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.

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

DWR 1-120 (Revised 06/16/2014)

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



Assisted by:

4/17/2017 UM

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.

			Place of Use	W ATER RESOURCES RECEIVED	
	(Check one or more)	•	Point of Diversion	APR 1 4 2017	RECEIVED
			Use Made of Water	10:59	APR 12 2017
			File No. <u>11,511</u>	D2 KS DEPT OF AGRICULTURE	
2.	Name of applicant: Cim	narror	Crossing Feeders LLC		Garden City Fleto Office Division of Water Resources
	Address: PO Box 349				
	City, State and Zip: Cin	narroi	n, KS 67835		
	Phone Number: (620) 8	:		il address: philwoods25@hotmail.co	om
	-			enant agent other? If other,	please explain.
	Name of water use corr	respor	ndent: Cimarron Crossing Fee	eders LLC	
	Name of water use corr Address: PO Box 349	respoi	ndent: Cimarron Crossing Fee	eders LLC	
				eders LLC	
	Address: PO Box 349	narror	n, KS 67835	eders LLC il address: philwoods25@hotmail.co	om
3.	Address: PO Box 349 City, State and Zip: Cin Phone Number: (620) 8	narror 355-3	n, KS 67835 162 E-ma		
3.	Address: PO Box 349 City, State and Zip: Cin Phone Number: (620) 8 The change(s) propose	narror 355-3	n, KS 67835 162 E-ma ein are desired for the following	il address: philwoods25@hotmail.co	olete a partial change in
3.	Address: PO Box 349 City, State and Zip: Cin Phone Number: (620) 8 The change(s) propose use made of water from	narror 855-3 ed here m irriç	n, KS 67835 162 E-ma ein are desired for the following to property.	il address: philwoods25@hotmail.co g reasons (please be specific): <u>Com</u> p	olete a partial change in ne Cimarron Crossing
3.	Address: PO Box 349 City, State and Zip: Cin Phone Number: (620) 8 The change(s) propose use made of water fro Feeders LLC beef catt capacity. An additional	narrored here mirrique le fee	n, KS 67835 162 E-ma ein are desired for the following gation to stockwatering to pro- eding facility. This change wing the supply the requested sto	il address: philwoods25@hotmail.co g reasons (please be specific): Comp wide a sufficient water supply for th Il also allow the facility to expand to ockwater quantity.	olete a partial change in ne Cimarron Crossing
3.	Address: PO Box 349 City, State and Zip: Cin Phone Number: (620) 8 The change(s) propose use made of water fro Feeders LLC beef catt capacity. An additional	narrored here mirrique le fee	n, KS 67835 162 E-ma ein are desired for the following gation to stockwatering to pro- eding facility. This change wi	il address: philwoods25@hotmail.co g reasons (please be specific): Comp vide a sufficient water supply for th Il also allow the facility to expand to ockwater quantity. of application.	olete a partial change in ne Cimarron Crossing
3.	Address: PO Box 349 City, State and Zip: Cin Phone Number: (620) 8 The change(s) propose use made of water fro Feeders LLC beef catt capacity. An additional	narrored here mirrique le fee	n, KS 67835 162 E-ma ein are desired for the following gation to stockwatering to pro- eding facility. This change wing the supply the requested sto	il address: philwoods25@hotmail.co g reasons (please be specific): Comp wide a sufficient water supply for th Il also allow the facility to expand to ockwater quantity.	olete a partial change in ne Cimarron Crossing
- -	Address: PO Box 349 City, State and Zip: Cin Phone Number: (620) 8 The change(s) propose use made of water fro Feeders LLC beef catt capacity. An additional The change(s) (was) (was)	narron 355-3 ed here m irrig tle fee al well vill be)	n, KS 67835 162 E-ma ein are desired for the following gation to stockwatering to pro- eding facility. This change wi will supply the requested sto- completed by-upon approval	il address: philwoods25@hotmail.co g reasons (please be specific): Comp vide a sufficient water supply for th Il also allow the facility to expand to ockwater quantity. of application.	olete a partial change in ne Cimarron Crossing

4. The presently authorized place of use is:

Owner of Land — NAME: Cimarron Crossing Feeders LLC

ADDRESS: PO Box 349, Cimarron, KS 67835

				NE	Ξ1/4		NW¼		SW¼			SE¼				TOTAL			
Sec.	Twp.	Range	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	ACRES
32	25S	28W	40	40	40	40									30			25	215
33	25S	28W									40	40	40	26	37	39	24	15	261

List any other water rights that cover this place of use.

Owner of Land — NAME: _____

ADDRESS:

		NE¼				NW¼			SW¼			SE¼				TOTAL			
Sec.	Twp.	Range	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	ACRES
												:							
										2									
				<u> </u>															

List any other water rights that cover this place of use.

(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: Cimarron Crossing Feeders LLC

ADDRESS: PO Box 349, Cimarron, KS 67835

•					NE	Ξ1/4			NW¼			SW¼				SE¼				TOTAL
	Sec.	Twp.	Range	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE1/4	NW¼	SW¼	SE¼	ACRES
IRR	32	25S	28W	40	40	40	40									30			25	215
IRR	33	25S	28W									40	40	40	26	37	39	24	15	261
STK	4	26S	28W			Х	Х			Х	Х	X	Х	Х	Х	X	Х	Х	Х	Feedlot

List any other water rights that cover this place of use. GY 10 D1, 8,887, 19,925.08, 28,476 & 40,238 in S ½ N ½ & S ½ Sec. 4

Owner of Land — NAME: Cimarron Crossing Feeders LLC

ADDRESS: PO Box 349, Cimarron, KS 67835

•					NE	Ξ1/4			NV	V¼			SV	V¼			SE	Ξ1⁄4		TOTAL
_	Sec.	Twp.	Range	NE¼	NW¼	SW¼	SE¼	NE¼	NW½	SW¼	SE¼	NE1/4	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	ACRES
STK	10	26S	28W					Х	Х	Х	Х									Feedlot
-																				
_																				
ı								ļ												

List any other water rights that cover this place of use. GY 10 D1, 8,887, 18/925 08 ES 47.025 40,238 in NW 1/4 Sec. 10

