January 2018 – December 2020

Midwest Feeders, Inc.

Water Conservation Area Executive Summary

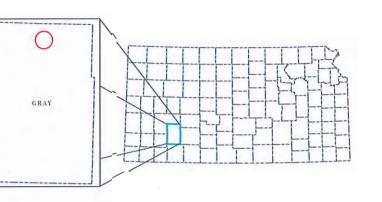
WCA Acres: 1,145 acres Number of STK Water Rights: 7 Number of STK Wells: 9 (with 3 Geocenters) Number of IRR Wells: 3 Number of IRR Water Rights: 4 Historical Period: 2012-2017 based on current operations and ownership **Prior Conservation:**

- •
- allowable rate for beef cattle)
- WCA Allocation:
- Total WCA allocation of 3,100.56 AF for period of WCA

Corrective Controls- Flexibilities requested exceeding base water right

- (total annual authorized quantity of all STK points of diversion)
- well/year)

*Additional corrective controls on Midwest Feeders, Inc. WCA Management Plan starting on page 6. Total water conserved over WCA period (based on historical use): 95,82 AF



 Past conversion of four IRR water rights to STK use; total reduced by 951.30 AF • Average reuse of wastewater from feedlot of 391.74 AF per year applied to irrigation fields Estimated additional recharge provided by wastewater is approximately 50.93 AF/Yr • Estimated average unit consumption rate of 8.72 gallons per head per day (58% of maximum

• STK- Held to total annual authorized quantity (746.10 AF x 3-yrs)

• IRR-10% conservation based on historical average use (287.42 AF x 3-Yrs)

• All STK wells, with exception of File No. 10,999, shall be limited to 746.10 AF/Yr • All STK wells will be held to current operating diversion rates listed in management plan o Operating diversion rates do not allow any STK well to exceed 746.10 AF/Yr • STK File No. 10.999 (ID-8 Geo) shall be limited to a total combined quantity of 267 AF/Yr • STK File No. 10,999 (ID-3 Geo) shall be limited to a total combined quantity of 241 AF/Yr • All Stockwater points of diversion cannot exceed a total annual aggregate use of 746.10 AF • Irrigation points of diversion cannot exceed annual authorized quantity (per

MANAGEMENT PLAN FOR WATER CONSERVA
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ORIGINALLY SUBMITT
REVISED AUGUST 7, 2018 BASED
TECHNICAL ASSIST Rural Resources Consulting, LLC 751 SE CR 36 Syracuse, KS 67878

OR THE DESIGNATION OF A ATION AREA (WCA)

FOR

EEDERS, INC.

JNTY, KANSAS

TED ON MARCH 2, 2018 ED ON DWR ANALYSIS AND REVIEW

STANCE PROVIDED BY

& KLA Environmental Services, Inc. 1303 Yucca St Scott City, KS 67871

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Management Plan for the Designation of a Water Conservation Area (WCA) for Midwest Feeders, Inc. Gray County, Kansas

Midwest Feeders, Inc. is an established part of the Gray County community and economy. Our staff consists of 52 full-time employees. We provide a local market for feed crops by purchasing 5,000,000 bushels of corn, 30,000 tons of corn silage, and 6,000 tons of alfalfa hay annually. Midwest Feeders, Inc. produces a value-added product that supplies the largest sector of the local and regional economy. We recognize that water is a primary resource and that both our economy and community are dependent upon our water supply. Midwest Feeders, Inc. has intensively managed water use for many years and has recorded one of the lowest beef cattle consumption rates in the region. We believe that we can continue to improve water management if appropriate tools are available to us. In order to reduce the rate of decline of groundwater levels in our region and extend the life of our water supply, we propose to establish a Water Conservation Area that encompasses the land and water rights associated with the Midwest Feeders, Inc. cattle feeding facility. The management plan for this Water Conservation Area is presented herein and shall form the basis of a Consent Agreement and Order Designating a Water Conservation Area pursuant to K.S.A. 82a-745 (WCA Law). The participating water right owner agrees to the terms and conditions contained in this proposed management plan.

Midwest Feeders, Inc. is the sole water right owner participating in the Midwest Feeders, Inc. Water Conservation Area. The primary goal of Midwest Feeders, Inc. is to sustain their business and community by conserving their groundwater resources. The facility is currently permitted for a capacity of 59,320 head of beef cattle. Expansion of the facility to a total capacity of 74,000 head of beef cattle is planned for completion in 2018. Flexibility is needed to allocate groundwater resources according to the seasonal demands of livestock consumption. The participants have concluded that the goals of conservation and flexible water resource allocation can be achieved by taking the following actions:

capacity of the facility.

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cattle weights.

MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN

Purpose

Expression of Conservation Goals

1. Establish base water rights that provide a sufficient quantity of water to support the total planned

2. Limit average unit consumption to a rate of 9 gallons per head per day during the term of the WCA. Annual unit consumption will vary based upon weather conditions, cattle numbers, and average

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- quantity of all the stockwater rights participating in the management plan.
- 4. Reduce irrigation use to augment conservation of the local aquifer.
- of this management plan.
- enough to indicate measurable results.
- revised as needed and continued for subsequent terms.

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The terms and conditions of the Midwest Feeders, Inc. Water Conservation Area shall be effective upon issuance of a Consent Agreement and Order Designating a Water Conservation Area (WCA Agreement) that is approved by all participating water right owners and the Chief Engineer of the Division of Water Resources. The proposed term of the WCA Agreement is three (3) years extending from January 1, 2018 through December 31, 2020.

Water Rights Enrolled and Geographical Boundaries

The Midwest Feeders, Inc. Water Conservation Area encompasses the cattle feeding facility located in Section 19 Township 24 South Range 28 West (T24S R28W) and Sections 24 and 25 Township 24 South Range 29 West (T24S R29W), all in Gray County. There are nine points of diversion (wells) associated with six water rights in this area that are devoted to stockwater use to supply the facility. Two other points of diversion associated with four water rights are located in Section 25 T24S R29W and are authorized for irrigation use. One point of diversion associated with File No. 22,121 located in Section 25 T24S R29W is authorized for both irrigation and stockwater use. These irrigation rights are an integral part of the facility's waste management system and Nutrient Management Plan.

Table 1 summarizes the water rights and points of diversion included in this Water Conservation Area.

3. Gain the flexibility needed to intensively manage the wells that supply the interconnected pressurized water system and the associated storage tanks. This will be accomplished by operating under a single quantity limitation that is equal to the total annual authorized aggregate

5. Implement advancements in water conservation technology that are compatible with the provisions

6. Participate for a period that is compatible with typical stocking and market fluctuations and long

7. Establish a process to evaluate the effectiveness of this management plan so that it may be

Term

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Table 1 - Water Rights and Points of Diversion Included in the Midwest Feeders, Inc. WCA

WATER	WELL	BENEFICIAL	AUTHORIZED	P/D DIST. FROM	P/D DIST. FROM SE SECTION CORNER					
RIGHT FILE NO.	IGHT ID IIEE*		QUANTITY (AF)	SEC-TWP-RGE	NORTH	WEST				
4,887	5	STK	5.00	24-24S-29W	990 FT	2630 FT				
22,122	5	STK	25.00	24-24S-29W	990 FT	2630 FT				
10,639	3*	STK	135.00	24-24S-29W	102 FT	2514 FT				
32,786	3*	STK	38.00	24-24S-29W	102 FT	2514 FT				
22,122	2	STK	124.00	24-24S-29W	2800 FT	100 FT				
10,639	7	STK	95.00	25-24S-29W	3667 FT	1248 FT				
32,787	7	STK	38.00	25-24S-29W	3667 FT	1248 FT				
10,999	3*	STK	174.40	19-24S-28W	175 FT	1550 FT				
10,999	8*	STK	174.10	19-24S-28W	2098 FT	1844 FT				
22,121	3	STK	112.00	25-24S-29W	2197 FT	1898 FT				
10,639	2	IRR	159.60	25-24S-29W	3440 FT	2525 FT				
22,122	2	IRR	52.00	25-24S-29W	3440 FT	2525 FT				
22,121	2	IRR	41.40	25-24S-29W	3440 FT	2525 FT				
22,121	3	IRR	112.10	25-24S-29W	2197 FT	1898 FT				
29,614	9	IRR	109.00	25-24S-29W	170 FT	4030 FT				

Legend:

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AF = acre-feet/year SEC-TWP-RGE = Section, Township and Range

STK = stockwater use IRR = irrigation use P/D = point of diversion * Geographical center of battery of wells

All the stockwater rights have a common place of use; that is, they are completely overlapped. Change applications will be filed by October 31, 2018 to add the SW ¼ Section 19 T24S R28W to the place of use. This additional area will cover the expansion that is in the process of being constructed. Completion is anticipated by March 2019. This management plan proposes to completely overlap all places of use so that water from any point of diversion authorized for stockwater use can be used anywhere within the WCAauthorized place of use. The geographical description of the WCA-authorized place of use is shown in Table 2. The geographic boundaries of the Midwest Feeders, Inc. Water Conservation Area are shown on the WATER CONSERVATION AREA PLACE OF USE MAP included in Appendix 1 of this management plan.

LEGAL DES	UCE		
FRACTION	SECTION-TOWNSHIP-RANGE	USE	
NE 1/4, NW 1/4, SW 1/4 & N 1/2 SE 1/4	19-24S-28W	STOCKWATER	
SE 1/4	24-24S-29W	STOCKWATER	
NE 1/4, E 1/2 NW 1/4 & NW 1/4 SE 1/4	25-24S-29W	STOCKWATER	

Table 2 - WCA-Authorized Place of Use for the Midwest Feeders, Inc. WCA

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Table 3 summarizes the totals of the authorized quantities associated with the water rights enrolled in this WCA. It also summarizes the total average annual water use for the period 2012 through 2017. Refer to Appendix 1 for a summary of water use history by water right. A conservation use level of 9 gallons per head per day and the planned capacity of the cattle feeding facility (74,000 head) were used to determine the basis for the quantity of permissible groundwater withdrawal. This level is slightly more than the historic rate of 8.72 gallons per head per day and provides a modest safety factor for unanticipated conditions. This quantity was then multiplied by three (3), which is the term of the WCA, to arrive at the total quantity of permissible groundwater use that is authorized by this WCA. A ten percent (10%) conservation factor was applied to the total average annual irrigation water use for the period 2012 through 2017. The reduced quantity was then used as the basis for the quantity of permissible groundwater withdrawal for irrigation use. This quantity was then multiplied by three (3), which is the term of the WCA, to arrive at the total quantity as then used as the basis for the quantity of permissible groundwater withdrawal for irrigation use. This quantity was then multiplied by three (3), which is the term of the WCA, to arrive at the total quantity of permissible groundwater withdrawal for irrigation use. This quantity was then multiplied by three (3), which is the term of the WCA, to arrive at the total quantity of permissible groundwater withdrawal for irrigation use. This quantity was then multiplied by three (3), which is the term of the WCA, to arrive at the total quantity of permissible groundwater withdrawal for irrigation use that is authorized by this WCA.

Table 3 – Summary of Water Use and Total Permissible Quantity of Withdrawal

	BENEFICIAL USE
	2012 - 2017 AVERAGE USE
	CURRENT AUTHORIZED QUANTITY*
	BASIS FOR PERMISSIBLE QUANTITY OF GROUNDWATER WITHDRAWAL
C	TOTAL PERMISSIBLE QUANTITY OF GROUNDWATER WITHDRAWAL (3 x BASI
*Officia	I average use is 443.87 AF; actual quantity w
	Findings Regarding
K.S.A.	82a-745 and K.S.A. 82a-1036(a) through (d)
presen	t within the area proposed as a Water Conse
1.	Groundwater levels in the area in question a
2.	The rate of withdrawal of groundwater in the such area;
	Preventable waste of water is occurring or r
3.	Unreasonable deterioration of the quality of
3. 4.	question.
4.	

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	STOCKWATER	IRRIGATION
	492.04 AF	319.36 AF
	746.10 AF	474.10 AF
OF	746.10 AF	287.42 AF
SIS)	2,238.30 AF	862.26 AF

was used to determine actual use in gallons/head/day.

g Groundwater Conditions

- d) require a finding that one of the following conditions be servation Area:
- are declining or have declined excessively;
- he area equals or exceeds the rate of recharge within
- may occur within the area in question; or
- of water is occurring or may occur within the area in

that the following conditions exist:

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Garden City Field Office DIVISION OF WATER RESOURCES

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- area.
- experienced a decrease in saturated thickness of 30 to 45 percent.

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Refer to Appendix 2 for detailed information documenting these conditions.

This information provides evidence that groundwater levels within this area have declined excessively and are continuing this trend. The loss of saturated thickness also implies that the rate of groundwater withdrawal is substantially greater than the rate of aquifer recharge. These conditions indicate a diminishing groundwater resource and justify the establishment of a Water Conservation Area in this region.

Due Consideration for Past Conservation

Midwest Feeders, Inc. has taken several actions that have reduced water use. Four of the six water rights that provide stockwater to the facility were originally perfected for irrigation use. Conversion from irrigation to stockwater use resulted in a substantial reduction in authorized quantity. These reductions are summarized in Table 4. File Nos. 10,639 and 22,122 include remaining portions of irrigation quantity as well as current stockwater quantities.

Table 4 – Reductions in Authorized Quantity Resulting from Changes in Use

WATER RIGHT FILE NO.	ORIGINAL AUTHORIZED QUANTITY (AF)	CURRENT AUTHORIZED QUANTITY (AF)	QUANTITY REDUCTION (AF)	QUANTITY REDUCTION (%)
4,887	281	5.00	276.00	98.2%
10,639	937	389.60	547.40	58.4%
10,999	302	174.10	127.90	42.4%
22,122	201	201.00	0.00	0.0%
TOTALS	1,721	769.70	951.30	55.3% RECEIVED

 Groundwater levels within T24S R28W and T24S R29W, Gray County, have declined excessively and continue to decline under the current levels of water use. The amount of decline has been documented by the Kansas Geological Survey and the Kansas Department of Agriculture, Division of Water Resources. Two water level observation wells are located in the vicinity of Midwest Feeders, Inc.: one in the NW ¼ of Section 28 T24S R28W and the other in the SE ¼ of Section 16 T24S R29W. The monitoring data indicate water level declines ranging from 25 to 50 feet in this

• The Kansas High Plains Aquifer Atlas published by the Kansas Geological Survey contains information concerning aquifer depletion. The Percent Change in Saturated Thickness, Predevelopment to Average 2015-2017, Kansas High Plains Aquifer map provides this information on a township basis. This map indicates that the area where Midwest Feeders, Inc. is located has

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The total reduction resulting from change in beneficial use from irrigation to stockwater represents 55.3 percent of the original authorized quantity. This is a substantial reduction that occurred prior to and during the period of historical use. Therefore, the voluntary change in use to stockwater resulted in a reduced level of use prior to the establishment of this WCA, especially when this use is compared to neighboring irrigation use.

Midwest Feeders, Inc. is required by state and Federal law to retain all wastewater and stormwater runoff generated within the facility. Most of this wastewater quantity is derived from surface runoff from pens, roofs and related structures. This additional source of water is ultimately used for irrigation on the land included in the facility's Nutrient Management Plan. The wastewater serves as a supplemental source of recharge to the aquifer. Records indicate an average annual application of 114.53 acre-feet of wastewater on land owned by Midwest Feeders, Inc. that is adjacent to the facility. The records also indicate that an average annual quantity of 277.21 acre-feet of wastewater is exported to neighboring users as a source of supplemental irrigation water. Refer to Appendix 3 for a summary of these records. The efficiency of the sprinkler irrigation systems used by Midwest Feeders, Inc. and neighboring irrigators is estimated to be 87 percent. This implies a potential recharge rate of 13 percent of the water applied by irrigation. Using this recharge rate, the average estimated additional recharge provided by wastewater irrigation is 50.93 acre-feet per year.

Evaluation of water use during the period of 2012 through 2017 indicates an average unit consumption rate of 8.72 gallons per head per day. This consumption rate is approximately 58 percent of the maximum allowable rate for beef cattle indicated in K.A.R. 5-3-22. This rate is also approximately 13 percent less than the average consumption rate of 10 gallons per head day for cattle feeding facilities in this region.

Due consideration for past conservation, including reduction in authorized quantity, supplement aquifer recharge, and reduced livestock consumption rates, provides justification for the conservation plan and associated corrective control provisions presented herein. *

Corrective Control Provisions and Plan for Conservation

The following corrective control provisions pertaining to the Midwest Feeders, Inc. Water Conservation Area will be in effect during the term of the WCA Agreement:

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1. The term of the WCA Agreement shall extend from January 1, 2018 through December 31, 2020.

2. File change in place of use applications in 2018 pertaining to all stockwater rights that will cover the WCA-authorized place of use, including the expansion area in the SW 1/4 Section 19 T24S R28W.

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- conservation use previously established by Midwest Feeders, Inc.
- WCA shall be limited to no more than 862.26 AF.
- shall be limited to a total rate of 380 gallons per minute (gpm) and 267 AF per year.
- shall be limited to a total rate of 150 gpm and 241 AF per year.
- following table:

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WATER RIGHT FILE NO.	DWR WELL ID	RATE LIMITATION (GPM)	FACILITY WELL ID
4,887 & 22,122	5	80	8
10,639 & 32,786	4	100	1
10,639 & 32,786	6	60	2
10,639 & 32,787	7	120	3
10,999	6	70	5
10,999	7	80	4
10,999	9	210	6
10,999	10	170	7
22,122	2	190	9
22,121	3	200	10

- year.
- 9. Water rights authorized for irrigation use will be considered as a group subject to an overall limited to its current authorized rate and annual quantity.

3. The total quantity of permissible groundwater withdrawal for stockwater use during the term of this WCA shall be limited to no more than 2,238.30 AF. This quantity is based on continuation of the

4. The total quantity of permissible groundwater withdrawal for irrigation use during the term of this

5. The north battery of wells associated with File No. 10,999 (ID 8) having a geographical center located at 2,098 feet north and 1,844 feet west of the southeast corner of Section 19 T24S R28W

6. The south battery of wells associated with File No. 10,999 (ID 3) having a geographical center located at 175 feet north and 1,550 feet west of the southeast corner of Section 19 T24S R28W

7. The rates of wells authorized for stockwater use shall be subject to the limitations indicated in the

8. Water rights may be pumped as directed by the owner. Water rights authorized for stockwater use will be considered as a group subject to an overall limitation of 746.10 acre-feet per year. Groundwater may be withdrawn from the wells authorized for stockwater use in any combination of

quantities as long as the total use from these wells does not exceed 746.10 acre-feet per calendar

limitation of 287.42 acre-feet per year. Each water right authorized for irrigation shall also be

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- wells included in this WCA.
- and Environment.
- feasible.
- forward through the term of the subsequent WCA Agreement until it is diverted.

Compliance Monitoring and Enforcement

Midwest Feeders, Inc. acknowledges the compliance monitoring and enforcement provisions stated herein. This includes any specific provisions relating to measuring or reporting water usage.

Monitoring

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Midwest Feeders, Inc. or an authorized representative thereof will submit an annual report for each calendar year included in the term of this WCA. The annual report for each calendar year shall be submitted to the Chief Engineer no later than March 1st of the following year. The report will include a record of the following information:

10. It is recognized that the overall stockwater limitation of 746.10 acre-feet per year may be exceeded when the facility is operated at full capacity during extended periods of hot, dry weather. A term permit will be filed to obtain authorization to exceed the overall limitation if such conditions occur. Additional quantity obtained through a term permit will be offset by reduced use of the irrigation

11. Midwest Feeders, Inc. with continue to provide supplemental recharge through wastewater irrigation on land adjacent to the facility and by export to neighboring users as a source of supplemental irrigation water. The distribution of the wastewater will be controlled by the provisions of the Nutrient Management Plan that is regulated by the Kansas Department of Health

12. Midwest Feeders, Inc. will install a water tank overflow recycling system in conjunction with the 2018 expansion project in the SW 1/4 of Section 19 T24S R28W. The performance of this system will be evaluated and this conservation technology will be extended to the rest of the facility if

13. A remainder quantity is defined as the accumulated portion of the total quantity of permissible groundwater withdrawal that is not used during the term of the WCA Agreement. Midwest Feeders, Inc. may elect to deposit the remainder quantity into a subsequent WCA Agreement that is governed by this management plan or revised versions thereof. Such a deposit shall be in addition to the total annual quantity of permissible groundwater withdrawal determined for the subsequent WCA Agreement. The credited portion of the remainder quantity may be carried

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- Agreement
- Quantity of water diverted by each point of diversion
- Total quantity of water diverted during the calendar year for stockwater and irrigation uses
- Annual unit rate of water use in gallons/head/day
- Unused portion of the total quantity of permissible groundwater withdrawal.

These records will be maintained in electronic and paper format. Copies will be made available to Kansas Department of Agriculture, Division of Water Resources staff upon request.

Water diverted from a well that supplies both irrigation and stockwater uses shall be metered in a manner that accurately quantifies each use. The metering or measurement system shall be reviewed and approved by the Water Commissioner of the Garden City Field Office of the Division of Water Resources.

Midwest Feeders, Inc. acknowledges that the measurement chambers of the water flow meters within this WCA will be sealed by Kansas Department of Agriculture, Division of Water Resources staff. These seals will remain in place for the duration of this management plan to ensure accurate water use records.

Midwest Feeders, Inc. agrees to install and maintain water flow meters and appurtenances that comply with the requirements of the Division of Water Resources and Southwest Kansas Groundwater Management District No. 3. Midwest Feeders, Inc. or an authorized designee who finds a flow meter that is inoperable or inaccurate shall notify the Garden City Field Office of the Division of Water Resources within 48 hours of discovery. Whenever an inoperable or inaccurate meter is repaired or replaced, Midwest Feeders, Inc. or an authorized designee shall notify the Garden City Field Office of the Division of Water Resources within seven (7) days on a form prescribed by the Chief Engineer of the water flow meter installation or any water flow meter repair or replacement event.

Enforcement

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Midwest Feeders, Inc. acknowledges that failure to abide by the terms of this agreement may result in the termination of the WCA. Failure to abide by the terms, conditions, and limitations of the individual water rights will be subject to the civil penalties outlined in K.A.R. 5-14-10 and 5-14-12.

The Midwest Feeders, Inc. WCA management plan will be evaluated annually by the participants. Revisions and amendments to the management plan will be developed as needed and submitted to the Chief Engineer for consideration. A formal review shall be conducted during the final year of the term to ensure that the provisions of this management plan are appropriate and are achieving the stated goals of the Midwest Feeders, Inc. WCA. This review shall be completed by the Chief Engineer in consultation with the participants by August 31, 2020. Information obtained from the observation wells located in the RECEIVED

Beginning and ending flow meter readings for each point of diversion included in the WCA

Review of Effectiveness

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NW ¼ of Section 28 T24S R28W and the SE ¼ of Section 16 T24S R29W will be considered in this review. If the Chief Engineer finds that this WCA has achieved its goals and that there are no legal or physical conditions that require it to be altered or terminated, then the Midwest Feeders, Inc. WCA may be continued upon request of the participants. The management plan may be revised based upon the findings of the Chief Engineer and with the concurrence of all participating parties. The annual report for the last year in the term of this WCA shall indicate the total water use during the WCA period.

Participant Addition, Withdrawal, and Removal

Midwest Feeders, Inc. acknowledges that water right owners and their associated water rights and geographic boundaries may be added to this WCA upon written notification to the Chief Engineer by the owners of each enrolling water right. Such notification shall include the legal descriptions of the areas to be added. A participant may withdraw from the WCA through written notification to the Chief Engineer that is signed by the owners of the participating water right or rights to be withdrawn from the WCA.

If the addition or withdrawal of water rights requires modification of the permissible quantities of groundwater withdrawal, geographical boundaries, places of use, terms, or conditions of the original WCA, then the management plan shall be revised to incorporate such changes and the associated consent agreements shall be reaffirmed by all parties, after opportunity for comment on the proposed revisions by Southwest Kansas Groundwater Management District No. 3.

The Chief Engineer shall reserve the right to remove any participant from the Midwest Feeders, Inc. WCA for repeated violations of their WCA Agreement and/or violations of state laws and regulations that pertain to water rights and legal use of water.

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The Midwest Feeders, Inc. WCA Agreement may be terminated by written notification submitted to the Chief Engineer. Such notification will state the intent to terminate, any applicable reasons for termination, and shall be signed by all currently participating members of the WCA.

The participants of the Midwest Feeders, Inc. WCA acknowledge that this WCA is subject to compliance with all other applicable state laws. The participants in conjunction with the Division of Water Resources will monitor any changes in Kansas laws that may impact this management plan or existing WCA Agreements.

Termination

State Law

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Notification to Nearby Owners

Midwest Feeders, Inc. acknowledges that the Chief Engineer is required by state law to provide written notification to all water right owners with a point of diversion within 1/2 mile of the boundaries of this WCA. The Chief Engineer may consider information submitted by nearby owners when evaluating the potential for impairment of neighboring water rights.

Assurances

None of the terms and conditions of this management plan or a WCA Agreement executed in accordance with this management plan shall result in any permanent change to the enrolled water rights.

Review of Other Applicable Requirements

The Midwest Feeders, Inc. WCA lies within the boundaries of Southwest Kansas Groundwater Management District No. 3. The rules and regulations pertaining to this groundwater management district (K.A.R. 5-23-1 through 5-23-15) were reviewed to determine if there were any provisions that would result in a greater level of water conservation than that contained in this management plan. No such provisions were identified.

There is currently no approved Local Enhanced Management Area (LEMA) within the boundaries of this WCA. The participants acknowledge that this WCA may be terminated if a LEMA is established that has more stringent requirements, after due consideration has been given to past conservation by the participants.

