apply 1":	197.1 Hours			

Span Information

Number	Type	Length	Ext	Spacing	Wheel Track	Tire Size	PSI Loss	Span Cable
1	E2045	156'	N	57"	158'	11.2 x 24	0.7	10C/#12/1s
2	E2045	156'	N	57"	314'	11.2 x 24	0.6	10C/#12/1s
3	E2045	156'	N	57"	470'	11.2 x 24	0.5	10C/#12/1s
4	E2045	156'	N	57"	626'	11.2 x 24	0.3	10C/#12/1s
5	E2045	156'	N	57"	782'	11.2 x 24	0.2	10C/#12/1s
6	E2045	156'	N	57"	938'	11.2 x 24	0	10C/#12/1s
EB	E2045	13'	N	57"	952'		0	

System Components

Qty	Description
1	Pivot Center, Galvanized, Low Profile
1	Bottom Elbow-8" SAE Flange-Galv
1	Walkway - Pivot Center Platform
1	RPM Standard Main Control Panel
1	Generator Control Switch
1	LOW PRESS SW-RPM-4.5 PSI
6	Spans, 156', 4.5" dia., Galvanized Pipe, 57" Outlet Spacing

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Irrigation Systems Proposal
Dealer: Carmichael Irrigation, LLC
Customer:

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Carmichael Irrigation, LLC



361-250-2593

carmichaelirrigation@gmail.com

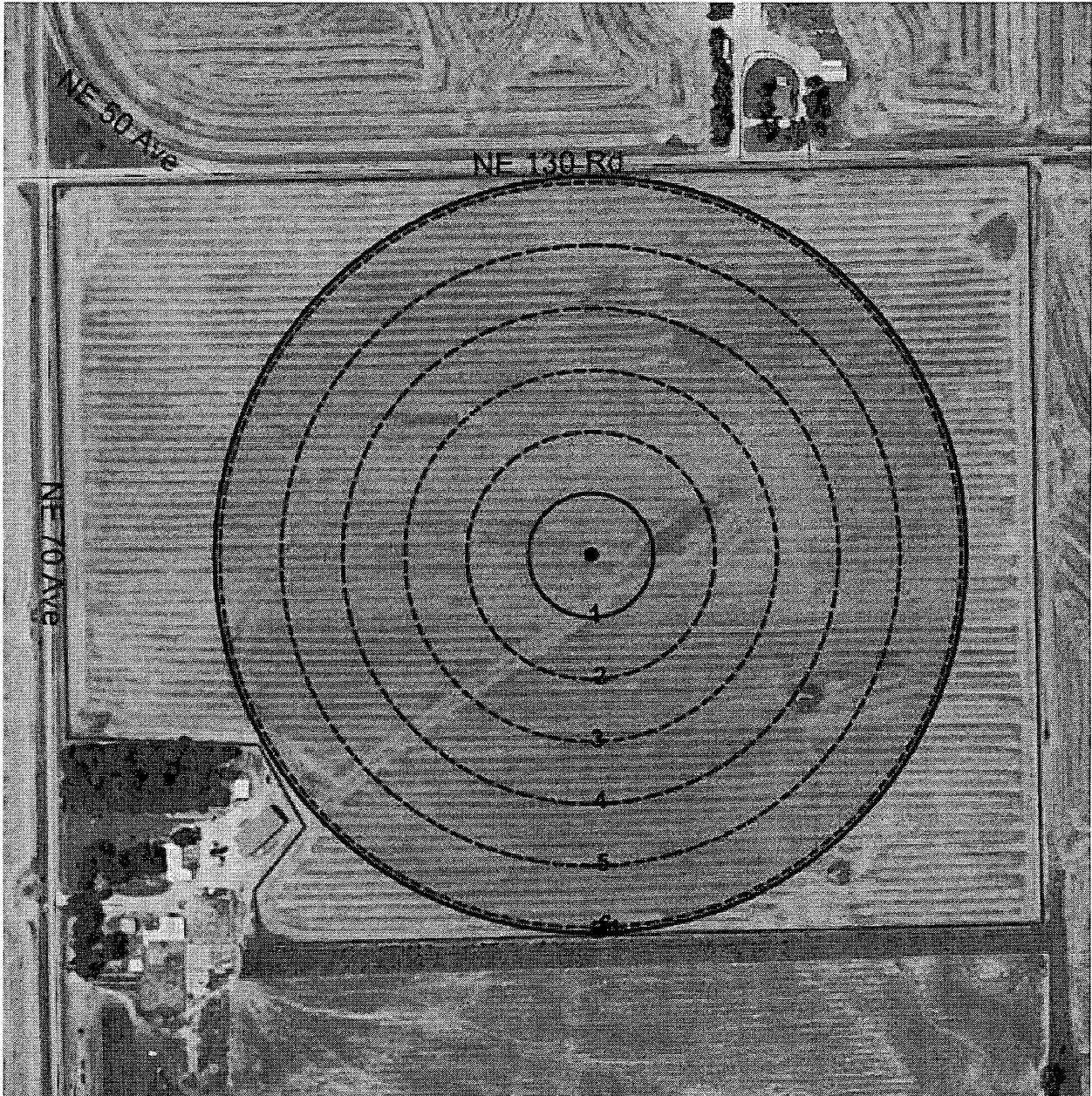
Grower: H2O Drilling **Date:** 11/27/2017
Farm: System Design 1 : 11/27/2017 **Field Name:** Field Layout 1 : 11/27/2017 **Field Area:** 102.05 acres
System Model: E2065 **System Length:** 951.00 ft **Total Irr. Area:** 65.23 acres
Number of Spans: 6

