# January 2018 – December 2020

# Midwest Feeders, Inc.

# Water Conservation Area Executive Summary

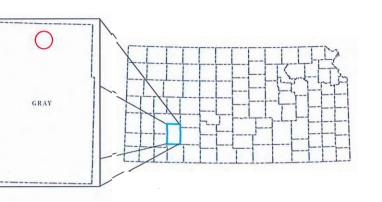
WCA Acres: 1,145 acres Number of STK Water Rights: 7 Number of STK Wells: 9 (with 3 Geocenters) Number of IRR Wells: 3 Number of IRR Water Rights: 4 Historical Period: 2012-2017 based on current operations and ownership **Prior Conservation:** 

- •
- 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<br>WATER CONSERVA   |
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| <br>MIDWEST FE  |
| GRAY COUN   |
| ORIGINALLY SUBMITT  |
| REVISED AUGUST 7, 2018 BASED  |
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| TECHNICAL ASSIST<br>Rural Resources Consulting, LLC<br>751 SE CR 36<br>Syracuse, KS 67878 |
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# 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

| MANAGEMENT PLAN FO<br>WATER CONSERV                                   |
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| MIDWEST F   |
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| ORIGINALLY SUBMIT   |
| REVISED AUGUST 7, 2018 BASE   |
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| TECHNICAL ASSI  |
| RURAL RESOURCES CONSULTING, LLC<br>751 SE CR 36<br>SYRACUSE, KS 67878 |
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& 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

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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<br>FILE NO. | IGHT ID IIEE* |            | QUANTITY<br>(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 |  |  |  |  |

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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<br>GROUNDWATER WITHDRAWAL       |
| C        | TOTAL PERMISSIBLE QUANTITY OF<br>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.<br>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<br>FILE NO. | ORIGINAL<br>AUTHORIZED<br>QUANTITY<br>(AF) | CURRENT<br>AUTHORIZED<br>QUANTITY<br>(AF) | QUANTITY<br>REDUCTION<br>(AF) | QUANTITY<br>REDUCTION<br>(%) |
|-------------------------|--|---|-------------------------------|------------------------------|
| 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% <b>RECEIVED</b>        |

 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<br>FILE NO. | DWR<br>WELL ID | RATE LIMITATION<br>(GPM) | FACILITY<br>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<br>Midwest Feeders, Inc.  | nt                         |
|     | ACKN  | OWLEDGEI                   |
|     | STATE OF <u>Kansas</u> ) s<br>COUNTY OF <u>Gray</u> )   | S                          |
| ( ) | On this <u>a</u> day of <u>Aug</u><br>Public, personally appeared <u>Jeffrey</u><br>person(s) whose name(s) is/are subs<br>executed the same for the purposes the | H. Sternb<br>scribed to th |
|     | In Witness Whereof, I have he   | ereunto set r              |
|     | NOTARY PUBLIC - State of Kansas<br>ANGELA L. HALE<br>My Appt. Exp. 2/25/2021  | Motary Pu<br>My Com        |
|     |   | Printed N                  |
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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.

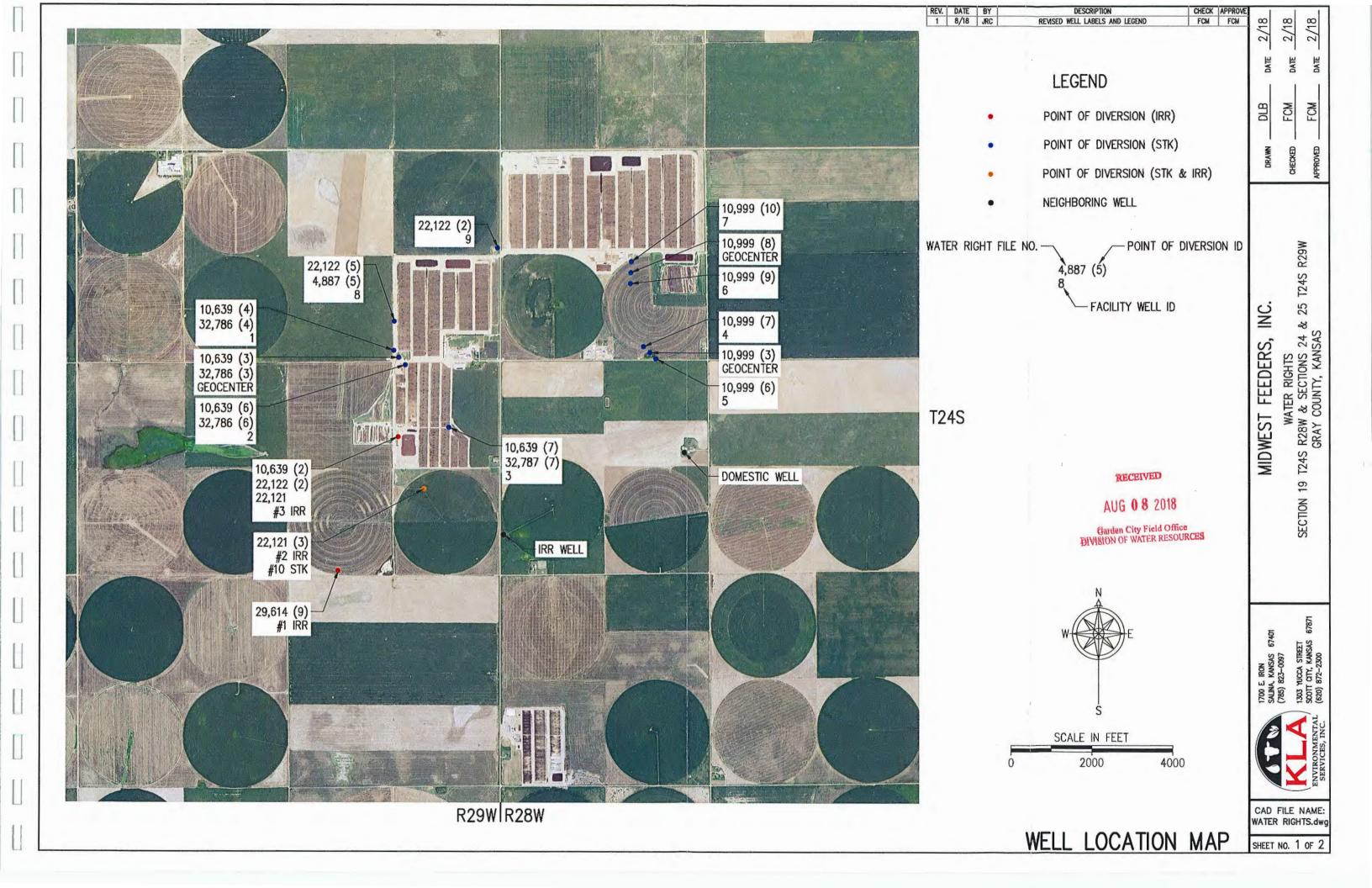
my hand and official seal.

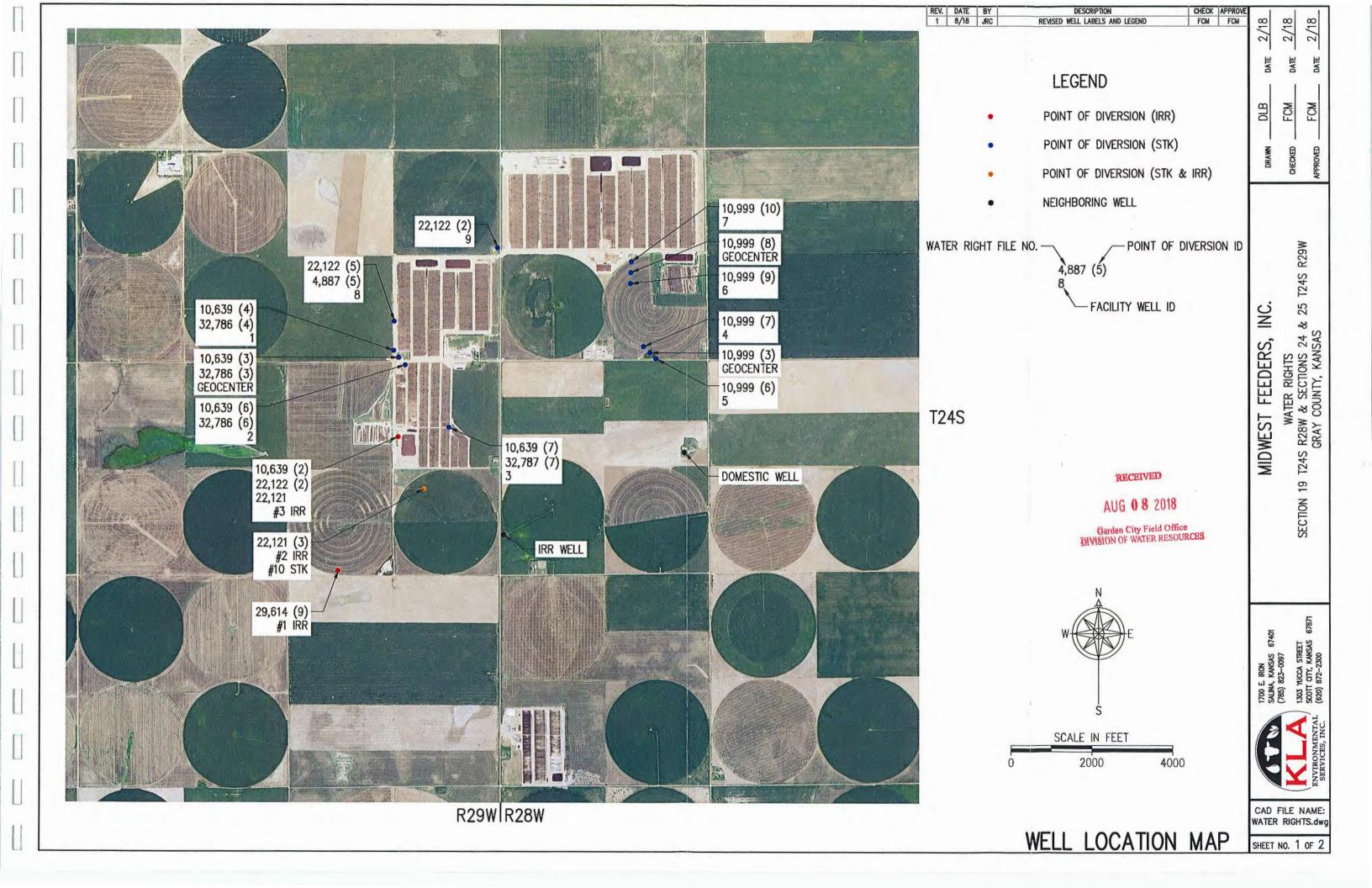
ela Z Hale Public Immission Expires 2/25/2021 d Name: Angela L. Hale