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

APR 12 2017

6.	The presently authorized point(s) of diversion (is) (are)	1 active and 1	inactive well, pumps an	d appurtenances	,
				(Provide description and num	ber of points)	· · ·
7.	The proposed point(s) of diversion	on (is) (<u>are)</u> <u>2 active w</u>	ells, pumps and	d appurtenances (Provide description and num	har of points)	······································
				(Provide description and hum	ber or points)	
	List all presently authorized pe					
8.	Presently authorized point of	diversion:	0.44		A LPP	
	One in theNVV	Quarter of the	SW	Quarter of the	NE 2014	Quarter
	of Section32	, Township	25	South, Range	28W	(E/W),
	One in the NW of Section 32 in Gray Cou	ınty, Kansas, <u>3481</u>	feet North _	2532 feet West of	Southeast corner	of section.
	Authorized Rate 740 gpm	Authorized Quantity	/	<u></u>		
	(DWR use only: Computer ID	No. <u>4</u> G	PS	feet North	feet Wes	t)
	☐ This point will not be chang	jed 🔳 This point w	ill be changed	as follows:		
	Proposed point of diversion: (Complete only if char	nge is requeste	<u>ed)</u>		
	One in the NW of Section 32	Quarter of the	SW	Quarter of the	NE	Quarter
	of Section 32	, Township	25	South, Range <u>2</u>	8W	(E/W),
	in Gray Cou	inty, Kansas, <u>3481</u>	feet North _	2532 feet West of \$	Southeast corner	of section.
	Proposed Rate 540 gpm					
	This point is: Additional Well	☐ Geo Center List	other water righ	nts that will use this point	File No. 31,342	
9.	Presently authorized point of o					j
	One in the					
	of Section					
	in Cou				Southeast corner of	of section.
	Authorized Rate	_ Authorized Quantity	/			
	(DWR use only: Computer ID	No G	PS	feet North	feet West	t)
	☐ This point will not be chang	jed 🔲 This point w	ill be changed	as follows:	•	
	Proposed point of diversion: (Complete only if char	<u>nge is requeste</u>	<u>ed)</u>		
	One in the CW of Section 32 in Gray Cou	Quarter of the	NW	Quarter of the	SE	Quarter
	of Section32	, Township	25	South, Range	28W	(E/W),
	in Gray Cou	nty, Kansas, <u>1940</u>	feet North _	feet West of S	Southeast corner of	of section.
	Proposed Rate 200 gpm	Proposed Quantity	200 AF			
	This point is: <a>• Additional Well	☐ Geo Center List	other water righ	ts that will use this point		
10.	Presently authorized point of o					
	One in the	Quarter of the				Quarter
				Quarter of the		
	of Section	, Township		South, Range		(E/W),
	in Cou	, Township nty, Kansas,	feet North	South, Range feet West of S		(E/W),
	in Cou	, Township nty, Kansas, Authorized Quantity	feet North	South, Range feet West of S	Southeast corner of	(E/W), of section.
	in Cou Authorized Rate (DWR use only: Computer ID	, Township nty, Kansas, Authorized Quantity No G	feet North r PS	South, Range feet West of S feet North	Southeast corner of	(E/W), of section.
	in Cou	, Township nty, Kansas, Authorized Quantity No G	feet North r PS	South, Range feet West of S feet North	Southeast corner of	(E/W), of section.
	in Cou Authorized Rate (DWR use only: Computer ID	, Township nty, Kansas, Authorized Quantity No G led	feet North PS ill be changed	South, Range feet West of Sfeet North as follows:	Southeast corner of	(E/W), of section.
	in Cou Authorized Rate (DWR use only: Computer ID This point will not be chang Proposed point of diversion: (One in the	, Township nty, Kansas, _ Authorized Quantity No G led	feet North PS ill be changed ange is requeste	South, Range feet West of Sfeet North as follows: d) Quarter of the	Southeast corner of	(E/W), of section.
	in Cou Authorized Rate (DWR use only: Computer ID This point will not be chang Proposed point of diversion: (One in the	, Township nty, Kansas, _ Authorized Quantity No G led	feet North PS ill be changed ange is requeste	South, Range feet West of Sfeet North as follows: d) Quarter of the	Southeast corner of	(E/W), of section.
	in Cou Authorized Rate (DWR use only: Computer ID This point will not be changed point of diversion: (4)	, Township nty, Kansas, _ Authorized Quantity No G led	feet North / PS ill be changed ange is requeste	South, Range feet West of Sfeet North as follows: d) Quarter of the South, Range	Southeast corner of feet West	(E/W), of section. (E) Quarter (E/W),
	Authorized Rate (DWR use only: Computer ID This point will not be change Proposed point of diversion: (One in the of Section	nty, Kansas,, Authorized Quantity No G Jed This point wi Complete only if char Quarter of the nty, Kansas,	feet North PS ill be changed ange is requeste feet North	South, Range feet West of Sfeet North as follows: d) Quarter of the South, Range feet West of S	Southeast corner of feet West	(E/W), of section. (E) Quarter (E/W),
	in Cou Authorized Rate (DWR use only: Computer ID This point will not be chang Proposed point of diversion: (One in the of Section in Cou	nty, Kansas,, Authorized Quantity No G I This point with Complete only if char Quarter of the, Township, nty, Kansas,, Proposed Quantity	feet North PS ill be changed ange is requeste feet North	South, Range feet West of S feet North as follows: d)	Southeast corner of feet West	(E/W), of section. Quarter (E/W), of section.
14	in Cou Authorized Rate	nty, Kansas,, Authorized Quantity No G Jed This point with Complete only if char Quarter of the , Township nty, Kansas, Proposed Quantity Geo Center List	feet North PS ill be changed ange is requeste feet North other water right	South, Range feet West of S feet North as follows: d)	feet West	(E/W), of section. Quarter (E/W), of section.
11.	Authorized Rate (DWR use only: Computer ID III This point will not be change Proposed point of diversion: (III One in the of Section in Cou Proposed Rate	nty, Kansas,, Authorized Quantity No G Jed This point with Complete only if char Quarter of the , Township nty, Kansas, Proposed Quantity Geo Center List	feet North PS ill be changed ange is requeste feet North other water right	South, Range feet West of S feet North as follows: d)	feet West	(E/W), of section. Quarter (E/W), of section.