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By signing below, Midwest Feeders, Inc., the water right owner, agrees that this management plan is fair and equitable. This management plan, provided to the Chief Engineer and water right owner, is the expressed written intent of the parties and the whole agreement between the parties. Midwest Feeders, Inc., the water right owner, agrees to be bound by all the terms contained in this management plan and understands that the provisions of this agreement shall be construed to give effect to the provisions listed. Midwest Feeders, Inc., the water right owner, also agrees that this management plan is the basis for a consent agreement among the Chief Engineer and the undersigned water right owner, and therefore any order and consent agreement issued by the Chief Engineer, designating this WCA, shall be binding upon all parties as the necessary formal implementation of this management plan.

Participants' Agreement

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	MIDWEST FEEDERS, INC. W	ATER CO
	For the Participants: All participating we management plan and, if approved by the approve the designation of this Water Content and Order.	he Chief Eng
	Jeffrey H. Sternberger, Owner and Age Midwest Feeders, Inc.	nt
	ACKN	OWLEDGEI
	STATE OF <u>Kansas</u>) s COUNTY OF <u>Gray</u>)	S
()	On this <u>a</u> day of <u>Aug</u> Public, personally appeared <u>Jeffrey</u> person(s) whose name(s) is/are subs executed the same for the purposes the	H. Sternb scribed to th
	In Witness Whereof, I have he	ereunto set r
	NOTARY PUBLIC - State of Kansas ANGELA L. HALE My Appt. Exp. 2/25/2021	Motary Pu My Com
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DNSERVATION AREA MANAGEMENT PLAN

owners signing below, affirm their approval of this WCA ngineer, allow consent to the Chief Engineer to formally Area, described herein, by means of a Consent

MENT OF NOTARY

, 2018, before me, the undersigned Notary ined.

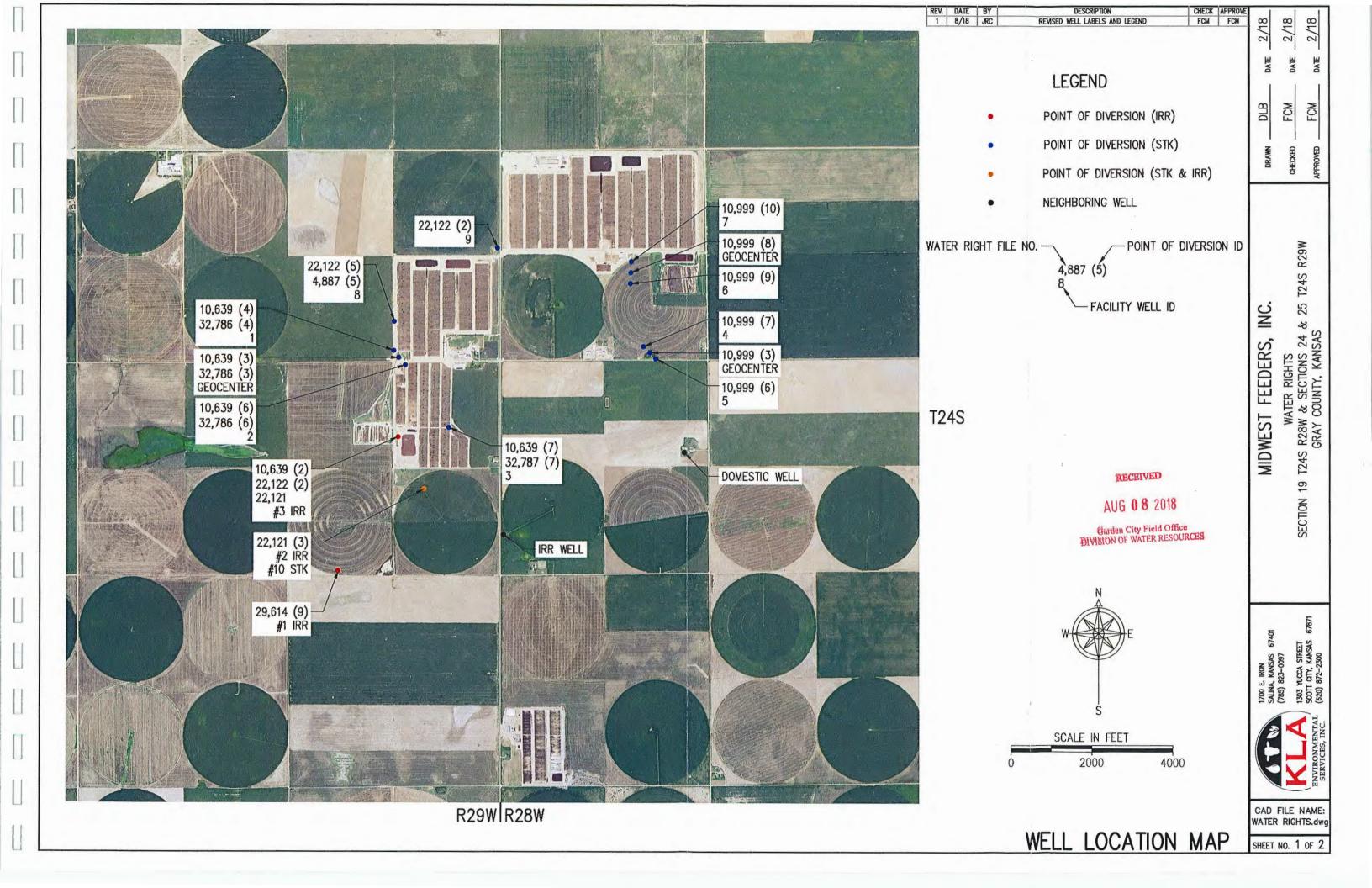
my hand and official seal.

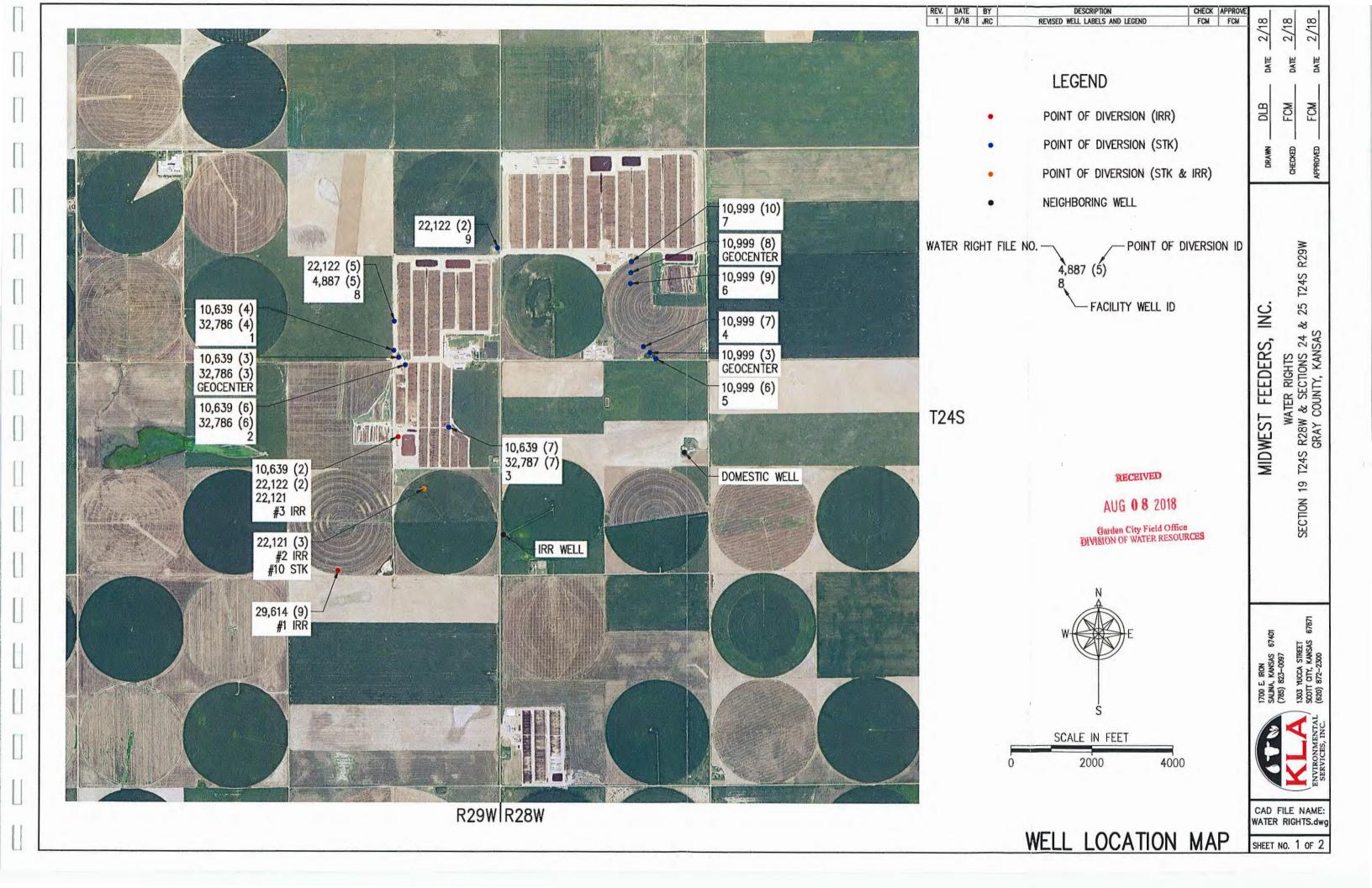
ela Z Hale Public Immission Expires 2/25/2021 d Name: Angela L. Hale

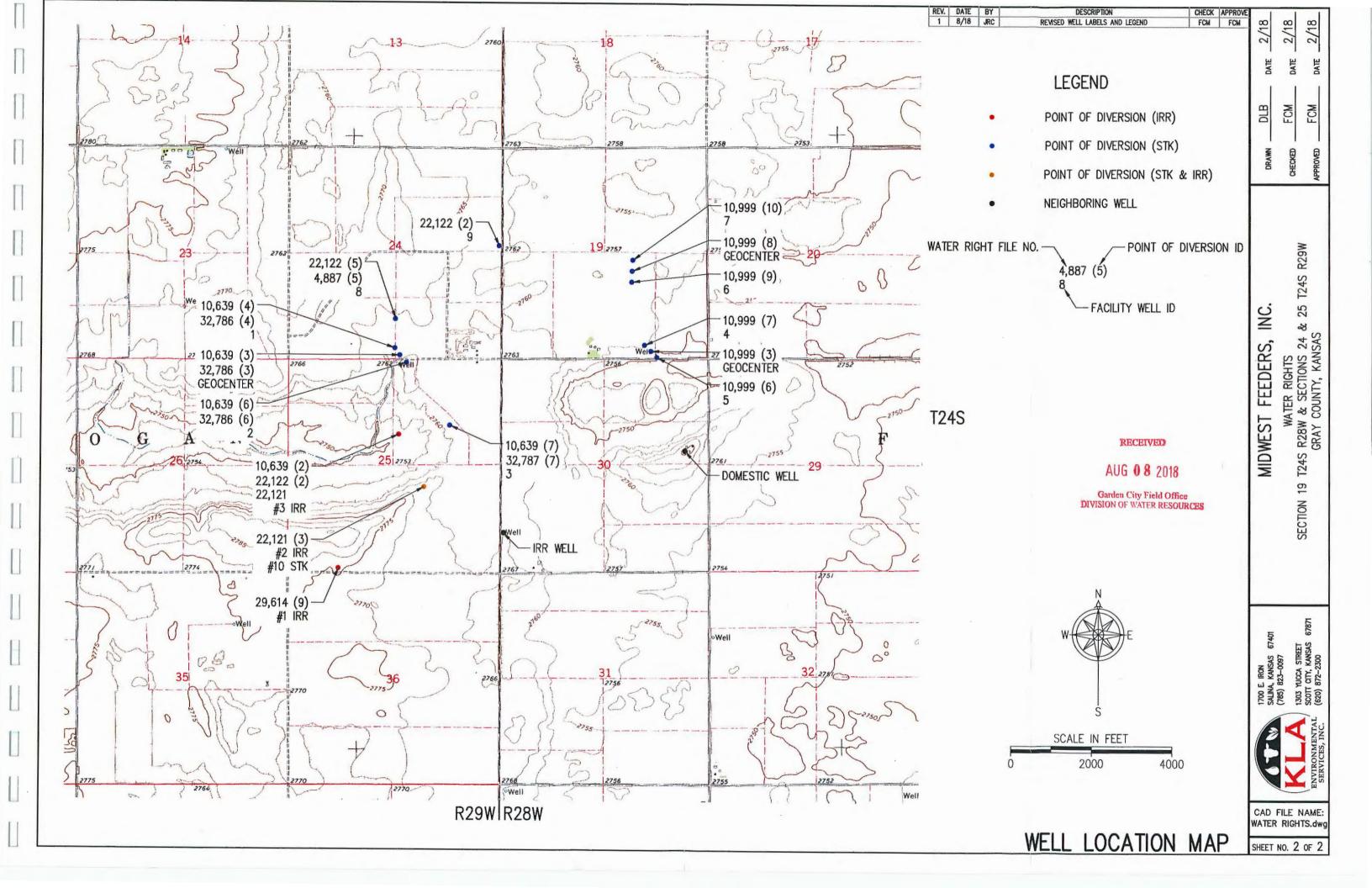
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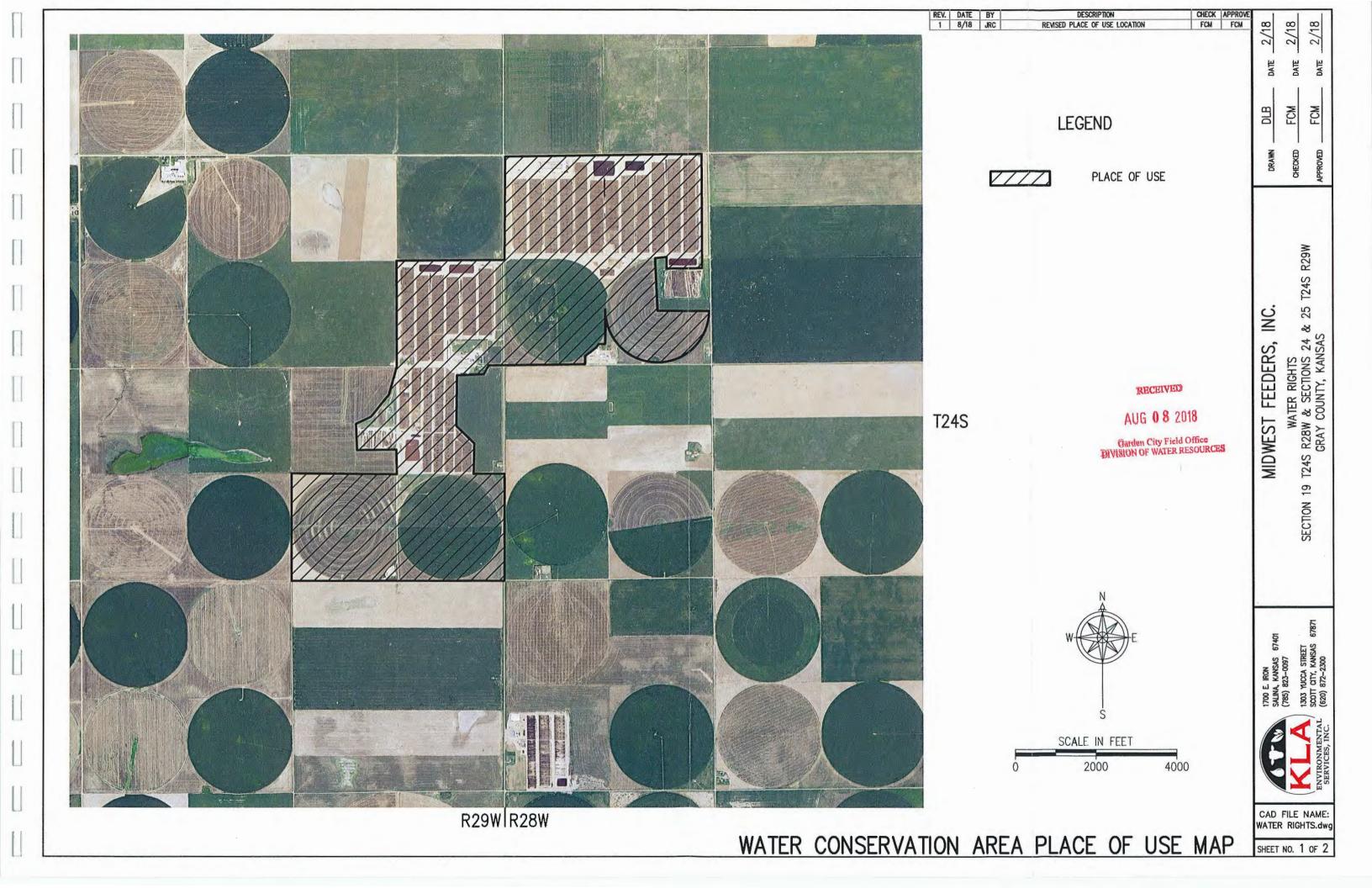
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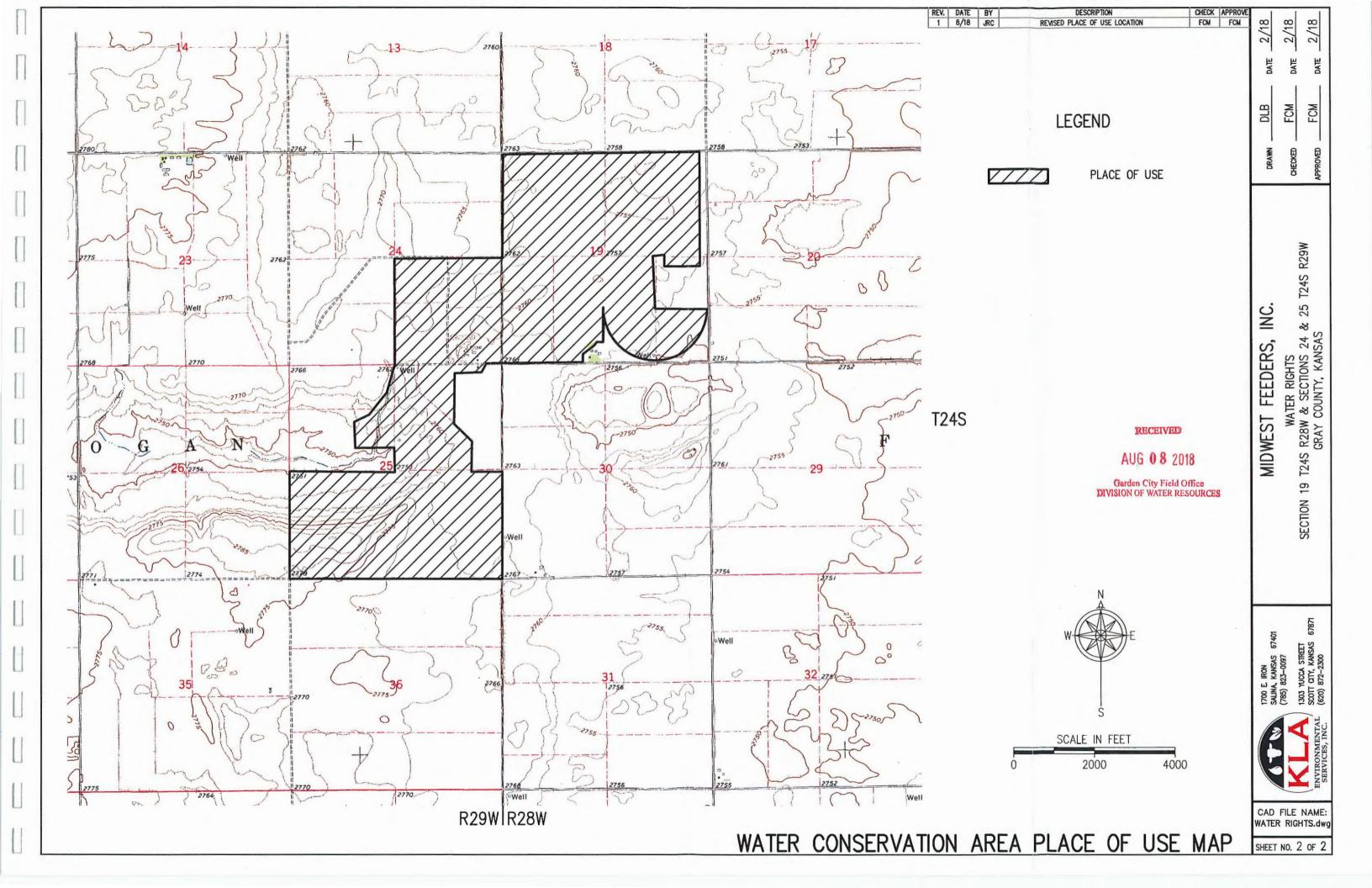
П MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN **[**] U 1-1 U **APPENDIX 1** 1 Maps Official DWR Summary U 0 1 U U U Π U H U U RECEIVED 11 AUG 08 2018 Garden City Field Office DIVISION OF WATER RESOURCES U











MIDWEST FEEDERS, INC. SUMMARY OF STOCKWATER USE FOR THE PERIOD 2012 - 2017

DWR Edited - Total Reported Water Use

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		ANNUAL WATER USE IN ACRE-FEET BY STOCKWATER FILE NO.												TOTAL		DATE	
YEAR	Term Permit	Term Permit	Term Permit	t Term Permit	Term Permit	4,887 (5)	10,639 (4)	10,639 (6)	10,369 (7)	10,999 (6)	10,999 (7)	10,999 (9)	10,999 (10)	22,122 (2)	ANNUAL	HEAD COUNT	RATE (GAL/HD/DAY)
	20129485 ¹	20129486 ²	20139067 ²	20139068 1	20179073 ³	& 22,122 (5)	& 32,786 (4)	& 32,786 (6)	& 32,787 (7)						USE	USE	(onembronn)
Auth Qty	80	80	100	150	224.098	5.002	13	4.970	94.982		174	.098		123.983			an Alexandra
Add Qty						25.011	3	8.000	38.000								
Fotal Auth	80	80	100	150	224.098	30.014	17	2.970	132.982	174.098		123.983	634.046	= Total Auth Quantity/Y			
2012	29.142	70.771	and the second	The second second		TP20129486	46.356	72.210	75.967	50.525	11.472	68.976	52.828	TP20129485	478.25	50,317	8.49
2013		a la factoria de la	103.029	136.739		TP20139067	11.454	61.132	87.795	2.648	1.948	49.354	85.370	TP20139068	539.47	50,673	9.50
2014	an spille					49.324	18.604	30.465	92.334	32.513	20.292	98.342	63.241	78.258	483.37	50,591	8.53
2015	Real Andrews	and the second sec	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			32.688	36.338	12.000	38.578	62.548	17.439	96.486	87.828	88.142	472.05	49,861	8.45
2016					Charles and Carlos	21.338	18.442	44.623	36.579	36.187	61.709	113.619	86.423	82.777	501.70	50,113	8.94
2017			No. and State		219.960	26.596	43.322	42.757	29.250		TP201	79073	and the second	115.544	477.43	50,719	8.40
PDIV#	35128	79489	79489	35128	35128	79489	62512	37771	487	62014	62015	62495	62496	35128	492.04	← Average →	8.72
UMW	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK			

¹ Associated with File No. 22,122

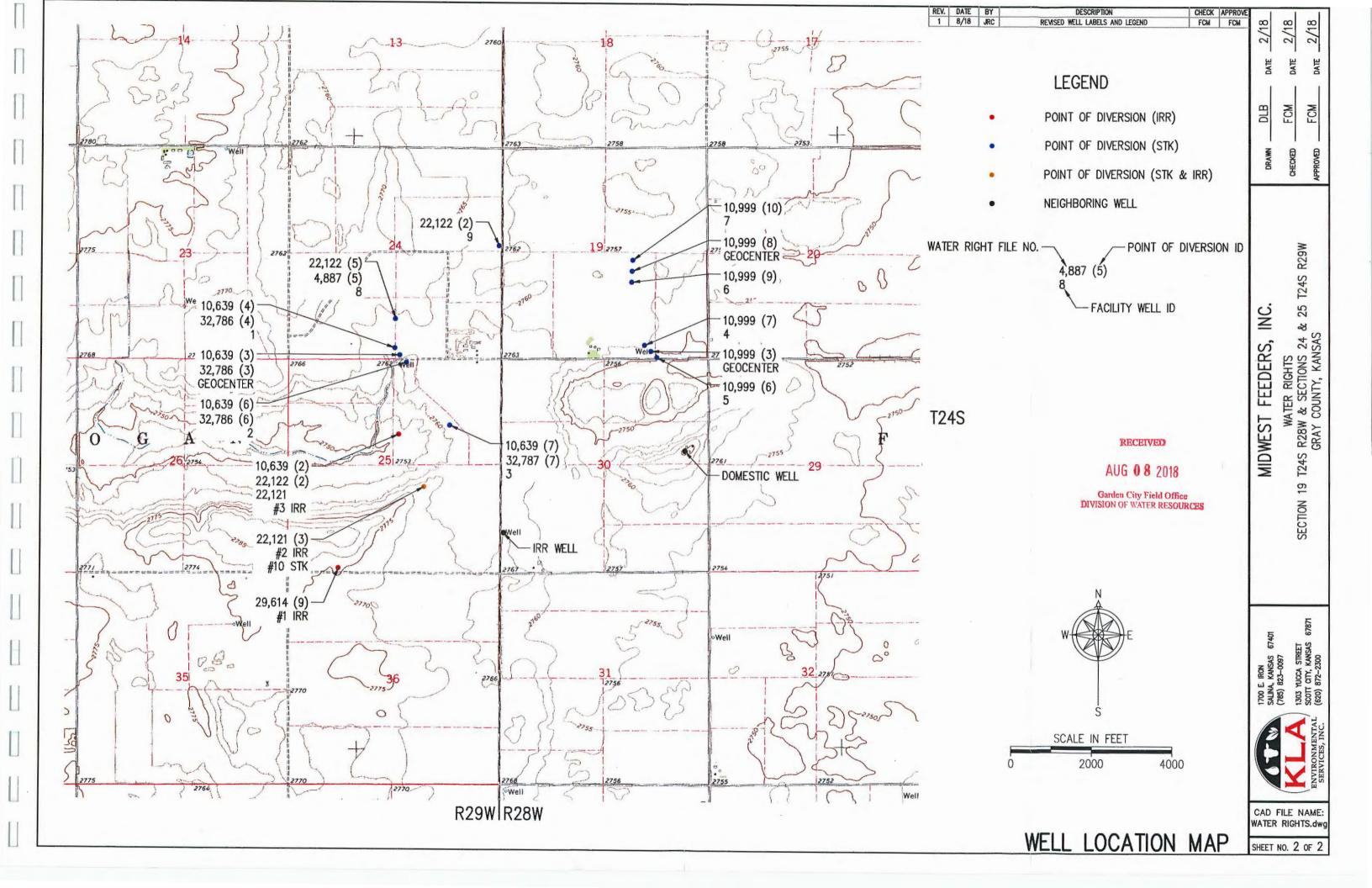
² Associated with File No. 4,887 /10,639