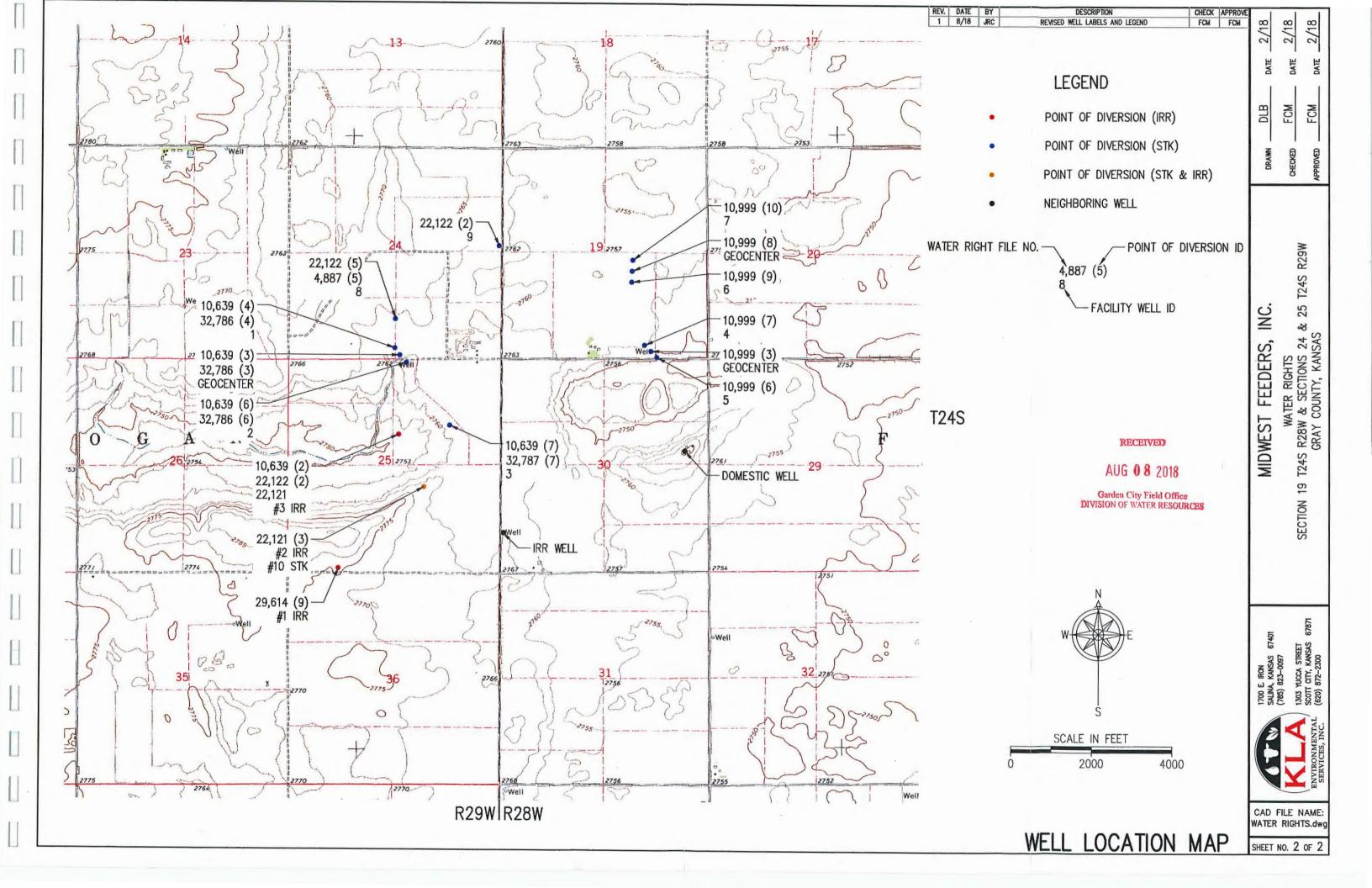
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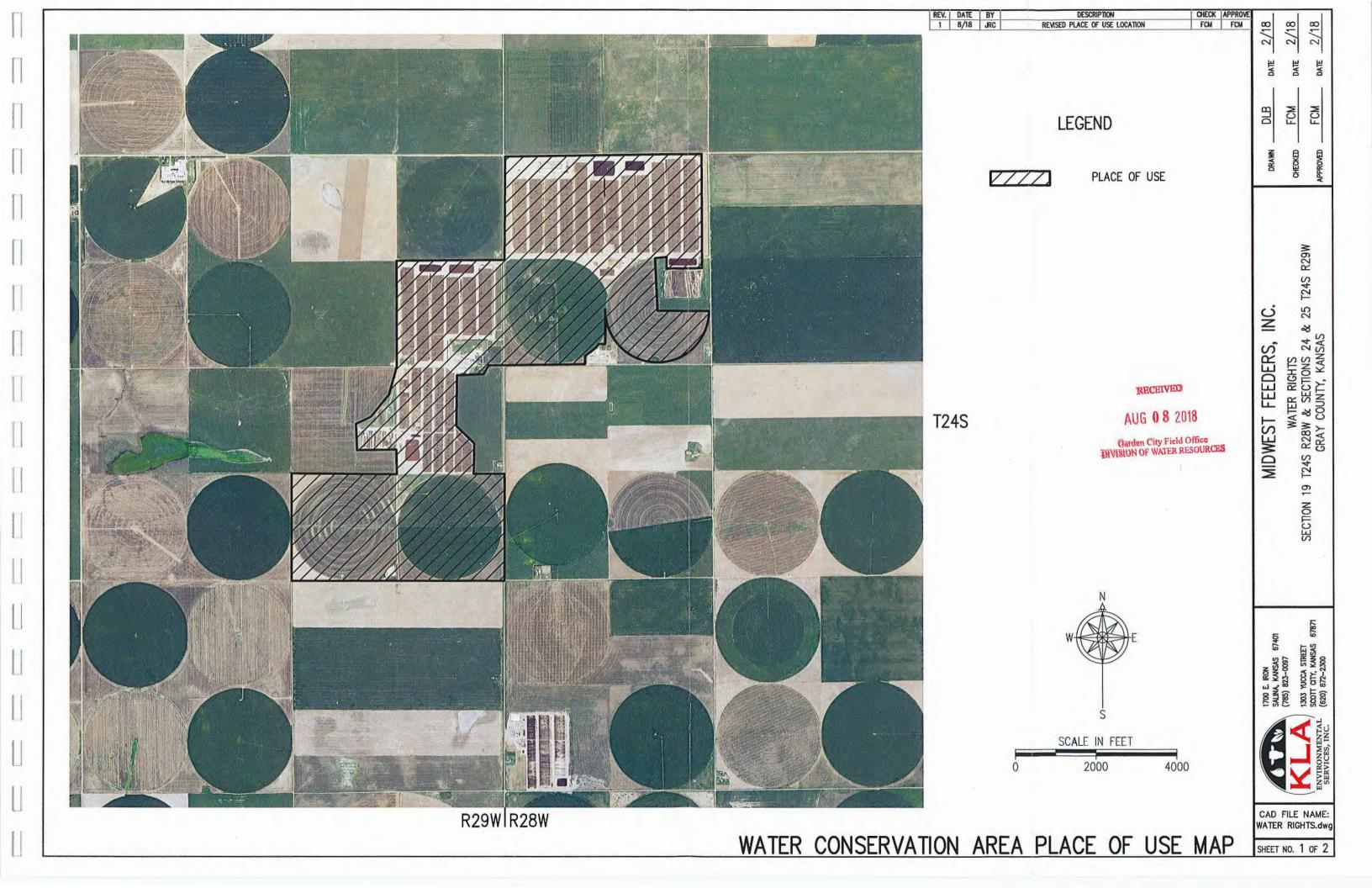
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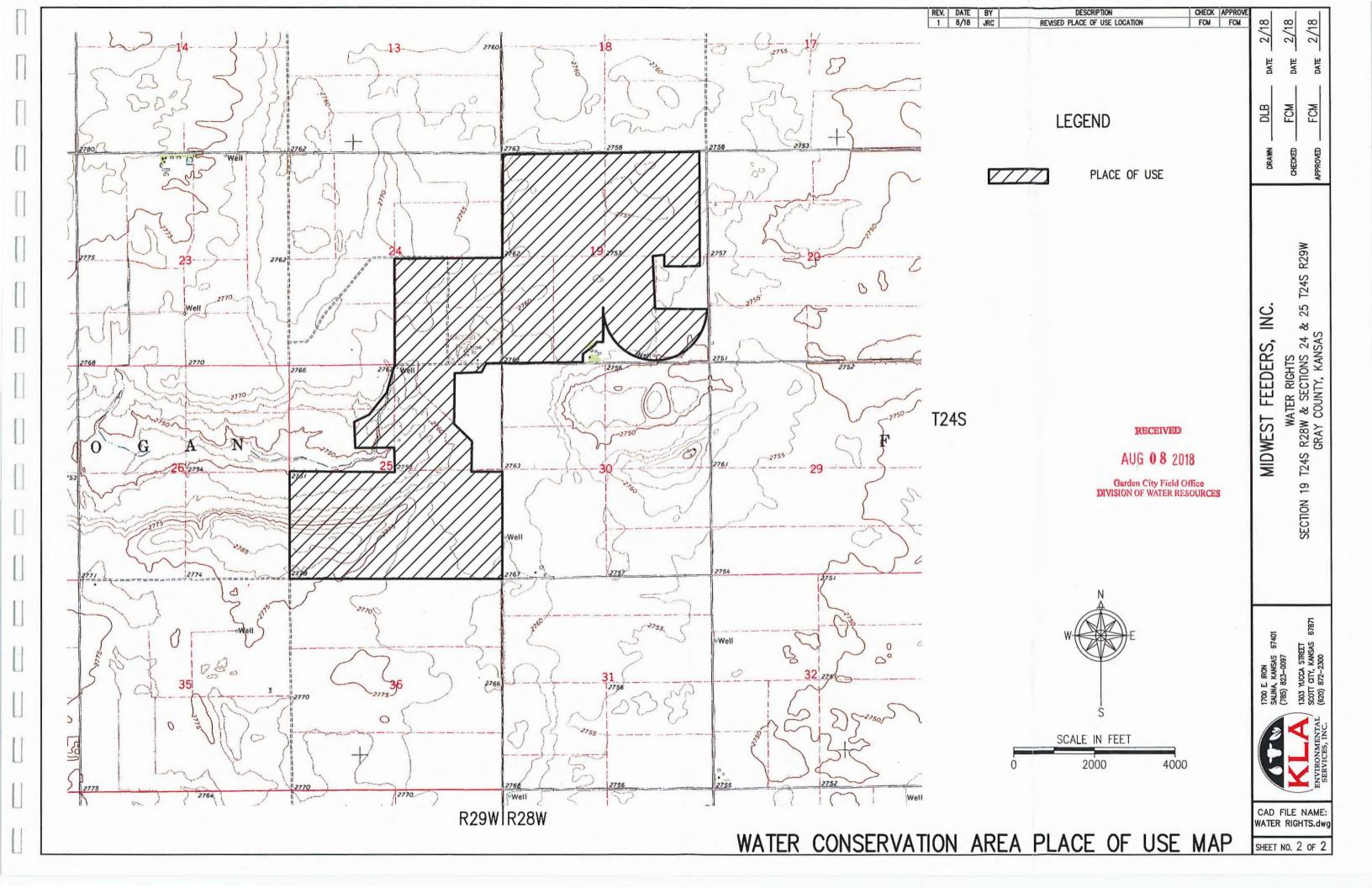
П MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN **[**] U 1-1 U **APPENDIX 1** 1 Maps Official DWR Summary U 0 1 U U U Π U H U U RECEIVED 11 AUG 08 2018 Garden City Field Office DIVISION OF WATER RESOURCES U