WATER RESOURCES

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHOETS AS NECESSARY

APR 1 2 2017

			File	No. 11,511 D2
12	The presently authorized use of water is for	irrigation	purposes.	
12.	It is proposed that the use be changed to	irrigation and stockwat	roring	rposes.
13.	If changing the place of use and/or use made of Refer to the consumptive use evaluation inc		•	
	consumptive use evaluation indicate that co	nsumptive use will not be	substantially increased	. This finding complies
	with the requirements of K.A.R. 5-5-3, 5-5-8	and 5-5-9.		
	(Please show any calculations here.)			
14.	It is requested that the maximum annual quant	tity of water be reduced to _	472.8 acre-feet (a	cre-feet or million gallons).
15.	It is requested that the maximum rate of divers	sion of water be reduced to	gallon	s per minute (c.f.s.).
16.	The application must include either a topograph 1:24,000, is available through the Kansas G Kansas 66047-3726 (www.usgs.gov). The modern Distances North and West of the Southeast of should also be shown. Identify the center of the section, township, and range numbers on the results.	eological Survey, 1930 Co ap should show the location corner of the section must the section, the section lines	onstant Avenue, Universion of the presently authors be shown. The presents and the section corners	sity of Kansas, Lawrence, rized point(s) of diversion. ly authorized place of use and show the appropriate
	a. If a change in the location of the point(s) o	of diversion is proposed, sho	ow:	
	 The location of the proposed point(s) must be shown. Please be certain the Paragraph Nos. 9, 10 and 11 of the appropriate the proposed point (s). 	hat the information shown		
An	2) If the source of supply is groundward domestic wells, within ½ mile of the pmailing address of the property owner	proposed well or wells. Ide	ntify each well as to its	use and furnish name and
	 If the source of supply is surface wat and ½ mile upstream from your prope 		addresses of all landow	ner(s) ½ mile downstream
	 If a change in the place of use is desired certain that the information shown on the r 	d, show the proposed place map agrees with the inform	e of use by crosshatchin ation shown in Paragrapl	g on the map. Please be n No. 5 of the application.
17.	Attach documentation to show the change(s) local source of supply as to which the water riwell logs, test hole logs, and other information made below.	ight relates. This informati n as necessary information	on may include statement to show the above. Ad	nts, plats, geology reports, ditional comments may be
	Please refer to the letter, maps and supporti			RECEIVED
		WATER RE	RESOUR CES ECEIVED	<u> </u>
		APR	1 4 2017	APR 1 2 2017
		· · · · · · · · · · · · · · · · · · ·		Garden City Field Office
18.	If the proposed change(s) does not meet all apidentify the rules and regulations for which your request should be granted. Attach documenta will not prejudicially and unreasonably affect the basis for determining consumptive use a	pplicable rules and regulation request a waiver. State atton showing that granting the public interest.	the reason why a waiv the request will not impa	Division of Water Resources Appropriation Act, pleases er is needed and why the ir existing water rights and
	draft "Default Consumptive Use Factor by C			
	and K.A.R. 5-5-10 is requested if this informa			

File No.	11,511 D2

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

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

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

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

I declare that I am an owner of the currently authorized place of use 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 as specified in sections 14 and 15 of this application.	engineer to permanently reduce the quantity of water and/or rate of diversion
Dated at CIMORIDO	, Kansas, this 10th day of Poril, 2017.
Fantie Red 9	
Dovi Hilker-Ridge	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
State of Kansas County of Cray	LANA R. BRYANT Notary Public - State of Kansas My Appt. Expires 9-10-20
I hereby certify that the foregoing application was si	igned in my presence and sworn to before me this 124 day of
	Lana R. Busant Notary Public
My Commission Expires 91020	Notary Public

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	0
(2)	Application to change a point of diversion more than 300 feet	0
(3)	Application to change the place of use	0
(4)	Application to change the use made of the water	Ю

Make check payable to Kansas Department of Agriculture.

WATER RESOURCES RECEIVED RECEIVED

APR 1 4 2017

KS DEPT OF AGRICULTURE

APR **12** 2017

KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: CIMARRON CROSSING FEEDERS LLC

LOCATION: SECTIONS 4 & 10 T26S R28W, GRAY COUNTY, KANSAS

BY: <u>FCM</u> DATE: 3/17/2017 CHECKED BY: DLB

DATE: 3/17/2017

CONSUMPTIVE USE CALCULATION PERTAINING TO FILE NO. 11,511 D2 FOR PARTIAL CHANGE OF USE FROM IRRIGATION TO STOCKWATER

File No. 11,511 D2:

Authorized Quantity = 496 AF

Authorized Rate = 740 GPM

Proposed change in use made of water: Convert 200 AF and 200 GPM to stockwatering use

Apply consumptive use factor from "Default Consumptive Use Factor by County in Kansas" issued by DWR:
→ For Gray County, the factor = 10.7%

$$\rightarrow$$
 Consumptive Use = (496 AF) - (496 AF x 10.7%)
= (496 AF) x (1.00 - 0.107) =

Proportion of partial use based on proposed change = (Stockwater Use)/(Consumptive Use)

$$=\frac{200 \text{ AF}}{442.9 \text{ AF}} = 45\%$$

442.9 AF

 \rightarrow Remaining quantity for irrigation = (55%) x (496 AF) = 272.8 AF

Check reasonable use for stockwatering quantity (K.A.R. 5-3-22):

Current facility capacity =

22,500 head of beef cattle

Planned expansion capacity =

28,000 head of beef cattle

 \rightarrow Maximum Reasonable Use = (28,000 head) x (15 gallons/head/day) x (365 days/year) = 153.30 MGY = 470.5 AF

Facility Stockwater Summary:

File	Quantity
No.	(AF)
GY 10 D1	94.01
8,887	9.15
28,476(2)	53.12
28,476(4)	53.12
19,925.08	17.86
40,238	17.16
11,511 D2	200.00
Total	111 12

