

Submit To:  
CHIEF ENGINEER  
Division of Water Resources  
Kansas Department of Agriculture  
1320 Research Park Drive  
Manhattan, KS 66502-5000  
<http://agriculture.ks.gov/dwr>

WATER RESOURCES RECEIVED  
JUN 13 2024 14:38  
KS Dept. of Agriculture

# APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE



STATUTORY FILING FEE MUST ACCOMPANY THIS APPLICATION  
Please refer to the Fee Schedule attached to this application form.

File Number: **51252**  
This item to be completed by the Division of Water Resources staff.

1. Name of Applicant: Hemink Farms LTD  
Address: 2635 CR 521  
City: Hart State: TX Zip Code: 79043  
Phone: 806/240-5852 Email: lars@spandetdairy.com

2. The source of water is:  surface water in \_\_\_\_\_ (stream)  
 groundwater in Buckner (drainage basin)

3. The maximum annual quantity of water desired is 967.8 for Irrigation  acre-feet  gallons  
to be diverted at a maximum rate of 600  gpm  c.f.s.  natural flows  natural evaporation  
 This project involves surface water storage and redirection. The maximum annual quantity of water desired to be  
rediverted is \_\_\_\_\_  acre-feet  gallons, at a rate of \_\_\_\_\_  gpm  c.f.s.

**Conversion Factors**

1 acre-foot (AF) = 325,851 gallons  
1 million gallons (mg) = 3.07 acre-feet (AF)  
1 cubic foot per second (c.f.s.) = 448.8 gallons per minute (gpm)

**IMPORTANT:** Once your application has been assigned a priority date and file number, the requested maximum rate of diversion and maximum requested annual quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum annual quantity of water are appropriate and reasonable for your proposed project.

4. The water is intended to be appropriated for the following use(s):  
 Artificial Recharge\*  Irrigation\*  Recreational\*  Water Power\*  
 Industrial\*  Municipal\*  Stockwatering\*  Sediment Control  
 Domestic  Dewatering  Hydraulic Dredging  Fire Protection  
 Thermal Exchange  Contamination Remediation

**\*IMPORTANT:** You **must** submit a supplemental form providing information to substantiate your request for the quantity of water listed in Item No. 3 for the intended use(s) referenced above.

FOR OFFICE USE ONLY					
FO	<u>4</u>	GMD	<u>3</u>	DUA	<u>-</u>
Code	<u>AE3</u>	Fee \$	<u>429.56</u>	Use	<u>IRR</u>
	<u>AE3</u>		<u>10.44</u>	Source	<u>GW</u>
				County	<u>GY</u>
				By	<u>KJN</u>
				Date	<u>6/14/24</u>
				Receipt Date	<u>6-13-24</u>
				Check #	<u>16254</u>

PY 2406Q 332 Q

**\$440 TOTAL**

6/17/2024  
KAnderson

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5. The location(s) of the proposed diversion work(s) (well, pumpsite, etc.) are described below. Note that for the application to be accepted, the point of diversion location(s) **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. You can specify a nickname for the point of diversion via the A.K.A. line to help you identify it.

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 800gpm and which supply water to a common distribution system.

(A) One in the SE quarter of the SE quarter of the SE quarter of Section 32, more particularly described as being near a point 76.5 feet North and 688.5 feet West of the Southeast corner of said section, in Township 24 South, Range 27 E W, GRAY County, KS. A.K.A: D1

(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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(E) 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 \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

6. The proposed project for diversion of water will consist of 1 well  
(number of wells, pumps, dams, etc.)  
and was/will be completed on or by the following date: ASAP - 9/1/2024  
(date each was or will be completed)

7. The first actual application of water for the proposed beneficial use was or is estimated to be 9/1/2024  
(Date)

8. List any application, appropriation of water, water right, or vested right file number that covers the same point(s) of diversion 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.

New application for a Dakota Well to provide additional authority to existing authorized quantities. Application will overlap existing  
WRs 21114, 23384, 29068, 29113 & 31670 with the same places of use for IRR in Sections 29 & 32-T24S, R27W and STK use in the  
parts of the following Sections: NE/4, NW & SE/4 of Section 31, SW/4 & SE/4 of Section 30, NW/4 of Section 32 and SW/4 of Section 29,  
all of T24S-R27W. Additional authority will be for irrigation and stockwater dual use. Maximum authority for stockwater (967.8 ac-ft)is requested.

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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 DWR prior to submitting this application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir. N/A

Have you made an application for a permit for construction of this dam and reservoir with DWR?     Yes     No

If yes, write the Water Structures permit number here: \_\_\_\_\_

11. Furnish a detailed topographic or aerial map that depicts the following information:

The application **must** be supplemented by a topographic map, aerial photograph or a detailed plat showing the information described in A-D below.

(A) The center of the section, the section lines or the section corners, and labels showing the appropriate section, township and range numbers, as well as a north arrow and scale,

(B) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) described in Item No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section,

(C) The location of the proposed place of use identified by crosshatching,

(D) **For Groundwater Use**, the location of any existing water wells of any kind within 1/2 mile of the proposed well or wells and indicate for each well its type of use and the name and mailing address of the property owner or owners, (If there are no wells within 1/2 mile, please indicate that on the map.)