# 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<br>COUNT | RATE<br>(GAL/HD/DAY) |
|            | 20129485 <sup>1</sup> | 20129486 <sup>2</sup>  | 20139067 <sup>2</sup>   | 20139068 1        | 20179073 <sup>3</sup> | & 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<br>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                        |        |               |                      |

<sup>1</sup> Associated with File No. 22,122

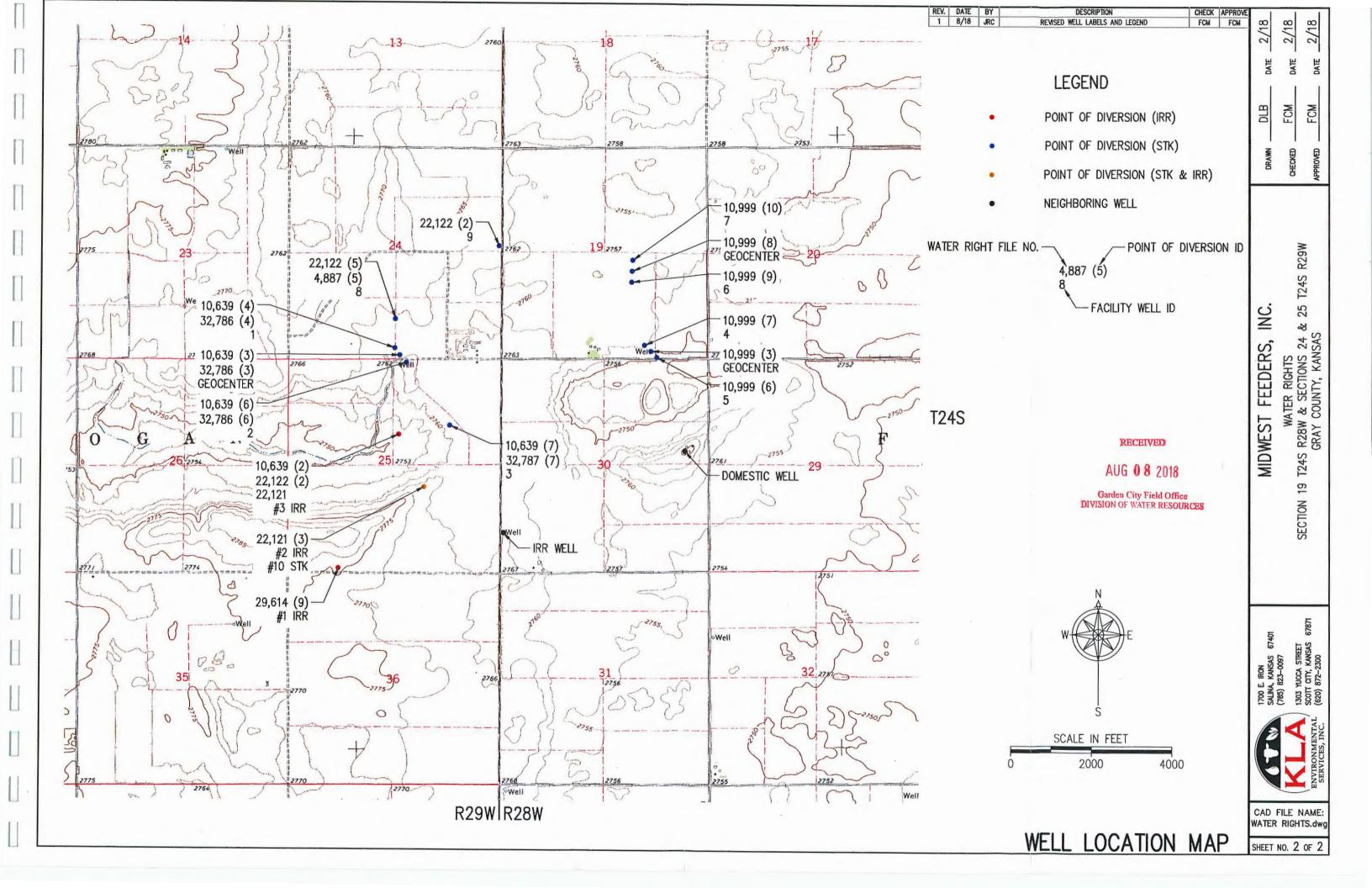
<sup>2</sup> Associated with File No. 4,887 /10,639