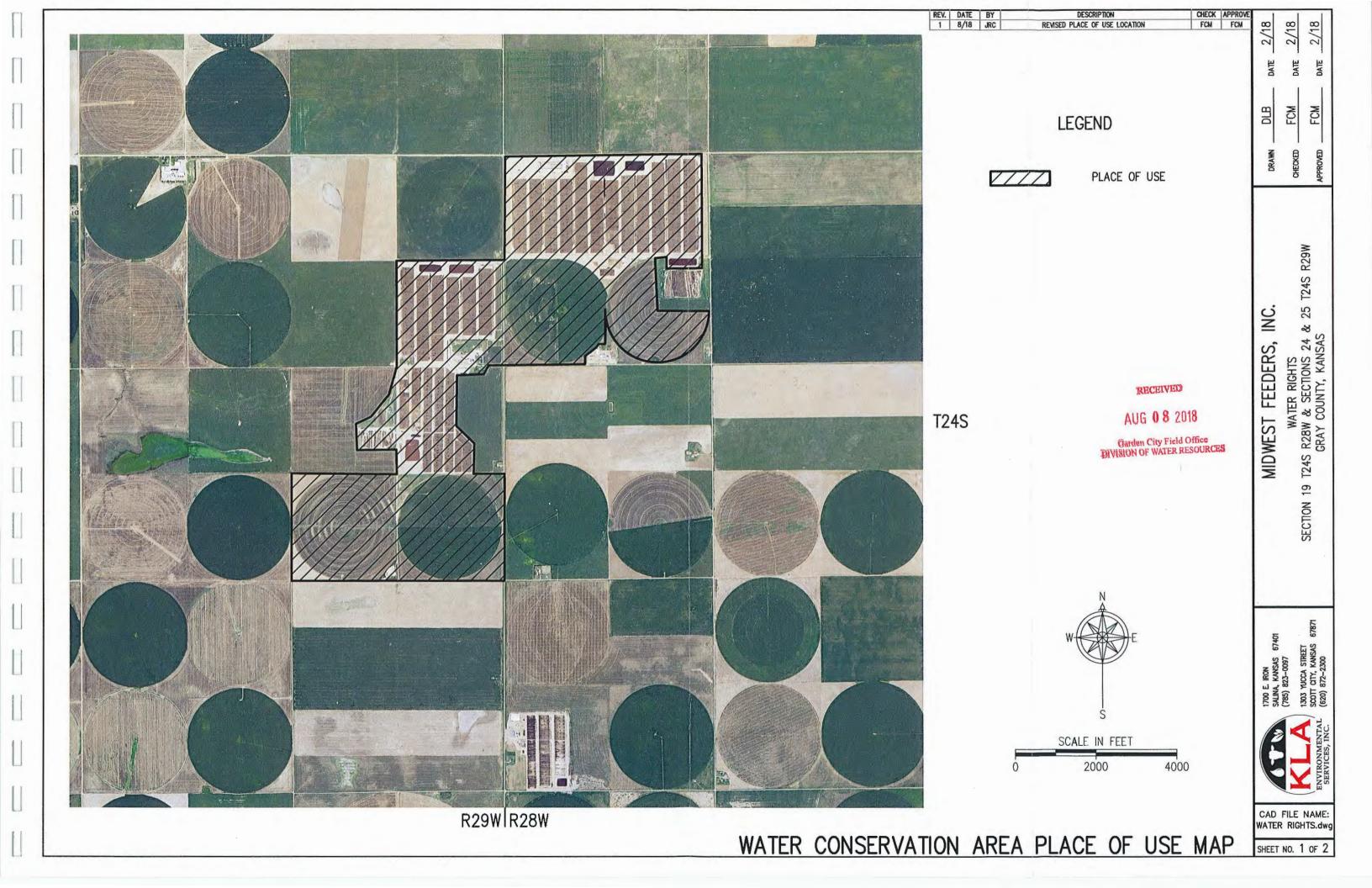
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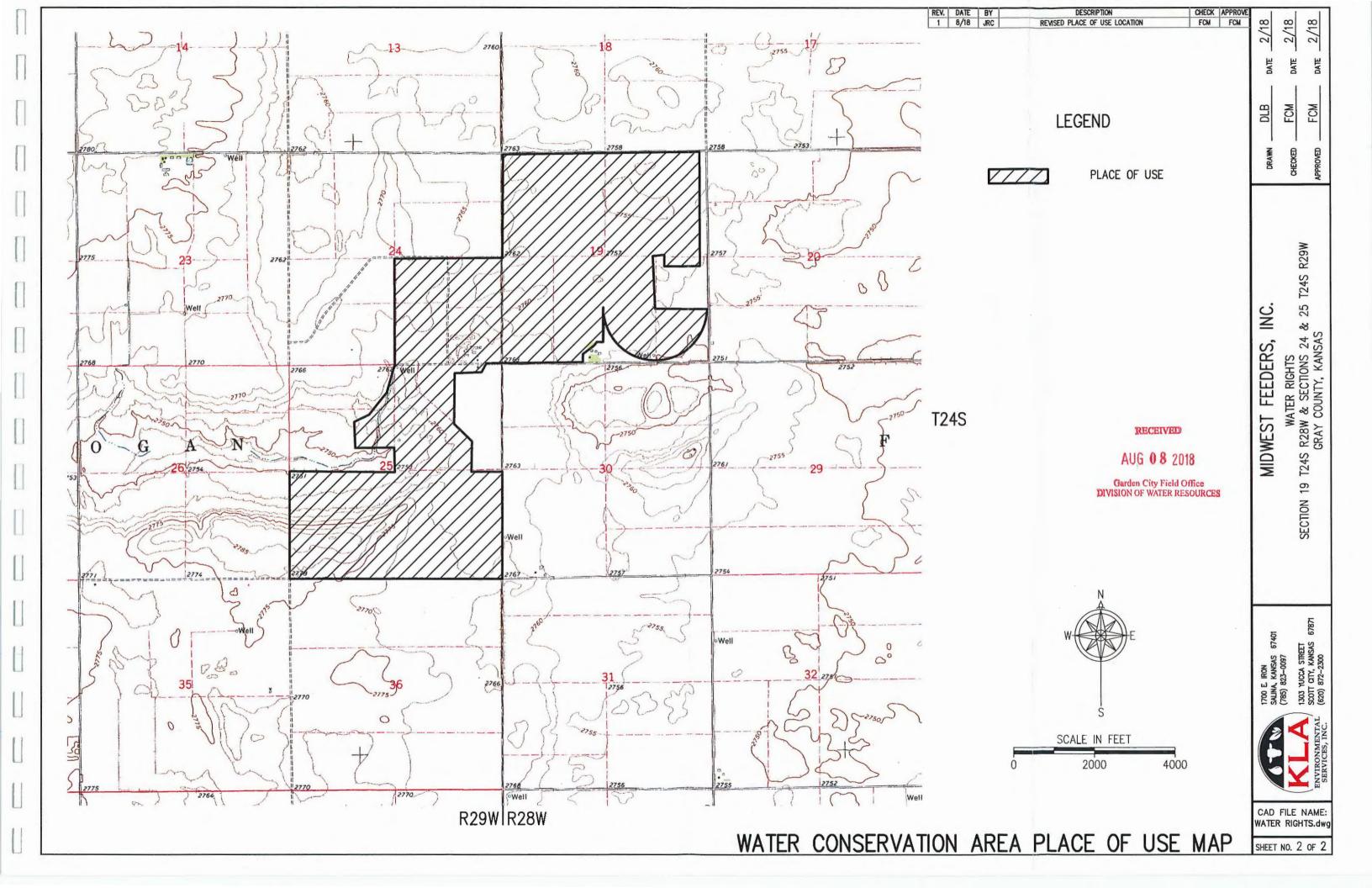
³ Associated with File No. 10,999

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MIDWEST FEEDERS, INC. SUMMARY OF STOCKWATER USE FOR THE PERIOD 2012 - 2017

DWR Edited - Total Reported Water Use

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		ANNUAL WATER USE IN ACRE-FEET BY STOCKWATER FILE NO.												TOTAL		DATE	
YEAR	Term Permit	Term Permit	Term Permit	t Term Permit	Term Permit	4,887 (5)	10,639 (4)	10,639 (6)	10,369 (7)	10,999 (6)) 10,999 (7) 10,999 (9) 10,999 (10) 22,122 (2)		ANNUAL	HEAD COUNT	RATE (GAL/HD/DAY)		
	20129485 ¹	20129486 ²	20139067 ²	20139068 1	20179073 ³	& 22,122 (5)	& 32,786 (4)	& 32,786 (6)	& 32,787 (7)						USE	SE	(OALITE/DAT)
Auth Qty	80	80	100	150	224.098	5.002	13	4.970	94.982		174	.098		123.983			de Alexandre
Add Qty						25.011	3	8.000	38.000								
Fotal Auth	80	80	100	150	224.098	30.014	17	2.970	132.982	174.098		123.983	634.046	= Total Auth Quantity/Y			
2012	29.142	70.771	and the second	The second second		TP20129486	46.356	72.210	75.967	50.525	11.472	68.976	52.828	TP20129485	478.25	50,317	8.49
2013		a la factoria de la	103.029	136.739		TP20139067	11.454	61.132	87.795	2.648	1.948	49.354	85.370	TP20139068	539.47	50,673	9.50
2014						49.324	18.604	30.465	92.334	32.513	20.292	98.342	63.241	78.258	483.37	50,591	8.53
2015	Real Andrews	and the second se	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			32.688	36.338	12.000	38.578	62.548	17.439	96.486	87.828	88.142	472.05	49,861	8.45
2016					Charles and Carlos	21.338	18.442	44.623	36.579	36.187	61.709	113.619	86.423	82.777	501.70	50,113	8.94
2017			No. and State		219.960	26.596	43.322	42.757	29.250		TP201	79073	and the second	115.544	477.43	50,719	8.40
PDIV#	35128	79489	79489	35128	35128	79489	62512	37771	487	62014	62015	62495	62496	35128	492.04	← Average →	8.72
UMW	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK	STK			

¹ Associated with File No. 22,122

² Associated with File No. 4,887 /10,639

³ Associated with File No. 10,999

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Midwest Feeders IRR WCA Summary (pending partial conversion WR #22121)

WR #	ID#	PDIV#	Location (Sect, Twn, Range)	Historical Period (20XX- 20XX)	2018 Annual Auth Qty (AF)	Legal Ave WU (AF)
10639/22122	2	996	25-24S-29W	12-17	211.600	136.166
22121	3	50839	25-24S-29W	12-17	153.520	153.520
29614	9	69799	25-24S-29W	12-17	109.000	29.672

Addional Notes:

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[] U - Under WR #22121 the actual historical use is 157.933 AF/Yr but with the proposed partical conversion to stockwater the new total authorized quantity under this water right shall be reduced to 153.520 AF per year. Therefore, any historical use greater shall be reflected under STK use.

	Historic	al Use Summa	ary	
2018 Annual Auth Qty (AF)	Legal Ave WU (AF)	Ave Irr Acres	Actual Al/Acre	% Use of Authorized
474	319.358	470.08	8.27	67%

"Legal Ave Water Use"- A historical average calculated only using water use reports of equal or less than the annual authorized quantity.

	Recent V	Vater Use Rep	oorts	_
2015 Use	2016 Use	2017 Use	2017 Acres	
325.618	246.029	214.148	456.00	AF
69%	52%	45%	N/A	% of Auth

An	nual WCA Allo	cation (10% (Conservation	1
	Annual WCA Allocation	Reduction from Ave Use	% of Authorized	Est. Acre- Inch (2017 Acres)
Totals	287.422	31.936	61%	7.56

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WR:	10639/22122	639/22122 ID: 2		Location:	Location: 25-24S-29W			
2018	Auth Qty	211.6	PDIV #	996	Limitation:	Overlapping WR's		
Year	Acres	Beg Met Read	End Met Read	WU (AF)	Legal Use (AF)	Al/Acre	Notes:	
2017	210	Meter	Repair	95.521	95.521	5.46		
2016	210	68.652	177.522	108.870	108.870	6.22		
2015	196	928.901	68.652	139.751	139.751	8.56		
2014	164	774.144	928.901	154.757	154.757	11.32		
2013	210	Meter	Repair	145.209	145.209	8.30		
2012	210	474.028	646.916	172.888	172.888	9.88	1	

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WR:	22121	ID:	3	Location:	25-245-2	29W	Over-Pumping	
2018 Au	th Qty	279	PDIV #	50839	Limitation:	None		
Year	Acres	Beg Met Read	End Met Read	WU (AF)	Legal Use (AF)	Al/Acre	Notes:	
2017	246	95137300	126180500	95.27	95.268	4.65]	
2016	212	56613800	95137300	118.22	118.224	6.69		
2015	206	8637400	56613800	147.23	147.234	8.58		
2014	246	52513600	108637400	172.24	172.238	8.40		
2013	246	91389200	152513600	187.58	187.584	9.15		
2012	211	17404300	91389200	227.05	227.051	12.91		

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WR:	22121	ID:	3	Location:	25-245-2	29W	Over-Pumping
2018 Au	th Qty	279	PDIV #	50839	Limitation:	None	
Year	Acres	Beg Met Read	End Met Read	WU (AF)	Legal Use (AF)	Al/Acre	Notes:
2017	246	95137300	126180500	95.27	95.268	4.65	
2016	212	56613800	95137300	118.22	118.224	6.69	
2015	206	8637400	56613800	147.23	147.234	8.58	
2014	246	52513600	108637400	172.24	172.238	8.40	
2013	246	91389200	152513600	187.58	187.584	9.15	
2012	211	17404300	91389200	227.05	227.051	12.91	

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WR: 2	29614	ID:	9	Location:	25-24S-2	29W	Over-Pumping	
2018 Au	th Qty	109	PDIV #	69799	Limitation:	None		
Year	Acres	Beg Met Read	End Met Read	WU (AF)	Legal Use (AF)	Al/Acre	Notes:	
2017		15774400	23385900	23.36	23.359		No reported acres	
2016	34	9604400	15774400	18.94	18.935	6.68		
2015	54	97016000	109604400	38.63	38.632	8.58]	
2014	46	82796900	97016000	43.64	43.637	11.38		
2013		Meter	Repair	15.79	15.790		No reported acres	
2012	35	67285800	79564100	37.68	37.681	12.92		

Garden City Field Office DIVISION OF WATER RESOURCES

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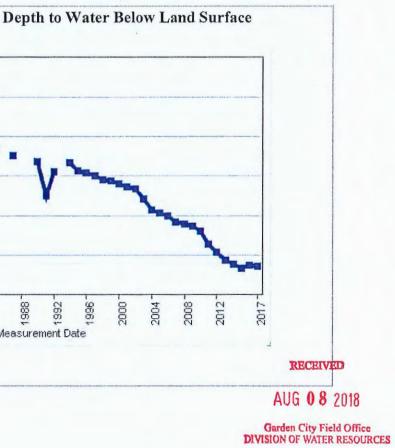
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MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN Н H Groundwater Level Decline Data 11 U 1 1 Ш U H П U

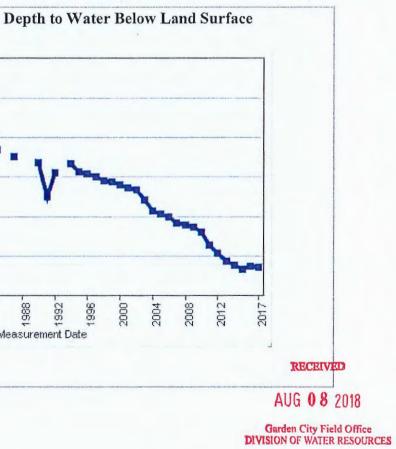
APPENDIX 2

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	General Well Site Information	
USGS ID:	375735100302001 KGS Local Well ID:	24S 29W 16I
County:	Gray PLSS Description:	24S 29W 16 NI
HUC 8 Code:	11030005 GMD:	Southwest Kansa
Longitude:	-100.506226 Lat/Long Source:	GPS (within
Latitude:	37.960821 Lat/Long Accuracy:	5 :
Surface Elevation (ft):	2787 Depth of Well (ft):	
Geological Unit Codes:	QU TO USGS Map Name:	Piercev
Use of Site:	Withdrawal of Water Use of Water:	In
WWC5 Links:	Water None WIMAS Link:	
Note that depth to wa	Water Level Measurements 375735100302001 Iter is feet below land surface and all n are included.	neasurements for th
Hydrograp	375735100302001 ter is feet below land surface and all n	-
· · · · · · · · · · · · · · · · · · ·	375735100302001 ter is feet below land surface and all n are included.	-
-90 -100 -100 -100 -100 -110 -90 -100 -10	375735100302001 ter is feet below land surface and all n are included.	-
Hydrograp)	375735100302001 Ater is feet below land surface and all n are included. h- Annual Average Depth to Water Belo	w Land Surface



	General Well Site Information	
USGS ID:	375735100302001 KGS Local Well ID:	24S 29W 16I
County:	Gray PLSS Description	
HUC 8 Code:	11030005 GMD:	Southwest Kansa
Longitude:	-100.506226 Lat/Long Source:	GPS (within :
Latitude:	37.960821 Lat/Long Accuracy:	5 s
Surface Elevation (ft):	2787 Depth of Well (ft)	:
Geological Unit Codes:	QU TO USGS Map Name	e: Piercev
Use of Site:	Withdrawal of Water Use of Water:	Irr
WWC5 Links:	Water Wimas Link:	
	Water Level Measurements 375735100302001 Iter is feet below land surface and all are included. h- Annual Average Depth to Water Be	l measurements for th
-90 -100	375735100302001 ter is feet below land surface and all	l measurements for th
Hydrograp) -90	375735100302001 ter is feet below land surface and all are included.	l measurements for th
-90 -100 -100 -100 -100 -110 -110 -110 -	375735100302001 ter is feet below land surface and all are included.	l measurements for th
-90 -100 -100 -100 -100 -100 -100 -100 -	375735100302001 ter is feet below land surface and all are included. h- Annual Average Depth to Water Be	I measurements for the



Date	Depth to Water	Status	Agency	I
JAN-01- 1964	-95.4	-	-	U
DEC-07- 1964	-95.39		-	S
JAN-28- 1965	-95.2	-	-	S
JAN-17- 1966	-96.28	-	-	S
JAN-24- 1967	-96.77	-	-	S
JAN-16- 1968	-99.73	-	-	S
JAN-20- 1969	-99.57		-	St
JAN-20- 1970	-103.3		-	St
JAN-21- 1971	-101.68	-	-	S
JAN-31- 1972	-101.03		-	St
JAN-31- 1973	-101.03	-	-	S
JAN-13- 1975	-102.52	-	-	St
JAN-23- 1976	-101.35	-	-	St
JAN-05- 1977	-109.25	-	-	St
JAN-18- 1978	-110.21	-	-	St
JAN-08- 1979	-110.48	-	-	S
JAN-12- 1980	-109.95	-	-	St
JAN-12- 1981	-112.39	-	-	S
JAN-14- 1982	-108.98	-	-	S

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JnknownSteel TapeSteel Tape </th <th>Method</th> <th>WL Source</th> <th>Tape Hold</th> <th>Chalk Cut</th> <th>Initials</th>	Method	WL Source	Tape Hold	Chalk Cut	Initials																																																																																																
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JAN-13- 1983	-110.82	-	-	Steel Tape		-		-
JAN-30- 1984	-112.17	-	-	Steel Tape		-		
JAN-22- 1985	-112.93	-		Steel Tape	-	-		-
JAN-14- 1987	-115.04	-	-	Steel Tape		-		H
DEC-21- 1987	-114.4	-	-	Steel Tape		-		H
JAN-17- 1990	-116.38	-	-	Steel Tape	-	-		-
JAN-11- 1991	-124.85	-	-	Steel Tape	-	-		l.
JAN-16- 1992	-118.97	-	-	Steel Tape	-	-		-
JAN-07- 1994	-116.64	-	-	Steel Tape	-	-		-
JAN-13- 1995	-118.69	-	-	Steel Tape	-	-		-
JAN-16- 1996	-119.2	-	-	Steel Tape	-	-		-
JAN-06- 1997	-119.97	- 1	KGS	Steel Tape	- 1	125	3.93	UB
JAN-07- 1998	-120.89	-	KGS	Steel Tape	-	128	6.01	JMA
JAN-05- 1999	-121.08	-	KGS	Steel Tape	-	128	5.82	RB
JAN-06- 2000	-121.94	-	KGS	Steel Tape	-	127	3.96	RCB
JAN-06- 2001	-122.71	-	KGS	Steel Tape	-	125	1.19	MWF
JAN-07- 2002	-123.28	-	KGS	Steel Tape	-	128	3.62	JDM
JAN-10- 2003	-125.78	-	KGS	Steel Tape	-	128	1.12	BBW
JAN-06- 2004	-128.46	-	KGS	Steel Tape	-	133	3.44	RB
JAN-13- 2005	-129.16	-	DWR	Steel Tape	-	135	4.74	MSP

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JAN-03- 2006	-129.99	-	DWR	Steel Tape -	137	5.91	MSP
JAN-17- 2007	-131.46	-	DWR	Steel Tape -	140	7.44	MSP
JAN-08- 2008	-132.14	-	DWR	Steel Tape -	135	1.76	CLS
JAN-05- 2009	-132.59	-	DWR	Steel Tape -	141	7.31	CLS
JAN-04- 2010	-133.82	-	DWR	Steel Tape -	145	10.08	sv
JAN-03- 2011	-137.16	-	DWR	Steel Tape -	145	6.74	sv
JAN-04- 2012	-139.16	-	DWR	Steel Tape -	144	3.74	RD
JAN-08- 2013	-141.29	-	DWR	Steel Tape -	149	6.61	RD
JAN-07- 2014	-142.17	-	DWR	Steel Tape -	150	6.73	RD
JAN-05- 2015	-143.36	-	DWR	Steel Tape -	145	0.54	RD
JAN-04- 2016	-142.58	-	DWR	Steel Tape -	145	1.32	IEG
JAN-04- 2017	-142.77	-	DWR	Steel Tape -	145	1.13	TPM

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USGS ID:	Gen 37562610
County:	
HUC 8 Code:	1
Longitude:	-10
Latitude:	3
Surface Elevation (ft): Geological Unit Codes:	
Use of Site:	With
WWC5 Links:	
	Wat
Note that depth to wa	ter is feet l
Hydrograph	ł
Hydrograph -105 -110	ł
Hydrograph -105 -110	ł
Hydrograph -105 -110	ł
-105 -110 -110 -110 -110 -110 -110 -110	ł
Hydrograph -105 -110 -110 -110 -115 -115 -115 -120 -130 -130	h- Annual A
Hydrograph -105 -110 -110 -110 -110 -110 -110 -120 -00 -125 -130	ł

Site Information

- KGS Local Well ID:
- PLSS Description:
- GMD:
- Lat/Long Source:
- Lat/Long
- Accuracy:
- Depth of Well (ft):
- USGS Map Name:

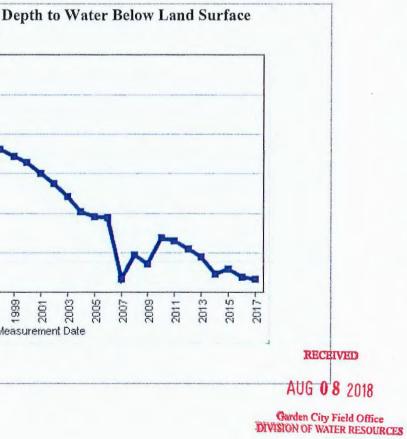
Use of Water:

WIMAS Link:

el Measurements

6100241701

and surface and all measurements for the well included.