RESOURCES

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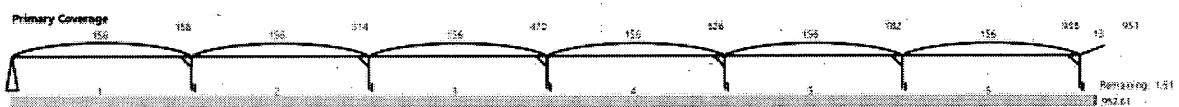
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System Length 951.00 Total Spans:6 1st/2nd Endgun Throw:
 Pivot Center Lat/Long:37 20' 21.23"N / 97 54' 29.99" W Degree of Sweep:360.00

Total Irrigated Acres:65.23 Pivot Acres: 65.23 1st/2nd Endgun Areas:
 SAC/SSAC Acres: Wrap Span Acres: Drop Span Acres:



Span Information

Span No.	1	2	3	4	5	6
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Model:	E2060	E2065	E2065	E2065	E2065	E2065	End Boom
E2065							
Length:	156'	156'	156'	156'	156'	156'	13'
Dist - Twr.	158.00 ft'	314.00 ft'	470.00 ft'	626.00 ft'	782.00 ft'	938.00 ft'	
Pipe Size:	6	6_5/8	6_5/8	6_5/8	6_5/8	6_5/8	N/A
Outlet Sp:	57"	57"	57"	57"	57"	57"	

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- 6 SPAN STAB OPT 156' EII
- 6 Motor Lead Cattle Guard-LP
- 6 Tower Assembly, Heavy Duty, Galvanized, Low Profile
- 6 Tire Option, 11.2 x 24 New Tires with Tubes, Galvanized Wheels, 1 Forward, 1 Reversed
- 6 REINKE GEAR OPTION-MOD DUTY
- 6 Helical Center Drive-Std Speed-LP-EII
- 1 End Boom, 13' Galvanized
- 1 No End Gun
- 1 Light Assembly, End Tower, Standard
- 178 Sprinklers, Senninger, Low-Drift Nozzle (LDN UP3)
- 178 Pressure Regulators, Senninger 6 PSI
- 178 Weight, Hose Drop, Senninger, Universal
- 178 GOOSENECK-3/4MNPTX3/4B-SGL-180