WATER RESOURCES RECEIVED RECEIVED

APR 1 4 2017

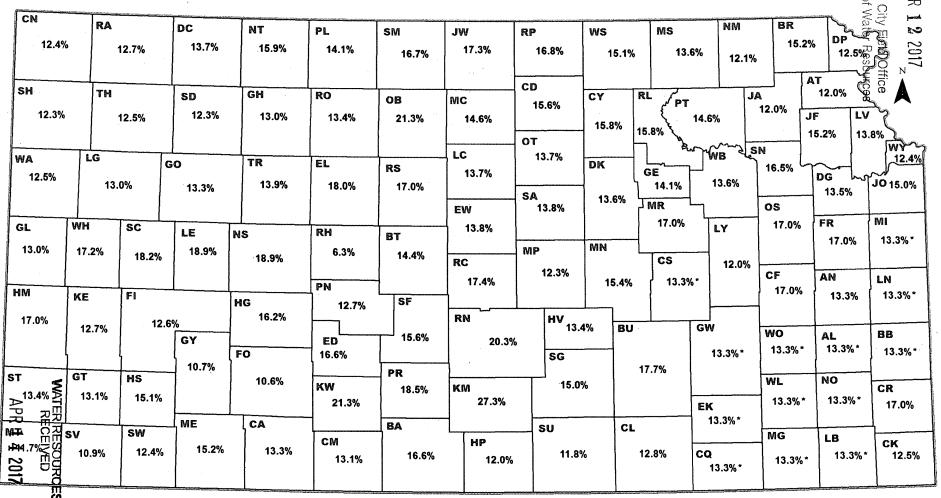
APR 12 2017

Garden City Field Office KS DEPT OF AGRICULTURE ivision of Water Resources

→ Requested stockwatering quantity is reasonable

Check requested rate for capacity to supply 200 AF:

Maximum quantity supplied = $(200 \text{ gpm}) \times (60 \text{ min/hr}) \times (24 \text{ hr/day}) \times (365 \text{ days/yr}) \times (1 \text{ AF/325,851 gal})$ = 322.6 AF \rightarrow 200 gpm rate is sufficient to supply the requested quantity



These default values were developed to ensure that a change in use made of water does not increase net consumptive use per K.A.R. 5-5-9.

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KDA-DWR will consider site-specific data provided by the water right holder during the change process and may adjust the consumptive use factor accordingly.

Example: A 150 acre-foot irrigation water right is purchased in Gove (GO) County for use in a dairy operation. Applying the default factor from the map (13.3%), the amount of water that the dairy could annually divert with this water right is:

150 - (150 X 13.3%) = 150 X (1 - 0.133) = 130 acre-feet

Model data was used for counties within GMDs 1, 3, 4 and 5.



Kansas Department of Agriculture Division of Water Resources December 14, 2016

^{*} State-wide average factor calculated using the Northwest Kansas model used for counties with no reported irrigation use.

KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: CIMARRON CROSSING FEEDERS LLC

LOCATION: SECTIONS 4 & 10 T26S R28W, GRAY COUNTY, KANSAS

BY: <u>FCM</u> DATE: 4/4/2017 CHECKED BY: DLB

DATE: 4/5/2017

JUSTIFICATION FOR IRRIGATED ACRES AND MAINTAINING CURRENT PLACE OF USE

Cimarron Crossing Feeders LLC must comply with KDHE regulations pertaining to confined animal feeding operations (CAFO). The regulations include implementation of an approved Nutrient Management Plan (NMP). The NMP prescribes the requirements for agronomic application of facility wastewater through irrigation systems owned by the facility. This includes the center pivot sprinklers that irrigate the place of use pertaining to File Nos. 11,511 D1 and 11,511 D2. The NMP also indicates the areas that must be available for wastewater application and this includes the entire place of use currently associated with File Nos. 11,511 D1 and 11,511 D2. It is therefore necessary to retain all of the acres associated with this place of use for NMP compliance, which relies on both groundwater and wastewater irrigation to manage nutrient levels in the fields where wastewater is applied. The total quantities of groundwater and wastewater available for irrigation are summarized as follows:

Wastewater quantity based on recent application records:

YEAR	WASTEWATER
TEAR	APPLICATION
2013	76 AF
2014	113 AF
2015	149 AF
2016	215 AF
AVERAGE	138 AF

AF = Acre-Feet

Water quantities available for irrigation:

File No. 11,511 D1 authorized quantity = 456.0 AF
File No. 11,511 D2 authorized quantity = 272.8 AF
Average annual wastewater quantity = 138.0 AF
Total Annual Quantity = 866.8 AF

Current place of use associated with File Nos. 11,511 D1 and 11,511 D2:

WATER RESOURCES RECEIVED

215 acres in Section 32 T25S R28W

APR 1 4 2017

215 acres in Section 32 T25S R28W
261 acres in Section 33 T25S R28W
476 acres total place of use

KS DEPT OF AGRICULTURE

 \rightarrow Average application = $\frac{\text{Total Annual Quantity}}{\text{Total Acres}}$ = $\frac{866.8 \text{ AF}}{476 \text{ ac.}}$ = 1.82 Ft.

RECEIVED

→ Groundwater only = $\frac{\text{Total Authorized Quantity}}{\text{Total Acres}}$ = $\frac{728.8 \text{ AF}}{476 \text{ ac.}}$ = 1.53 Ft.

APR **12** 2017

Garden City Field Office Division of Water Resources

Compare with criteria for reasonable irrigation use:

K.A.R. 5-5-11 (e) (2): > 50% Chance NIR/0.85 =

1.15 Ft./ 0.85 =

1.35 Ft.

(Gray County)

K.A.R. 5-3-24, Reasonable quantity for irrigation use (map):

1.8 Ft. (AF/ac.) (Gray County)

Therefore, a reasonable quantity for irrigation is provided and the acres associated with the current place of use can be justified.

KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: CIMARRON CROSSING FEEDERS LLC

LOCATION: SECTIONS 4 & 10 T26S R28W, GRAY COUNTY, KANSAS

BY: FCM

CHECKED BY: DLB

DATE: 3/16/2017

DATE: 3/17/2017

CONSUMPTIVE USE EVALUATION PERTAINING TO FILE NO. 11,511 OWNED BY CIMARRON CROSSING FEEDERS LLC

CRITERIA:

K.A.R. 5-5-3: Extent of consumptive use shall not be substantially increased based upon the perfection period.

K.A.R. 5-5-8: Consumptive Use = (Gross Diversion) - (Waste of Water) - (Return Flows)

Assumptions: → Waste of water during the perfection period cannot be accurately documented.