**For Surface Water Use**, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines, and

(E) The locations of proposed or existing dams, dikes, reservoirs, canals, pipelines, power houses, and any other structures for the purpose of storing, conveying, or using water.

12. For groundwater use, furnish copies of the driller's logs for all test holes or completed wells. Please ensure that the driller's logs provide depth to the static water level. If driller's logs cannot be obtained for an existing well, provide the following information:

Well location as shown in Item No. 5	(A)	(B)	(C)	(D)	(E)
Date drilled	4/12/2024	_____	_____	_____	_____
Total depth of well	700' test hole	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____	_____

13. The owner(s) of the point of diversion, if other than the applicant is:

Hemink Farms, LTD

\_\_\_\_\_  
(name, address, and phone)

\_\_\_\_\_  
(name, address, and phone)

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14. The owner(s) of the property where the water is used, if other than the applicant, is:

Spandet Dairy, LLC & Hemink Farms, LTD

\_\_\_\_\_  
(name, address, and phone)

\_\_\_\_\_  
(name, address, and phone)

15. The relationship of the applicant to the proposed place where the water will be used is that of:

Owner     Agent     Tenant     Other: \_\_\_\_\_

16. A water use correspondent (WUC) must be designated. The WUC will be mailed the annual water use report, which must be filed with the Division by March 1 of each year. Failure to timely file an accurate water use report will subject the owner(s) to a civil fine of up to \$1,000 and potential suspension of the water appropriation or right. By signing this application, I verify that the owner(s) of the water right or permit have confirmed that the following person or agent should be designated as the WUC:

Spandet Dairy, LLC, 6306 20 Rd, Cimarron, KS 67835

\_\_\_\_\_  
(name, address, and phone)

17. I 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. This could affect the economics of my decision to appropriate water. Situations where this might occur may include times when minimum desirable streamflow (MDS) requirements are not met, when Assurance District or Water Marketing releases are made from storage in federal reservoirs, when a Water Reservation Right upstream of a federal reservoir is administered, or when water rights administration becomes necessary to prevent impairment.

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

By signing below, I verify that the information set forth above is true to the best of my knowledge, I agree with all statements made above, and that this application is submitted in good faith.



\_\_\_\_\_  
(Applicant Signature)

06/11/2024

\_\_\_\_\_  
(Date)

Lars Schilderink

\_\_\_\_\_  
(Applicant Name – please print)

General Manager

\_\_\_\_\_  
(Applicant Title, if applicable – please print)

Assisted by \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_  
(office/title)

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**FEE SCHEDULE**

Make checks payable to the Kansas Department of Agriculture. **KS Dept. of Agriculture**

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic, waterpower, dewatering, or sediment control use, shall be (see No. 2 below if requesting storage):

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 32.585	≤ 100	\$200.00
32.586 - 104.272	100.1 – 320.0	\$300.00
> 104.272	> 320	\$300.00 plus \$20 for each additional 100AF (32.586mg) or any part thereof

2. The fee for an application in which **storage** of water is requested, except for domestic use, shall be:

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 81.462	≤ 249.9	\$200.00
≥ 81.463	≥ 250	\$200.00 plus \$20 for each additional 100AF (32.586mg) or any part thereof

**Note:** If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for **waterpower** or **dewatering** use shall be \$100.00 plus \$200.00 for each 44,880 gallons per minute (100 c.f.s.), or part thereof, of the diversion rate requested.

**IMPORTANT NOTICE**

If this application is approved, the applicant shall notify the Chief Engineer when the diversion works (well, pump, reservoir, pit, etc.) has/have been completed via the *Notice of Completion of Diversion Works* form (DWR 1-203.11) and along with the statutorily required field inspection fee of:

- \$200.00 for sediment control use or groundwater pits for industrial use, or
- \$400.00 for all other uses made of water