Standard Features

- Galvanized high tensile strength steel pipeline material for years of corrosion protection
- High Tensile Strength Steel utilized in all structural components for maximum durability
- High Tensile Strength Steel lets Reinke reduce tower weight considerably, reducing drive train stress and repair expense
- High Tensile Strength Steel provides highest strength to weight ratio in the industry
- Friction reducing full sweep elbows reduces your pumping cost
- Fully gusseted 18 inch pivot bearing increases bearing life
- Pivot Flex Joint relieves stress and improves pivot bearing life
- Stainless Steel riser gasket seat maintains positive seal, reducing repair expense
- Corrosion Resistant Aluminum Alloy Main Control Panel outlasts ordinary steel panels
- Fully upgradeable Main Control Panel to meet your future needs
- Simple, easy to understand controls makes your Reinke easy to operate
- Adjustable Main Control Panel mount insures a location convenient for you
- Eye level pressure gauge provides convenient, accurate readings
- Computer designed sprinkler packages insure uniform water application for maximum yields
- Centering ring on gearbox prevents lug bolt breakage
- Driveline Shields protect you and your family
- Reinke Irrigation Duty Motors provide years of reliable service
- Insulated Tower Boxes protect electrical components from condensation
- Exclusive mechanical safety interlock prevents access to inside of tower boxes without shutting off the electrical power
- Double Jacketed Span Cables for extra safety and long cable life
- Unique V-Ring pipe flange seal reduces your pumping and maintenance costs
- Reinke Internal Flex Joint increases the life of rubber boots reducing repair costs
- High strength single tower legs protect your systems water-pipe by absorbing the stress associated with uneven terrain
- End Booms are supported with truss rods (not only cable) for more stability

Irrigation Systems Proposal
 Dealer: Carmichael Irrigation, LLC
 Customer:

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Investment

Total List Price	\$53,433.20	
Discount	\$20,349.29	
Customer Price	\$33,083.91	T
Installation	\$4,279.50	T
Freight	\$1,800.00	T
+ Pivot Pad	\$1,000.00	T
Miscellaneous Items	\$0.00	
Price	\$40,163.41	

- Trade-In	\$0.00	T
Sub-Total	\$40,163.41	
Sales Tax (%)	\$0.00	
Total Price	\$40,163.41	

Down Payment	\$0.00
Due on Delivery	\$0.00
Due on Installation	\$40,163.41

Payment Terms Cash

Payment shall be as indicated above. Prices subject to change without notice. If Customer requests changes in the system or delays progress of the manufacture or shipment of the system, the system price shall be adjusted to reflect increases caused thereby. In addition, the system price is subject to revision due to increases in material and labor costs during the period from the date of this purchase order until completion of manufacture of the system.

Purchase of the system described above will be subject to the Terms and Conditions of the Irrigation System Purchase Agreement between the Dealer and the Customer, including but not limited to the Reinke Irrigation Systems Warranty. This document is considered CONFIDENTIAL and may not be reproduced in part or in totality without the expressed written permission of REINKE MANUFACTURING COMPANY, INC. or its associates.

Irrigation Systems Proposal
Dealer: Carmichael Irrigation, LLC
Customer:

November 27, 2017
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49908

Dealer Information

Carmichael Irrigation, LLC
13508 W 101st St N
Sedgwick, KS 67135

PO #:
Phone: 316-250-2593
FAX:
Mobile:
Email: carmichaelirrigation@gmail.com

Customer Information

Customer:
Manager:

Legal:

Mailing:

Email:
Phone:

Follow-up Date	How Contacted	Comments
	<input type="checkbox"/> In Person <input type="checkbox"/> Telephone <input type="checkbox"/> Other	
	<input type="checkbox"/> In Person <input type="checkbox"/> Telephone <input type="checkbox"/> Other	
	<input type="checkbox"/> In Person <input type="checkbox"/> Telephone <input type="checkbox"/> Other	
	<input type="checkbox"/> In Person <input type="checkbox"/> Telephone <input type="checkbox"/> Other	
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	<input type="checkbox"/> In Person <input type="checkbox"/> Telephone <input type="checkbox"/> Other	

Final Disposition

Reinke Other Did not buy

Reason:

Irrigation Systems Proposal
Dealer: Carmichael Irrigation, LLC
Customer:

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January 8, 2018
(Date)

Kansas Department of Agriculture
Division of Water Resources
David W. Barfield, Chief Engineer
1320 Research Park Drive
Manhattan, Kansas 66502

Re: Application File No. 499108

Minimum Desirable Streamflow

Dear Sir:

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. I realize that this could affect the economics of my decision to appropriate water.