→ Current and proposed operation produces no discernible waste of water.

Therefore, for the purposes of this evaluation, Consumptive Use = (Gross Diversion) - (Return Flows)

Water Right File No. 11,511 attributes:

	POINT OF DIVERSION						AUTHORIZED	
Г	DWR ID	LOCATION FROM SE		SEC	TWP	DCE	QUANTITY	RATE
		CORNER C	F SECTION	SEC	IVVP	RGE	(AF)	(GPM)
	1	5080 FT N	100 FT W	32	25S	28W	456	740
Г	4	3481 FT N	2532 FT W	32	25S	28W	496	740
	2	1940 FT N	2620 FT W	32	25S	28W	NOT A	CTIVE

Consumptive use during perfection period based upon authorized quantities:

DWR records indicate that a surface (i.e. gravity or flood) irrigation system was used during the perfection period. Typical practices associated with this system include delivery pipelines and gated pipe, land leveling where needed, and tailwater pits.

From USDA NRCS NEH Part 652, Irrigation Guide, Table KS6-1, the typical efficiency of this type of system is **80%**.

The sum of the authorized quantities for File No. 11,511 is 456 AF + 496 AF = 952 AF.

 \rightarrow Consumptive Use = (Gross Diversion) - (Return Flows) where Return Flow = 100% - Efficiency = (952 AF) - [(100% - 80%) x (952 AF)] = **761.6 AF**

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Consumptive use resulting from proposed change application based upon authorized quantities:

The proposed changes are:

- \rightarrow Divide File No. 11,511 such that 11,511(1) = D1 and 11,511(4) = D2.
- → Reactivate 11,511 (2) as an additional well for stockwatering use.
- → Move 200 AF and 200 gpm from D2 to additional well [11,511(2)] for stockwatering authority.
- → Reduce irrigation quantity pertaining to File No. 11,511 D2 for consumptive use. Apply 10.7% consumptive use factor for Gray County from the draft weighted average irrigation return flow map ("Default Consumptive Use Factor by County in Kansas") issued by DWR. The resulting quantity is 272.8 AF.

File No. 11,511 D1 and D2 are currently center pivot sprinklers with drop nozzles (nozzles near the ground). From USDA NRCS NEH Part 652, Irrigation Guide, Table KS6-1, the typical efficiency of this type of system is **87%**.

Consumptive use from irrigation contributions includes irrigation based on authorized quantities as well as contributions from wastewater irrigation that is applied to the same place of use. The source of the wastewater is the Cimarron Crossing Feeders LLC facility. The peak wastewater quantity applied by the applicant is **215 AF** in 2016.

All wastewater is pumped from the Cimarron Crossing Feeders LLC facility to a storage pond located in the SW 1/4 of Section 33 T25S R28W. This pond is adjacent to the place of use for File No. 11,511. The wastewater stored in this pond is then pumped through the sprinklers that are also used for irrigation. The area of this pond is approximately **1.25 acres**. All seepage from this pond acts as a return flow. KLA Environmental Services, Inc. has conducted three whole-pond seepage tests on wastewater retention structures in the Cimarron Crossing Feeders LLC facility. The seepage rates were 0.0570 in./day, 0.1477 in./day and 0.2045 in./day. The average seepage rate is **0.1364 in./day**. All of these seepage rates comply with KDHE regulations and the average seepage rate is used to account for return flows from the irrigation storage pond. It is estimated that the pond contains wastewater at least **180 days** per year on average.

Consumptive use evaluation for proposed change application:

Gross Diversion:

File No. 11,511 D1 irrigation =	456.0 AF
File No. 11,511 D2 irrigation =	272.8 AF
File No. 11,511 stockwater =	200.0 AF
→ Total gross diversion =	928.8 AF

Return Flows:

→ Proposed change does not substantially increase consumptive use and complies with the requirements of K.A.R. 5-5-3. Therefore, the consumptive use factowards RECEIVED

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KS652.0605 State supplement - irrigation system design

(a) General information

This part contains additional technical information required for the design of the various types of irrigation systems. Section KS652.0605(b) addresses gravity irrigation systems. Section KS652.0605(c) addresses sprinkle irrigation systems. Section KS652.0605(d) addresses micro (drip) irrigation systems.

Table KS6-1 is provided for guidance in determining the recommended irrigation efficiency to use in the various system designs. The efficiencies shown are for the system efficiency. System efficiency considers all water losses beginning at the water source and ending at the soil surface or point of application. These values are appropriate for use in irrigation scheduling programs, which are addressed in Chapter 9, Irrigation Water Management. It does not consider impacts of irrigation management alternatives. Those issues are discussed in KS652.0505.

Table KS6-1 Typical Efficiency for Irrigation Systems

Irrigation System Type	Efficiency (%)
Surface Irrigation - Basic (Earthen conveyance ditch and siphon tubes or cutouts)	50
Surface Irrigation - Basic (Earthen conveyance ditch, siphon tubes or cutouts, land leveled)	60
Surface Irrigation - Basic (Earthen conveyance ditch, gated pipe, land leveled, tailwater reuse)	70
Surface Irrigation - Improved (Delivery pipeline, gated pipe)	70
Surface Irrigation - Improved (Delivery pipeline, gated pipe, land leveled)	75
Surface Irrigation - Improved (Tailwater reuse, land leveled, delivery pipeline, gated pipe)	80
Center Pivot 1/2/ and Linear Move - Sprinklers on top of pipe	80
Center Pivot ^{1/2/} and Linear Move - Nozzles below lateral but > 6 feet height above ground	85
Center Pivot 1/2/ and Linear Move - Nozzles near ground (in canopy)	87
Center Pivot and Linear Move - Low Energy Precision Application (LEPA)	92
Sprinkler - Solid set	75
Sprinkler Irrigation - Side roll	70
Subsurface Drip Irrigation (SDI)	92

^{1/} When the center pivot system includes an end gun, reduce the efficiency by 5%.

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When the center pivot system includes a corner system (sometimes referred to as a trailer section), reduce the efficiency by 3%.