24S 28W 28BBA 01

24S 28W 28 NENWNW Southwest Kansas GMD #3

GPS (within 50 feet)

5 seconds

Unknown

CIMARRON NW

Irrigation

48177

Date	Depth to Water	Status	Agency	Method	WL Source	Tape Hold	Chalk Cut	Initials
JAN-22- 1985	-108.1	-	-	Steel Tape	-	-		-
JAN-23- 1986	-108.34	-	-	Steel Tape	-	-		-
JAN-06- 1987	-109.65	-	-	Steel Tape		-		-
DEC-21- 1987	-109.95	-	-	Steel Tape	-	-		-
JAN-09- 1989	-111.98	-	-	Steel Tape	-	-		-
JAN-06- 1990	-111.66		-	Steel Tape	-	-		-
JAN-11- 1991	-111.81	-	-	Steel Tape		-		
JAN-16- 1992	-112.86	-	-	Steel Tape		-		-
FEB-04- 1993	-112.7	-	-	Steel Tape	-	-		-
JAN-07- 1994	-112.1	-	-	Steel Tape	-	-		-
JAN-12- 1995	-113.82		-	Steel Tape		-		-
JAN-16- 1996	-114.25	-	-	Steel Tape	-	-		-
JAN-06- 1997	-116.41	-	KGS	Steel Tape	-	120	3.29	UB
JAN-07- 1998	-116.86	-	KGS	Steel Tape	-	121	3.84	JDS
JAN-07- 1999	-117.81	-	KGS	Steel Tape	-	120	1.89	DRL
JAN-08- 2000	-118.6	-	KGS	Steel Tape		120	1.10	JLT
JAN-06- 2001	-119.98	-	KGS	Steel Tape	-	122	1.72	JMA
JAN-07- 2002	-121.16	-	KGS	Steel Tape	-	125	3.54	BBW
JAN-10- 2003	-122.86	-	KGS	Steel Tape	-	130	6.84	JMH

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WR:	29614	ID:	9	Location:	25-24S-2	29W	Over-Pumping
2018 Au	th Qty	109	PDIV #	69799	Limitation:	None	
Year	Acres	Beg Met Read	End Met Read	WU (AF)	Legal Use (AF)	Al/Acre	Notes:
2017		15774400	23385900	23.36	23.359		No reported acres
2016	34	9604400	15774400	18.94	18.935	6.68	
2015	54	97016000	109604400	38.63	38.632	8.58	
2014	46	82796900	97016000	43.64	43.637	11.38	
2013		Meter	Repair	15.79	15.790		No reported acres
2012	35	67285800	79564100	37.68	37.681	12.92	1

Garden City Field Office DIVISION OF WATER RESOURCES

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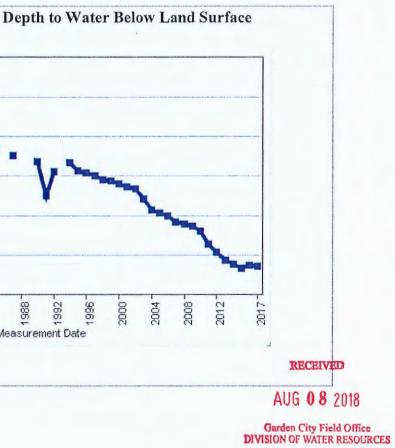
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MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN Groundwater Level Decline Data 11 U 1 1 Ш U H П U

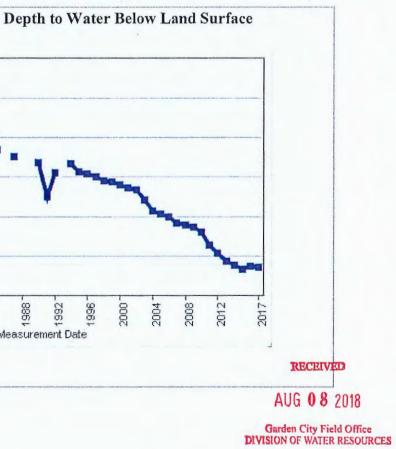
APPENDIX 2

RECEIVED

	General Well Site Inform	nation			
USGS ID:	375735100302001 KGS Loca ID:	l Well	24S	29W 16	6D
County:	Gray PLSS Desc	ription:	24S 29	9W 16 N	NE
HUC 8 Code:	11030005 GMD:		Southwe	est Kans	sas
Longitude:	-100.506226 Lat/Long \$	Source:	GPS	S (within	n 5
Latitude:	37.960821 Lat/Long Accuracy:			5	5 se
Surface Elevation (ft):	2787 Depth of V	Vell (ft):			
Geological Unit Codes:	QU TO USGS Maj	p Name:		Pierce	evi
Use of Site:	Withdrawal of Water Use of Wat	ter:]	Irri
WWC5 Links:	Water Wimas L				
	Water Level Measure 37573510030200 ter is feet below land surface are included.	1 and all m			the
-90 -100	37573510030200 ter is feet below land surface	1 and all m			the
Hydrograp) -90	37573510030200 ter is feet below land surface are included.	1 and all m			the
-90 -100 -100 -100 -100 -100 -100 -100 -	37573510030200 ter is feet below land surface are included.	and all m ater Belov		rface	the
-90 -100 -100 -100 -100 -100 -100 -100 -	37573510030200 ter is feet below land surface are included. h- Annual Average Depth to W	and all m ater Belov	v Land Sur	rface	the



	General Well Site Information	
USGS ID:	375735100302001 KGS Local Well ID:	24S 29W 16D0
County:	Gray PLSS Description:	24S 29W 16 NES
HUC 8 Code:	11030005 GMD:	Southwest Kansas
Longitude:	-100.506226 Lat/Long Source:	GPS (within 50
Latitude:	37.960821 Lat/Long Accuracy:	5 sec
Surface Elevation (ft):	2787 Depth of Well (ft):	
Geological Unit Codes:	QU TO USGS Map Name:	Piercevil
Use of Site:	Withdrawal of Water Use of Water:	Irrig
WWC5 Links:	Water Wimas Link:	3
	Water Level Measurements 375735100302001	
-	375735100302001 ater is feet below land surface and all n are included.	
-90 -100 - -100 - -90 -100 - -100 - -100 - -100 - -100 - -100 - -100 - -100 - 	375735100302001 ater is feet below land surface and all n	
-90 -100 - -100 - -100 - -100 - -100 - -100 - 	375735100302001 ater is feet below land surface and all n are included.	
-90 -100 -100 -100 -100 -100 -100 -100 -	375735100302001 Ater is feet below land surface and all n are included. h- Annual Average Depth to Water Belo	w Land Surface



Date	Depth to Water	Status	Agency	I
JAN-01- 1964	-95.4	-	-	U
DEC-07- 1964	-95.39		-	S
JAN-28- 1965	-95.2	-	-	S
JAN-17- 1966	-96.28	-		S
JAN-24- 1967	-96.77	-	-	S
JAN-16- 1968	-99.73	-	-	St
JAN-20- 1969	-99.57	-	-	St
JAN-20- 1970	-103.3		-	St
JAN-21- 1971	-101.68	-	-	S
JAN-31- 1972	-101.03		-	St
JAN-31- 1973	-101.03	-	-	S
JAN-13- 1975	-102.52	-	-	S
JAN-23- 1976	-101.35	-	-	St
JAN-05- 1977	-109.25	-	-	St
JAN-18- 1978	-110.21	-	-	S
JAN-08- 1979	-110.48	-	-	S
JAN-12- 1980	-109.95	-	-	St
JAN-12- 1981	-112.39	-	-	S
JAN-14- 1982	-108.98	-	-	S

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Method	WL Source	Tape Hold	Chalk Cut	Initials
Jnknown	-	-		-
steel Tape	-	-		-
steel Tape	-	-		-
steel Tape	-	-		-
teel Tape	-	-		-
steel Tape	-	-		
steel Tape	-	-		-
teel Tape		-		-
steel Tape	-	-		-
steel Tape	-	-		-
teel Tape	-	-		-
steel Tape	-	-		-
steel Tape	-	-		-
teel Tape	-	-		-
steel Tape	-	-		
steel Tape	-	-		-
teel Tape	-	-		-
steel Tape	-	-		-
steel Tape	-	-		RECEIV
and a line state to sold a rank to be specific to		and the second s	and the second state of th	

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JAN-13- 1983	-110.82	-	-	Steel Tape	-	-		-
JAN-30- 1984	-112.17	-	-	Steel Tape	-	-		-
JAN-22- 1985	-112.93	-	-	Steel Tape	-	-		-
JAN-14- 1987	-115.04	-	-	Steel Tape	-	-		H
DEC-21- 1987	-114.4	-	-	Steel Tape	-	-		-
JAN-17- 1990	-116.38	-	-	Steel Tape	-	-		-
JAN-11- 1991	-124.85	-	-	Steel Tape	-	-		l.
JAN-16- 1992	-118.97	-	-	Steel Tape	-	-		
JAN-07- 1994	-116.64	-	-	Steel Tape	-	-		-
JAN-13- 1995	-118.69	-	-	Steel Tape	-	-		-
JAN-16- 1996	-119.2	-	-	Steel Tape	-	-		-
JAN-06- 1997	-119.97	- 1	KGS	Steel Tape	_	125	3.93	UB
JAN-07- 1998	-120.89	-	KGS	Steel Tape	-	128	6.01	JMA
JAN-05- 1999	-121.08	-	KGS	Steel Tape	-	128	5.82	RB
JAN-06- 2000	-121.94	-	KGS	Steel Tape	-	127	3.96	RCB
JAN-06- 2001	-122.71	-	KGS	Steel Tape	-	125	1.19	MWF
JAN-07- 2002	-123.28	-	KGS	Steel Tape	-	128	3.62	JDM
JAN-10- 2003	-125.78	-	KGS	Steel Tape	-	128	1.12	BBW
JAN-06- 2004	-128.46	-	KGS	Steel Tape	-	133	3.44	RB
JAN-13- 2005	-129.16	-	DWR	Steel Tape	-	135	4.74	MSP

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 AUG 08 2018

JAN-03- 2006	-129.99	-	DWR	Steel Tape -	137	5.91	MSP
JAN-17- 2007	-131.46	-	DWR	Steel Tape -	140	7.44	MSP
JAN-08- 2008	-132.14	-	DWR	Steel Tape -	135	1.76	CLS
JAN-05- 2009	-132.59	-	DWR	Steel Tape -	141	7.31	CLS
JAN-04- 2010	-133.82	-	DWR	Steel Tape -	145	10.08	sv
JAN-03- 2011	-137.16	-	DWR	Steel Tape -	145	6.74	sv
JAN-04- 2012	-139.16	-	DWR	Steel Tape -	144	3.74	RD
JAN-08- 2013	-141.29	-	DWR	Steel Tape -	149	6.61	RD
JAN-07- 2014	-142.17	-	DWR	Steel Tape -	150	6.73	RD
JAN-05- 2015	-143.36	-	DWR	Steel Tape -	145	0.54	RD
JAN-04- 2016	-142.58	-	DWR	Steel Tape -	145	1.32	IEG
JAN-04- 2017	-142.77	-	DWR	Steel Tape -	145	1.13	TPM

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Site Information

- KGS Local Well ID:
- PLSS Description:
- GMD:
- Lat/Long Source:
- Lat/Long
- Accuracy:
- Depth of Well (ft):
- USGS Map Name:

Use of Water:

WIMAS Link:

el Measurements

6100241701

and surface and all measurements for the well included.



24S 28W 28BBA 01

24S 28W 28 NENWNW Southwest Kansas GMD #3

GPS (within 50 feet)

5 seconds

Unknown

CIMARRON NW

Irrigation

48177

Date	Depth to Water	Status	Agency	Method	WL Source	Tape Hold	Chalk Cut	Initials
JAN-22- 1985	-108.1	-	-	Steel Tape	-	-		-
JAN-23- 1986	-108.34	-	-	Steel Tape	-	-		-
JAN-06- 1987	-109.65	-	-	Steel Tape		-		-
DEC-21- 1987	-109.95	-	-	Steel Tape	-	-		-
JAN-09- 1989	-111.98	-	-	Steel Tape	-	-		-
JAN-06- 1990	-111.66		-	Steel Tape	-	-		-
JAN-11- 1991	-111.81	-	-	Steel Tape		-		
JAN-16- 1992	-112.86	-	-	Steel Tape		-		-
FEB-04- 1993	-112.7	-	-	Steel Tape	-	-		-
JAN-07- 1994	-112.1	-	-	Steel Tape	-	-		-
JAN-12- 1995	-113.82		-	Steel Tape		-		-
JAN-16- 1996	-114.25	-	-	Steel Tape	-	-		-
JAN-06- 1997	-116.41	-	KGS	Steel Tape	-	120	3.29	UB
JAN-07- 1998	-116.86	-	KGS	Steel Tape	-	121	3.84	JDS
JAN-07- 1999	-117.81	-	KGS	Steel Tape	-	120	1.89	DRL
JAN-08- 2000	-118.6	-	KGS	Steel Tape		120	1.10	JLT
JAN-06- 2001	-119.98	-	KGS	Steel Tape	-	122	1.72	JMA
JAN-07- 2002	-121.16	-	KGS	Steel Tape	-	125	3.54	BBW
JAN-10- 2003	-122.86	-	KGS	Steel Tape	-	130	6.84	JMH

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Date	Depth to Water	Status	Agency]
JAN-01- 1964	-95.4	-	-	U
DEC-07- 1964	-95.39		-	S
JAN-28- 1965	-95.2		-	S
JAN-17- 1966	-96.28	-		S
JAN-24- 1967	-96.77	-	-	S
JAN-16- 1968	-99.73	-	-	S
JAN-20- 1969	-99.57		-	S
JAN-20- 1970	-103.3		-	S
JAN-21- 1971	-101.68	-	-	S
JAN-31- 1972	-101.03	-	-	S
JAN-31- 1973	-101.03	-	-	S
JAN-13- 1975	-102.52	-	-	S
JAN-23- 1976	-101.35	-	-	S
JAN-05- 1977	-109.25	-	-	S
JAN-18- 1978	-110.21	-		S
JAN-08- 1979	-110.48	-	-	S
JAN-12- 1980	-109.95	-	-	S
JAN-12- 1981	-112.39	-	-	S
JAN-14- 1982	-108.98	-	-	S

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Method	WL Source	Tape Hold	Chalk Cut	Initials
Jnknown	-	-		-
Steel Tape	-	-		-
Steel Tape	-	-		-
Steel Tape	-	-		-
steel Tape	- -	-		-
Steel Tape	-	-		-
Steel Tape	-	-		-
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Steel Tape	-	-		-
steel Tape	-	-		-
Steel Tape	-	-		-
steel Tape	-	-		-
steel Tape	-	-		-
Steel Tape	_	_		
steel Tape	-	-		-
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steel Tape	-	-		RECEIV
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JAN-13- 1983	-110.82	-	-	Steel Tape	-	-		-
JAN-30- 1984	-112.17	-	-	Steel Tape	-	-		-
JAN-22- 1985	-112.93	-	-	Steel Tape		-		-
JAN-14- 1987	-115.04	-	-	Steel Tape	-	-		H
DEC-21- 1987	-114.4	-	-	Steel Tape		-		
JAN-17- 1990	-116.38	-	-	Steel Tape	-	-		
JAN-11- 1991	-124.85	-	-	Steel Tape	-	-		l.
JAN-16- 1992	-118.97	-	-	Steel Tape	-	-		-
JAN-07- 1994	-116.64	-	-	Steel Tape	-	-		-
JAN-13- 1995	-118.69	-	-	Steel Tape	-	-		-
JAN-16- 1996	-119.2	-	-	Steel Tape	-	-		-
JAN-06- 1997	-119.97	-1	KGS	Steel Tape	ĺ	125	3.93	UB
JAN-07- 1998	-120.89	-	KGS	Steel Tape	-	128	6.01	JMA
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JAN-03- 2006	-129.99	-	DWR	Steel Tape -	137	5.91	MSP
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JAN-04- 2016	-142.58	-	DWR	Steel Tape -	145	1.32	IEG
JAN-04- 2017	-142.77	-	DWR	Steel Tape -	145	1.13	TPM

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Hydrograph- Annual Aver

Site Information

- KGS Local Well ID:
- PLSS Description:
- GMD:
- Lat/Long Source:
- Lat/Long
- Accuracy:
- Depth of Well (ft):
- USGS Map Name:

Use of Water:

WIMAS Link:

el Measurements

6100241701

and surface and all measurements for the well included.



24S 28W 28BBA 01

24S 28W 28 NENWNW Southwest Kansas GMD #3

GPS (within 50 feet)

5 seconds

Unknown

CIMARRON NW

Irrigation

48177

Date	Depth to Water	Status	Agency	Method	WL Source	Tape Hold	Chalk Cut	Initials
JAN-22- 1985	-108.1	-	-	Steel Tape	-	-		-
JAN-23- 1986	-108.34	-	-	Steel Tape	-	-		-
JAN-06- 1987	-109.65	-	-	Steel Tape		-		-
DEC-21- 1987	-109.95	-	-	Steel Tape	-	-		-
JAN-09- 1989	-111.98	-	-	Steel Tape	-	-		-
JAN-06- 1990	-111.66			Steel Tape	-	-		-
JAN-11- 1991	-111.81	-	-	Steel Tape		-		-
JAN-16- 1992	-112.86	-	-	Steel Tape		-		-
FEB-04- 1993	-112.7	-	-	Steel Tape	-	-		-
JAN-07- 1994	-112.1	-	-	Steel Tape	-	-		-
JAN-12- 1995	-113.82		-	Steel Tape		-		-
JAN-16- 1996	-114.25	-	-	Steel Tape	-	-		-
JAN-06- 1997	-116.41	-	KGS	Steel Tape	-	120	3.29	UB
JAN-07- 1998	-116.86		KGS	Steel Tape	-	121	3.84	JDS
JAN-07- 1999	-117.81	-	KGS	Steel Tape	-	120	1.89	DRL
JAN-08- 2000	-118.6	-	KGS	Steel Tape		120	1.10	JLT
JAN-06- 2001	-119.98	-	KGS	Steel Tape	-	122	1.72	JMA
JAN-07- 2002	-121.16	-	KGS	Steel Tape	-	125	3.54	BBW
JAN-10- 2003	-122.86	-	KGS	Steel Tape	-	130	6.84	JMH

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JAN-04- 2004	-124.6	-	KGS	Steel Tape	-	127	2.10	RDM
JAN-06- 2004	-125.02	-	KGS	Steel Tape	-	130	4.68	RB
JAN-03- 2005	-125.37	-	DWR	Steel Tape	-	135	9.33	MSP
JAN-03- 2006	-125.48	-	DWR	Steel Tape	-	130	4.22	MSP
JAN-17- 2007	-133.28	-	DWR	Steel Tape	-	145	11.42	MSP
JAN-08- 2008	-130.2	-	DWR	Steel Tape	-	135	4.50	CLS
JAN-05- 2009	-131.4	-	DWR	Steel Tape	-	135	3.30	CLS
JAN-04- 2010	-128.05	-	DWR	Steel Tape	-	143	14.65	sv
JAN-03- 2011	-128.47	-	DWR	Steel Tape	-	145	16.23	sv
JAN-03- 2012	-129.43	-	DWR	Steel Tape	-	132	2.27	RD
JAN-08- 2013	-130.45	-	DWR	Steel Tape	-	135	4.25	RD
JAN-07- 2014	-132.6	-	DWR	Steel Tape	- 1	135	2.10	RD
JAN-05- 2015	-132.02	-	DWR	Steel Tape	-	141	8.68	RD
JAN-04- 2016	-133.07	-	DWR	Steel Tape	-	135	1.63	IEG
JAN-04- 2017	-133.23	-	DWR	Steel Tape		135	1.47	TPM

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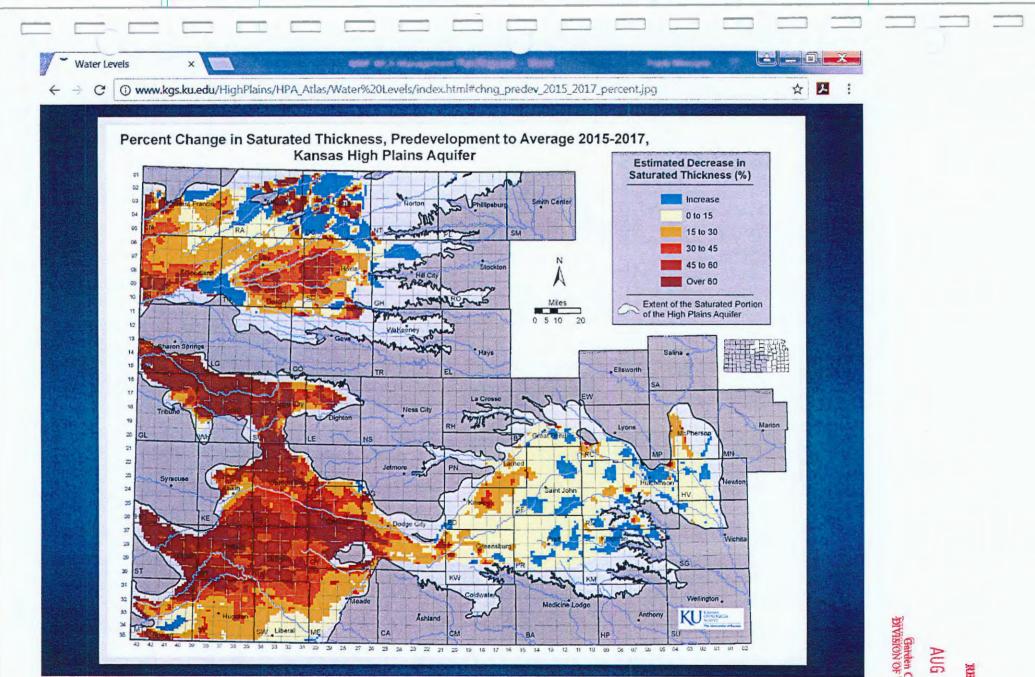
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DNSERVATION AREA MANAGEMENT PLAN

ENDIX 3

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KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: MIDWEST FEEDERS, INC.

BY: FCM DATE: 2/15/2018

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ESTIMATED STOCKWATER USE QUANTITY FOR CURRENT AND PLANNED FACILITY CAPACITY

CURRENT CAPACITY = 59,320 HEAD BASED ON CURRENT KDHE PERMIT

MAXIMUM REASONABLE USE: CURRENT AND PLANNED CAPACITIES

1

LIVESTOCK TYPE	USE	UNIT RATE (GAL/HD/DAY)	NO. OF HEAD	NO. OF DAYS	ANNUAL USE (GALLONS)	ANNUAL USE (ACRE-FFET)
BEEF CATTLE	DRINKING	15	59,320	365	324,777,000	996.70
BEEF CATTLE	DRINKING	15	74,000	365	405,150,000	1,243.36

PROPOSED USE FOR WCA PLAN: CURRENT AND PLANNED CAPACITIES

LIVESTOCK TYPE	USE	UNIT RATE (GAL/HD/DAY)	NO. OF HEAD	NO. OF DAYS	ANNUAL USE (GALLONS)	ANNUAL USE (ACRE-FFET)
BEEF CATTLE	DRINKING	9	59,320	365	194,866,200	598.02
BEEF CATTLE	DRINKING	9	74,000	365	243,090,000	746.02

NOTES: GAL/HD/DAY = GALLONS/HEAD/DAY 1.0 AF = 1.0 ACRE-FOOT = 325,851 GALLONS

ADDITIONAL STOCKWATER QUANTITY REQUIRED TO SUPPLY AVERAGE ANNUAL USE BASED ON PLANNED CAPACITY FOR WCA PLAN:

AVERAGE ANNUAL STOCKWATER USE = 746.02 AF (9 GAL/HD/DAY) TOTAL AUTHORIZED STOCKWATERING QUANTITY = 634.10 AF (CURRENT) DIFFERENCE = MINIMUM ADDITIONAL SUPPLY = 111.92 AF

> → ADDITIONAL SUPPLY WILL BE OBTAINED THROUGH CHANGE OF USE FROM IRRIGATION TO STOCKWATERING

LOCATION: SEC. 19 T24S R28W AND SEC. 24 & 25 T24S R29W, GRAY COUNTY, KANSAS

CHECKED BY: CSG DATE: 2/26/2018

PLANNED CAPACITY = 74,000 HEAD BASED ON 2018 EXPANSION PROJECT

→ USE 112.00 AF

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634.10 AF 112.00 AF → USE 746.10 AF FOR BASIS OF AVERAGE ANNUAL STOCKWATER USE FROM 2018 1.1 → TOTAL PERMISSIBLE QUANTITY OF WITHDRAWAL DURING TERM OF WCA = (746.10 AF) x (3 YEARS) = 2,238.30 AF U Π 1 U U U \cup IJ H Ļ

PAGE 2 OF 2

THROUGH END OF TERM OF WATER CONSERVATION AREA PLAN

= (AVERAGE ANNUAL STOCKWATER USE) x (TERM) → TERM = 3 YEARS

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KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: MIDWEST FEEDERS, INC.

LOCATION: GRAY COUNTY, KANSAS

BY: FCM DATE: 1/19/2018

SUMMARY OF WASTEWATER (EFFLUENT) APPLIED TO MIDWEST FEEDERS, INC. PLACE OF USE AND EXPORTED TO NEIGHBORS FOR IRRIGATION PURPOSES

Midwest Feeders, Inc. generates wastewater from water tank overflows. The facility is also required to contain all stormwater runoff generated within the facility. This wastewater is ultimately used for irrigation purposes. A portion of the wastewater supplements groundwater used for irrigated crop production and is applied on the same place of use as the groundwater authorized by the facility's irrigation water rights. The remainder of the wastewater is exported to neighbors for use as supplemental irrigation water. Wastewater irrigation provides an additional source of recharge to the local aquifer utilized by Midwest Feeders, Inc.

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YEAR		R (EFFLUENT)	WASTEWATER (EFFLUENT) EXPORTED TO NEIGHBORS		
	(GALLONS)	(ACRE-FEET)	(GALLONS)	(ACRE-FEET)	
2012	30,519,216	93.66	58,542,544	179.66	
2013	30,714,961	94.26	61,315,873	188.17	
2014	36,298,161	111.39	115,994,456	355.97	
2015	43,738,848	134.23	131,486,827	403.52	
2016	48,433,009	148.64	108,663,691	333.48	
2017	34,214,831	105.00	65,973,250	202.46	
AVERAGE	37,319,838	114.53	90,329,440	277.21	

AVERAGE ANNUAL WASTEWATER A AVERAGE ANNUAL WASTEWAT TOTAL WASTEWATER QUANTITY APPLIED

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Table KS6-1, Typical Efficiency for Irrigation Systems, in the NRCS National Engineering Handbook, Part 652, Irrigation Guide, indicates a system efficiency of 87% for center pivot sprinkler systems with nozzles near the ground. This is the type of irrigation system typically used by Midwest Feeders, Inc. and neighboring producers. This implies a potential recharge factor of 13% (100% - 87%).