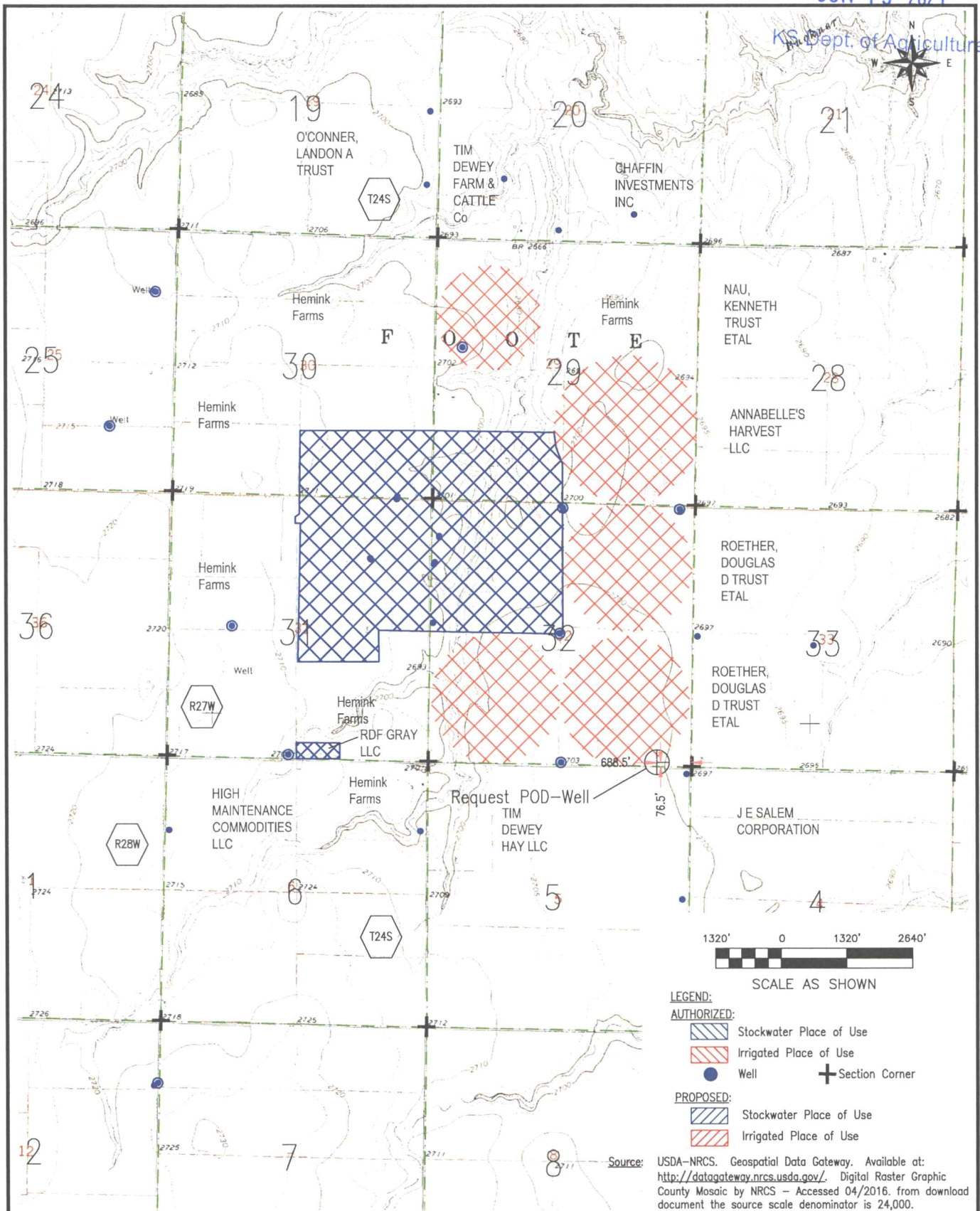
Failure to complete the diversion works by the deadline specified in the *Approval of Application and Permit to Proceed* (or any subsequent extension of time of said deadline) and/or failure to submit the proper notice and field inspection fee will result in the dismissal of the appropriation and forfeiture of any priority associated with it.

**For assistance with this application, please contact the Division of Water Resources (DWR).**

<b>Manhattan HQ</b> 1320 Research Park Dr. Manhattan, KS 66502 785-564-6638	<b>Topeka Field Office</b> 1131 SW Winding Rd, Ste 400 Topeka, KS 66615 785-296-5733	<b>Stafford Field Office</b> 300 S. Main St Stafford, KS 67578 620-234-5311	<b>Stockton Field Office</b> 820 S. Walnut Stockton, KS 67669 785-425-6787	<b>Garden City Field Office</b> 4532 W. Jones Ave, Ste B Garden City, KS 67846 620-276-2901
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**Helpful Sources of Information**

DWR Water Appropriation Program	<a href="https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation">https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation</a>
DWR Water Appropriation Forms	<a href="https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-appropriation-forms">https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-appropriation-forms</a>
KGS Water Well Completion Records	<a href="https://www.kgs.ku.edu/Magellan/WaterWell/index.html">https://www.kgs.ku.edu/Magellan/WaterWell/index.html</a>
DWR Structures Program	<a href="https://agriculture.ks.gov/divisions-programs/dwr/dam-safety/permit-requirements">https://agriculture.ks.gov/divisions-programs/dwr/dam-safety/permit-requirements</a>



Spandet Dairy & Hemink Farms  
 Cimarron, KS  
 Gray County

Proposed Application to  
 Appropriate Water for Beneficial Use  
 Figure 1a - Date: May 2024



Enviro-Ag Engineering, Inc.  
 ENGINEERING CONSULTANTS  
 3404 Airway Boulevard  
 AMARILLO, TEXAS 79118  
 TEL (806) 353-6123 FAX (806) 353-4132

NASH WATER WELL SERVICE, LLC  
 PO Box 1388  
 710 W AVE A  
 CIMARRON KS 67835  
 620-277-5657

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OWNER: SPANDETT DAIRY

LATITUDE: 37.914339

LONGITUDE: 100.302700

DEPTH OF TEST HOLE DRILLED: 700'

JOB NAME: #6

DATE: 04/12/2024

LITHOLOGIC LOG INFORMATION:

FROM	TO	LITHOLOGIC LOG	
0'	4'	TOP SOIL	
4'	30'	BROWN CLAY WITH FINE SAND STREAKS	
30'	50'	TAN BROWN CLAY WITH WHITE CALICHE & ROCK STREAKS WITH FINE SAND	
50'	60'	FINE MEDIUM SAND WITH TAN BROWN CLAY	
60'	80'	FINE COARSE SAND WITH ROCK STREAKS AND LAYERS	
80'	100'	FINE COARSE SAND	
100'	160'	FINE COARSE SAND WITH SMALL GRAVEL STREAKS	
160'	165'	FINE COARSE SAND WITH ROCK LAYERS	
165'	168'	TAN WHITE YELLOW CLAY & ROCK LAYERS WITH FINE MEDIUM SAND STREAKS	
168'	260'	BLUE SHALE	
260'	280'	BLUE SHALE & BLUE CLAY	
280'	300'	BLUE CLAY	
300'	320'	BLUE GRAY CLAY WITH THIN STREAKS OF GRAY SANDSTONE	MEDIUM 30%
320'	340'	GRAY CLAY WITH GRAY COARSE SANDSTONE	MEDIUM 55%
340'	360'	GRAY COARSE SANDSTONE WITH GRAY CLAY	MEDIUM 70%
360'	380'	GRAY COARSE SANDSTONE WITH GRAY CLAY	MEDIUM 65%
380'	400'	GRAY COARSE SANDSTONE WITH GRAY CLAY	MEDIUM 65%
400'	420'	GRAY COARSE SANDSTONE WITH GRAY CLAY	MEDIUM 55%
420'	440'	MEDIUM SANDSTONE WITH GRAY CLAY	MEDIUM 90%
440'	460'	FINE SANDSTONE GRAY STICKY CLAY	TIGHT 80%
460'	480'	FINE TIGHT SANDSTONE WITH BLUE GRAY RED STICKY CLAY STREAKS	MEDIUM TIGHT 85%
480'	500'	FINE TIGHT SANDSTONE WITH BLUE GRAY RED STICKY CLAY STREAKS	TIGHT 75%
500'	520'	BLUE GRAY RED CLAY WITH MAYBE TIGHT SANDSTONE	TIGHT 40%
520'	540'	BLUE GRAY CLAY WITH TIGHT TAN SANDSTONE	TIGHT 65%
540'	560'	MEDIUM TAN SAND SANDSTONE WITH BLUE GRAY CLAY	MEDIUM 80%
560'	580'	MEDIUM TAN SAND SANDSTONE WITH BLUE GRAY CLAY	MEDIUM 90%
580'	600'	MEDIUM TAN SAND SANDSTONE WITH BLUE GRAY CLAY	MEDIUM 65%
600'	620'	MEDIUM GRAY SANDSTONE WITH BLUE CLAY	MEDIUM 90%
620'	640'	MEDIUM GRAY SANDSTONE WITH BLUE CLAY	MEDIUM 85%
640'	660'	MEDIUM TIGHT GRAY SANDSTONE WITH BLUE CLAY	MEDIUM 75%
660'	680'	BLUE SHALE BLUE CLAY WITH GRAY SANDSTONE	TIGHT 20%
680'	700'	BLUE SHALE BLUE CLAY WITH GRAY SANDSTONE	5%

<u>WELL_ID/PDIV_ID</u>	<u>COUNTY</u>	<u>TOWNSHIP</u>	<u>TWN_DIR</u>	<u>RANGE</u>	<u>RANGE_DIR</u>	<u>SECTION</u>	<u>SPOT</u>	<u>LONGITUDE</u>	<u>LATITUDE</u>	<u>OWNER*</u>	<u>ADDRESS*</u>	<u>WELL_USE</u>
426965	Gray	24	S	27	W		20 SW SE SE	-100.3033	37.9437655	Chaffin Investments Inc	PO BOX 77 DODGE CITY, KS 67801-0077	Irrigation-PLUGGED
23849	Gray	24	S	27	W		20 NE SW SW	-100.3147	37.9456554	Dewey, Tim	PO BOX 269 CIMARRON, KS 67835-0269	Irrigation
	Gray	24	S	27	W		20 SE SW	-100.311	37.9438	Dewey, Tim	PO BOX 269 CIMARRON, KS 67835-0269	Domestic
348712	Gray	24	S	27	W		19 C E2 SE	-100.3204	37.9466104	O'CONNOR, LANDON A TRUST	2513 ROUGH CREEK RD DERBY, KS 67037-9720	Irrigation
341775	Gray	24	S	27	W		19 NC E2 SE	-100.3204	37.9484343	O'CONNOR, LANDON A TRUST	2513 ROUGH CREEK RD DERBY, KS 67037-9720	Irrigation-PLUGGED
5973	Gray	25	S	27	W		5 NE NE	-100.3005	37.9071	TIM DEWEY HAY LLC	PO BOX 269 CIMARRON, KS 67835-0269	Irrigation
33965	Gray	25	S	27	W		5 SE NE	-100.3006	37.91357	TIM DEWEY HAY LLC	PO BOX 269 CIMARRON, KS 67835-0269	Irrigation
	Gray	24	S	27	W		33 NE NE SW	-100.292	37.9204	ROETHER, DOUGLAS D TRUST ETAL	732 CRESTVIEW DR JUNCTION CITY, KS 66441-3428	
4309	Gray	24	S	27	W		33 NW-NW-SW	-100.3	37.92081	ROETHER, DOUGLAS D TRUST ETAL	732 CRESTVIEW DR JUNCTION CITY, KS 66441-3428	Irrigation
	Gray	24	S	27	W	29, 30, 31 & 32	All wells shown on map in Sections			Hemink Farms, LTD	2635 COUNTY ROAD 521 HART, TX 79043-5258	Irrigation/Stock
	Gray	25	S	27	W	6	All wells shown on map in NE/4 of 6			Hemink Farms, LTD	2635 COUNTY ROAD 521 HART, TX 79043-5258	Stock
	Gray	25	S	27	W	6	NW/4-no known wells			HIGH MAINTENANCE COMMODITIES LLC	1800 COUNTRY CLUB RD DALHART, TX 79022-7235	
	Gray	25	S	27	W	4	NW/4-no known wells			J E SALEM CORPORATION/O SALEM, SABRA 1111 NORTH PRAIRIE CREEK ANDOVER, KS 67002-8486		
	Gray	24	S	27	W	28	NW/4-no known wells			NAU, KENNETH TRUST ETAL	10683 126 RD SPEARVILLE, KS 67876-8724	
	Gray	24	S	27	W	28	SW/4-no known wells			ANNABELLE'S HARVEST LLC	C/O BALL, PAMELA 2222 BIRCH HOLLOW TRAIL LAWRENCEVILLE, GA 30043-6333	