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CIMARRON FEEDERS OF KANSAS, LLC P.O. BOX 349 CIMARRON, KANSAS 67835 KANSAS (KDHE) PERMIT A-UAGY-C001 FEDERAL (NPDES) PERMIT KS0037541

EVALUATION OF SEEPAGE RATE FROM RETENTION CONTROL STRUCTURE 1 LOCATED IN SECTION 4 AND 9 T26S R28W AND S 1/2 SECTION 33 T25S R28W GRAY COUNTY, KANSAS

SUMMARY

Water balance techniques were used to accurately measure seepage losses from a waste storage pond located at Cimarron Feeders of Kansas, LLC. Changes in the liquid level of the pond and evaporation were measured continuously for 2 nighttime periods ranging from February 3, 2015 to February 4, 2015 and from February 6, 2015 to February 7, 2015. No precipitation occurred and other inflows and outflows were precluded during this period. The average daily seepage rate of the pond was calculated. This seepage rate, which is summarized in Table 2, was 0.0570 in./d (1.448 mm/d).

SITE DESCRIPTION

A water balance study was conducted to measure the whole-pond seepage rate from a waste storage pond at Cimarron Feeders of Kansas, LLC This is a beef cattle feeding facility with a total permitted capacity of 22,500 animal units, and is located in Section 4 and 9 T26S R28W and S 1/2 Section 33 T25S R28W, Gray County, Kansas. This pond, identified as Retention Control Structure 1, is shown on the location map contained in the Appendix. Runoff, sediment and process wastes from the facility are stored in the pond for subsequent application on agricultural land.

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CIMARRON FEEDERS OF KANSAS, LLC P.O. BOX 349 CIMARRON, KANSAS 67835 KANSAS (KDHE) PERMIT A-UAGY-C001 FEDERAL (NPDES) PERMIT KS0037541

EVALUATION OF SEEPAGE RATE FROM RETENTION CONTROL STRUCTURE 2 LOCATED IN SECTION 4 AND 9 T26S R28W AND S 1/2 SECTION 33 T25S R28W GRAY COUNTY, KANSAS

SUMMARY

Water balance techniques were used to accurately measure seepage losses from a waste storage pond located at Cimarron Feeders of Kansas, LLC. Changes in the liquid level of the pond and evaporation were measured continuously for 2 nighttime periods ranging from November 12, 2014 to November 13, 2014 and from November 13, 2014 to November 14, 2014. No precipitation occurred and other inflows and outflows were precluded during this period. The average daily seepage rate of the pond was calculated. This seepage rate, which is summarized in Table 2, was 0.1477 in./d (3.752 mm/d).

SITE DESCRIPTION

A water balance study was conducted to measure the whole-pond seepage rate from a waste storage pond at Cimarron Feeders of Kansas, LLC This is a beef cattle feeding facility with a total permitted capacity of 22,500 animal units, and is located in Section 4 and 9 T26S R28W and S 1/2 Section 33 T25S R28W, Gray County, Kansas. This pond, identified as Retention Control Structure 2, is shown on the location map contained in the Appendix. Runoff, sediment and process wastes from the facility are stored in the pond for subsequent application on agricultural land.

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WATER RESOURCES RECEIVED

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CIMARRON FEEDERS OF KANSAS, LLC P.O. BOX 349 CIMARRON, KANSAS 67835 KANSAS (KDHE) PERMIT A-UAGY-C001 FEDERAL (NPDES) PERMIT KS0037541

EVALUATION OF SEEPAGE RATE FROM THE IRRIGATION RESERVOIR LOCATED IN SECTION 4 AND 9 T26S R28W AND S 1/2 SECTION 33 T25S R28W GRAY COUNTY, KANSAS

SUMMARY

Water balance techniques were used to accurately measure seepage losses from a waste storage pond located at Cimarron Feeders of Kansas, LLC. Changes in the liquid level of the pond and evaporation were measured continuously for 2 nighttime periods ranging from November 26, 2014 to November 27, 2014 and from November 27, 2014 to November 28, 2014. No precipitation occurred and other inflows and outflows were precluded during this period. The average daily seepage rate of the pond was calculated. This seepage rate, which is summarized in Table 2, was 0.2045 in./d (5.195 mm/d).

SITE DESCRIPTION

A water balance study was conducted to measure the whole-pond seepage rate from a waste storage pond at Cimarron Feeders of Kansas, LLC This is a beef cattle feeding facility with a total permitted capacity of 22,500 animal units, and is located in Section 4 and 9 T26S R28W and S 1/2 Section 33 T25S R28W, Gray County, Kansas. This pond, identified as the Irrigation Reservoir, is shown on the location map contained in the Appendix. Runoff, sediment and process wastes from the facility are stored in the pond for subsequent application on agricultural land.

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1320 Research Park Drive Manhattan, Kansas 66502 (785) 564-6700



900 SW Jackson, Room 456 Topeka, Kansas 66612 (785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

April 14, 2017

CIMARRON CROSSING FEEDERS, LLC PO BOX 349 CIMARRON, KS 67835

FILE COPY

RE: File No. 11511 D2

Dear Sir or Madam:

An application for approval of the Chief Engineer to change the following condition or conditions of the file number referred to above has been received:

☐ place of use PU/PD/UMW ☐ point of diversion ☐ use made of water

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. You will be contacted regarding this application as soon as it has been examined.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water prior to approval of the application is unlawful. You should not proceed and divert water as indicated by your plans in your application for a change for this file until you receive approval for this change from the Chief Engineer. 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) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