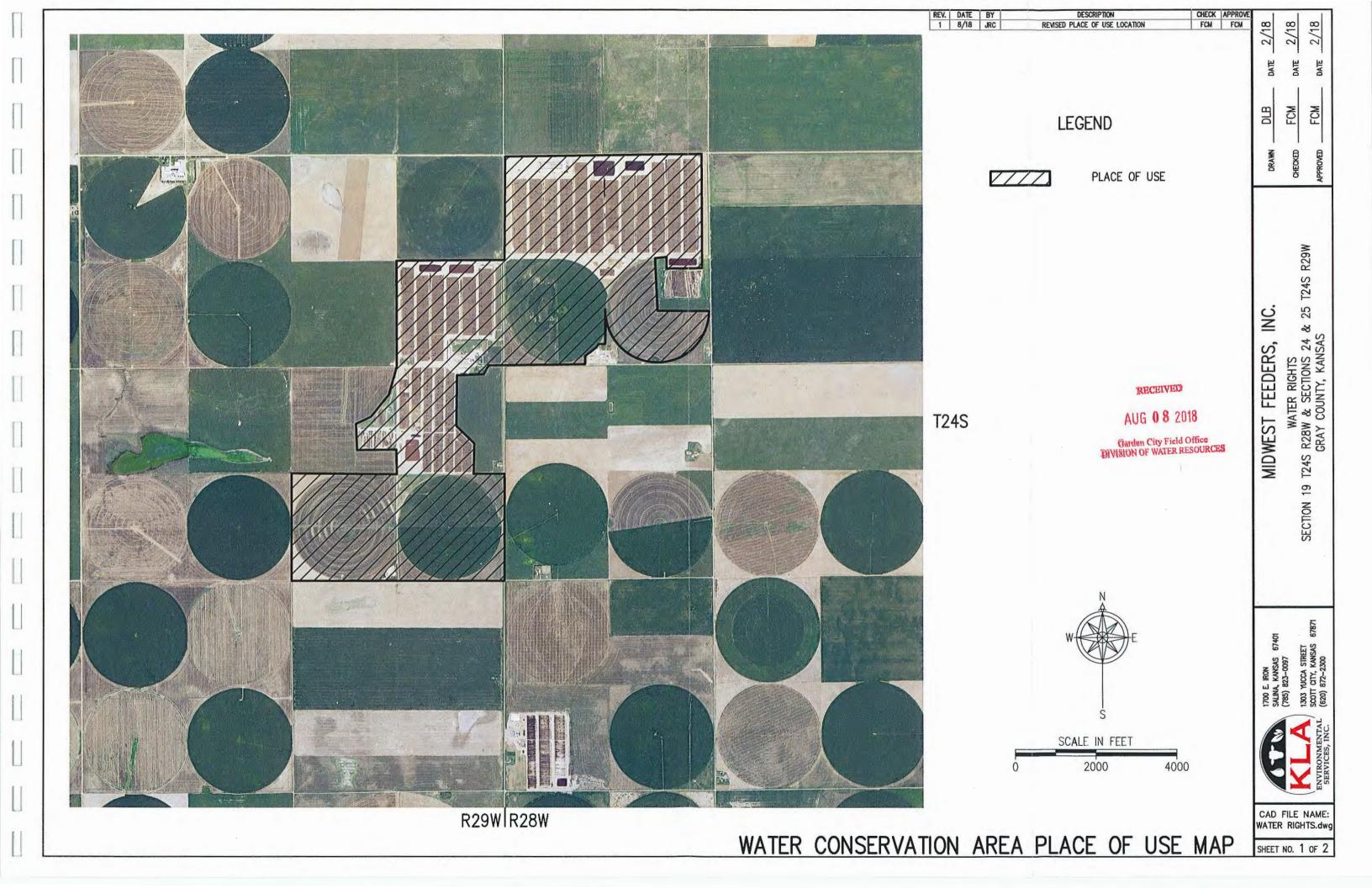
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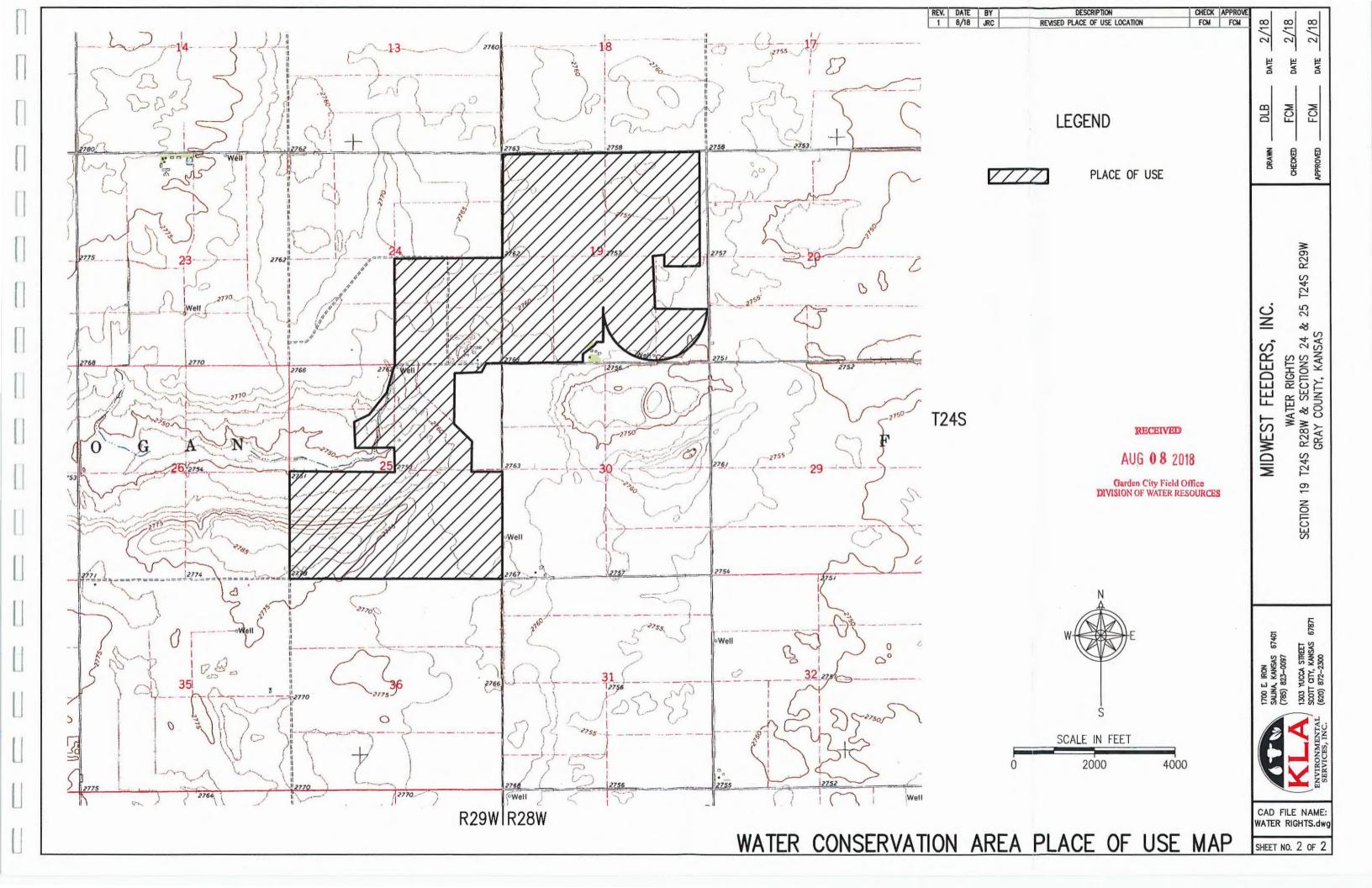
<sup>3</sup> Associated with File No. 10,999

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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<br>COUNT              | RATE<br>(GAL/HD/DAY) |             |              |
|            | 20129485 <sup>1</sup> | 20129486 <sup>2</sup>   | 20139067 <sup>2</sup>   | 20139068 1        | 20179073 <sup>3</sup> | & 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<br>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                        |                      |             |              |