Data obtained from the WWCS Water Well Database Query and WIMAS Water Rights Database (<https://kgs.ku.edu/water-resources-and-geohydrology>).  
\*Well Owner as noted on WWCS database and Addresses obtained from the Open Records for Kansas Appraisers - Edwards County (<https://www.kansasgis.org/orka/map.cfm>) OR from the well log obtained from WWCS Database Query (<https://www.kgs.ku.edu/Magellan/WaterWell/index.html>)

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## Gray County

\*No known wells are located within 2-mile of the proposed well for Hemink Farms-Spandet Dairy.

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These are the wells available for this county

### Township 24 South

[C NE NE, Sec. 21, Twp. 24S, Rge. 29W](#)

[C SW NE, Sec. 1, Twp. 24S, Rge. 30W](#)

### Township 25 South

[T25S R27W, Sec. 32, 25' E OF E/2 SE SW](#)

[T25S R29W, Sec. 19, C NW NW](#)

[T25S R30W, Sec. 29, C NE SW](#)

### Township 26 South

[T26S R29W, Sec. 20, SW SW NE](#)

[T26S R30W, Sec. 1, C NW SE](#)

### Township 27 South

[T27S R27W, Sec. 33, SE SE NW](#)

[T27S R28W, Sec. 31, C-SW-SW-SW](#)

[T27S R29W, Sec. 23, SE-SE-SE](#)

### Township 28 South

[T28S R27W, Sec. 3, 1980 FSL & 1320 FWL](#)

[T28S R27W, Sec. 31, SW-SW-SW](#)

[T28S R30W, Sec. 17, NW CORNER](#)

### Township 29 South

[T29S R28W, Sec. 4, C-NE](#)

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Kansas Geological Survey, Dakota Aquifer Program

Send comments and/or suggestions to [webadmin@kgs.ku.edu](mailto:webadmin@kgs.ku.edu)

Updated Oct. 15, 1998

URL = <http://www.kgs.ku.edu/Dakota/vol2/cnty/gray.htm>

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**IRRIGATION USE  
SUPPLEMENTAL SHEET**

File No. \_\_\_\_\_

Name of Applicant (Please Print): Hemink Farms, LTD

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: Hemink Farms, LTD

**IRR POU>** ADDRESS: 2635 CR 521, Hart, TX 79043

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
32	24	27W	31.5	31.5	31.5	31.5	10			40	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	428 - IRR
29	24	27W			6.4	3.7					6.4			3.7	35.6	39.5	35.6	29.1	160 - IRR
29	24	27W					4	35	40	12									91 - IRR

**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: Hemink Farms, LTD & Spandet Dairy LLC

**STK POU>** ADDRESS: 6306 20 Rd, Cimarron, KS 67835

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
32	24	27W					X	X	X	X									
							all NW¼												
31	24	27W	X	X	X	X	X								X			X	
			all NE¼				NE/Pt of NE¼								SW/Pt & NW/Pt of SE¼				
30	24	27W											X			X		X	
													SE/Pt of SW¼			S/2 of SE¼			
29	24	27W											X	X					
													S/2 of SW¼						

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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: **\*Existing Irrigation System**

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
2801-Spearville	Est 76.6	0.2-0.6	Existing System
1960-Buffalo Spark	Est 7.7	2.0-6.0	Existing System
1762-Richfield & 2612 Harney	Est 5.7/6.2	2.0-6.0	Existing System
2815-Uly	Est 3.8	2.0-6.0	Existing System
Total:	100 %		

b. Estimate the average land slope in the field(s): Predominate 0-1 % based on soil survey  
 Estimate the maximum land slope in the field(s): 6 % based on soil survey

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:

Sprinklers are extremely low to the ground and are low pressure. Irrigation application with LEPA sprinklers will be managed so that no tailwater is expected.