 \rightarrow The average annual potential recharge from wastewater (effluent) irrigation = 13% of the average annual application = 50.93 acre-feet

CHECKED BY: CSG DATE: 2/26/2018

APPLICATION QUANTITY =	114.53 AF
TER EXPORT QUANTITY =	277.21 AF
OVER LOCAL AQUIFER =	391.74 AF

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Chapter 6 Irrigatio Design	
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. Sect KS652.0605(b) addresses gravity irrigation systems. Section KS652.0605(c) address sprinkle irrigation systems. Section KS652.0605(d) addresses micro (drip) irrigation systems.	ion on
Table KS6-1 Typical Efficiency for Irriga	atio
Irrigation	n S
Surface Irrigation - Basic (Earthen con-	vey
Surface Irrigation - Basic (Earthen con- leveled)	
Surface Irrigation - Basic (Earthen contailwater reuse)	vey
Surface Irrigation - Improved (Delivery	pip
Surface Irrigation - Improved (Delivery	pip
Surface Irrigation - Improved (Tailwate pipe)	r re
Center Pivot ^{1/2/} and Linear Move - Spr Center Pivot ^{1/2/} and Linear Move - Noz ground	
Center Pivot ^{1/2/} and Linear Move - Noz	zzle
Center Pivot and Linear Move - Low Er	ner
Sprinkler - Solid set	
Sprinkler Irrigation - Side roll	
Subsurface Drip Irrigation (SDI)	
^{1/} When the center pivot system includes	

system	National Engineering Handbook Part 652
	Irrigation Guide

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.

n Systems

ystem Type	Efficiency (%)
vance ditch and siphon tubes or cutouts)	50
vance ditch, siphon tubes or cutouts, land	60
vance ditch, gated pipe, land leveled,	70
peline, gated pipe)	70
peline, gated pipe, land leveled)	75
euse, land leveled, delivery pipeline, gated	80
lers on top of pipe	80
es below lateral but > 6 feet height above	85
es near ground (in canopy)	87
gy Precision Application (LEPA)	92
	75
	70
	92

end gun, reduce the efficiency by 5%. corner system (sometimes referred to as a trailer

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Garden City Field Office DIVISION OF WATER RESOURCES

(210-VI-NEH 652, IG Amend. KS9, Oct. 2006)

-MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN ก П Local Geohydrologic Study 1 \Box 1 11 П U 8 U A IJ D U

APPENDIX 4

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AUG 08 2018

Ground Water Associates, Inc.

1999 N. AMIDON STREET, STE. 218 . WICHITA, KS 67203 . 316-262-3322 P.O. BOX 3834 . WICHITA, KS 67201

April 22, 2013

Frank C. Mercurio, P.E. KLA Environmental Services, Inc. 1303 Yucca Street Scott City, Kansas 67871

Subject: Ground Water Situation Midwest Feeders, Inc.

Dear Mr. Mercurio:

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This letter is written to describe the geology and hydrology in the area of interest (in and around Midwest Feeders), and to provide our recommendations concerning the moving of certain existing water rights and the partial changing of the use made of some of your water rights. It is understood that your will pass this information along to the Division of Water Resources (DWR) with your specific requests for changes to your water rights. We have modified and/or prepared Tables 1 and 2 and Figures 1 through 3, and they are included with this report along with your water use reports for 2012 and the available drilling logs for some of your wells.

Midwest Feeders and the wells associated with it (stockwater and irrigation) are located in Section 19, T24S, R28W, and in Sections 24 and 25, T24S, R29W, Gray County, Kansas as shown on Figure 3 (your fold out map), which we have modified by adding information concerning the individual well sites and showing the locations of two cross sections we have prepared (Figure 1) to show the similarity of the deposits present at the various well sites in this area. And, we have used only the drilling logs that you could positively identify as being at a specific site.

We added the following data to Figure 3;

- site of a domestic well,
- (2) The well sites that we have a drilling log on have been circled in green (see Drilling Logs and Well Designs Section),
- (3) A green line shows the locations of the north to south and the west to east cross sections we have prepared (Figure 1).

(1) The Computer Identification Number (C.I.N.) to the well sites that the DWR shows on the yearly water use reports to help identify the individual wells in red, and we have shown a red T if there is a term permit existing on a well, and a red D to identify the 3

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Garden City Field Office DIVISION OF WATER RESOURCES

EXPERTISE IN WATER & WELLS

Frank Mercurio Page 2 April 22, 2013

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All of the available drilling logs are included with this report, and you will note we have plotted the cross sections to show exactly what the driller has described. As an example note on the first log (DWR 4887 and 10639 - T - 5 - 1) that the driller shows "brown clay fine sand" from 90' to 110', and we have listed this as clay and sand on the cross section. Normally the driller will list the most prominent of the drill cuttings first and then the others that are with it. The drilling logs are marked with a red C.I.N. number and a blue owner's number.

Initially, we prepared a summary (Table 1) of the drilling logs, and we have identified them by using the C.I.N. and the section number. Note also that we have included data on a domestic well in section 24 and an observation well near the southeast corner of Section 31, T24S, R28W (information from GMD-3) particularly for the static water level. We have estimated the land surface elevation at each well site by its location on the topographic map, and the SWL and their approximate elevations are as measured by the driller on the date listed.

Table 2 was prepared later after Mr. Doug Althouse, Assistant Feedlot Manager, measured the SWLs of nine of the stockwater wells on March 21, 2013 and three of the irrigation wells on March 25, 2013. On this table we have shown the DWR C.I.N. No. along with the legal description and file number(s) of each well. (These are followed by the Owner's numbers of the wells on two separate dates, and we suspect the differences are caused by two different numbering systems.) In any event, the C.I.N. numbers, legal descriptions and file numbers are correct. The SWL elevations have been figured using our estimates of the surface elevations.

The surface formation throughout this area is the High Plains Aquifer made up of unconsolidated Pleistocene deposits lying on the Ogallala Formation of the Pliocene and Upper Miocene series, both of which are primarily made up of sand, gravel, silt and clay deposits. The Pleistocene deposits tend to be looser and more productive than the below lying Ogallala, but it is difficult to pick the top of the Ogallala without having more information than is presented on the normal drilling log. The bedrock below the Ogallala is the Carlile Shale of the upper Cretaceous series. It is not an aquifer.

Figure 2 is a portion of Plate 1B from the Kansas Geological Survey's Technical Series 20 entitled Enhancement of the Bedrock-Surface-Elevation Map Beneath the Ogallala Portion of the High Plains Aquifer. Western Kansas by P. Allen Macfarlane and B. Brownie Wilson. The portion shown on Figure 2 is all of Gray County except for the southern part of the bottom tier of townships (T29S) in Gray County, with Finney County to the west and north, Hodgeman to the northeast, Ford to the east, and Haskell to the west. Note on Figure 2 that we have marked the south line of the north tier of townships (T24S) in Gray County, and that we have drawn the north-south line between R28W and R29W which runs through your property along the east side of Sections 24 and 25 and the west side of Section 19 (see Figure 3). Then back on Figure 2 note that this same north-south line runs through the middle of a low elevation bedrock area outlined by the 2500' contour line. This indicates that a channel was cut into the shale formation and then

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KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: MIDWEST FEEDERS, INC.

BY: FCM DATE: 2/15/2018

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ESTIMATED STOCKWATER USE QUANTITY FOR CURRENT AND PLANNED FACILITY CAPACITY

CURRENT CAPACITY = 59,320 HEAD BASED ON CURRENT KDHE PERMIT

MAXIMUM REASONABLE USE: CURRENT AND PLANNED CAPACITIES

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> → ADDITIONAL SUPPLY WILL BE OBTAINED THROUGH CHANGE OF USE FROM IRRIGATION TO STOCKWATERING

LOCATION: SEC. 19 T24S R28W AND SEC. 24 & 25 T24S R29W, GRAY COUNTY, KANSAS

CHECKED BY: CSG DATE: 2/26/2018

PLANNED CAPACITY = 74,000 HEAD BASED ON 2018 EXPANSION PROJECT

→ USE 112.00 AF

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634.10 AF 112.00 AF → USE 746.10 AF FOR BASIS OF AVERAGE ANNUAL STOCKWATER USE FROM 2018 1.1 → TOTAL PERMISSIBLE QUANTITY OF WITHDRAWAL DURING TERM OF WCA = (746.10 AF) x (3 YEARS) = 2,238.30 AF U 1 1 U U U \cup H L

PAGE 2 OF 2

THROUGH END OF TERM OF WATER CONSERVATION AREA PLAN

= (AVERAGE ANNUAL STOCKWATER USE) x (TERM) → TERM = 3 YEARS

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KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: MIDWEST FEEDERS, INC.

LOCATION: GRAY COUNTY, KANSAS

BY: FCM DATE: 1/19/2018

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AVERAGE ANNUAL WASTEWATER A AVERAGE ANNUAL WASTEWAT TOTAL WASTEWATER QUANTITY APPLIED

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C	Chapter 6	Irrigation \$ Design
	KS652.0605 State supple rrigation system design	ment -
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	Surface Irrigation - Improve	d (Delivery pip
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Garden City Field Office DIVISION OF WATER RESOURCES

(210-VI-NEH 652, IG Amend. KS9, Oct. 2006)

Π MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN ก П Local Geohydrologic Study 1 U П 11 П U 8 U A IJ U

APPENDIX 4

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April 22, 2013

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EXPERTISE IN WATER & WELLS

Frank Mercurio Page 2 April 22, 2013

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KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: MIDWEST FEEDERS, INC.

LOCATION: GRAY COUNTY, KANSAS

BY: FCM DATE: 1/19/2018

SUMMARY OF WASTEWATER (EFFLUENT) APPLIED TO MIDWEST FEEDERS, INC. PLACE OF USE AND EXPORTED TO NEIGHBORS FOR IRRIGATION PURPOSES

Midwest Feeders, Inc. generates wastewater from water tank overflows. The facility is also required to contain all stormwater runoff generated within the facility. This wastewater is ultimately used for irrigation purposes. A portion of the wastewater supplements groundwater used for irrigated crop production and is applied on the same place of use as the groundwater authorized by the facility's irrigation water rights. The remainder of the wastewater is exported to neighbors for use as supplemental irrigation water. Wastewater irrigation provides an additional source of recharge to the local aquifer utilized by Midwest Feeders, Inc.

Midwest Feeders, Inc. is required to keep a record of all wastewater application according to the terms and conditions of their KDHE and EPA water pollution control permit. The wastewater application (i.e. irrigation) quantities summarized in the following table were obtained from the LAND APPLICATION SUMMARY and EXPORTED WASTE REPORT included in the facility's annual reports to KDHE.

YEAR	WASTEWATER (EFFLUENT) APPLICATION			ER (EFFLUENT) O NEIGHBORS
	(GALLONS)	(ACRE-FEET)	(GALLONS)	(ACRE-FEET)
2012	30,519,216	93.66	58,542,544	179.66
2013	30,714,961	94.26	61,315,873	188.17
2014	36,298,161	111.39	115,994,456	355.97
2015	43,738,848	134.23	131,486,827	403.52
2016	48,433,009	148.64	108,663,691	333.48
2017	34,214,831	105.00	65,973,250	202.46
AVERAGE	37,319,838	114.53	90,329,440	277.21

AVERAGE ANNUAL WASTEWATER A AVERAGE ANNUAL WASTEWAT TOTAL WASTEWATER QUANTITY APPLIED

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Table KS6-1, Typical Efficiency for Irrigation Systems, in the NRCS National Engineering Handbook, Part 652, Irrigation Guide, indicates a system efficiency of 87% for center pivot sprinkler systems with nozzles near the ground. This is the type of irrigation system typically used by Midwest Feeders, Inc. and neighboring producers. This implies a potential recharge factor of 13% (100% - 87%).

 \rightarrow The average annual potential recharge from wastewater (effluent) irrigation = 13% of the average annual application = 50.93 acre-feet

CHECKED BY: CSG DATE: 2/26/2018

APPLICATION QUANTITY =	114.53 AF
TER EXPORT QUANTITY =	277.21 AF
OVER LOCAL AQUIFER =	391.74 AF

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Chapter 6	Irrigation Design
KS652.0605 Stat	aunnlement
irrigation system	
various types of irri KS652.0605(b) add systems. Section k sprinkle irrigation s	dditional technical d for the design of the gation systems. Section resses gravity irrigation (S652.0605(c) address
Table KS6-1 Typi	cal Efficiency for Irrigat
	Irrigation
Surface Irrigation	- Basic (Earthen conv
leveled)	- Basic (Earthen conv
Surface Irrigation tailwater reuse)	- Basic (Earthen conv
Surface Irrigation	- Improved (Delivery p
Surface Irrigation	- Improved (Delivery p
Surface Irrigation pipe)	- Improved (Tailwater
	nd Linear Move - Sprin
Center Pivot ^{1/2/} a ground	nd Linear Move - Nozz
Center Pivot 1/2/a	nd Linear Move - Nozz
Center Pivot and	Linear Move - Low En
Sprinkler - Solid s	set
0.111.1.1.1	n - Side roll
Sprinkler Irrigatio	
Sprinkler Irrigatio	rrigation (SDI)

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system	National Engineering Handbook Part 652
	Irrigation Guide

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.

n Systems

ystem Type	Efficiency (%)
vance ditch and siphon tubes or cutouts)	50
vance ditch, siphon tubes or cutouts, land	60
vance ditch, gated pipe, land leveled,	70
peline, gated pipe)	70
peline, gated pipe, land leveled)	75
euse, land leveled, delivery pipeline, gated	80
lers on top of pipe	80
es below lateral but > 6 feet height above	85
es near ground (in canopy)	87
gy Precision Application (LEPA)	92
	75
	70
	92

end gun, reduce the efficiency by 5%. corner system (sometimes referred to as a trailer

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Garden City Field Office DIVISION OF WATER RESOURCES

(210-VI-NEH 652, IG Amend. KS9, Oct. 2006)

5 MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN ก П Local Geohydrologic Study 1 U П 11 П U 8 U A IJ

APPENDIX 4

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Ground Water Associates, Inc.

1999 N. AMIDON STREET, STE. 218 . WICHITA, KS 67203 . 316-262-3322 P.O. BOX 3834 . WICHITA, KS 67201

April 22, 2013

Frank C. Mercurio, P.E. KLA Environmental Services, Inc. 1303 Yucca Street Scott City, Kansas 67871

Subject: Ground Water Situation Midwest Feeders, Inc.

Dear Mr. Mercurio:

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This letter is written to describe the geology and hydrology in the area of interest (in and around Midwest Feeders), and to provide our recommendations concerning the moving of certain existing water rights and the partial changing of the use made of some of your water rights. It is understood that your will pass this information along to the Division of Water Resources (DWR) with your specific requests for changes to your water rights. We have modified and/or prepared Tables 1 and 2 and Figures 1 through 3, and they are included with this report along with your water use reports for 2012 and the available drilling logs for some of your wells.

Midwest Feeders and the wells associated with it (stockwater and irrigation) are located in Section 19, T24S, R28W, and in Sections 24 and 25, T24S, R29W, Gray County, Kansas as shown on Figure 3 (your fold out map), which we have modified by adding information concerning the individual well sites and showing the locations of two cross sections we have prepared (Figure 1) to show the similarity of the deposits present at the various well sites in this area. And, we have used only the drilling logs that you could positively identify as being at a specific site.

We added the following data to Figure 3;

- site of a domestic well,
- (2) The well sites that we have a drilling log on have been circled in green (see Drilling Logs and Well Designs Section),
- (3) A green line shows the locations of the north to south and the west to east cross sections we have prepared (Figure 1).

(1) The Computer Identification Number (C.I.N.) to the well sites that the DWR shows on the yearly water use reports to help identify the individual wells in red, and we have shown a red T if there is a term permit existing on a well, and a red D to identify the '

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Garden City Field Office DIVISION OF WATER RESOURCES

EXPERTISE IN WATER & WELLS

Frank Mercurio Page 2 April 22, 2013

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All of the available drilling logs are included with this report, and you will note we have plotted the cross sections to show exactly what the driller has described. As an example note on the first log (DWR 4887 and 10639 - T - 5 - 1) that the driller shows "brown clay fine sand" from 90' to 110', and we have listed this as clay and sand on the cross section. Normally the driller will list the most prominent of the drill cuttings first and then the others that are with it. The drilling logs are marked with a red C.I.N. number and a blue owner's number.

Initially, we prepared a summary (Table 1) of the drilling logs, and we have identified them by using the C.I.N. and the section number. Note also that we have included data on a domestic well in section 24 and an observation well near the southeast corner of Section 31, T24S, R28W (information from GMD-3) particularly for the static water level. We have estimated the land surface elevation at each well site by its location on the topographic map, and the SWL and their approximate elevations are as measured by the driller on the date listed.

Table 2 was prepared later after Mr. Doug Althouse, Assistant Feedlot Manager, measured the SWLs of nine of the stockwater wells on March 21, 2013 and three of the irrigation wells on March 25, 2013. On this table we have shown the DWR C.I.N. No. along with the legal description and file number(s) of each well. (These are followed by the Owner's numbers of the wells on two separate dates, and we suspect the differences are caused by two different numbering systems.) In any event, the C.I.N. numbers, legal descriptions and file numbers are correct. The SWL elevations have been figured using our estimates of the surface elevations.

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Frank C. Mercurio Page 3 January 22, 2013

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filled in with the deposition of the Ogallala Formations. The channel continues to the southsoutheast, and the northern point of the 2450 contour line is four miles to the south-southeast of the southeast corner of T24S, R29W.

The north-south cross section (Figure 1) shows a significant sand and clay bed that bottoms at an elevation of 2544' in 5-24, at 2536' in 3-24, at 2517' in 7-25 and 2502' in 9-25, and the SWL's in these same four wells on March 21 or 25, 2013 were 2605, 2627, 2626 and 2614. (We suspect that the 2605 elevation at site 5-24 was due to very recent pumping of that well because on that same date well T in section 24 (File No. 22, 122) had a SWL of 2627.) In any event, the bottom elevation of the aquifer and the SWL would cause the water to move to the southsoutheast. And, the observation well near the SE corner of Section 31 showed a SWL elevation of 2579'.

It is our understanding that for the sake of Midwest Feeder's cattle feeding and irrigation operations they need to move a portion of their existing water rights from two wells in Section 24, T24S, and R29W to a well in Section 25, T24S, R29W, along with making changes to the use made of the water. The first well in Section 24 is identified as T and 5 on Figure 3 and Table 2, and it is covered by File Nos. 4887 and 10,639, along with a term permit. It is located 900' north and 2630' west of the southeast corner of Section 24. Based on our discussions, you would like to retain 30 acre-feet of water from this well for stockwater use, and the remainder of the available water needs to be transferred to Well No. 2 (see Figure 3) in Section 25 for irrigation use. This well is covered by File No. 10639, and it is located 3440' north and 2525' west of the southeast corner of Section 25. By my calculations this is a move of 2690' to the south.

The second well that needs to have changes made to its point of diversion and the use made of its water right is marked with a T (for term permit) on Figure 3 and Table 2, and it is covered by File No. 22,122 along with the term permit. It is located 2800' north and 100' west of the southeast corner of Section 24. Again based on our discussions, you would like to retain 70 acrefeet of water from this well for stockwater use, and the remainder of the available water from this water right transferred to Well No. 2 (on Figure 3) in Section 25 for irrigation use. This is the same well as listed in the previous paragraph so that puts it 3440' north and 2525' west of the southeast corner of Section 25. By my calculations this is a move of 5200' to the south-southeast.

We are aware that both distances quoted (2690' and 5200') exceed the rules and regulations of the Southwest Kansas Groundwater Management District #3 (GMD3) and the DWR, However, we suggest that you request a waiver from the distance regulation from the regulatory agencies based on the physical characteristics of the aquifer, which are (1) The primary aquifer at all three well sites where changes are requested to be made is the Ogallala, and the significant sand penetrated near the bottom of the wells appears to be the same bed at all six well sites in the cross sections,

- (2) The water in this area is basically flowing to the south-southeast following the filled in bedrock channel.

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(3) The requested water diversion point keeps the water pumping site near the center of Midwest Feeder's property, and,

(4) No additional water is being requested, and in fact the change from irrigation to stock use for some of the water will probably result in the existing water rights being slightly reduced.

[']The flow and direction of flow of the water should not change in this area due to the reasons listed above. And due to the continuous use of water in the feeding operations, it would be very difficult (and expensive) to conduct certified pumping tests on the wells to provide more proof of our opinion. I do not believe it is necessary.

Please advise us if you have comments or questions concerning this letter.

Very truly yours,

Robert L. Vincent

Robert L. Vincent, C.P.G., P.Hg. Ground Water Associates, Inc.



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Mid west Summary	Feeder vof Wei	I Constru	ction in and in	Sec. 29 8 Sec. 19,	25, T 245 T 245, F	R 291 2 28 W	V, Gray Co.		
	DWR Nos.	Sur, Eler, 8		135. of 5d.	Sercen	SWL 8 Eler	Test Cap. 8 DD	Sp. Cap. 8 Date	
t Sec. No.		Casing Dia,	D FICY,	f Elev.	Setting	8 416-		0	2
F	4887-IR	2765	261'	256	160- 220'	150	135 0 pap	2,60 gpm/ft	
5 24	10639-IR		2504'	2509'		2615	@ 32'00	12 Dec 11	
		-							
3	10639-St	2761	270	267	127-147	120	Est.		Z
24	32786-St		2491	2494	167-187	2641	250 310 m	14 Aug 98	2
					202-227				
					247-267				4
7	10639-5t	2761	277	272	165-185	120			T
25	32787 - 57		2484	2489	199-235	2641		9Apr 79	3
									3
5	29614 - IR	2776	279	271	185-205	149	677 gpm	6.70gpm/ft	2
25	π.	16	2497	2505	215-24-1	2632	@ IDI'DD	11 May 77	.1
					251 - 271				+
9	29614-IR	2776	282	274	178-218	156	300 910 -	8.57 gpm/st	3
25	27077 511	12	2494	2502	233-253	2620	@ 35'DD	27 Dec 03	
Redrill of 5					269-289				
Domestic		2760	253	250	202-222	120			
24		6	2507	2510	232-252	2640		21 May 93	
				•					
3	10999 - 51	2750	245	245	178-138	138	160 gpm	1.57 gpm/ft	-
19		16	2505	2505		2612	@ 102'00	8 Jul 97	
	·			-				.	
Obs. Well i		2754	265			175		1	à
R28W 31 D	D		2989		• •	2579	RECEIVED	Jan 13	20
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8	10999-51	2756	240	235	145-245	115	AUG 08 2018		-

		Ground W	ater
Ь		Subject Midwest	Feede
Π	DWR C.I.N.No.	Legal Description	File
	5 X T	Stockwater Wells 900'N + 3630W of SE cor Sec 24;	488 1063
	7	2800 N & 105 W OF SE Cor Sec 24	22/32
	7	3667 N & 1248W of SE Cor Sec 25	1063 3278
	7	325 N & 1700 W of SE Cor Sec 19	1099
П	6	25 N & 1400 W of SE cor Sec 19	1099
	3	102 N & 2514 W of SE cor Sec 24	106 3
	Б	5213N & 2388 VI of SE car See 25	10639
	8 .	2098N & 1844 W of SE Car See 19	10999
	10	2393N \$ 1844 W of SE Car See 19	10999
	τ -	Indicates Term F	ermi
8	2	Irrigation Wells 3440 N \$ 2525 W of SE cor Sec 25	1063
	3	2220 N \$ 1990 W of SE COT Sec 25	2212,
	9	170 N & 4030 W of SE COT SEC 25	2961
	0bs, We II	Observation Well SE of SE Sec 31 Sec 31, T245, R28W	

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22	2.,	9	2762	135 2627
639 786	7	3	2761	135 2626
99	7	4	2755	153 2602
199	6	5	2750	136 2614
39	3	1	2761	134 2627
39	6	2	2765	149 2616
99	\$	G	2757	152 2605
99	10	7	2757	140 2617
i j' T'				
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21	3	2	2765	154- 2611
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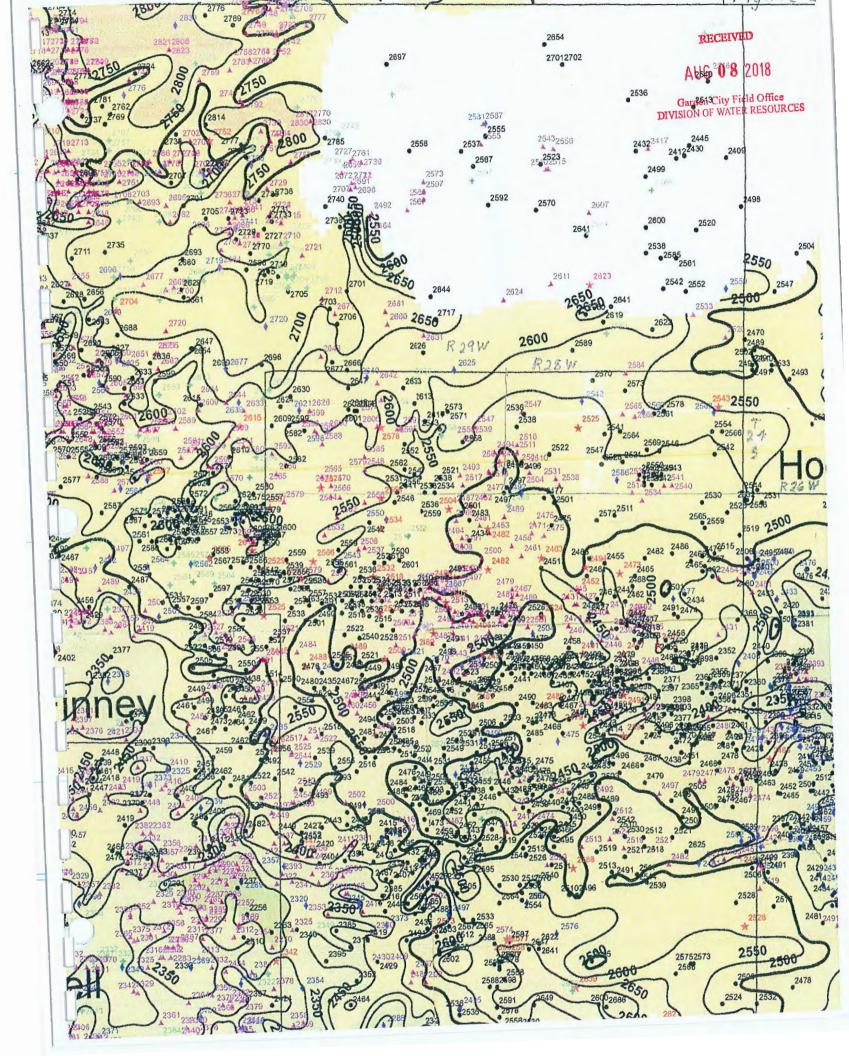
eders' property in Sec. 24 \$ 25, T 245, R 28 W, Gray Co. (See Figure 3)