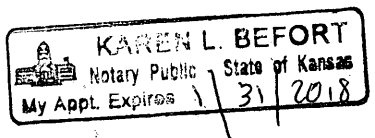
I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

[Handwritten Signature]
Signature of Applicant

State of Kansas)
County of Harper) ss

Jeff Vornauf
(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 8 day of January, 2018.



[Handwritten Signature]
Notary Public

My Commission Expires:
1/31/2018

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**MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN
APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT
TO APPROPRIATE WATER FOR BENEFICIAL USE**

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)
Neosho River

Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River

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WATER WELL RECORD Form WWC-5

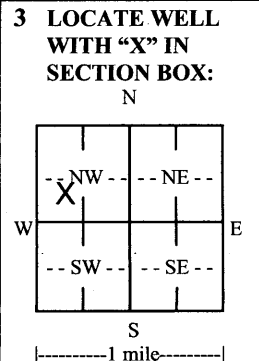
Division of Water Resources App. No.

Vornauf #2

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Harper Fraction SW 1/4 NE 1/4 SW 1/4 NW 1/4 Section Number 19 Township Number T 31 S Range Number R 5 E W

2 WELL OWNER: Last Name: Vornauf First: Jeff Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: X



3 LOCATE WELL WITH 'X' IN SECTION BOX: N W E S 1 mile. 4 DEPTH OF COMPLETED WELL: 28 ft. Depth(s) Groundwater Encountered: 1) 13.5 ft. 2) ... ft. 3) ... ft., or 4) Dry Well WELL'S STATIC WATER LEVEL: 13.5 ft. X below land surface, measured on (mo-day-yr) 11/14/2017

5 Latitude: 37.336644 (decimal degrees) Longitude: 97.911105 (decimal degrees) Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model: ... (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper: Google Earth 6 Elevation: 1382 ft. X Ground Level TOC Source: Land Survey GPS Topographic Map X Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 5. Public Water Supply: well ID 6. Dewatering: how many wells? 7. Aquifer Recharge: well ID 8. Monitoring: well ID 9. Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Recovery Injection 10. Oil Field Water Supply: lease 11. Test Hole: well ID Vornauf #2 Cased Uncased Geotechnical 12. Geothermal: how many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water 13. Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No X No If yes, date sample was submitted: Water well disinfected? Yes No X No

8 TYPE OF CASING USED: Steel PVC Other None CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 0 in. to 0 ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface 0 in. Weight lbs./ft. Wall thickness or gauge No. 0 TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From ft. to ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From 25 ft. to 28 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite X Other Grout Intervals: From 0 ft. to 25 ft., From ft. to ft., From ft. to ft. Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens X Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify) Direction from well? West Distance from well? 50 ft.

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-5 Topsoil, 5-13 Red/Brown Clay, 13-20 Small Gravel, 20-25 Medium Gravel, 25-28 Red & Blue Shale. Includes 'Notes: JAN 11 2018' and 'WATER RESOURCES RECEIVED' stamp.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was X constructed, X reconstructed, or X plugged under my jurisdiction and was completed on (mo-day-year) 11/14/2017 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 860 This Water Well Record was completed on (mo-day-year) 11/30/2017 under the business name of H2O Drilling LLC