<sup>1</sup> Associated with File No. 22,122

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

<sup>3</sup> Associated with File No. 10,999

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

| WR #        | ID# | PDIV# | Location<br>(Sect, Twn,<br>Range) | Historical<br>Period<br>(20XX-<br>20XX) | 2018<br>Annual<br>Auth Qty<br>(AF) | Legal Ave<br>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<br>Auth Qty (AF) | Legal Ave WU<br>(AF) | Ave Irr Acres | Actual<br>Al/Acre | % Use of<br>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<br>Allocation | Reduction<br>from Ave<br>Use | % of<br>Authorized | Est. Acre-<br>Inch (2017<br>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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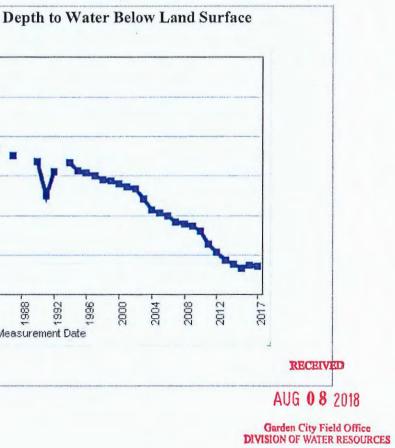
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MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN Н H Groundwater Level Decline Data 11 U 1 1 Ш U H П U

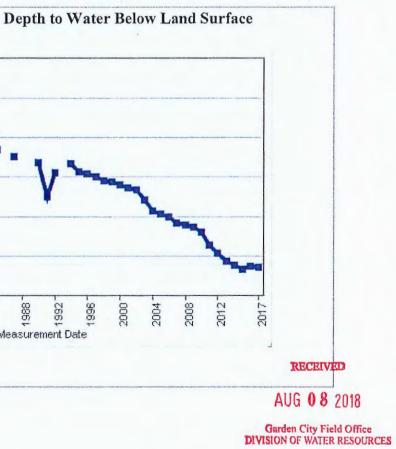
# **APPENDIX 2**

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|   | General Well Site Information  |                     |
|---|--|---------------------|
| USGS ID:  | 375735100302001 KGS Local Well<br>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<br>Accuracy:  | 5 :                 |
| Surface Elevation (ft):   | 2787 Depth of Well (ft):   |                     |
| Geological Unit<br>Codes:   | QU TO USGS Map Name:   | Piercev             |
| Use of Site:  | Withdrawal of<br>Water Use of Water:   | In                  |
| WWC5 Links:   | Water None WIMAS Link:   |                     |
| Note that depth to wa   | Water Level Measurements<br>375735100302001<br>Iter is feet below land surface and all n<br>are included.              | neasurements for th |
| Hydrograp   | 375735100302001<br>ter is feet below land surface and all n  | -                   |
| · · · · · · · · · · · · · · · · · · ·                             | 375735100302001<br>ter is feet below land surface and all n<br>are included.   | -                   |
| -90<br>-100<br>-100<br>-100<br>-100<br>-110<br>-90<br>-100<br>-10 | 375735100302001<br>ter is feet below land surface and all n<br>are included.   | -                   |
| Hydrograp)  | 375735100302001<br>Ater is feet below land surface and all n<br>are included.<br>h- Annual Average Depth to Water Belo | w Land Surface      |



|  | General Well Site Information  |                        |
|--|--|------------------------|
| USGS ID:   | 375735100302001 KGS Local Well<br>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<br>Accuracy:  | 5 s                    |
| Surface Elevation (ft):  | 2787 Depth of Well (ft)  | :                      |
| Geological Unit<br>Codes:  | QU TO USGS Map Name  | e: Piercev             |
| Use of Site:   | Withdrawal of<br>Water Use of Water:   | Irr                    |
| WWC5 Links:  | Water Wimas Link:  |                        |
|  | Water Level Measurements<br>375735100302001<br>Iter is feet below land surface and all<br>are included.<br>h- Annual Average Depth to Water Be | l measurements for th  |
| -90<br>-100  | 375735100302001<br>ter is feet below land surface and all  | l measurements for th  |
| Hydrograp)<br>-90  | 375735100302001<br>ter is feet below land surface and all<br>are included.   | l measurements for th  |
| -90<br>-100<br>-100<br>-100<br>-100<br>-110<br>-110<br>-110<br>- | 375735100302001<br>ter is feet below land surface and all<br>are included.   | l measurements for th  |
| -90<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>- | 375735100302001<br>ter is feet below land surface and all<br>are included.<br>h- Annual Average Depth to Water Be                              | I measurements for the |



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

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| JnknownSteel TapeSteel Tape </th <th>Method</th> <th>WL<br/>Source</th> <th>Tape<br/>Hold</th> <th>Chalk<br/>Cut</th> <th>Initials</th>   | Method     | WL<br>Source | Tape<br>Hold | Chalk<br>Cut | Initials |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
|---|------------|--------------|--------------|--------------|----------|--|------------|---|---|--|---|---|-----------|---|---|--|---|--|------------|---|---|--|---|--|------------|---|---|--|---|--|-----------|---|---|--|---|--|------------|--|---|--|---|-----------------------|------------|---|---|--|---|--|-----------|---|---|--|---|-----------------------|------------|---|---|--|---|------------|------------|---|---|--|---|------------|-----------|---|---|--|---|------------|------------|---|---|--|--|--|------------|---|---|--|---|------------|------------|---|---|--|---|--|-----------|---|---|--|---|----------------|------------|---|---|--|--------|
| Steel Tape       -        -         Steel Tape       -        -         Steel Tape       -        -          Steel Tape       -        -          Steel Tape       -            Steel Tape       -  | Jnknown    | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel Tape  | steel Tape | ~            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel Tape <tr <tr="">Steel Tape<td< td=""><td>teel Tape</td><td>-</td><td>-</td><td></td><td>-</td></td<></tr> <tr><td>Steel TapeSteel Tape<!--</td--><td>steel Tape</td><td>-</td><td>-</td><td></td><td>-</td></td></tr> <tr><td>Steel TapeSteel Tape<!--</td--><td>teel Tape</td><td>-</td><td>-</td><td></td><td>-</td></td></tr> <tr><td>Steel TapeSteel Tape</td><td>steel Tape</td><td>-</td><td>-</td><td></td><td>w</td></tr> <tr><td>Steel TapeSteel Tape</td><td>steel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel Tape</td><td>teel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel Tape</td><td>steel Tape</td><td></td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel Tape Steel Tape</td><td>steel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel TapeSteel TapeSteel TapeSteel TapeSteel Tape</td><td>teel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel Tape Steel Tape</td><td>steel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel Tape</td><td>steel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel Tape</td><td>teel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>steel Tape</td><td>steel Tape</td><td>_</td><td>-</td><td></td><td></td></tr> <tr><td></td><td>steel Tape</td><td>_</td><td>-</td><td></td><td>-</td></tr> <tr><td>Steel Tape</td><td>steel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td></td><td>teel Tape</td><td>-</td><td>-</td><td></td><td>-</td></tr> <tr><td>steel Tape REC</td><td>steel Tape</td><td>-</td><td>-</td><td></td><td>RECEIV</td></tr> | teel Tape  | -            | -            |              | -        | Steel TapeSteel Tape </td <td>steel Tape</td> <td>-</td> <td>-</td> <td></td> <td>-</td> | steel Tape | - | - |  | - | Steel TapeSteel Tape </td <td>teel Tape</td> <td>-</td> <td>-</td> <td></td> <td>-</td> | teel Tape | - | - |  | - | Steel TapeSteel Tape | steel Tape | - | - |  | w | Steel TapeSteel Tape | steel Tape | - | - |  | - | Steel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel Tape | teel Tape | - | - |  | - | Steel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel Tape | steel Tape |  | - |  | - | Steel Tape Steel Tape | steel Tape | - | - |  | - | Steel TapeSteel TapeSteel TapeSteel TapeSteel Tape | teel Tape | - | - |  | - | Steel Tape Steel Tape | steel Tape | - | - |  | - | Steel Tape | steel Tape | - | - |  | - | Steel Tape | teel Tape | - | - |  | - | steel Tape | steel Tape | _ | - |  |  |  | steel Tape | _ | - |  | - | Steel Tape | steel Tape | - | - |  | - |  | teel Tape | - | - |  | - | steel Tape REC | steel Tape | - | - |  | RECEIV |
| teel Tape   | -          | -            |              | -            |          |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel Tape </td <td>steel Tape</td> <td>-</td> <td>-</td> <td></td> <td>-</td>  | steel Tape | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel Tape </td <td>teel Tape</td> <td>-</td> <td>-</td> <td></td> <td>-</td>   | teel Tape  | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel Tape  | steel Tape | -            | -            |              | w        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel Tape  | steel Tape | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel Tape  | teel Tape  | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel TapeSteel Tape  | steel Tape |              | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel Tape Steel Tape   | steel Tape | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel TapeSteel TapeSteel TapeSteel TapeSteel Tape  | teel Tape  | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel Tape Steel Tape   | steel Tape | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel Tape  | steel Tape | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel Tape  | teel Tape  | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| steel Tape  | steel Tape | _            | -            |              |          |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
|   | steel Tape | _            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| Steel Tape  | steel Tape | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
|   | teel Tape  | -            | -            |              | -        |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |
| steel Tape REC  | steel Tape | -            | -            |              | RECEIV   |  |            |   |   |  |   |   |           |   |   |  |   |  |            |   |   |  |   |  |            |   |   |  |   |  |           |   |   |  |   |  |            |  |   |  |   |                       |            |   |   |  |   |  |           |   |   |  |   |                       |            |   |   |  |   |            |            |   |   |  |   |            |           |   |   |  |   |            |            |   |   |  |  |  |            |   |   |  |   |            |            |   |   |  |   |  |           |   |   |  |   |                |            |   |   |  |        |