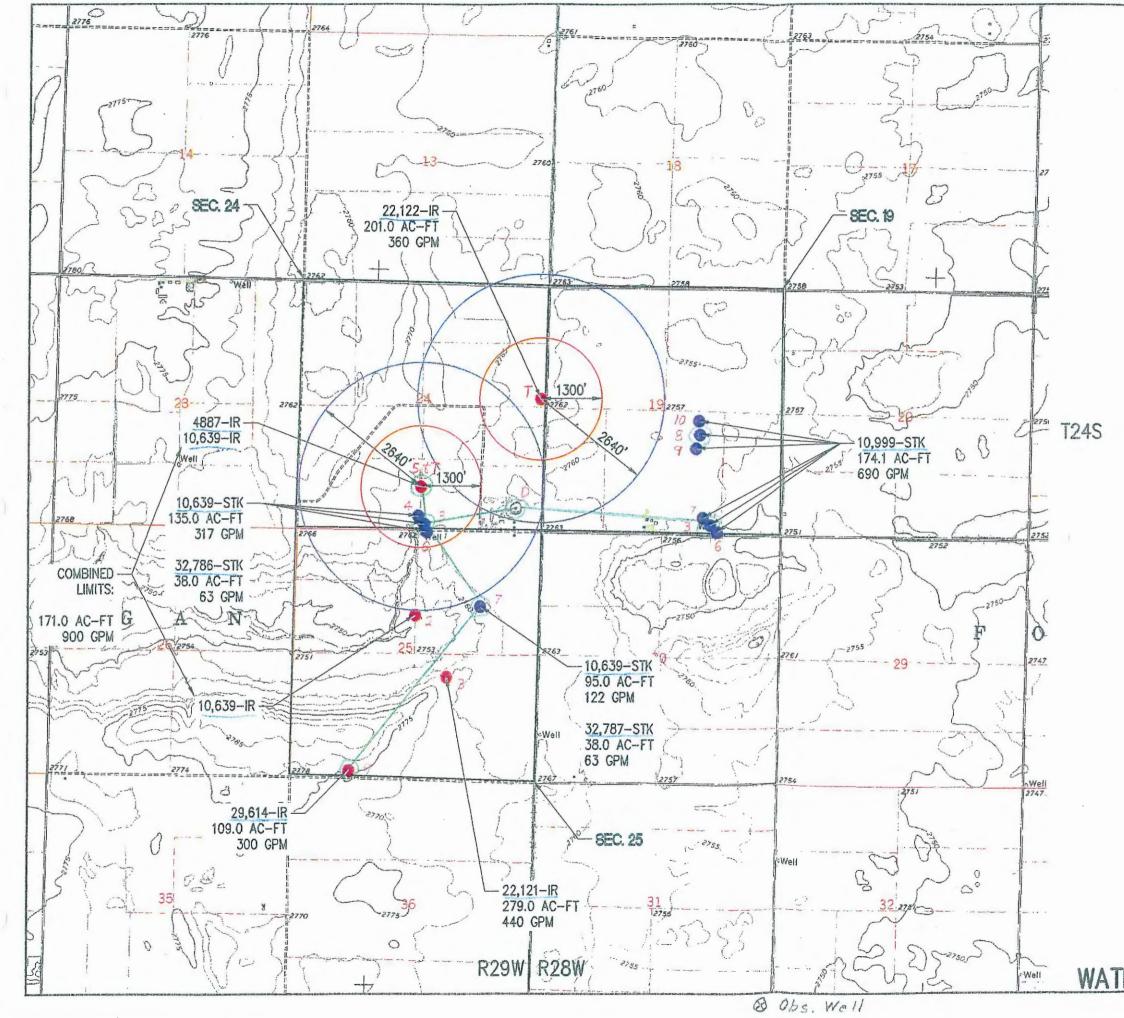
South 9-25 25 . . 8 Cal CI · Sd Cit 5d Sd _ . . - Sd CI85d - Sd sd CISSA tsa 54. <u>CIYS</u>d Sd sd t ci sd = sd t Cl Sd CT____ Shale 2615) as measured by the driller on RECEIVED . AUG 08 2018 ÷ . Garden City Field Office DIVISION OF WATER RESOURCES East 3-19 . CI & Cal & Gyp 5d CI & Sd Sd & CI CI & Sd - ---Sdtcl C1 8 50 Sd CI & Sd Sd &CI -CI 8.5d Sd & CI -CI8Sd Shale - - -. ... Well No, 5 in Sec 24 (see Figure 3)

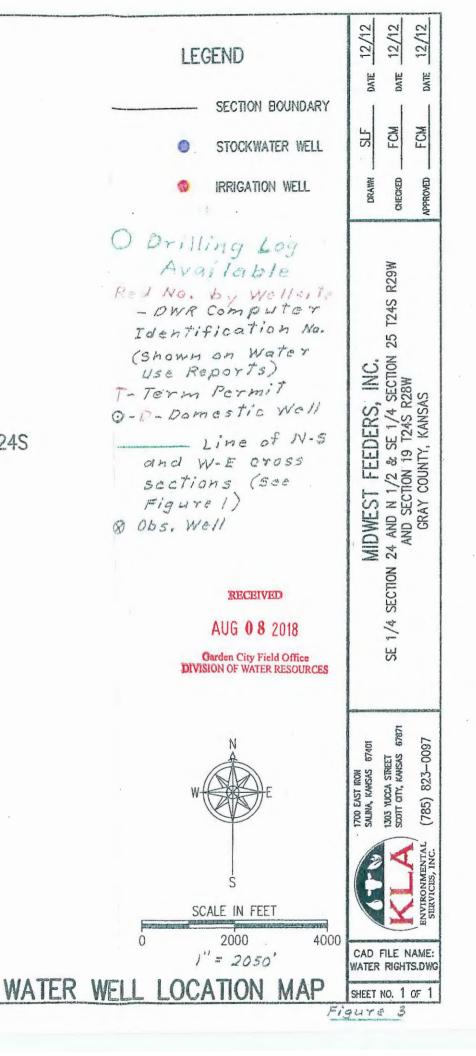
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Figure 1







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	LEGAL DESCRI						INCL	UDE MULTIPLICATIO	N FACTOR			PUMP		TYPE	TYPE	WELL	DATA
	QUALIFIERS	SEC TWP RNG	CIN	СНМ		ACRES	BEGINNING WATER METER READING	ENDING WATER METER READING	QUANTITY OF WATER	UNIT	HOURS	RATE	CROP	OF	OF	DEPTH TO WATER	DATE
4887-00 A	990N 2630W	24-245-29W		VERS	101	1	•		• •			•					
10639-00 A	990N 2630W (A: 230' S OF PRE	24-245-29W /IOUS POINT (5 F DI	VERS	101	1	Report Un	cer 4887-00									
10639-00	3440N 2525W	25-245-29W	2	Y	10	210	4/74,028	646910	172.89	A.			2,5	3	N		
22121-00	2220N 1990W	25-24S-29W	3	Y	1	246	17404300	91389200	7.398-1900)	G	1.P	ump	Z, 5	3	N		
29614-00 A	170N 4030W KA: 70'N & 70'W O	25-24S-29W PREVIOUS W		y			67285800	79569100	12278300	6	1/109	ether	2,5	- 3	N		
	1887 + 10639 be reported a	s stocke			-34		0	23,060, 900	23,060,900	G							
	ler term per	1 20129	9880	1			0	24,287,600	24, 287,600	G							

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FIELD YEAR OFFICE 456 Total acres irrigated. CO GMD
 YEAR
 USE
 OFHCE
 CO GMD

 12 37213 1 1 - IRR GC
 GY 03 72 230

 I submit the report as the best information available. I understand that knowingly falsifying the report is a violation of state law.
 I understand

 Visco
 I - 31 - 13

 SIGNATURE
 DATE

 CIRCLE ONE:
 OWNER
 AGENT

......

MIDWEST FEEDERS INC 5013 13 RD INGALLS KS 67853-9023

TELEPHONE NO. (620) 257-0113 CIRCLE ONE: CELL WORK HOME

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Identification C.I.N. - Computer No.

. .

Garden City Field Office DIVISION OF WATER RESOURCES

RECEIVED

	IMPORTANT: YOU MUST RE This is the annual Water Use Report required to retain all	PRO	TECT YOUR R	IGHT TO USE V	NATER	nuction	na (or Par	rt A on the		lde of this p	age. Al
	This is the annual Water Use Report <u>requires</u> to return an esant are instructions for name and address changes, white umbors listed below. If you have any questions on how to c se Report for your records, and return the original report to:										
			Kansas Depart Division of V 109 SW 9th	e Coordinator Iment of Agriculture Vater Resources h, Second Floor was 66612 1283	COMPLET	EAN	ID RE	TURN	BY MA	RCH 1,	<u>2013</u>
P/	ART A: POINTS OF DIVERSION										
		L		Water Meter Data		U				Well Data	
	Water Right Legal Descriptions File Number Point(s) of Diversion		Beginning Water Meter Reading	Ending Water Meter Reading	Metered Quantity Of Water	N	Ноитя	Pump Rete (gpm)	Well Depth	Depth to Water	Date
AK	10639-00 102N 2514W 24-248-29W 3 At GEO CTR-290'N OF PREVIOUS WELL		1								
AR	10639-00 270N 2640W 24-248-29W 4	- 9	9,099,100	14,204,300	15,105,100	C :	42				
	10639-00 5213N 2388W 25-248-29W 6	8	3,373,590	0 14,204,300	23,529,580	6 :	¥/		- - -		
	10639-00 3667N 1248W 25-248-29W 7	. 2	\$,469,400	53,223,400	24,754,000	G	2.3				
AR	10999-00 175N 1550W 19-248-28W 3	. 11									
) . AF	10999-00 25N 1400W 19-248-28W 6 CA: BATT 1 OF 2 WELLS		2,768,400	79,232,000 350,700	16,463,600	61	¥4		· .		
Al	10999-00 325N 1700W 19-248-28W 7 CA: BATT 1 OF 2 WELLS		13,841,000	350,700	3,738,000	6	45				
A	10999-00 2098N 1844W 19-248-28W E KA: GRO CTR - 948' N & 506' E OF PRE	IVICUS	WELL								
-	stimate the average head count for the year.		50	,324 Call	83,590	, 2 H	80	Sub-	Tata	1	
E	stimate the <u>meximum</u> head count of the year. () مرابع حمال مربعة مربعة من المربعة من من من المربعة من مربعة من المربعة من المربعة من المربعة من الم	ring the		3,664 Catt			ogs	•			
	D motor replaced 9-3-12 mater	recelia									
9	when removed \$7,229,100.		•	Date: I submit th knowingly	ils report as the falsifying the rep	best in	ione: (formall a violat	on availa lon of sta	ble. I un te taw.	derstand t	hat
_		7 03	75 1005								
-	ffice Use FO C	0	GMD			Name	e (Printe	d or Typ	od)		
	MIDWEST FEEDERS INC					Na	me (Slg	inature)			
*	INGALLS, KS 67853 9023			0	wner _		_ Tenar	nt		_ Agent	
DW	NR 1-511 (Revised 10/19/2010)		STOCKWATE	r use report						RECE	
									1	AUG O	8 20

	PORTANT: YOU MUST REP	PROTECT YOUR N	UGHT TO USE V	AIER						
This is the annual Water Us present are instructions for nan numbers listed bolow. If you i Use Report for your records, and	e Report <u>required</u> to retain all Ves ne and address changes, which asve any questions on how to com d return the original report to:	ied or Appropriation Rig include Information ne plete this form, please o	his. Please begin I weded if you have ontact the Water U	by reading the inside disposed of you se Coordinator at	tructi ur Inf (786)	ons for Pa lerest in a) 296-1054	nt A on the any one of Please n	reverse si r more of nake a cop	de of this p the water by of the er	age. Also right file tire Water
PART A: POINTS OF DIVER		Kansas Depar Division of 4 109 SW 9t	e Coordinator Iment of Agriculture Vater Resources h, Second Floor nsas 86612 1283	COMPLET	<u>e a</u>	ND RE	TURN	BY MA	<u>RCH 1.</u>	<u>2013</u>
	•	1	Water Meter Data		11		1	1	Weli Dala	
Weter Right File Number	Legal Descriptions Point(s) of Diversion	Beginning Water Meter Reading	Ending Water Metor Reading	Metered Quantity Of Water	UN-T	Hours	Pump Rate (gpm)	Well Depth	Depth to Water	Dale
. 10999-00 1803N 1 AKA: BATT.1 OF 2 WE	844W 19-248-28W 9	16,102,000	35,578,000	22,476,000	G	46				
. 10999-00 2393N 1 AKA: BATT 1 OF 2 WE	844W 19-248-28W 10 LLLS	133, 223,000	150,437,000	17, 214,000	6	#7				
. 32786-00 102N 2 AKA: GEO CTR-290'8	514W 24-248-29W 3 OF PREVIOUS WELL	Report Under	10639-00							
. 32786-00 270N 2 AKA: BATT 1 OF 2 WF	640W 24-248-29W 4	Report Under	10639-00							
. 32786-00 5213N 2 AXA: OLDWUSE-BATT, 1		Report Under	10639-00							
. 32787-00 3667N 3	248W 25-248-29W 7	Report Under	10639-00.	¢		1				
				170 00		191	Tota	ļ		
Estimate the <u>average</u> hea Estimate the <u>maximum</u> he	ed count for the year. The count at one time during	g the year.	Cattle			Hogs	1019	,		
			Date:	is report as the	best	phone: (_ t Informat) Ion availa	ble, l un	derstand	
12 37213 1 2	- STK GC GY	03 75 1005	knowingly	faisifying the re	port	is a viola	tion of sta	ite law.	1	
Office Use	FO CO	GMD			Na	me (Print	ed or Typ	ed)		
MIDWEST FE					1	Name (SI	gnature)			
5013 13 RI INGALLS, F			0	wner .		Tena	nt		_ Agent	
DWR 1-511 (Revised 10/19/201	0)	STOCKWAT	er use report							erved 8 201
									nou u	0 201

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Drilling Logs and Well Designs

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RECEIVED

AUG 08 2018

WATE	R WEI	LL RECOI	RD	Form	WW
		OF WATER		Fraction	
	nty: Gra			1/4 NW 1/4 S	
				; if unknown, distanc	
1				t owner's address, ch	еск п
Ap	prox. 9 m	illes North o	r Ingalis Ka	ansas	
2.01		ELL OWNE	I IVIIGITY	est Feeders Inc	
	#, Street A y, State, Z	Address, Box		13 RD	
Cit	y, State, Z	TL COOC	· Ingalis	s, Ks 67853	
	CATE WE				
	HAN "X			F COMPLETED WE	
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				np test data: Well wi	
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W	1 1			meter 17, 1/2 in. to	
			Domestic	R TO BE USED AS:	
S	W 1x 50		Irrigation		
	1 [1	/	Q	al/bacteriological sam	
	S			o/day/yr sample was s	
	1 mile	Wa] No
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Casi	ng diamet	above land su	In. 10 . fr T	in., Weig	tht 6
				MATERIAL:	
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1	Brass	Galvaniz 🗌 Galvaniz		None used (oper	n hole
] Continuo			Gauze wrapped	
1.	Louvered	shutter	Ley punched	Wire wrapped	
SCRE	EN-PERF	ORATED IN	TERVALS	: From <u>160</u>	ft. 1
	GRAVI	L PACK IN	TERVALS:	From	ft.
	und i i			From	., ft. 1
6 GRC	UT MAT	TERIAL:] Neat cen	nent [] Cement gro	out
	ntervals:			to	mč
What 19	Septic tar	st source of p	Lateral I		
] Sewer lin	es	Cesspoo	1 Sewage lagoon	
] Watertigh	nt sewer lines	Seepage		
- Dire		n well North	LITHOLO	GICLOG	
0	2	SURFACE	DITTODO	dio 100	1
2	40	BROWN CL	AY CALIC	CHE	1
40	56 .	WHITE GR	EY CLAY	, CALICHE	2
56	79			DURSE, FEW LEDG	
79	90	SAND FINE			2
90	110	BROWN CI		SAND	2
110	140			LIMEROCK	
155	and the second of the second of the second of the second s		the second secon	COURSE SM GRV	
173	188 (LIMEROCK	
7 CON		R'S OR LA	NDOWNE	R'S CERTIFICATI	
under n	ny jurisdic	tion and was	completed	on (mo/day/year)	
Kansas	Water We	a pape of	YDRO RI	No. 145 This	wat
INSTRU	CTIONS: 1	Use typewriter o	r ball point pe	n. PLEASE PRESS FIRM	LY and
		Variation Desired	1 C 1714	h and Environment, Burea	u of V
(white, b	lue, pink) to	Kansas Departi	nent of Healt	TTD WELL OUT TD	d sat-
Telephon	e 785-296-5	522. Send one v/waterwell/inde	copy to WA	TER WELL OWNER and	i retai

				NEW WELL
				4887 & 10639
WWC-5			r Resources App. No	o, L
W 14 SE	/4	24	Township No. T 24 S	$R 29 \square E \square W$
& direction	Glob	al Positioning	System (GPS) in	formation:
eck here \Box .	Lati	tude:	64.N 521 W	(in decimal degrees) (in decimal degrees)
	LOR	ation:	861.M	(In decimal degrees)
	- Datu	m: T WGS 84	4, 🗋 NAD 83, 💋	NAD 27
	Colle	ection Method:		
	¥ ×	GPS unit (Mak	e/Model:)
	Est.	Accuracy: $\Box <$	$3 \text{ m}, \square 3-5 \text{ m}, \square$	$5-15 \text{ m}$, $\square \text{ Land Survey}$
			· · · · · · · · ·	Cap.
LL 240		ft.		
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202	tt. below	land surface n	neasured on mo/da	ay/yr14:44:
ter was. AHA	f	t after	hours pump	bing135 gpm bing gpm
240	.ft. and	in.	to	a.
D Public w	ater supr	oly 🗌 Geo	othermal 🔲 Ir	jection well
] Oil field wa	ter supp	ly 🗌 De	watering 🛛 🔿	ther (Specify below)

		tment?	Yes 🗹 No	
ubmitted		*****		
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in h+ 6.99	. 10 be/	HI Wall thick	ameter	in. to
116 .TCAT		it., wan uno	Micsa of gauge 110	5 - 655755 February 1999 - 1999
[Other ((Specify)		
hole)				
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. ft. to240.	•••••	ft., From	ft. ta	o ft.
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111			PIOIII	16, 10
Livestock	pens	Insecticide s	storage 🗌 Other	r (specify below)
Fuel stora	ge	M Abandoned	water well	
Fertilizer :		Öil well/gas		
		ell	() (
FROM	TO 197			GING INTERVALS
188	205	BROWN CL		
205	205		TO SMALL FEV	N CLAY
205	256		AY FEW SAND	Y ULAT
256	261	YELLOW C		RECEIVED
261	280	SHALE		
			A	UG 08 2018
				den City Field Office
				1
				ted, or plugged
				owledge and belief.
				1.15/12
Y and PRINT al	by (S	ignature) Liter	nd object the correct	nswers. Send three copies
of Water, Geol	ogy Sectio	n, 1000 SW Jack	son St., Suite 420, To,	peka, Kansas 66612-1367.
retain one for y	our record	ds. Include <u>fee</u> c	of \$5.00 for each cons	structed well. Visit us at

1				WATER	WELL R	RECORD	For
LOCATIO	N OF WATER 035 GRAY		Fraction SW		1/4	SE	1/4
		ction from ne ES NORTH & 1/					addre
	ELL OWNER: . Address,	MII Box # : 050					
City, S	tate, ZIP	code : ING	ALLS, K	56	7853-90	23	
1	WELL'S LOC IN SECTION		3		TH OF C		
				WELL'	S STATI Pu	C WAT	
1 -	NW			Estim	ated Yi	eld	250
M i W l l			E	Bore	Hole Di	ameter	^
e -	SW			WELL	WATER T	O BE I	JSED #
					chemic s, mo/d		
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10,639-STK \$ 32,786

m WWC-5 KSA 82a-1212

		T 24	Number S	R 29	
s of well if loc	ated wit	hin city?			
Board	of Agrid	culture, D	ivision of	Water Reso	ources
Appli	cation Nu	umber: 10,	639 & 32,78	6	
LL 277 EL Encountered			2 0.5	+ 3	0. #+
EL 120 ft. bel					
: Well water was					
pm: Well water w	as O	ft. after	0 hours	s pumping	0 gpr
17.5 in. to	277 ft.	, and	in. to	0 ft.	
S: 03 FEEDLOT					I
logical sample su e was submitted	ubmitted		ment? No ; Water wel	ll disinfe	ected? Yes
S: GLUED in. to 0 ft.,					
S: GLUED in. to 0 ft., lbs/ft. Wall th ft., From 207 f	ickness c	pr gauge No 227 ft.			
S: GLUED in. to 0 ft., lbs/ft. Wall th ft., From 207 f ft., From 247 f ft., From 0 f	ickness of ft. to ft. to ft. to	or gauge No 227 ft. 267 ft. 0 ft.			
S: GLUED in. to O ft., lbs/ft. Wall th	ft. to ft. to ft. to ft. to ft. to	or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	o. , 410		
S: GLUED in. to 0 ft., lbs/ft. Wall th ft., From 207 f ft., From 247 f ft., From 0 f ft., From 0 f ft., From 0 f	ft. to ft. to ft. to ft. to ft. to	or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	o410	w many fe	et? 290
S: GLUED in. to 0 ft., lbs/ft. Wall th ft., From 207 f ft., From 247 f ft., From 0 f ft., From 0 f ft., From 0 f	ft. to ft. to ft. to ft. to ft. to	or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	o410	w many fe	et? 290
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S: GLUED in. to 0 ft., lbs/ft. Wall th ft., From 207 f ft., From 247 f ft., From 0 f ft., From 0 f ft., From 0 f t., WELL	ft. to ft. to ft. to ft. to Ft. to	or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	o410 O ft. Ho PLUGGING I. RE	w many few NTERVALS	

o the best of my knowledge and belief. Kansas ell Record was completed on (mo/day/yr) 08/14/98 by (signature)

	ATION OF WATER	R WELL: Fraction SW 1/4 SW 1/4 SE 1/4
2 WAT	ER WELL OWNER	·
-		code : INGALLS, KS 67853-9023
	78 190 90 200 00 226 126 251 151 258 158 267 167 270	01 CLAY 20 LIMESTONE
		ANDOWNER'S CERTIFICATION: This water well /day/year) 07/28/98 and this record is true

1

rm WWC-5 KSA 82a-1212

Section Number	Township	Number	Range	Number
24	T 24	S	R 29	W

Board of Agriculture, Division of Water Resources

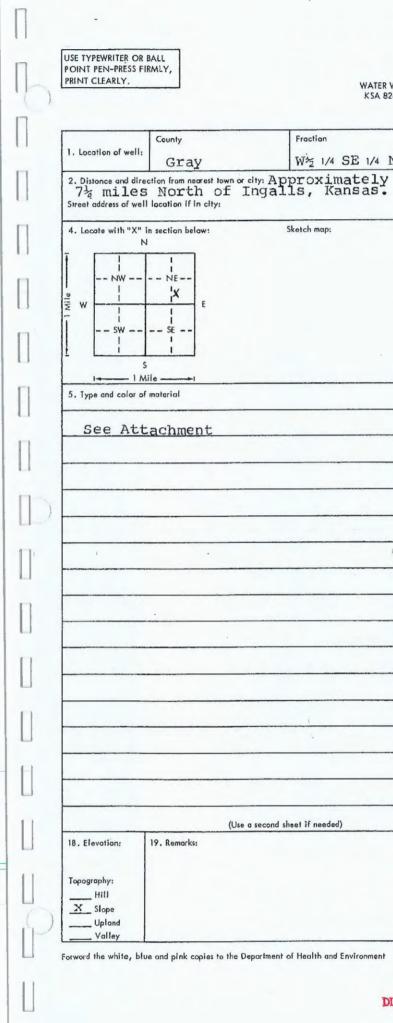
3 & 3 conti.