49908

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

Vornauf #1

Original Record Correction Change in Well Use

Well ID

1 LOCATION OF WATER WELL: County: Harper	Fraction SW ¼ NE ¼ NE ¼ NW ¼	Section Number 19	Township Number T 31 S	Range Number R 5 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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2 WELL OWNER: Last Name: Vornauf First: Jeff Business: Address: 1266 NE 70 Ave. Address: City: Harper State: KS ZIP: 67058	Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input checked="" type="checkbox"/>
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3 LOCATE WELL WITH "X" IN SECTION BOX: N S -----1 mile-----	4 DEPTH OF COMPLETED WELL: 28 ft. Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) <input checked="" type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr)..... <input type="checkbox"/> above land surface, measured on (mo-day-yr)..... Pump test data: Well water was ft. after hours pumping gpm Well water was ft. after hours pumping gpm Estimated Yield: gpm Bore Hole Diameter: 4 in. to 28 ft. and in. to ft.	5 Latitude: 37.340893 (decimal degrees) Longitude: 97.906571 (decimal degrees) Datum: <input type="checkbox"/> WGS 84 <input checked="" type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Online Mapper: Google Earth
		6 Elevation: 1383 ft. <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Other KOLAR

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock	5. <input type="checkbox"/> Public Water Supply: well ID 6. <input type="checkbox"/> Dewatering: how many wells? 7. <input type="checkbox"/> Aquifer Recharge: well ID 8. <input type="checkbox"/> Monitoring: well ID 9. Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection	10. <input type="checkbox"/> Oil Field Water Supply: lease 11. Test Hole: well ID Vornauf #1 <input type="checkbox"/> Cased <input checked="" type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12. Geothermal: how many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water 13. <input type="checkbox"/> Other (specify):
--	--	---

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted:

Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other None CASING JOINTS: Glued Clamped Welded Threaded
Casing diameter 0 in. to 0 ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface 0 in. Weight lbs./ft. Wall thickness or gauge No. 0

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)
 Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify)
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From ft. to ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From ft. to 0 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify)

Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	5	Topsoil			
5	7	Brown Clay			
7	8	Sand & Brown Clay			
8	18	Small Gravel			
18	25	Shale - Red			
25	28	Red & Blue Shale			
			Notes:		

WATER RESOURCES RECEIVED
JAN 11 2018
KS DEPT OF AGRICULTURE

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) .11/14/2017..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 860..... This Water Well Record was completed on (mo-day-year) .11/30/2017..... under the business name of H2O Drilling LLC.....

49968

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

Vornauf #3

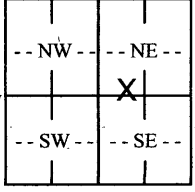
Original Record Correction Change in Well Use

Well ID

1 LOCATION OF WATER WELL: County: Harper Fraction SW 1/4 SE 1/4 SW 1/4 NE 1/4 Section Number 24 Township Number T 31 S Range Number R 6 E W

2 WELL OWNER: Last Name: Vornauf First: Jeff Street or Rural Address where well is located: NE 70 Ave. & NE 130 Rd. City: Harper State: KS ZIP: 67058

3 LOCATE WELL WITH 'X' IN SECTION BOX: N



4 DEPTH OF COMPLETED WELL: 28 ft. Depth(s) Groundwater Encountered: 1) ... ft. 2) ... ft. 3) ... ft., or 4) Dry Well. WELL'S STATIC WATER LEVEL: ... ft. Pump test data: Well water was ... ft. after ... hours pumping ... gpm.

5 Latitude: 37.335224 (decimal degrees) Longitude: 97.918865 (decimal degrees) Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model: ... (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper: Google Earth

6 Elevation: 1389 ft. Ground Level TOC Source: Land Survey GPS Topographic Map Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 5. Public Water Supply: well ID 6. Dewatering: how many wells? 7. Aquifer Recharge: well ID 8. Monitoring: well ID 9. Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Recovery Injection 10. Oil Field Water Supply: lease 11. Test Hole: well ID Vornauf #3 Cased Uncased Geotechnical 12. Geothermal: how many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water 13. Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other None CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 0 in. to 0 ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface 0 in. Weight lbs./ft. Wall thickness or gauge No. 0. TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From ft. to ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From 25 ft. to 28 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Grout Intervals: From 0 ft. to 25 ft., From ft. to ft., From ft. to ft. Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify) Direction from well? Distance from well? ft.