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: 15-30 psi

(2) What is the sprinkler package design rate? 450 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? Existing feet - Refer to Page 1 of 2

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

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

Sorgh Silage, Wheat/Triticale Silage and Corn Silage

Crops are selected based on dairy rations and may change due to availability of feedstuffs.

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).

First priority will be stockwater for dairy. Any additional irrigation needs will be based on crop demands of selected crops. Stockwater utilized by the dairy will be captured in wastewater storage ponds and recycled for and beneficial use on crops throughout the farm for irrigation purposes.

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

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KS Dept. of Agriculture

**STOCKWATER USE  
SUPPLEMENTAL SHEET**

File No. 13865//29068/29113/31670/36483/36848/39637 & (21114/23384)

Name of Applicant (Please Print): Spandet Dairy, LLC & Hemink Land

1. Please indicate type of livestock (cattle, hogs, etc.): Dairy Cattle

2. Please complete the following table showing past and present water requirements:

**PAST NUMBER OF HEAD AND WATER DIVERTED, IF APPLICABLE**

LAST 5 YEARS	NUMBER OF HEAD	WATER DIVERTED (GALLONS)	GALLONS PER HEAD PER DAY
2018 5 years ago	14,983	130,047,134.1	avg 23.78 gals/hd/day
2023 Last year	14,644	250,182,457	avg 46.8 gals/hd/day
Present Year			

3. Please complete the following table showing estimated future water requirements:

**ESTIMATED FUTURE NUMBER OF HEAD AND WATER DIVERTED**

NEXT 5 YEARS	NUMBER OF HEAD	WATER TO BE DIVERTED (GALLONS)	GALLONS PER HEAD PER DAY
Year 1	20,700	271,306,000	avg 35.9 gals/hd/day
Year 2	20,700	271,306,000	avg 35.9 gals/hd/day
Year 3	20,700	271,306,000	avg 35.9 gals/hd/day
Year 4	20,700	271,306,000	avg 35.9 gals/hd/day
Year 5	20,700	271,306,000	avg 35.9 gals/hd/day

Please attach any additional information, tables, or curves showing past, present and estimated future water requirements to substantiate the amount of water requested.

4. Please designate the legal description of the location where the water is to be used. Show in the space provided below the Section (S), Township (T), and Range (R), and the number of acres in each forty acre tract or fractional portion thereof.

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
31	24S	27W	X	X	X	X	X									X		X	
30	24S	27W													X		X	X	

32 24S 27W X X X X X X  
 29 24S 27W X X

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5. Show quantities of water used and all associated water uses at the feedlot such as water used in feed mills, cooling of animals, washing, flushing of wastes, etc.: Estimates below:

**DRINKING**

9,600 head of milkers x 36 gallons/head (avg.) x 365 days = 126 M gallons

7,500 head of heifers, dry cows x 14-15 gallons/head (avg.) x 365 days = 39 M gallons

3,600 head of young stock x 5 gallons/head (avg.) x 365 days = 6.5 M gallons

**COOLING** n/a

200-400 gallons/hour x 2.67 hour/day x 165 days = 4.4 M gallons

**SANITATION**

Parlor Operations-Sanitation

60,000 gals/day x 365 days/yr = 21.9 M

\_\_\_\_\_ g.p.m. x 60 min/hr x \_\_\_\_\_ hr/wk x \_\_\_\_\_ wks/yr = \_\_\_\_\_ gallons

5,000 gals/day x 365 days = 1.8 M gallons

5,750 gals/day x 365 days = 2.1 M gallons

**OTHER USE** (Explain) \_\_\_\_\_ Additional Cooling = 15.7 M gallons

Overflow Water Troughs 15 M gals

Cow Wash 3.5 M gals

Manure Management 4 M gals

**TOTAL** ----- 271.3 M gallons

6. Show location of present and future location of confinement pens on your attached maps or photographs. Refer to attached Proposed Site Map(s).