Application Number: 10,639 & 32,786

RECEIVED

AUG 08 2018

as Constructed under my jurisdiction an	d was
o the best of my knowledge and belief.	
ell Record was completed on (mo/day/yr) by (signature) Juny J	Reichmith
0	



WATER WELL RECORD KSA 820-1201-1215

Kansas Department of Health and Environment-Division of Environment (Water well Contractors) Topeka, Konsas 66620

10,639-STK

(7)

	Section	number	Township number	Rang	je number	
E 1/4	25	5	т 24 s	R	29	ERW)
3. Owne	r of well	L	oewen Feeders	1		
R.R. or s			O Rudy Loewe			
City, sta	te, zip c	ode: I	ngalls, Kansa		67853	
			6. Bore hole dia. 175in	. Comp	letion date -	
			Well depth 275_ft.			
			7 Cable tool Ratory			
			Hollow rod Jetted			
			8. Use: Domestic P			
			Irrigation A Lawn O			
			9. Casing: Materia Stee			
			Threaded WeldedX	Surfo	Ice 12	in.
			RMPPVC			
	- 1	T	Dia 51.8275 ft. dep Dia in. to ft. dep			
	From	То	10. Screen: Manufacturer's	-		
			Doerr	Scr	een r	
			Slot gauze 060	- Dia.	- 8 70	5
			Set between _165			ft.
			ft. c	and	235	ft.
			Gravel pack? Yes Size ra	nge of r	naterial_#.	<u>L Fin</u>
			11. Static water level: <u>120</u> ft. below land sur		1/0 mo	/day/yr.
			12. Pumping level below land			
			ft. after			
	T		ft. after I			
			Estimated maximum yield			m.
			13. Woter sample submitted: Yes X No	Date	mo	./day/yr.
			14. Well head completion:			
			Pitless adapter	12	Inches above	grode
			15. Well grouted? Yes			
			With: X Neat cement			Concrete
			Depth: From ft. to			
			16. Necrest source of possible ft Direction	est	Type Fe	ed T
			Well disinfected upon comple	tion?	Yes .	X_No
			17. Pump:	X	Not installed	
			Manufacturer's nome Model number	_ HP _	Vo	14
			Length of drop pipe			-g.p.m.
			Туре:		,,	3 · P · · · · ·
			Submersible		Turbin	1
			Jet Centrifugal		Recipro Other	ocoting
			20. Water well contractor's c	ertifica		
			This well was drilled under my			report
			is true to the best of my know			
		1	Henkle Drilli Business name	ng&		45 ense No.
			Address BOX 639	Gar	dencit	Y.KS
REC	CEIVED		Signed Druces	in	multate	4/19
p cost of		-	Authorized repr	esentat	VA	-1106-0.1622S

AUG 08 2018

:	STRE	ET AD	DRES	s	Loewen Feeders Ingalls, Kansas
					UARTER NE SECTI
:	LOCA	TION	At	the s	SE corner of the F
Г	%	FC	OTAC	E	
		From	Pay	To	DESCRIPTION OF S
E		0		.3	. Top Soil
L		3			Brown clay
L		20			Brown clay, cal
		57		and the owner of the	Sand fine to me
L		70	_	8.0	and the second
+		80			Brown clay and
1		95			Sand fine to me
+		107	27	120	
+	55	120	31	157	
F		157		165	used water. Brown clay with
1	60				Sand fine to me
F	~~		-		white rock. Loo
Г		184		200	Brown clay - st
E	65				Sand fine to me
L					gravel, some ti
L					Loose - used wa
	20	244	16	260	Brown clay, san
-	70	260	12	272	Sand fine to me
\vdash	-				gravel, also sm
-		272		277	Brown clay
-		277		280	Shale
\vdash					
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L	(in) and the second	-			
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1					
-		-			
-					
		EN CIT			HENKLE DRILLING

TEST LOG

DATE 3/8/79	
TEST # 1 E. LOG Yes	
DRILLER Rector	
ION 25 TOWNSHIP 24 RANGE 29	
Feed Lot.	
Feed Lot Well Location	
Static Water Level	
STRATA Proposed Well Depth	
liche and cemented sand,	
med coarse and small gravel.	
liche and cemented sand.	
sand. Fairly loose.	
ed coarse and small gravel.	
sand med coarse. Used water.	
ed coarse and small gravel. Loose -	
h small sand sts.	
ned coarse, small gravel with small	
ose - used water.	
ticky.	
ed coarse with a few small to med	
iny white rock with very fine clay si	s.
ater.	
nd with sts of broken white rock.	
ed coarse with a few small to med	
mall white rock. Loose - used water.	
TOTAL DEPTH OF WELL 275'	
Set up facing North	
Dig pit on the East	
ALCOIV.	D
0.01	2010
AUG US	2018
Garden City Fie DIVISION OF WATE	
DIVISION OF WATER	RESOURCES
G & SUPPLY CO., INC. SUBLETTE, KS CN HEADQUARTERS Phone 675-4311	
INDUSTRIAL WELLS * * * * STOCK WELLS	
DIOCK WELLS	

Ot Deconti.

m 0 [][] 17 Н Π 1 11 U 11 \cup 1 1 U E 6

Drilling Logs and Well Designs

F

RECEIVED

AUG 08 2018

WATE	ER WELL RI	ECORD		Form V	WW
	CATION OF W			Fraction	
	inty: Grav			1/4 NW 1/4 S	
				if unknown, distance	
1				owner's address, che	ECK I
Ар	prox. 9 miles N	lorth of Ir	igalis Ka	nsas	
1	TER WELL C			st Feeders Inc	
	#, Street Addres y, State, ZIP Coe		05013		
CIL	y, State, 211 Co.		Ingalis,	Ks 67853	
	CATE WELL				
	TH AN "X" IN			COMPLETED WE dwater Encountered	بابا
SEC	N N	WELI	'S STAT	TC WATER LEVEL	15
		1		p test data: Well wa	
N	W NE	EST.	YELD	gpm. Well wa neter 17, 1/2in, to	ter v
W		Bore I	Hole Dian	neter $1, 1, 1/2, \dots$ in, to	.24
			omestic	TO BE USED AS:	
S	W		igation		
				/bacteriological samp	-
*******	S 1 mile			/day/yr sample was s nfected? 🔽 Yes 🗌	ubm] N
	E OF CASING	Glued		nped □ Welded	Otl
Casi	ng diameter .8.	in	. to .24	Q ft., Diameter	
Casi	ng height above	land surfa	ice12	in., Weig	ht .
1 -	OF SCREEN O				
		tainless Stalvanized		PVC None used (oper	hole
	EN OR PERFOI				
	Continuous slot		slot	Gauze wrapped	<u> </u>
L'L	Louvered shutte		PUNChed RVALS.	Wire wrapped From <u>160</u>	Ц ft
bold.				From	. ft.
	GRAVEL PA	CK INTE	RVALS:	From. 25	. ft.
				From	
	OUT MATERIA Intervals: Fro		Neat cem	ent Cement gro	ut
	the nearest sourcest				
	Septic tank		Lateral li	nes 🔲 Pit privy 🕤	
	Sewer lines Watertight sewe		Cesspool	Sewage lagoon	H
- Dire	ction from well	North		n _ reedyad	<u>п</u>
FROM			THOLOC		
0		FACE			1
2		WN CLA			
40				CALICHE	2
56 79		D, FINE P		URSE, FEW LEDG	2
90		WN CLA	Y FINE S	AND	12
110	140 SANI	D FINE T	O MED		
140	155 BRO	WN CLAY	Y FEW L	IMEROCK	_
155				COURSE SM GRV	
173				IMEROCK	
				N'S CERTIFICATIOn (mo/day/year)	
Kansas	Water Well Cor	tractor's]	License N	o. 145 This	Wa
under t	he business name	of HY	DRO RE	SOURCES	
INSTRU	CTIONS: Use type	writer or ba	Il point pen	PLEASE PRESS FIRM	LY an
White, b	iue, pink) to Kansas	Departmen	i of Health	and Environment, Bureau	JUL
Telephon	le 785-296-5522. S	end one co	py to WAT	ER WELL OWNER and	Icia
Telephon	w.kdheks,gov/water	end one co well/index.h	py to WAT tml.	ER WELL OWNER and	Tela

				NEW WELL
				4887 & 10639
WWC-5			r Resources App. N	o, L
W 14 SE	1/4	24	Township No. T 24 S	$R 29 \square E \square W$
& direction	Glob	al Positioning	System (GPS) in	formation:
eck here 🗌.	Lati	tude:	64.N	(in decimal degrees) (in decimal degrees)
	Elev	ation:	Mal.M	(in decimal degrees)
	- Datu	m: WGS 84	4, 🗋 NAD 83, 💋	NAD 27
		ection Method:		
	L H	Digital Man/Ph) c Map, 🔲 Land Survey
	Est.	Accuracy: C	3 m, 3-5 m,	5-15 m, 🗌 >15 m
TT 240		ft.	2 3 3 7,2.	L' A SI
LL	fi	·····π.	A ('	a) ft
150	ft. below	land surface n	neasured on mo/da	3) ft. ay/yr <u>12.27.11</u>
ter was, 202		t. after 2	hours pump	ing. 135 gom
ter was	f	t. after	hours pump	ping gpm
.240	.ft., and	in.	to	a.
Public W	ater supp	ly ∐ Geo	othermal II	ijection well other (Specify below)
				other (Specify below)
		tment?		** , , , , , , , , , , , , , , , , , ,
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] No				
Other				
Thread	ed			
6 00	1. to	ft., Di	ameter	in. to ft.
ut .9289	105./	it., wan unc	kness or gauge ino	
[Other (Specify)		
hole)				
Torch cut		illed boles	None (open hole	
Saw cut	🗌 Ot	her (specify)		
. It. to 444	*********	ft., From	ft. to) II.
				ft.
.π.ιο	*****	ft From	It. ע קר to	o ft. o ft.
				ft. toft.
			_	
Livestock		Abandoned		r (specify below)
Fertilizer		Öil well/gas		
		ell230!		
FROM	TO	LITHO, LO	G (cont.) or PLUC	GING INTERVALS
188	197	SAND FINE		
197	205	BROWN CL		
205	220		TO SMALL FEV	V CLAY
220 256	256 261	YELLOW C	AY FEW SAND	RECEIVED
261	280	SHALE		
			A	UG 08 2018
				den City Field Office
				1
				ted, or plugged
				wiedge and belief.
				my with
LY and PRINT cl	early. Ple	ase fill in blanks a	nd check the correct a	nswers. Send three copies
retain one for	ogy Sectio	n, 1000 SW Jack ds. Include fee c	son St., Suite 420, To	peka, Kansas 66612-1367. structed well. Visit us at
				the start is the start is the start

1/4 SE 1/4 ity street addre INGALLS 353-9023 H OF COMPLETED & n(s) Groundwater STATIC WATER LE Pump testdat
INGALLS 353-9023 H OF COMPLETED W n(s) Groundwater STATIC WATER LE Pump testdat
H OF COMPLETED W n(s) Groundwater STATIC WATER LE Pump testdat
H OF COMPLETED W n(s) Groundwater STATIC WATER LE Pump testdat
n(s) Groundwater STATIC WATER LE Pump testdat
STATIC WATER LE Pump testdat
Pump testdat
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TER TO BE USED
mo/day/yr samp
no/day/yr samp
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67 ft. to 187
25 ft. to 277
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0 ft. to 0 From 0 ft
0 ft. to 0
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0 ft. to 0 From 0 ft
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O ft. to O From O ft nation: 14 ABAN LOG D O9 COARSE SAN AND
0 ft. to 0 From 0 ft nation: 14 ABAN

10,639-STK \$ 32,786

m WWC-5 KSA 82a-1212

	Section N 24	umber	Township T 24		R 29		
ss of	well if l	ocated wit	thin city?				
	Boar	rd of Agri	iculture, D	ivision of W	later Res	ources	
				639 & 32,786			
ELL	277 1	ELEVATION:	. 0				
Enco	untered	1.	0 ft.	2. 0 ft	. 3.	0	ft.
				asured on mo D hours			gpm
gpm:	Well water	was () ft. after	0 hours	pumping	0	gpm
1	7.5 in. to	o 277 ft	., and	in. to	0 ft.		
AS: 0	3 FEEDLOT						
ologi	cal sample	submitted	l to departm	ment? No ;			
_		4		Water wel	1 disinf	ected?	Yes
	s submitted						
TS: G in. 1bs/	LUED to Off ft. Wall t	c., Dia Chickness	in. to or gauge No	D ft.	1		
TS: G in. lbs/	LUED to O ft ft. Wall t From 207	t, Dia chickness ft. to	in. to or gauge No 227 ft.	D ft.			
<pre>FS: G in. lbs/ ft., ft., ft.,</pre>	LUED to O ft ft. Wall t From 207 From 247 From 0	t, Dia chickness ft. to ft. to ft. to	in. to or gauge No 227 ft. 267 ft. 0 ft.	D ft.			
<pre>FS: G in. lbs/ ft., ft., ft.,</pre>	LUED to O ft ft. Wall t From 207 From 247	t, Dia chickness ft. to ft. to ft. to	in. to or gauge No 227 ft. 267 ft. 0 ft.	D ft.			
<pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre>	LUED to 0 ft ft. Wall t From 207 From 247 From 0 From 0 From 0	thickness thickn	in. to or gauge No 227 ft. 267 ft. 0 ft.	0 D ft.			
<pre>TS: G in. 1bs/ ft., ft., ft., ft.,</pre>	LUED to 0 ft ft. Wall t From 207 From 247 From 0 From 0 From 0	thickness thickn	in. to or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	0 D ft. 	e many fe	eet?	290
<pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre>	LUED to 0 ft ft. Wall t From 207 From 247 From 0 From 0 From 0	thickness thickn	in. to or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	0 D ft. 	, many fe	eet?	290
<pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre>	LUED to O ft ft. Wall t From 207 From 247 From 0 From 0 From 0 ft., L	ft. to ft. to ft. to ft. to ft. to From	in. to or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	0 ft. 0 ft. How PLUGGING IN	, many fe	eet?	290
<pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre>	LUED to O ft ft. Wall t From 207 From 247 From 0 From 0 From 0 ft., L	ft. to ft. to ft. to ft. to ft. to From	in. to or gauge No 227 ft. 267 ft. 0 ft. 0 ft.	D ft. 410 O ft. How PLUGGING IN	many fe		290

to the best of my knowledge and belief. Kansas Well Record was completed on (mo/day/yr) 08/14/98 by (signature)

	ATION OF WA				
	INTY: 035 G			1/4 SH 1/	4 SE 1/4
	ER WELL OWN , St. Addre		MIDWEST 05013 13		
Cit	y, State, Z	IP code :	INGALLS,	KS 67853-	-9023
	147 16 160 16 167 17 178 19 190 20 200 22 226 25	7 05 SA 8 05 SA 0 04 SA 0 01 CL 6 05 SA 1 01 CL	AY 20 LIME IND 28 ROCK IND 13 FINE INDY CLAY 0 AY IND 28 ROCK AY 04 SAND	GRAVEL 28 ROO 17 FINE SAND	ck Estone
1 2	258 26	7 07 FI 0 01 CL	ine sand qe .ay	MEDIUM SAND	
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con	npleted on (ter Well Cor	mo/day/year tractor's l) 07/28/98 icense No.	CATION: This and this reco 145 WRILLING & SUP	ord is true This Water 1

rm WWC-5 KSA 82a-1212

Section Number	Township	Number	Range	Number
24	T 24	S	R 29	W

Board of Agriculture, Division of Water Resources

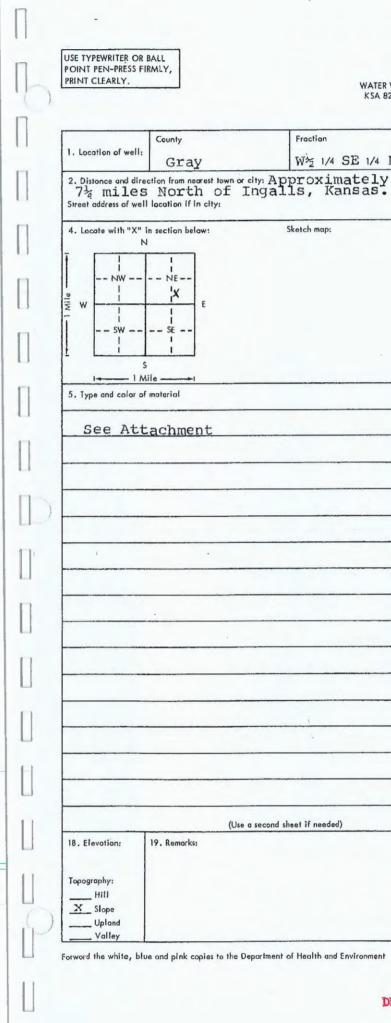
3 & 3 conti,

Application Number: 10,639 & 32,786

RECEIVED

AUG 08 2018

as Constructed under my jurisdiction and	was
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by (signature) Brund	Reichmith



WATER WELL RECORD KSA 820-1201-1215

Kansas Department of Health and Environment-Division of Environment (Water well Contractors) Topeka, Konsas 66620

10,639-STK

3

	Section	number	Township number	Range number					
TE 1/4	25	5	т 24 s к 29 EW						
R.R. 0	ner of well r street:	C.	oewen Feeders /O Rudy Loewe	n					
City, s	itate, zip o	ode: I	ngalls, Kansa						
			6. Bore hole dia. <u>175</u> in. Well depth <u>275</u> ft. 7. <u>Cable tool</u> Ratory						
			Hollow rod Jetted 8. Use: Domestic Pu Irrigation Ai Lawn Oi 9. Cosing: Materia Stee Threaded WeldedX RMP PVC	<u>Bored</u> <u>Reverse rotary</u> blic supply <u>Industry</u> r conditioning <u>X</u> Stack l field water <u>Other</u> <u>Height (Above)</u> r below					
	From	То	Dia in. to ft. dept	h gage No188					
			10. Screen: Manufacture's n Doerr Type Louvered Slot/gauze • 060 Set between 165 199 ft. c	Screen Dia. 8 78 " Length 56 ft. and 185 ft. nd 235 ft.					
			Gravel pack? Yes Size ran	mo./day/yr.					
			120 ft. below land sur	surfaces: Not Pump					
	T		ft. after h						
			Estimated maximum yield 13. Water sample submitted:						
			14. Well head completion:	Date 12_ Inches above grode					
			15. Well grouted? Yes	_ Bentonite Concrete					
			16. Necrest source of possible	contomination: est_Type Feed_T					
			17. Pump: Manufacturer's nome	tion? Yes <u>X</u> No					
			Model number Length of drop pipe Type:						
			Submersible Jet	Turbine Reciprocoting					
R	ECEIVEI		Centrifugal 20. Water well contractor's co This well was drilled under my is true to the best of my knowl Henkle Drilli Business name Address BOX 639, 0 Signed Authorized repr	jurisdiction and this report edge and belief. <u>ng&Sply 145</u> <u>License No.</u> <u>SardenCity, Ks</u>					

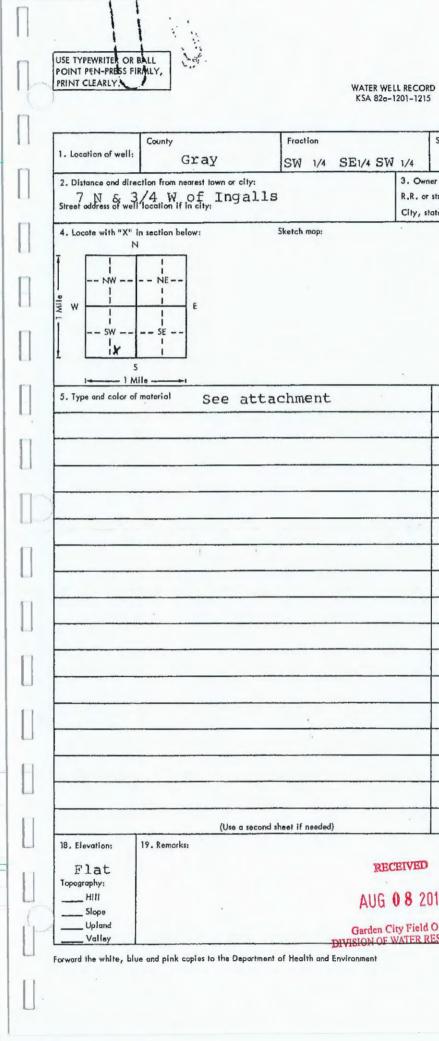
AUG 08 2018

COU				Ingalls, Kansas
LOCI		ay		UARTER NE SECTI
	ATION	At	the S	SE corner of the F
1%	FO	OTAC	E	
	From	Pay	To	DESCRIPTION OF S
	0		.3	. Top Soil
				Brown clay
				Brown clay, cal
	the second s		a sub-	Sand fine to me
				and the second
				Brown clay and
				Sand fine to me
EE		27		
22	Lev	21	-101	used water.
-	157		165	Brown clay with
60				Sand fine to me
				white rock. Loo
	184		200	Brown clay - st
65	200	44	244	Sand fine to me
				gravel, some ti
			0.6.0	Loose - used wa
	244	10	260	and the second
10	200	12	tilk	Sand fine to me gravel, also sm
	272		277	Brown clay
				Shale
Fault (Strengthered)				
-				
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-				
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TEST LOG

DATE 3/8/79	
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DRILLER Rector	
ION 25 TOWNSHIP 24 RANGE 29	
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h small sand sts.	
ed coarse, small gravel with small	
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vater.	
nd with sts of broken white rock.	
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mall white rock. Loose - used water.	
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Set up facing North	
Dig pit on the East	
RECOVED	
AUG 0 8 2018	
Garden City Field Office	
DIVISION OF WATER RESOURCE	S
G & SUPPLY CO., INC. SUBLETTE, KS	
CN HEADQUARTERS Phone 675-4311	
INDUSTRIAL WELLS * * * * STOCK WELLS	

Ot Deconti.



Kansas Department of Health and Environment-Division of Environment (Water well Contractors) Topeka, Kansas 66620

29,614. (5) Redrilled in 2003

						Tope	ka, Kan	sas 66620		
		Section	number	Town	ship number		Range	number		1
W	1/4	2	5	T	24	S	R	29	E(W)	
	D D ar	etropt.	clo	R11	Farms dy Loc ls, KS	ewen	353			
				6. Bor	e hole dia. Il depth27	26 in.	Compl 3 -	etion date 10-7	7	1
					Coble tool _ Hollow rod _]
					: Domest X Irrigati Lawn	ion Ali	r conditi I Neld w	ioning	Stock Other	
				Thread RMP	ing: Materia ed Wel PV 6 in. t27	ded	_Surfac		in.	
		From	То	Dia	in. to	_ ft. dept	h goge	No	188	-
_				Type Slot/ge	Louve	red 25 -271	Dia Length	16" 66		
_				Grave	5-205 pock?Ye	Size ran	ge of m		x 1/	В
_				11. Ste 	44ft. below	vel: w land surf	ace Da	te <u>3-1</u>	10./doy/yr.	
				245	mping level k _ ft. after . _ ft. after .	below land	surfaces	ing677	g.p.m.	
				Estimat	ted maximum ater sample su	yield			g.p.m.	
_				14. We	Yes X	letion: .	L2	nu ^{e i}		
_				15. We	itless adapter all grouted?	Yes		nches abov		
			_	Depth;	From _0	ft. to	10	ft.	Concrete	21-
-				ft	Directed up	ction		nation:	bserv	
				17. Pur				ot installed		M.
_				Model Length	number of drop pipe					200
_					Submersible Jet			Turbi	- Y &	1.
					Centrifugal	branker!s as		Other	rocoting r	s IV
EC	EIVED			This we is true	to the best of le Dr	d under my my knowle	jurisdic edge and	tion and the belief.		Si Si
	0820			Busines	s name		arde		145 icense No. ty, K9	A VA
Ci	ty Field VATER R	Office ESOURC	ES	Signed	Autho	rized repre	Deb sentativ	Dat	0-1/-	NA N
								Farm W	WC-5	5

()					Loewen Farms
	STR	eet al	DRES	S	Thomalle KS
	CIT	Y & S'I	ATE .		Ingalls, KS QUARTER SW SECT
1					SE of well or
		-			ander som er forfatten aller die erste finde aller die erste gestigt die jaar die staat die ste die ste die st In ferste ander die ste die ste In ferste ander die ste
	%	1	DOTAC		DECONTRATAS AD
		From	Pay	west's have a second set of a low	DESCRIPTION OF
		0		3	Top soil
		<u>3</u> 40		<u>40</u> 63	Brown clay Caliche and lim
		63	-1.16	100	Sand and gravel
			-		clay sts., used
		100		117	Brown clay and
	35	117	25	150	Sand fine med.
		150		160	
	50	160	20	180	Sand fine med.
				MAN CAPTURE	white rock and
	65	180	10	190	Sand fine med.
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TEGT LOT

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	DRILLER Rector	
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rest #1		
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STRATA	Proposed Well Depth	
· / The classification of the second s		
e rock,	hard, used pull down	
, cement	ed in places, very small	
	Ewater	
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	PLY CO., INC. SUBLETTE, KS NUARTERS Phone 675-4311	
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29614 3 conti.