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

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

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

#### Site Information

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

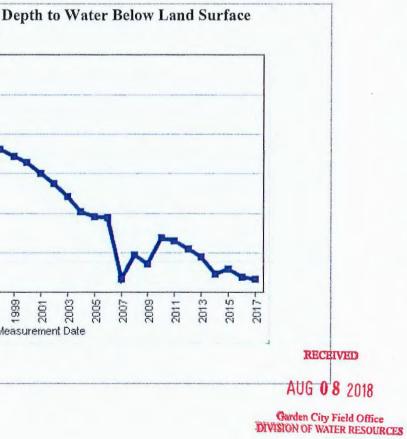
Use of Water:

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<br>Water | Status | Agency | Method        | WL<br>Source | Tape<br>Hold | Chalk<br>Cut | Initials |
|-----------------|-------------------|--------|--------|---------------|--------------|--------------|--------------|----------|
| JAN-22-<br>1985 | -108.1            | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-23-<br>1986 | -108.34           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-06-<br>1987 | -109.65           | -      | -      | Steel<br>Tape |              | -            |              | -        |
| DEC-21-<br>1987 | -109.95           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-09-<br>1989 | -111.98           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-06-<br>1990 | -111.66           |        | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-11-<br>1991 | -111.81           | -      | -      | Steel<br>Tape |              | -            |              |          |
| JAN-16-<br>1992 | -112.86           | -      | -      | Steel<br>Tape |              | -            |              | -        |
| FEB-04-<br>1993 | -112.7            | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-07-<br>1994 | -112.1            | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-12-<br>1995 | -113.82           |        | -      | Steel<br>Tape |              | -            |              | -        |
| JAN-16-<br>1996 | -114.25           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-06-<br>1997 | -116.41           | -      | KGS    | Steel<br>Tape | -            | 120          | 3.29         | UB       |
| JAN-07-<br>1998 | -116.86           | -      | KGS    | Steel<br>Tape | -            | 121          | 3.84         | JDS      |
| JAN-07-<br>1999 | -117.81           | -      | KGS    | Steel<br>Tape | -            | 120          | 1.89         | DRL      |
| JAN-08-<br>2000 | -118.6            | -      | KGS    | Steel<br>Tape |              | 120          | 1.10         | JLT      |
| JAN-06-<br>2001 | -119.98           | -      | KGS    | Steel<br>Tape | -            | 122          | 1.72         | JMA      |
| JAN-07-<br>2002 | -121.16           | -      | KGS    | Steel<br>Tape | -            | 125          | 3.54         | BBW      |
| JAN-10-<br>2003 | -122.86           | -      | KGS    | Steel<br>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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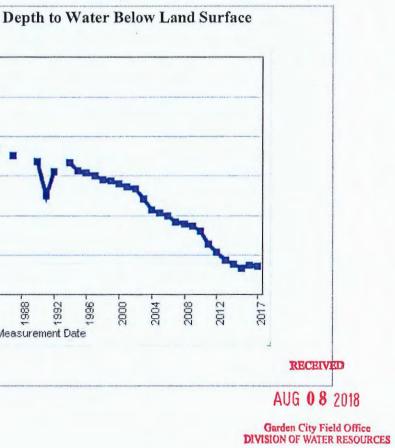
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MIDWEST FEEDERS, INC. WATER CONSERVATION AREA MANAGEMENT PLAN Groundwater Level Decline Data 11 U 1 1 Ш U H П U

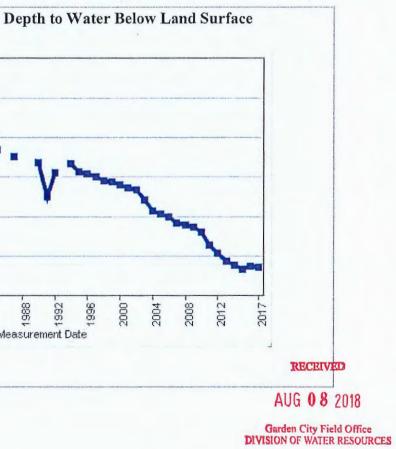
## **APPENDIX 2**

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|  | General Well Site Inform  | nation                  |            |           |      |
|--|---|-------------------------|------------|-----------|------|
| USGS ID:   | 375735100302001 KGS Loca<br>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<br>Accuracy:   |                         |            | 5         | 5 se |
| Surface Elevation (ft):  | 2787 Depth of V   | Vell (ft):              |            |           |      |
| Geological Unit<br>Codes:  | QU TO USGS Maj  | p Name:                 |            | Pierce    | evi  |
| Use of Site:   | Withdrawal of<br>Water Use of Wat   | ter:                    |            | ]         | Irri |
| WWC5 Links:  | Water Wimas L   |                         |            |           |      |
|  | Water Level Measure<br>37573510030200<br>ter is feet below land surface<br>are included.          | <b>1</b><br>and all m   |            |           | the  |
| -90<br>-100  | 37573510030200<br>ter is feet below land surface  | <b>1</b><br>and all m   |            |           | the  |
| Hydrograp)<br>-90  | 37573510030200<br>ter is feet below land surface<br>are included.                                 | <b>1</b><br>and all m   |            |           | the  |
| -90<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>- | 37573510030200<br>ter is feet below land surface<br>are included.                                 | and all m<br>ater Belov |            | rface     | the  |
| -90<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>- | 37573510030200<br>ter is feet below land surface<br>are included.<br>h- Annual Average Depth to W | and all m<br>ater Belov | v Land Sur | rface     | the  |



|  | General Well Site Information  |                  |
|--|--|------------------|
| USGS ID:   | 375735100302001 KGS Local Well<br>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<br>Accuracy:  | 5 sec            |
| Surface Elevation (ft):  | 2787 Depth of Well (ft):   |                  |
| Geological Unit<br>Codes:  | QU TO USGS Map Name:   | Piercevil        |
| Use of Site:   | Withdrawal of<br>Water Use of Water:   | Irrig            |
| WWC5 Links:  | Water Wimas Link:  | 3                |
|  | Water Level Measurements<br>375735100302001  |                  |
| -  | 375735100302001<br>ater is feet below land surface and all n<br>are included.  |                  |
| -90<br>-100 -<br>-100 -<br>-90<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br> | 375735100302001<br>ater is feet below land surface and all n   |                  |
| -90<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br>-100 -<br>  | 375735100302001<br>ater is feet below land surface and all n<br>are included.  |                  |
| -90<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>-100<br>-   | 375735100302001<br>Ater is feet below land surface and all n<br>are included.<br>h- Annual Average Depth to Water Belo | w Land Surface   |



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

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

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

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| a<br>Hydrograph- Annual Avera |
|-------------------------------|
| -105                          |
| -105                          |
| -105                          |