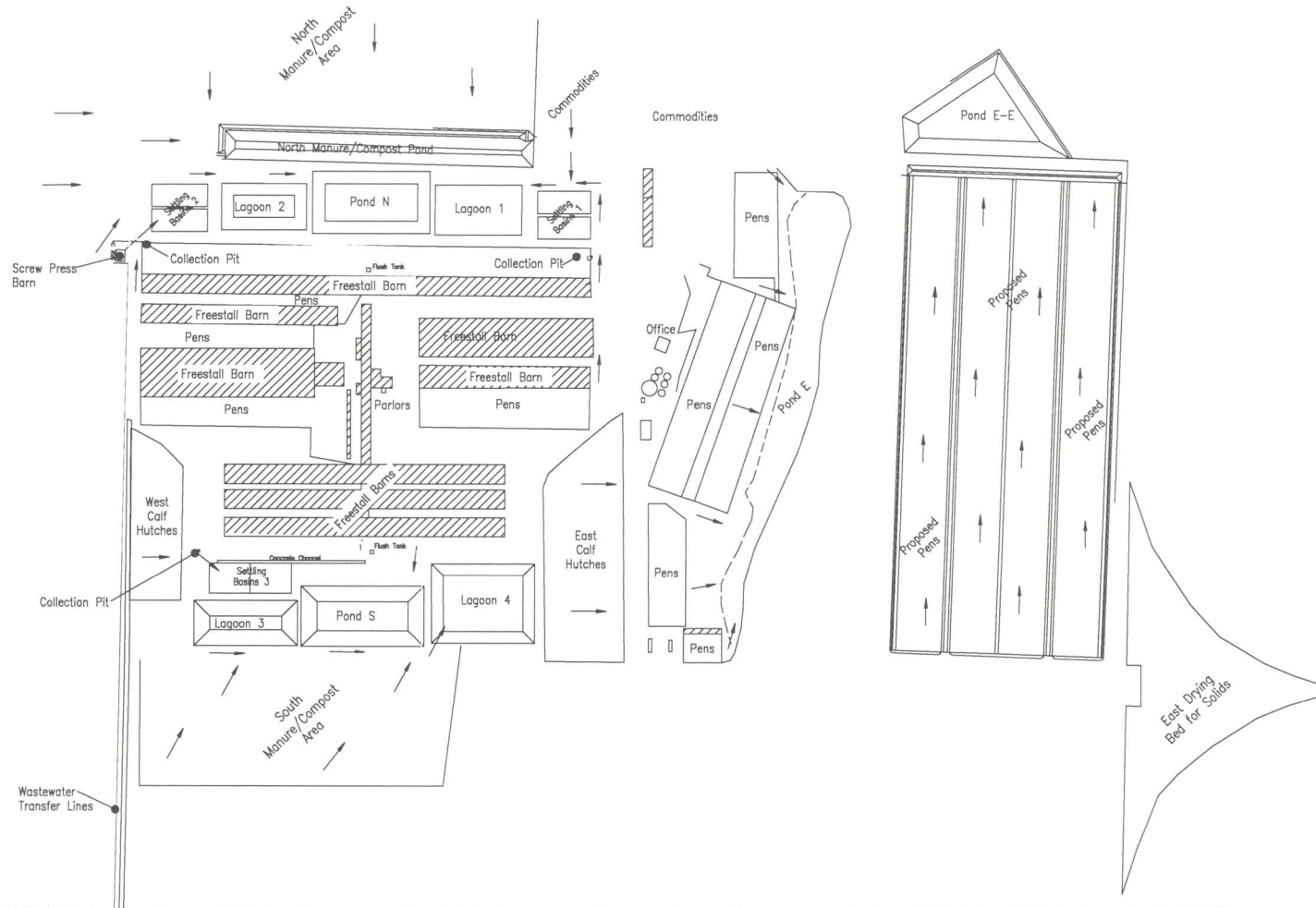
7. Total feed bunk space for cattle or livestock is \_\_\_\_\_ linear feet.