Distance and direction from meanest town or city streat address of well if lacated within City? PROW CHALESTOR, APP2 4 MILES NORTH & 5 MILES BAST 2 MISS WELL OVER: STRYE MILTERE 2 MISS WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE 1 JOINTE WELL MILTERE MILTERE 1 JOINTE WELL MILTERE 1 JOINTE MILTERE 1 JOINTE WELL MILTERE 1 JOINTE WELL MILTERE 1 JOINTE WELL MILTERE 1 JOINTE MILTERE 1 JOINTE MILTERE 1 JOINTE WELL MILTERE 1 JOINTE MILTERE 1 JOINTE MILTERE 1 JOINTE JOINTER 1 JOINTE JOINTER 1 JOINTE JOINTER 1 JO	1 LOCATION OF PATER NULL: COUNT: 035 GAX Fraction SE 1/4 SV 1/4 SV 1/4 SV 1/4 Section Number 25 Township Number 7 24 Township Number 7 24 R 23 Number 8 R 23 Distance and direction from measure town or city streat address of well if located within city? Read Address Read Address Read Address 2 MATER WELL OWNER: SRAF, SL. Address, Day J: DO BOI 103 Address, Day J: DO BOI 103 Address, Day J: DO BOI 103 Address Board of Agriculture, Division of Water Resources City, State, Zip Cde CIMARDON, JS 67835-0103 Address Board of Agriculture, Division of Water Resources City, State, Zip Cde CIMARDON, JS 67835-0103 Address 1 NR A	PERSONAL PROPERTY	∢€® drology	Water Well Database Query	Scan of WWC5	Form			Carlo Carlo
1 LOCATION OF WATER WELL: COUNT: 035 CEAT Fraction 58 1/4 SM 1/4 Section Number 25 Township Number 7 24 Respective R 23 Number R 23 Township Number 7 24 Respective R 23 Number R 23 Township Number 7 24 Respective R 23 Number R 23 Number R 24	1 LOCKTION OF WATER WELL: COUNT: 035 GEAT Fraction SE 1/4 SW 1/4 SW 1/4 Section Number 1/2 S Township Number 7 24 S Township Number 7 24 S Restance R 23 W Distance and direction from essent town or city streat address of well if located within city? FROM CHARMESTOR, AFZ 4 MILES MORT 4 S MILLS REST 2 MITER WELL OFMES: STREF KLIESSE 34, St. Address, Dox F: 10 001 101 Application Ruber: 29514 Board of Agriculture, Division of Water Resources Application Ruber: 29514 3 LOCKER WELL'S LOCATION WITE AV 71 18 SECTION DOX: N W 4 DEFE OF COMPLEXED DIAL SILESSATION: 0 Explose Groundwater Exconsulered 1.0 ft. 2.0 ft. 3.0 WELL'S SIAIC SATER LEVEL 0 ft. 2.0 ft. 3.0 WELL'S SIAIC SATER LEVEL 20 in to 312 ft., and is. to 0 ft. WELL'S SIAIC SATER TO 38 USED AS: 02 IERIGATION 1 W as a checkel/Daster 20 in to 312 ft., and is. to 0 ft. WELL ANTER TO 38 USED AS: 02 IERIGATION 1 If yes, mo/day/r sample was submitted 1 water well disinfected? Well water was 10 ft. after 0 hours purpling 30 USES OF 2PERFORMENT WATERIAL WITE WAS a Checkel/Daster 10 JS IERICATION 1 If yes, mo/day/r sample was submitted Setter well disinfected? Well water was 10 ft. to 0 ft. Casing height above land surface 12 in., weight 33 lbs/ft. well thickness or gauge 30.250 TTPE 07 SIAST CASING USED 01 STREK STREES OF 2PERFORMENT WATERIAL WILL STREM STREES OF 2PERFORMENT WATERIAL WILL STREM STRE			and the second	CIPOL USIT SUCOD Dorn C	10 6 503 635 1919			
Distance and direction from nearest town or city streat address of well if located within city? FRAM CERLESTOR, AFZI 4 HILES NORTZ & 5 HILES EAST 2 MATEX MELL DURKS: STRY KLIEWEL RR 5. K. Address, Dor Y. DO BOILO City, State, ZIP code : CIMARDO, KS 67835-4103 Application Number: 29614 3 LOCATE WILL'S COLATION WITE AK 71 M SOLTON SUIT: AK 71 M SOLTON SOLTON WITE AK 71 M SOLTON SUIT: AK	Distance and direction from masses town or city strest address of well if located within city? FROM CRANESTON, APZI 4 MLAS NORTA & 5 MLAS KAST 2 MT2X NELL OFNES: STRTE NLIPSE 234, ST. ANGRESS, DON 1, FO DOD 101 3 JOCKTE WILL'S LOCATION WITE A VII'S ADDRESS, DON'T AND	1 1.00	ATION OF WATER	W3LL: fractio				er Range Suub	 er
PROME CERUISTONS. APEX 4 MILES NORT2 & 5 MILES NAT 2 MITSS MELL OWNES: STEVE KILTWES 3 AFA, SE. Address, Dor Y. 50 DOX 103 GTESS-6103 Board of Agriculture, Division of Mater Resources 3 IOCATE WELL'S COATION WITE 4 DEFTS OF COMPLETED WELL SIZE MARKON, KS GTESS-6103 Board of Agriculture, Division of Mater Resources 1	PROM CBALESTOR: APZ 4 MILES NORTA 5 MILES BAST 2 MISS WELL OWES: STRYS KLEWSE STRYS KLEWSE SAF, SC. Address, Dar 1 & DO BOX 100 City, State, EIP code : CHARBON, KS 57835-0103 Application Funder: 26614 Board of Acticulture, Division of Water Resources Application Funder: 26614 3 BOARD WALL'S COLATION WITE AN "1" HI MSKTIDM BOL: I I I I I I I I I I I I I I I I I I I				************************************	***************	*********************	S R 29 W	
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/ \ N	/ \ N	AX						0 ft. 3.	0 (
1	1	1			NELL'S STATIC NATER LEVEL Puer testdata:	156 ft. below 1 Well water was	and surface measured 191 ft. after 4	on no/day/yr 12/	27/0
i W	i N Image: Signal Signa Signal Signal Signa Signal Signal Signa Signal Signa Signal Sign		···· אא··	·· -··- X3 ·····					
Image: Signature in the signature interval i	1/1		×	E	Bore Hole Diageter	20 in. to 31	2 ft., and in.	to D ft.	
\/	1 If yes, mo/day/yr sample was submitted Water well disinfected? 5 77PB OF SLANK CASING USED: 01 STERE CASING JOINTS: WELDED Blank casing diameter 12.15.in.to312 ft., Dia in.to 6 ft., Dia Casing height above land surface 12 in., weight 33 lbs/ft. Wall thickness or gauge No250 717PB OF SCREWE OF PERFORATION MATERIAL: 01 STREM SCREWE OF PERFORATION PERFORATION MATERIAL: 01 STREM STREM 233 ft. to 213 ft., Prom 0 ft. to 0 ft. SCREWE OF PERFORATION PERFORATION MATERIAL: 01 STREM From 178 ft. to 213 ft., Prom 0 ft. to 0 ft. SCREWE OF PERFORATION PERFORATION MATERIAL: 01 STREM From 178 ft. to 213 ft., to 253 ft., Prom 0 ft. to 0 ft. SCREWE PARAMENTER TOT 20 ft. to 212 ft., From 0 ft., From 0 ft., rom 0 ft., to 0 ft. GRAVEL PACK INTERVALS: From 20 ft. to 212 ft., From 0 ft., From 0 ft., rom 0 ft., to 0 ft. GROUT INTERVALS: From 0 ft. to 20 ft., From 0 ft., rom 0 ft., to 0 ft. Grout Intervals: From 0 ft. to 10 ft., From 0 ft., rom 0 ft., to 0 ft.	e	···· 3H -···	\$3	NELL WATER TO BE USED AS:	02 IRRIGATION		1	
1 1 5 TYPE OP BLANK CASING USED: 01 STERL Black cosing diameter 12.15 in.to312 ft., Dia in.to 6 ft., Dia in. to 0 ft Casing diameter 12.15. in.to312 ft., Dia in.to 6 ft., Dia in. to 0 ft Casing diameter 12.15. in.to312 ft., Dia in.to 6 ft., Dia in. to 0 ft TYPE OF SCREEK 02 PERFORATION MATERIAL: 01 STREL SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT SCREEK 02 PERFORATION DENINGS ARE: 01 CONT. SLOT SCREEK 02 PERFORATION VATERIAL: 01 STREL SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT SCREEK 02 PERFORATION MATERIAL: 01 STREL SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT SCREEK 02 PERFORATION MATERIAL: 01 STREL SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT SCREEK 02 PERFORATION MATERIAL: 01 STREL SCREEK 02 PERFORATION DENINGS ARE: 01 CONT. SLOT SCREEK 02 PERFORATION MATERIAL: 01 STREL Trom 20 ft. to 121 ft. From 0 ft. to 0 ft. Trom 0 ft. to 0 ft., From 0 ft. to 0 ft. GRAVEL FACE INTERVALS: From 0 ft. to 0 ft., From 0 ft. to 0 ft. Trom 0 ft. to 0 ft., From 0 ft. to 0 ft. GROIT HATERVALE 01 BENTONITE Groat lotervals: Froz 0 ft. to 20 ft., From 0 ft. to 0 ft., Trom 0 ft. to 0 ft. Direction from vell? SOUTBERST How many feet? FPOM 10 1 121 04 SAMDY CLAY 1 21 31 04 05 SAMD 11 GRAVEL 150 163 04 SAMDY CLAY 05 SAMD FROM 11 GRAVEL 150 163 04 SAMDY CLAY 05 SAMD 1 121 04 SAMDY CLAY 05 SAMD 150 163 04 SAMDY CLA	1	11			Was a chemical/bacteriolog If yes, mo/day/yr sample i	gical sample submi ras submitted	tted to department? Nat	No ; er vell disiofecte	d? 1
16 GROJT MATERIAL 03 BEBTONITE 03 BEBTONITE Grout Intervals: From 0 ft. to 20 ft., From 0 ft. to 0 ft., From 0 ft. to 0 ft., 0 ft., From 0 ft. to 0 ft. What is the nearest source of possible contamination: 14 ABAND, WELL New nany feet? Direction from vell? SOURBAST New nany feet? FROM 10 1 02 SILT 1 01 O2 SILT 1 01 O2 SILT 1 01 O2 SILT 1 01 O2 SILT 1 01 CLAT 37 70 O1 CLAT 30 93 O4 SANDY CLAY OS SAND 31 104 OS SAND 11 GRAVEL 132 150 OS SAND 11 GRAVEL 133 104 OS SAND 11 GRAVEL 132 150 OS SAND 11 GRAVEL 156 163 O4 SANDY CLAY OS SAND 132 150 OS SAND 11 GRAVEL 156 163 O4 SANDY CLAY OS SAND 157 150 STERTIFICATION: This water v	16 GROJT MATERIAL 03 BSBTOHITE Grout Intervals: From 0 ft. to 20 ft. prom 0 ft. to 0 ft. prom 0 ft. to 0 ft. ft. to 0 ft. ft. to 0 ft. ft. to 0 ft.	Bla Cas TYP SCR	ok cəsing diəne ing height abov B OF SCR3BK OZ B3X OZ P3RFORA3	eter <u>12,15 in.</u> Te land surface 1 PERFORATION MATERIAN TON OPENINGS ARE:	to 312 ft., Dia in. 2 in., veight 33 lb: 5: 01 STREL 01 CONT. SLOT	WELDED . Lo G Ét., D S/ft. Wall thicks	ia in, to ess or gauge Xo25		
6 GROJT MARERIAL 03 BEBTONITE Grout Intervals: Proc 0 ft. to 20 ft., From 0 ft. to 0 ft., From 0 ft. to 0 ft., From 0 ft. to 0 ft., What is the nearest source of possible contamination: 14 ABAND, WBLL Direction from vell? SOURBAST Now namy feet? PRON TO LIFEDLOGIC LOG 0 1 02 SILT 1 21 04 SANDY CLAY 21 37 01 CLAT 37 70 01 CLAT 90 93 04 SANDY CLAY OS SAND 104 132 04 SANDY CLAY OS SAND 132 150 05 SAND 11 GRAVEL 104 132 04 SANDY CLAY OS SAND 132 150 05 SAND 11 GRAVEL 156 163 04 SANDY CLAY OS SAND 132 150 05 SAND 11 GRAVEL 156 163 04 SANDY CLAY OS SAND 132 150 05 SAND 11 GRAVEL 156 163 04 SANDY CLAY OS SAND 132 150 05 SAND 11 GRAVEL 156 163 04 SANDY CLAY OS SAND 156 163 04 SANDY CLAY OS SAND 156 </td <td>6 GROJT MARERIAL 03 BSBTOHIFE Groat Intervals: From 0 ft. to 20 ft. row 0 ft. to 0 ft. row 0 ft. row<td></td><td>GRAVEL PACE</td><td>INTERVALS:</td><td>7ron 233 11. to 253 ft. 7ron 20 ft. to 312 ft. 2ron 0 ft. to 0 ft.</td><td>., Pron 0 ft. ., Pron 0 ft. Pron 0 fr</td><td>to 0 ft. to 0 ft. to 0 ft</td><td></td><td></td></td>	6 GROJT MARERIAL 03 BSBTOHIFE Groat Intervals: From 0 ft. to 20 ft. row 0 ft. to 0 ft. row 0 ft. row <td></td> <td>GRAVEL PACE</td> <td>INTERVALS:</td> <td>7ron 233 11. to 253 ft. 7ron 20 ft. to 312 ft. 2ron 0 ft. to 0 ft.</td> <td>., Pron 0 ft. ., Pron 0 ft. Pron 0 fr</td> <td>to 0 ft. to 0 ft. to 0 ft</td> <td></td> <td></td>		GRAVEL PACE	INTERVALS:	7ron 233 11. to 253 ft. 7ron 20 ft. to 312 ft. 2ron 0 ft. to 0 ft.	., Pron 0 ft. ., Pron 0 ft. Pron 0 fr	to 0 ft. to 0 ft. to 0 ft		
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0 1 02 SILY 1 21 04 SANDY CLAY 21 37 01 CLAY 37 70 01 CLAY 70 80 05 SAND 11 GRAVEL 01 CLAY 90 93 04 SANDY CLAY 05 SAND 93 104 05 SAND 11 GRAVEL 104 132 04 SANDY CLAY 05 SAND 132 150 05 SAND 11 GRAVEL 133 104 05 SAND 11 GRAVEL 134 132 04 SANDY CLAY 05 SAND 135 163 04 SANDY CLAY 05 SAND 136 163 04 SANDY CLAY 05 SAND 7 CONTRACTOR'S 07 LANDONNER'S CEPTIFICATION: This water well was Constructed under ny jurisdiction and was completed on (un/day/year) 12/13/03 and this record is true to the best of up knowledge and belief. Taness Water Well Contractor's License Ko. 145 7 This Water Well Record was completed on (un/day/yr) 01/27/04	0 1 02 SILT 1 21 04 SANDY CLAY 21 37 01 CLAT 37 70 01 CLAT 70 80 95 SAND 11 GRATEL 01 CLAY 93 93 04 SANDY CLAY 05 SAND 93 104 05 SAND 11 GRATEL 104 132 04 SANDY CLAY 05 SAND 132 150 05 SAND 11 GRATEL 150 163 04 SANDY CLAY 05 SAND 7 70 CONTRACTOR'S OR LANDOWNER'S CENTLFICATION: This water well was Constructed under my jurisdiction and was 7 CONTRACTOR'S OR LANDOWNER'S CENTLFICATION: This water well was Constructed under my jurisdiction and was 7 CONTRACTOR'S OR LANDOWNER'S CENTLFICATION: This water well was constructed under my jurisdiction and was 7 CONTRACTOR'S OR LANDOWNER'S CENTLFICATION: This water well was constructed under my jurisdiction and was 7 CONTRACTOR'S OR LANDOWNER'S CENTLFICATION: This water well was constructed under my jurisdiction and was 7 CONTRACTOR'S OR LANDOWNER'S CENTLFICATION: This water well was constructed under my jurisdiction and was 8 Nater Well Contractor's License Ko. 145 7 This Water Well Record was completed on (mo/day/yr) 01/27/04				2 CONTEDERACIOD: 14 ASAMU, 4	*85b		Now many feet?	
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. 3E OF 4,887\$ 10,639 Elev 2760 rm WWC-5 KSA 82a-1212 | Section Number | Township Number | Range Number 1 24 1 T 24 S | R 29 W ess of well if located within city? Board of Agriculture, Division of Water Resources Application, Number: WELL 252 ELEVATION: 0 Encountered 1. Oft. 2. Oft. 3. Oft. :-EVEL 120 ft. below land surface measured on mo/day/yr 05/21/93 : ta: Well water was 0 ft. after 0 hours pumping 0 gpm; gpm: Well water was 0 ft. after 0 hours pumping 0 gpml 11 in. to 252 ft., and in. to 011. AS: 01 DOMESTIC iological sample submitted to department? No ; ple was submitted Water well disinfected? Yes! NTS: GLUED in. to Oft., Dia in. to Oft. lbs/ft. Wall thickness or gauge No. .316 ----ft., From Oft. to Oft. fl., From Oft. to Oft. ft., From Oft. to Oft. fl., From Oft. to Oft. ----t. to 0 fl., From 0 fl. to 0 fl. ND. WELL How many feet? 251 -----FROM 1 TO : PLUGGING INTERVALS RECEIVED AUG 08 201 Garden City Field Office DIVISION OF WATER RESOURCES 1 was Constructed under my jurisdiction and was to the best of my knowledge and belief. Kansas Well Record was completed on (wo/day/yr) 05/29/93 by (signature)

1 LOCATION COUNTY:	OF WATER 035 GRAY	WELL: Fra SE	ction 1/4 SE	1/4 SE	S 1/4 2	ection Number 4	l Township Number I T 24 S	r Range Number R 29 W
2 WATER WE RR#, St. Cily, St	LL OWNER: Address, ate, ZIP	■IDWEST Box # : R.R. 1, code : INGALLS	FEEDERS BOX 29 , KS 678	53-		Board of A Applicatio	griculture, Division n Number:	n of Water Resources
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2 HATEN VELL DAKER: MIDNET FEEDERS 1 RRA, St., Address, Box # : 05013 *13* RDAD Board of Apriculture. Division of Water Resources 2 City, State. ZIP code : INGALLS & 47833- Application Number: 10,999 1 FROM TO : LITHOUGHIC LOG 133 175 : 04 SANDY CLAY 20 LINESTONE 03 SAND 175 197 : 00 S GAND OL CLAY 28 ROLD 238 125 : 04 SANDY CLAY 28 ROLD 238 125 : 04 SANDY CLAY 02 SAND 245 : 250 : 19 SHALE 20 LINESTONE 243 : 250 : 19 SHALE 20 LINESTONE SAND 245 : 250 : 19 SHALE 20 LINESTONE SAND 245 : 260 : 19 SHALE 20 LINESTONE SAND 245 : 260 : 10 SAND SAND 245 : 260 : 10 SAND SAND 245 : 260 : 10 SHALE 20 LINESTONE)	COUNTY: 035 GRAY	WELL: Fraction SE 1/4 SW 1/4 SE 1/4	Section Number 19	: Township Number : T 24 S	¦Range Number ¦R 28 ₩
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Bland Casir TYPE SCREE SCREE 6 GROUT 6 GROUT Grout What Direc	k casing diam ng height abo OF SCREEN OR EN OR PERFORATED GRAVEL PACK MATERIAL Intervals: is the neare ction from we	eter 8 ve land surfa PERFORATION TION OPENING INTERVALS: INTERVALS: 03 BENTONITE From 5 d st source of	5% in. t ace 12 MATERIAL S ARE: E ft. to possible	to 24 2 in., .: 07 P 03 M From From From From From	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 25 ft. 0 ft. ., From mination	SING Dia ght to to to to
Bland Castr TYPE SCREE SCREE SCREE 	k casing diam ng height abo OF SCREEN'OR EN OR PERFORATED GRAVEL PACK MATERIAL Intervals: is the neares ction from we 1 TO 2 2	eter 8 ve land surfa PERFORATION TION OPENING INTERVALS: INTERVALS: 03 BENTONITH From 5 f st source of 11? SOUTH 02 SILT 01 CLAY	5% in. t ace 12 MATERIAL S ARE: E ft. to possible LIT	to 24 2 in., : 07 P 03 M From From From From 25 ft. e contar	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 25 ft. 0 ft. ., From mination	SING Dia ght to to to to
Bland Castr TYPE SCREE SCREE SCREE SCREE Grout Grout What Direc FROM C 22	k casing diam ng height abo OF SCREEN'OR EN OR PERFORA EN PERFORATED GRAVEL PACK MATERIAL Intervals: is the neares tion from we 1 TO 2 16 5 38	eter 8 ve land surfa PERFORATION TION OPENING INTERVALS: INTERVALS: O3 BENTONITH From 5 f st source of 11? SOUTH 02 SILT 01 CLAY 01 CLAY 31	5% in. t ace 12 MATERIAL S ARE: E ft. to possible LIT	to 24 2 in., : 07 P 03 M From From From From 25 ft. e contar	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 25 ft. 0 ft. ., From mination	SING Dia ght to to to to
Bland Castr TYPE SCREE SCREE Grout Grout What Direc	k casing diam ng height abo OF SCREEN'OR EN OR PERFORA EN PERFORATED GRAVEL PACK MATERIAL Intervals: is the neares ction from we 1 TO 2 16 5 38 3 50	eter 8 ve land surfa PERFORATION TION OPENING INTERVALS: INTERVALS: 03 BENTONITH From 5 f st source of 11? SOUTH 02 SILT 01 CLAY	% in. t ace 12 MATERIAL S ARE: E ft. to possible LIT 1 CALICHE	to 24 2 in., : 07 P 03 M From From From From 25 ft. e contar	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 25 ft. 0 ft. ., From mination	SING Dia ght to to to to
Bland Castr TYPE SCREE SCREE SCREE Grout What Direc FROM C 16 38	k casing diam ng height abo OF SCREEN'OR EN OR PERFORATED GRAVEL PACK T MATERIAL t Intervals: is the neares tion from we 1 TO 2 16 5 38 3 50 0 70	eter 8 ve land surfa PERFORATION TION OPENING INTERVALS: INTERVALS: O3 BENTONITH From 5 d st source of 11? SOUTH 02 SILT 01 CLAY 01 CLAY 31 01 CLAY	5% in. t ace 12 MATERIAL S ARE: E ft. to possible LIT I CALICHE	to 24 2 in., : 07 P 03 M From From From From 25 ft. e contar	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 25 ft. 0 ft. ., From mination	SING Dia ght to to to to
Bland Castr TYPE SCREE SCREE Grout Grout What Direc FROM C 2 16 38 50 70 88	k casing diam ng height abo OF SCREEN OR EN OR PERFORATED GRAVEL PACK MATERIAL Intervals: is the neares stion from we 1 TO 2 16 5 38 6 50 0 70 0 88 8 93	eter 8 ve land surfa PERFORATION TION OPENINGS INTERVALS: INTERVALS: O3 BENTONITH From 5 f st source of 11? SOUTH 02 SILT 01 CLAY 31 01 CL	5% in. t ace 12 MATERIAL S ARE: E ft. to possible LIT I CALICHE I GRAVEL CLAY NND OB ME	to 24 2 in., .: 07 P 03 M From From From From 25 ft. e contar	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 205 ft. 0 ft. 0 ft. C LOG	SING Dia ght to to to to to
Bland Castr TYPE SCREE SCREE	k casing diam ng height abo OF SCREEN OR EN OR PERFORATED GRAVEL PACK T MATERIAL Intervals: is the neares tion from we 1 TO 2 16 5 38 8 50 0 70 0 88 8 93 8 102	eter 8 ve land surfa PERFORATION TION OPENING INTERVALS: INTERVALS: O3 BENTONITH From 5 f st source of 11? SOUTH 02 SILT 01 CLAY 01 CLAY 31 01 CLAY 31 01 CLAY 31 01 CLAY 32 01 CLAY 31 01 CLAY 32 01 CLAY 3	5% in. t ace 12 MATERIAL S ARE: E ft. to possible LIT I CALICHE I GRAVEL CLAY WND 08 ME CLAY	to 24 2 in., .: 07 P 03 M From From From From 25 ft. e contar	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 205 ft. 0 ft. 0 ft. C LOG	SING Dia ght to to to to to
Bland Castr TYPE SCREE SCREE SCREE Grout What Direc FROM C 2 16 38 50 70 88	k casing diam ng height abo OF SCREEN OR EN OR PERFORATED GRAVEL PACK T MATERIAL Intervals: is the neares tion from we 1 TO 2 16 5 38 8 50 0 70 0 88 8 93 8 102 2 124	eter 8 ve land surfa PERFORATION TION OPENINGS INTERVALS: INTERVALS: O3 BENTONITH From 5 f st source of 11? SOUTH 02 SILT 01 CLAY 31 01 CL	5% in. t ace 12 MATERIAL S ARE: E Ft. to possible LIT I CALICHE I GRAVEL CLAY WND 08 ME CLAY I GRAVEL	to 24 2 in., .: 07 P 03 M From From From From 25 ft. a contar	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 25 ft. 0 ft. ., From mination C LOG	SING Dia ght to to to to to
Bland Castr TYPE SCREE SCREE 6 GROUT 6 GROUT What Direc FROM 0 2 16 36 50 70 88 93 102 124	k casing diam ng height abo OF SCREEN OR EN OR PERFORATED GRAVEL PACK T MATERIAL Intervals: is the neares tion from we 1 TO 2 16 5 38 8 50 0 70 0 88 8 93 8 102 2 124	eter 8 ve land surfa PERFORATION TION OPENING INTERVALS: INTERVALS: O3 BENTONITH From 5 d st source of 11? SOUTH 02 SILT 01 CLAY 01 CLAY 01 CLAY 01 CLAY 01 CLAY 01 CLAY 05 SAND 11 04 SANDY C 05 SAND 11 04 SANDY C	5% in. t ace 12 MATERIAL S ARE: E Ft. to possible LIT I CALICHE I GRAVEL CLAY ND 08 ME CLAY I GRAVEL CLAY 20 L	to 24 2 in., : 07 P 03 M From From From 25 ft. : contar HOLOGIC	CA 5 ft., wei VC ILL SLOT 145 ft. 205 ft. 25 ft. 0 ft. ., From mination C LOG	SING Dia ght to to to to to a

(NORTH)

	LLIC E	VCA	82a-1212
10	MWC-2	NOA	020-1212

Section Number	Township Number T 24 S	Range Number R 28 W
ess of well if located w	vithin city?	
Board of Ag	rículture, Division c	of Water Resources
Application	Number: 10,999	
ELL 245 ELEVATIO		
Encountered 1.	0 72. 2. 0)ft. 3. 0ft.
VEL 115 ft. below lan a: Well water was		
gpm: Well water was	0 ft. after 0 ho	urs pumping 0 gpm
17.5 in. to 245	ft., and in. to	0 ft.
AS: 03 FEEDLOT		1
plogical sample submitt le was submitted		well disinfected? Yes
in. to 0 ft., Dia lbs/ft. Wall thicknes	s or gauge No410	t.
ft., From 0 ft. to ft., From 0 ft. to		
ft., From 0 ft. to		i
ft., From 0 ft. to	0 ft.	
to O ft., From).WELL	0 ft. to 0 ft.	How many feet? 570
FROM T		INTERVALS
	FLOGGING	RECEIVED
		AUG 08 2018
		Garden City Field Office
		DIVISION OF WATER RESOURCE
s Constructed under my	jurisdiction and was	

Well Record was completed on (mo/day/yr) 08/14/98

by (signature)