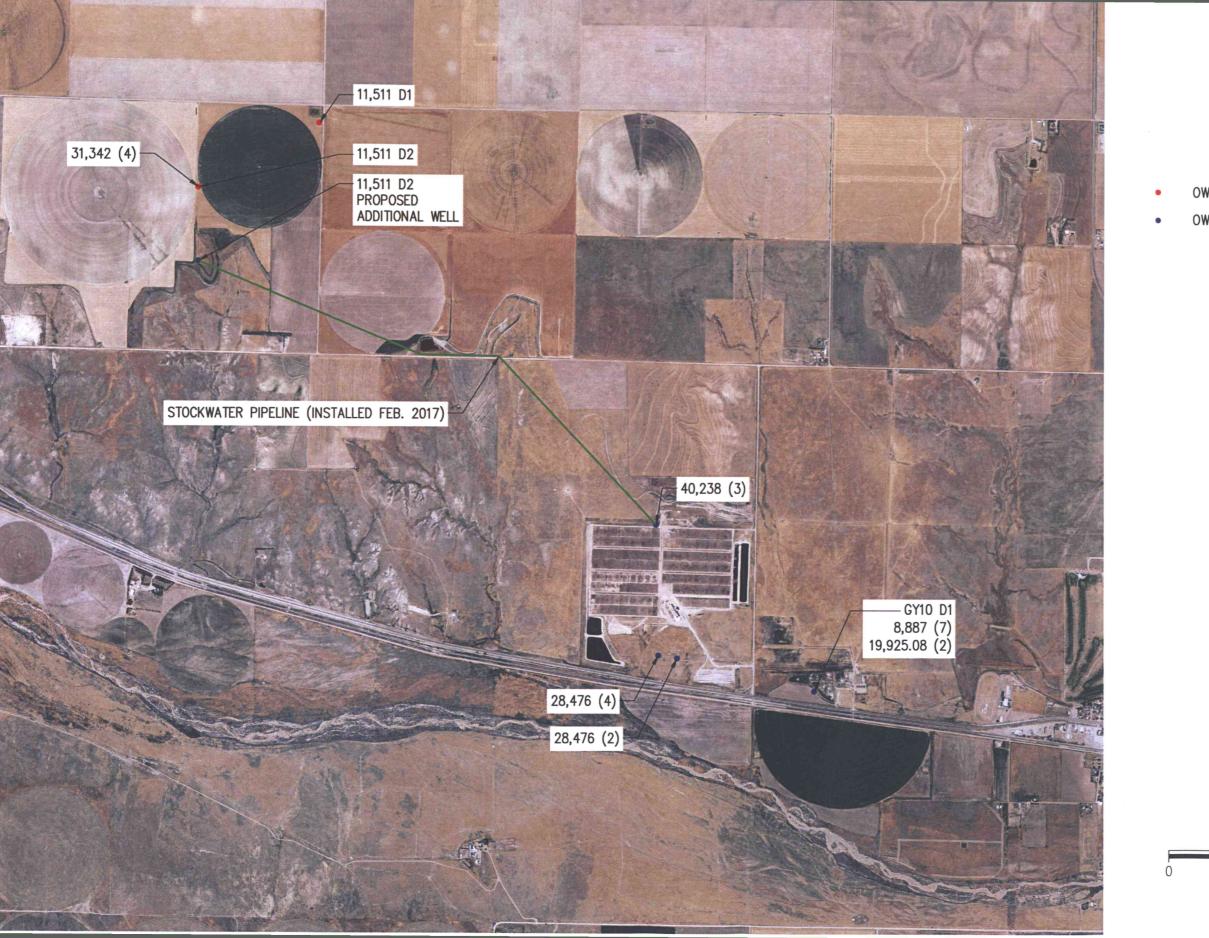
Brent A Turney, L.G.

Change Applications Unit Supervisor

Water Appropriation Program

BAT: DLW

pc: GARDEN CITY Field Office GMD 3



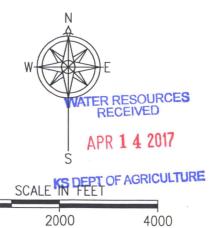
LEGEND

- OWNED POINT OF DIVERSION (IRR)
- OWNED POINT OF DIVERSION (STK)

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Garden City Field Office
Division of Water Resources



1700 E. IRON SALINA, KANSAS (785) 823-0097

CIMARRON CROSSING FEEDERS
SECTIONS 4&10 T26S R28W
GRAY COUNTY, KANSAS

DLB

FCM



CAD FILE NAME:



LEGEND

- OWNED POINT OF DIVERSION (IRR)
- OWNED POINT OF DIVERSION (STK)

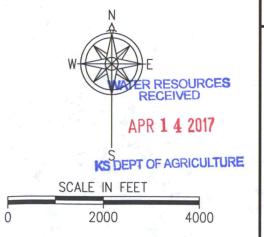
PLACE OF USE - IRRIGATION (CURRENT AND PROPOSED)

PLACE OF USE — STOCKWATER (PROPOSED)

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Garden City Field Office Division of Water Resources