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-5 Top Soil, 5-8 Brown Clay, 8-10 Small Gravel, 10-14 Small to Medium Gravel, 14-15 Medium to Large Gravel, 15-20 Red Clay & Shale, 20-28 Red & Blue Shale - Mostly Hard. Includes 'Notes: JAN 11 2018' and 'WATER RESOURCES RECEIVED' stamp.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 11/14/2017 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 860 This Water Well Record was completed on (mo-day-year) 11/30/2017 under the business name of H2O Drilling LLC



1320 Research Park Drive
Manhattan, Kansas 66502
Jackie McClaskey, Secretary

Phone: (785) 564-6700
Fax: (785) 564-6777
Email: ksag@kda.ks.gov
www.agriculture.ks.gov
Sam Brownback, Governor

January 12, 2018

JEFF VORNAUF
1266 NE 70TH AVE
HARPER KS 67058

RE: Application
File No. 49968

Dear Sir or Madam:

Your application for permit to appropriate water in 19-31S-5W in Harper County, was received and has been assigned the file number noted above.

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. Once review of your application has begun, we will contact you, if additional information is required.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water as proposed prior to approval of the application is unlawful. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

Section 82a-728 of the Kansas Water Appropriation Act, provides (a) except for the appropriation of water for the purpose of domestic use, . . . it shall be unlawful for any person to appropriate or threaten to appropriate water from any source without first applying for and obtaining a permit to appropriate water in accordance with the provisions of the Water Appropriation Act or for any person to violate any condition of a vested right, appropriation right or an approved application for a permit to appropriate water for beneficial use.

(b) (1) The violation of any provision of this section by any person is a class C misdemeanor . . .

A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.

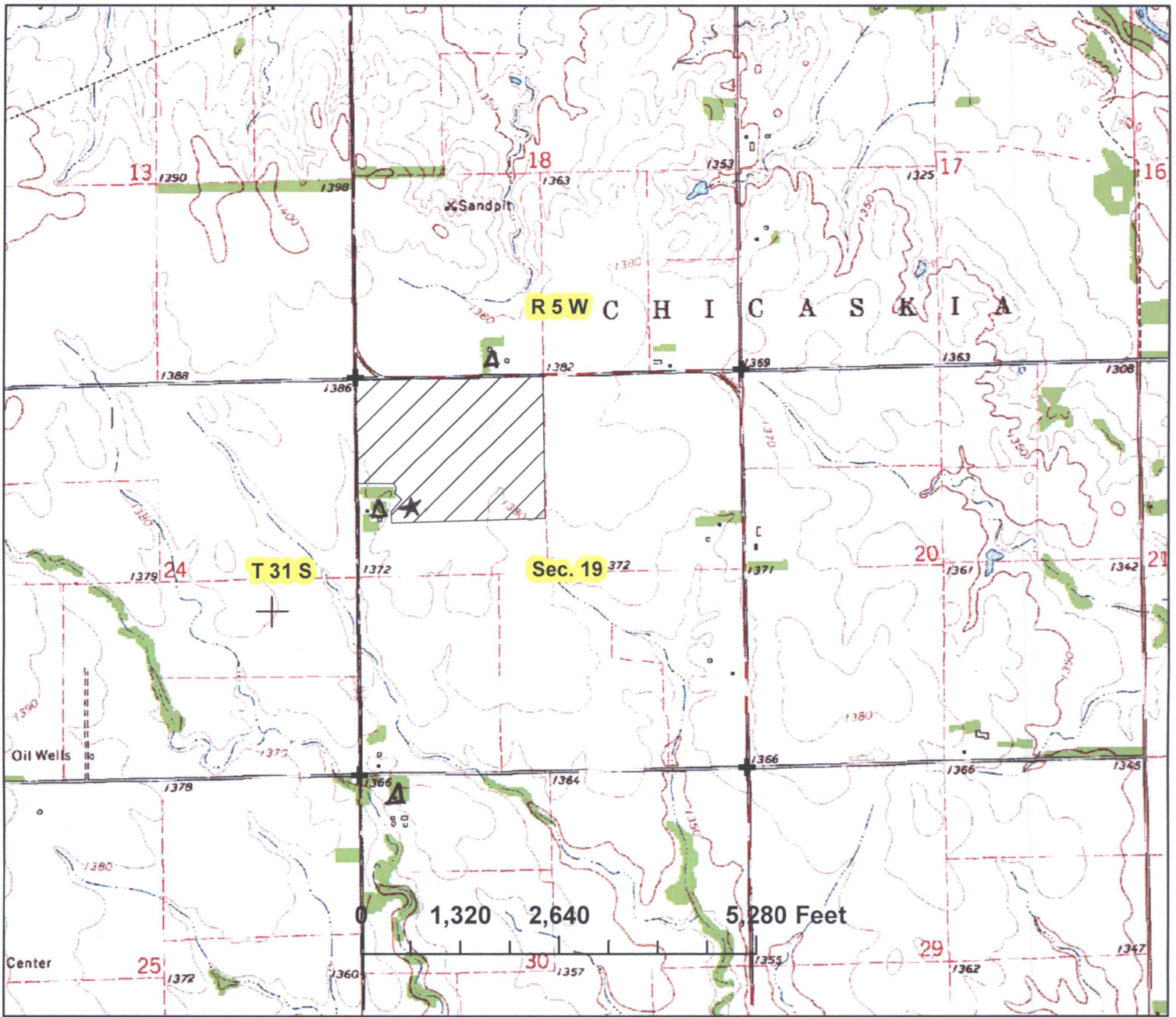
If you have any questions, please contact me at (785) 564-6637. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.