#### 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

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

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

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

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| JAN-03-<br>2006 | -129.99 | - | DWR | Steel Tape - | 137 | 5.91  | MSP |
|-----------------|---------|---|-----|--------------|-----|-------|-----|
| JAN-17-<br>2007 | -131.46 | - | DWR | Steel Tape - | 140 | 7.44  | MSP |
| JAN-08-<br>2008 | -132.14 | - | DWR | Steel Tape - | 135 | 1.76  | CLS |
| JAN-05-<br>2009 | -132.59 | - | DWR | Steel Tape - | 141 | 7.31  | CLS |
| JAN-04-<br>2010 | -133.82 | - | DWR | Steel Tape - | 145 | 10.08 | sv  |
| JAN-03-<br>2011 | -137.16 | - | DWR | Steel Tape - | 145 | 6.74  | sv  |
| JAN-04-<br>2012 | -139.16 | - | DWR | Steel Tape - | 144 | 3.74  | RD  |
| JAN-08-<br>2013 | -141.29 | - | DWR | Steel Tape - | 149 | 6.61  | RD  |
| JAN-07-<br>2014 | -142.17 | - | DWR | Steel Tape - | 150 | 6.73  | RD  |
| JAN-05-<br>2015 | -143.36 | - | DWR | Steel Tape - | 145 | 0.54  | RD  |
| JAN-04-<br>2016 | -142.58 | - | DWR | Steel Tape - | 145 | 1.32  | IEG |
| JAN-04-<br>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<br>Water | Status | Agency | Method        | WL<br>Source | Tape<br>Hold | Chalk<br>Cut | Initials |
|-----------------|-------------------|--------|--------|---------------|--------------|--------------|--------------|----------|
| JAN-22-<br>1985 | -108.1            | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-23-<br>1986 | -108.34           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-06-<br>1987 | -109.65           | -      | -      | Steel<br>Tape |              | -            |              | -        |
| DEC-21-<br>1987 | -109.95           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-09-<br>1989 | -111.98           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-06-<br>1990 | -111.66           |        |        | Steel<br>Tape | -            | -            |              | -        |
| JAN-11-<br>1991 | -111.81           | -      | -      | Steel<br>Tape |              | -            |              | -        |
| JAN-16-<br>1992 | -112.86           | -      | -      | Steel<br>Tape |              | -            |              | -        |
| FEB-04-<br>1993 | -112.7            | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-07-<br>1994 | -112.1            | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-12-<br>1995 | -113.82           |        | -      | Steel<br>Tape | <b></b>      | -            |              | -        |
| JAN-16-<br>1996 | -114.25           | -      | -      | Steel<br>Tape | -            | -            |              | -        |
| JAN-06-<br>1997 | -116.41           | -      | KGS    | Steel<br>Tape | -            | 120          | 3.29         | UB       |
| JAN-07-<br>1998 | -116.86           |        | KGS    | Steel<br>Tape | -            | 121          | 3.84         | JDS      |
| JAN-07-<br>1999 | -117.81           | -      | KGS    | Steel<br>Tape | -            | 120          | 1.89         | DRL      |
| JAN-08-<br>2000 | -118.6            | -      | KGS    | Steel<br>Tape |              | 120          | 1.10         | JLT      |
| JAN-06-<br>2001 | -119.98           | -      | KGS    | Steel<br>Tape | -            | 122          | 1.72         | JMA      |
| JAN-07-<br>2002 | -121.16           | -      | KGS    | Steel<br>Tape | -            | 125          | 3.54         | BBW      |
| JAN-10-<br>2003 | -122.86           | -      | KGS    | Steel<br>Tape | -            | 130          | 6.84         | JMH      |

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

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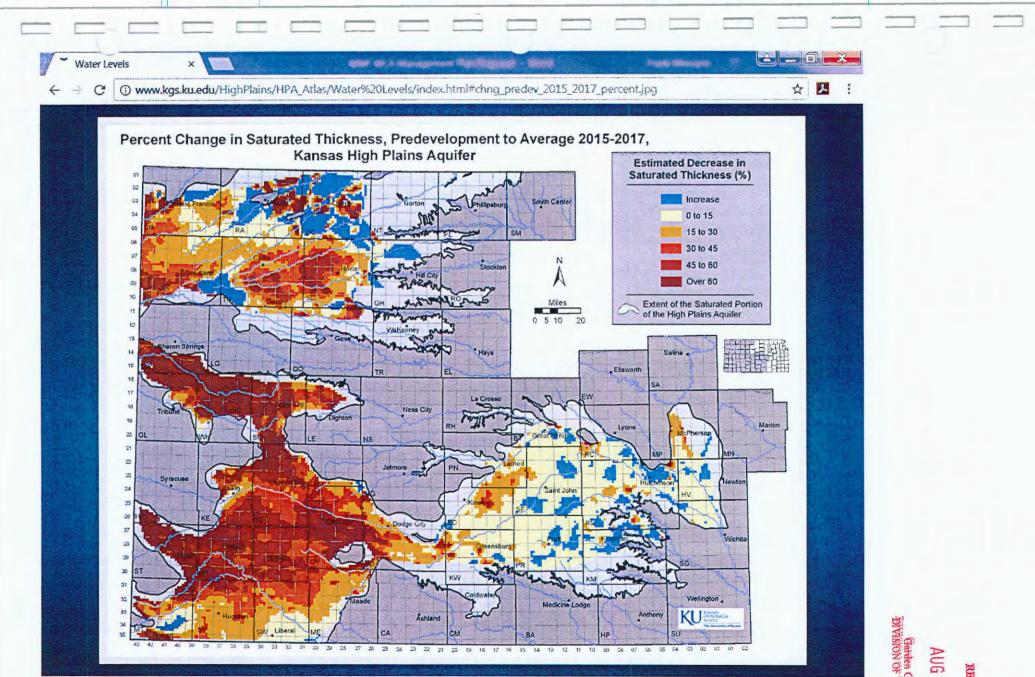
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**DNSERVATION AREA MANAGEMENT PLAN** 

# ENDIX 3

asonable Stockwater Use Effluent) Applied to Place of Use ion Purposes

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| MIDWEST FEEDERS, INC. WATER CO |
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**DNSERVATION AREA MANAGEMENT PLAN** 

# ENDIX 3

asonable Stockwater Use Effluent) Applied to Place of Use tion Purposes

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

#### PROPOSED USE FOR WCA PLAN: CURRENT AND PLANNED CAPACITIES

| LIVESTOCK<br>TYPE | USE      | UNIT RATE<br>(GAL/HD/DAY) | NO. OF<br>HEAD | NO. OF<br>DAYS | ANNUAL USE<br>(GALLONS) | ANNUAL USE<br>(ACRE-FFET) |
|-------------------|----------|---------------------------|----------------|----------------|-------------------------|---------------------------|
| BEEF<br>CATTLE    | DRINKING | 9                         | 59,320         | 365            | 194,866,200             | 598.02                    |
| BEEF<br>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.

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    |            | R (EFFLUENT) | WASTEWATER (EFFLUENT)<br>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<br>Design  |           |
|--|-----------|
|  |           |
| KS652.0605 State supplement -<br>irrigation system design  |           |
| (a) General information<br>This part contains additional technical<br>information required for the design of the<br>various types of irrigation systems. Sect<br>KS652.0605(b) addresses gravity irrigation<br>systems. Section KS652.0605(c) address<br>sprinkle irrigation systems. Section<br>KS652.0605(d) addresses micro (drip)<br>irrigation systems. | ion<br>on |
| Table KS6-1 Typical Efficiency for Irriga  | atio      |
| Irrigation   | n S       |
| Surface Irrigation - Basic (Earthen con-   | vey       |
| Surface Irrigation - Basic (Earthen con-<br>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 <sup>1/2/</sup> and Linear Move - Spr<br>Center Pivot <sup>1/2/</sup> and Linear Move - Noz<br>ground   |           |
| Center Pivot <sup>1/2/</sup> and Linear Move - Noz   | zzle      |
| Center Pivot and Linear Move - Low Er  | ner       |
| Sprinkler - Solid set  |           |
| Sprinkler Irrigation - Side roll   |           |
| Subsurface Drip Irrigation (SDI)   |           |
| <sup>1/</sup> 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<br>(%) |
|--|-------------------|
| 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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# 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

1

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

#### PROPOSED USE FOR WCA PLAN: CURRENT AND PLANNED CAPACITIES

| LIVESTOCK<br>TYPE | USE      | UNIT RATE<br>(GAL/HD/DAY) | NO. OF<br>HEAD | NO. OF<br>DAYS | ANNUAL USE<br>(GALLONS) | ANNUAL USE<br>(ACRE-FFET) |
|-------------------|----------|---------------------------|----------------|----------------|-------------------------|---------------------------|
| BEEF<br>CATTLE    | DRINKING | 9                         | 59,320         | 365            | 194,866,200             | 598.02                    |
| BEEF<br>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 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

#### 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    |            |             | WASTEWATER (EFFLUE<br>EXPORTED TO NEIGHBO |             |
|---------|------------|-------------|---|-------------|
|         | (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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 $\rightarrow$  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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| C                     | Chapter 6  | Irrigation \$<br>Design  |
|-----------------------|--|--|
|                       |  |  |
|                       | KS652.0605 State supple<br>rrigation system design   | ment -   |
| i<br>i<br>s<br>s<br>f | a) General information<br>This part contains additional to<br>information required for the devarious types of irrigation systems.<br>(S652.0605(b) addresses grassystems. Section KS652.060<br>sprinkle irrigation systems. S<br>(S652.0605(d) addresses mitorigation systems. | esign of the<br>tems. Section<br>avity irrigation<br>05(c) addresse<br>section |
| ]                     | Table KS6-1 Typical Efficier   | ncy for Irrigatio  |
|                       |  | Irrigation S   |
|                       | Surface Irrigation - Basic (E  |  |
|                       | Surface Irrigation - Basic (E<br>leveled)  |  |
|                       | Surface Irrigation - Basic (E tailwater reuse)   | Earthen convey   |
|                       | Surface Irrigation - Improve   | d (Delivery pip  |
|                       | Surface Irrigation - Improve   | d (Delivery pip  |
|                       | Surface Irrigation - Improve pipe)   | d (Tailwater re  |
|                       | Center Pivot <sup>1/2/</sup> and Linear<br>Center Pivot <sup>1/2/</sup> and Linear<br>ground   |  |
| -                     | Center Pivot 1/2/ and Linear   | Move - Nozzle  |
|                       | Center Pivot and Linear Mo   | ve - Low Ener  |
|                       | Sprinkler - Solid set  |  |
|                       | Sprinkler Irrigation - Side ro   | bll  |
|                       | Subsurface Drip Irrigation (   |  |
|                       | <sup>7</sup> When the center pivot syste   | em includes ar   |

| 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<br>(%) |
|--|-------------------|
| 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                |

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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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# 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.