CIMARRON CROSSING FEEDERS
SECTIONS 4&10 T26S R28W
GRAY COUNTY, KANSAS

DLB

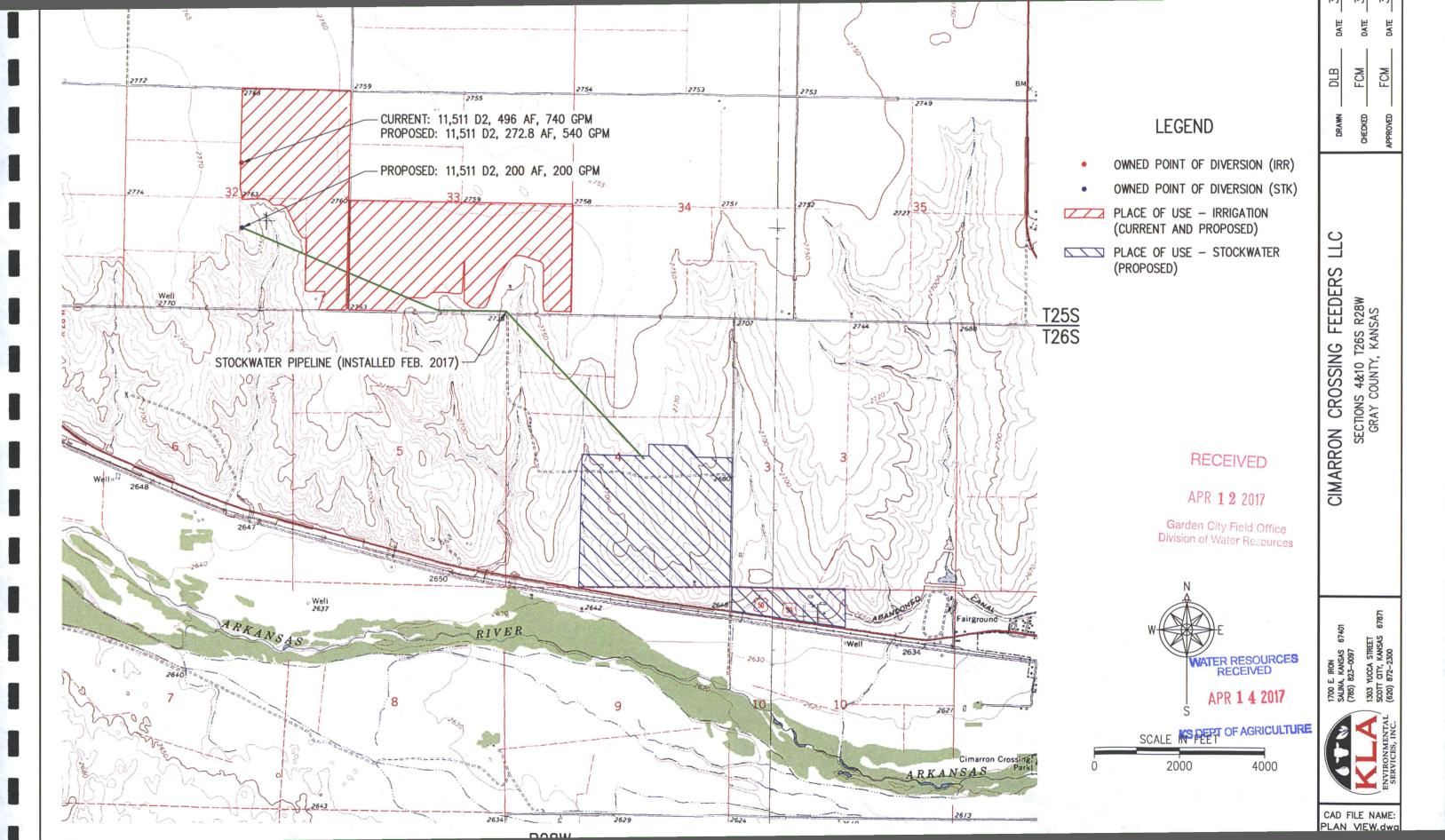
FCM

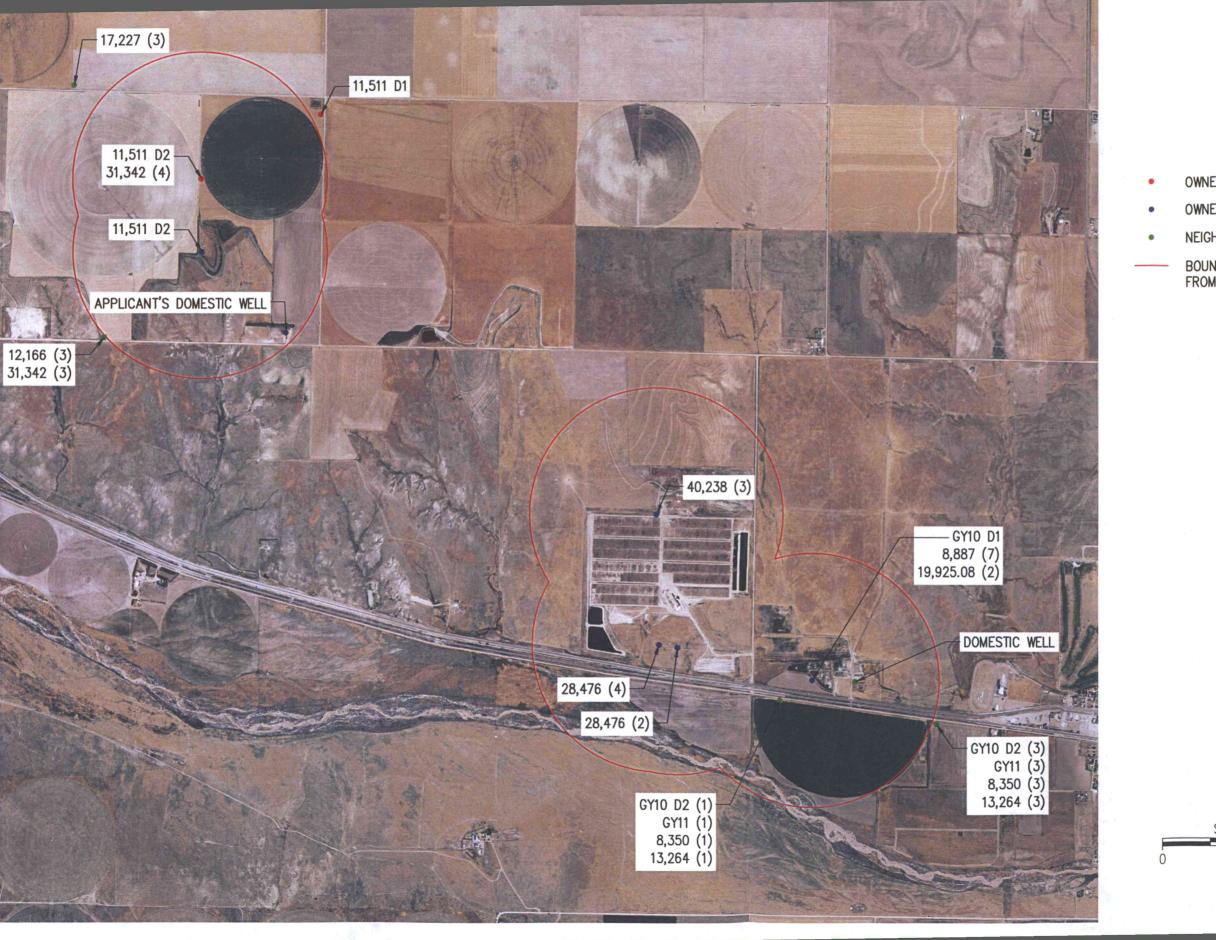
STREET

(785) 823—0097 (785) 823—0097 1303 YUCCA STREET



CAD FILE NAME: PLAN VIEW.dwg





LEGEND

- OWNED POINT OF DIVERSION (IRR)
- OWNED POINT OF DIVERSION (STK)
- NEIGHBORING POINT OF DIVERSION

BOUNDARY OF $\frac{1}{2}$ MILE SPACING FROM OWNED WELL

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2000

SCALE IN FEET 4000

CAD FILE NAME: PLAN VIFW.dwo

FCM

DLB

CIMARRON CROSSING FEEDERS

SECTIONS 4&10 T26S R28W GRAY COUNTY, KANSAS