8. Total size of stock pens for confinement area of cattle, hogs, etc. is \_\_\_\_\_ square feet.

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

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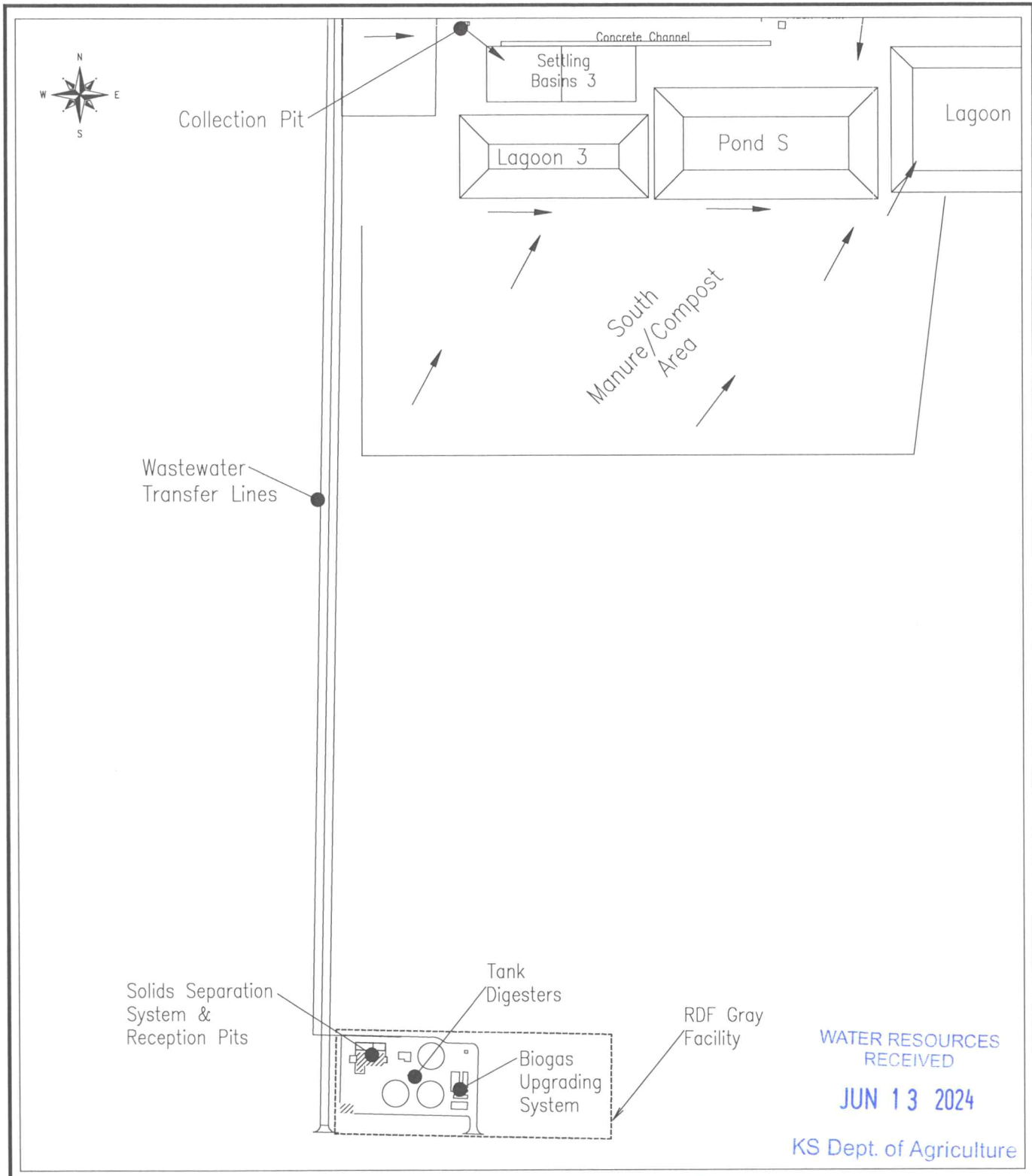
SCALE AS SHOWN

Spandet Dairy KS  
Cimarron, KS  
Gray County

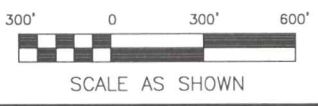
Proposed Site Map - Dairy  
Figure 2.4a



Enviro-Ag Engineering, Inc.  
ENGINEERING CONSULTANTS  
3404 Airway Boulevard  
AMARILLO, TEXAS 79118  
TEL (806) 353-6123 FAX (806) 353-4132



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Spandet Dairy  
 Cimarron, KS  
 Gray County

Proposed Site Map -  
 Manure Digester Facility  
 Figure 2.4b

**ENVIRO-AG**  
**EAE**  
 ENGINEERING, INC.

Enviro-Ag Engineering, Inc.  
 ENGINEERING CONSULTANTS  
 3404 Airway Boulevard  
 AMARILLO, TEXAS 79118  
 TEL (806) 353-6123 FAX (806) 353-4132



Corporate Office:  
3404 Airway Blvd.  
Amarillo TX 79118

Central Texas:  
9855 FM 847  
Dublin TX 76446

New Mexico:  
203 East Main Street  
Artesia NM 88210

June 12, 2024

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

Re: Application for Permit, Spandet Dairy, LLC and Hemink Farms, LTD in Gray County,  
KS

Dear Chief Engineer,

Attached is an application for a permit to appropriate water for beneficial use.

If you have any questions or require additional information, please give me a call at 806/350-5463 or email me at [mshoemaker@enviroag.com](mailto:mshoemaker@enviroag.com). On behalf of the dairy and farm, please call Lars Schilderink at 806/240-5852.

Sincerely,

*Marsha Shoemaker*

Marsha Shoemaker  
Enviro-Ag Engineering, Inc.

Enclosures

Cc: Spandet Dairy/Hemink Farms

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KS Dept. of Agriculture



1320 Research Park Drive  
Manhattan, KS 66502  
785-564-6700  
www. agriculture.ks.gov



900 SW Jackson, Room 456  
Topeka, KS 66612  
785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

June 21, 2024

HEMINK FARMS LTD  
2635 CR 521  
HART TX 79043

RE: Application, File No(s). **51252**

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application(s) for a permit to appropriate water for beneficial use. Your application(s) has been assigned the file number(s) referenced above. Please be aware that the Division may have a large number of pending applications on hand at times and makes every attempt to process them in the order in which they are received. You will be contacted if additional information is required.

Please note, this letter only acknowledges receipt of your application(s) and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation Act, the use of water as proposed prior to approval of the application(s) is unlawful.

Additional information about the process may be found on our website at [agriculture.ks.gov/divisions-programs/dwr](http://agriculture.ks.gov/divisions-programs/dwr). If you have any other questions, please contact our office at 785-564-6640 or your local Garden City Field Office at 620-276-2901. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kris Neuhauser  
New Applications Lead  
Water Appropriation Program