Sincerely,

Kristen A. Baum
New Applications Unit Supervisor
Water Appropriation Program

BAT: dlw
pc: STAFFORD Field Office
GMD

Application Map, No. 409108
 NW ¼ Sec.19-T31S-R5W in Harper County

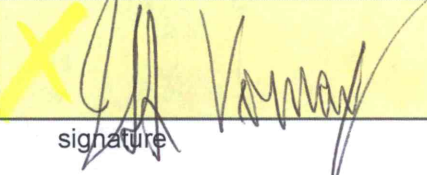


Δ = Domestic Well
 ☆ = GeoCenter
 proposed place of use covering 105 acres
 + section corners



*****Please mark the proposed location of the geo center and the location of all domestic wells within ½ mile of the geo center. Also include a list of the names and mailing addresses of nearby owners**

By signing below I agree that all wells, including domestic, within ½ mile of the point of diversion have been shown on the map.


1-8-18
 signature date


WATER RESOURCES RECEIVED

JAN 11 2018

KS DEPT OF AGRICULTURE
 1 inch = 2,000 feet
 map created on 11/21/17 scale 1:24,000

Application Map, No. 49968
 NW ¼ Sec.19-T31S-R5W in Harper County

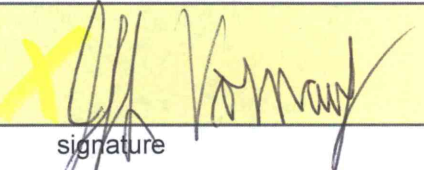


Δ = Domestic Well
 ☆ = GeoCenter
 proposed place of use covering 105 acres
 + section corners



***Please mark the proposed location of the geo center and the location of all domestic wells within ½ mile of the geo center. Also include a list of the names and mailing addresses of nearby owners

By signing below I agree that all wells, including domestic, within ½ mile of the point of diversion have been shown on the map.

 1-8-18
 signature date

WATER RESOURCES RECEIVED
 JAN 11 2018
 KS DEPT OF AGRICULTURE

1 inch = 1,000 feet
 map created on 11/21/17 scale 1:12,000