LOCATION: GRAY COUNTY, KANSAS

BY: FCM DATE: 1/19/2018

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| Chapter 6   | Irrigation<br>Design  |
|---|---|
| KS652.0605 Stat   | aunnlement  |
| irrigation system   |   |
| various types of irri<br>KS652.0605(b) add<br>systems. Section k<br>sprinkle irrigation s | dditional technical<br>d for the design of the<br>gation systems. Section<br>resses gravity irrigation<br>(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 <sup>1/2/</sup> a<br>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                       |

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

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**EXPERTISE IN WATER & WELLS** 

Frank Mercurio Page 2 April 22, 2013

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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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## AUG 08 2018

Frank C. Mercurio Page 4 January 22, 2013

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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.

<sup>'</sup>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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## AUG 08 2018

| Mid west<br>Summary | Feeder<br>vof Wei | I Constru    | ction in<br>and in | Sec. 29 8<br>Sec. 19, | 25, T 245<br>T 245, F | R 291<br>2 28 W | V, Gray Co.       |                    |    |
|---------------------|-------------------|--------------|--------------------|-----------------------|-----------------------|-----------------|-------------------|--------------------|----|
|                     | DWR Nos.          | Sur, Eler, 8 |                    | 135. of 5d.           | Sercen                | SWL<br>8 Eler   | Test Cap.<br>8 DD | Sp. Cap.<br>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 |
|                     | 1                 |              |                    | -                     |                       |                 | ALLC 0.0 2030     |                    | 5  |
| 8                   | 10999-51          | 2756         | 240                | 235                   | 145-245               | 115             | AUG 08 2018       |                    | -  |

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

## RECEIVED

## er Associates, Inc. AUG 08 2018

| ders,      | THC.                     | ł              | Garden City Fie | Id Office                  |
|------------|--------------------------|----------------|-----------------|----------------------------|
| e Nos.     | Owner's No.<br>29 Jan 13 | Owner's No.    |                 | 21 May 13<br>5WL 8<br>Eler |
| 387<br>39  | 1                        | 8              | 2765            | 160'<br>2605               |
| 22         | 2.,                      | 9              | 2762            | 135<br>2627                |
| 639<br>786 | 7                        | 3              | 2761            | 135<br>2626                |
| 99         | 7                        | 4              | 2755            | 153<br>2602                |
| 199        | 6                        | 5              | 2750            | 136<br>2614                |
| 39         | 3                        | 1              | 2761            | 134<br>2627                |
| 39         | 6                        | 2              | 2765            | 149<br>2616                |
| 99         | \$                       | G              | 2757            | 152<br>2605                |
| 99         | 10                       | 7              | 2757            | 140<br>2617                |
| i j' T'    |                          |                |                 |                            |
| 39         | , 2                      | 25 May 13<br>3 | 2753 '          | 25 Mar 13<br>132<br>2621   |
| 21         | 3                        | 2              | 2765            | 154-<br>2611               |
| 514-       | 9                        | 1              | 2776            | 162<br>2614                |
|            |                          | Jan 13 .       | 2754            | Jan 13<br>175<br>2579      |

|   | 0  | C              |   |                 |
|---|--|----------------|---|-----------------|
| -   |  |                | on Midwa  |                 |
|   | 14   | 24 W an        | d Sec 19, T.  | 245,1           |
| 0   | North  |                |   |                 |
| 2800  |  |                |   | ÷ •             |
|   | 5-24   | 3 - 24         |   | 7-              |
|   |  |                |   |                 |
|   | CI & Cal   | CISGYP         |   | CI              |
| 2700  | 6.1  | 50             |   | sd              |
|   | 29   | = []           |   |                 |
| U   | C1 5 54  | CI t Sd        |   | CI<br>Sd        |
|   | Sd   |                |   | Sd<br>Cl        |
|   | ~  | Sa             |   | Sd              |
| 2600  | <u>CI</u><br>Sd  | CI             | ······································  |                 |
| n' ·  | CI   | Sd<br>CI 8 Sd  |   | Sd              |
|   | <u> </u>   | <u>CI + 5a</u> |   | CI              |
| 1   | sd.  | saber          |   | <b>N</b> 1      |
|   | CI & Sd  | CI             |   | 5 d             |
| 1500  | = 01   | Sd.            |   | <u><u> </u></u> |
|   | Shale  |                |   | <u>S</u> d      |
| П   | •  | Shale .        |   | Sha             |
| L.  | SWLIN  | Wellar 5       | -24 was 1.50'   | (Flev.          |
|   |  | 2 Dec. 2011    |   |                 |
|   |  |                | -   | •               |
|   | t  | ŀ              |   |                 |
|   | West   |                | -   |                 |
| ])<br> ]<br>  <sup>2</sup> 800                | West   |                | -   |                 |
| ])<br> ]<br>  <sup>3</sup> 800                | West   |                | D - 24  |                 |
|   | West<br>3-34   | 1              | D - 34  |                 |
|   | West   | 1              | -   |                 |
| )<br> <br>  <sup>3800</sup><br> <br> <br>2700 | West<br>3-24<br>CI & Gy  | 1              | D - 37<br>CI & Cal  |                 |
|   | West<br>3-24<br>C1 & Gy<br>Sd<br>Sd C1   | 1              | D - 27<br>CI \$ Cal<br>Sd   |                 |
|   | West<br>3-24<br>CI & Gy  | 1              | D - J7<br>CI & Cal<br>Sd<br>CI & Sd   |                 |
|   | West<br>3-24<br>CI & Gy<br>Sd<br>Sd<br>Sd<br>CI & Sd   | 1              | D - 27<br>CI & Cal<br>Sd<br>CI & Sd<br>   |                 |
|   | West<br>3 - 24<br>$CI \notin Gy$<br>Sd<br>$\overline{Sd}$<br>$\overline{Sd}$<br>$CI \notin Sd$<br>Sd   | 1              | D - 27<br>CI & Cal<br>Sd<br>CI & Sd<br>   |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>$\overline{Sd}$<br>$CI \pm Sd$<br>Sd<br>Sd<br>Sd<br>Sd  | 1              | $D - 37$ $CI \pm Cal$ $Sd$ $CI \pm 5d$ $\frac{Sd}{Sd}Cl$ $\frac{Sd}{Cl}$ $Sd$   |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>Sd<br>Sd<br>Sd<br>Sd<br>Sd<br>Sd  | 1              | $D - 37$ $CI \pm Cal$ $Sd$ $CI \pm Sd$ $Sd$ $CI \pm Sd$ $Sd$ $Cl$ $Sd$ $Cl$   |                 |
|   | West<br>3 - 24<br>$CI \neq Gy$<br>Sd<br>$\overline{Sd}$<br>$CI \neq Sd$<br>Sd<br>Sd<br>$CI \neq Sd$<br>$CI \neq Sd$<br>$CI \neq Sd$<br>$CI \neq Sd$<br>$CI \neq Sd$  | p              | $D - 27$ $CI \leq Cal$ $Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI$ $CI$ $CI$ $CI$ $CI$ $CI$   |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>$\overline{Sd}$<br>$\overline{Sd}$<br>Sd<br>Sd<br>Sd<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$Sd \pm C$<br>$Sd \pm C$   | p              | $D - 27$ $CI \leq Cal$ $Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$  |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>$\overline{Sd}$<br>$\overline{Sd}$<br>$CI \pm Sd$<br>Sd<br>$CI \pm Sd$<br>$CI \pm Sd$   | p              | $D - 27$ $CI \leq Cal$ $Sd$ $CI \leq Sd$   |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>$\overline{Sd}$<br>$\overline{Sd}$<br>$CI \pm Sd$<br>Sd<br>$CI \pm Sd$<br>$CI \pm Sd$   | p              | $D - 27$ $CI \leq Cal$ $Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $Sd$ $CI$  |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>Sd<br>Sd<br>Sd<br>$CI \pm Sd$<br>Sd<br>$CI \pm Sd$<br>$CI \pm Sd$   | p              | $D - 27$ $CI \leq Cal$ $Sd$ $CI \leq Sd$   |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>Sd<br>Sd<br>Sd<br>$CI \pm Sd$<br>Sd<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$Sd \pm CI$<br>$Sd \pm CI$   | ρ              | $D - 37$ $CI \leq Cal$ $Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI$ $Sd$ $Sd$ $CI$  |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>Sd<br>Sd<br>Sd<br>$CI \pm Sd$<br>Sd<br>$CI \pm Sd$<br>$CI \pm Sd$   | ρ              | $D - 27$ $CI \leq Cal$ $Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI$ $Sd$ $CI$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $CI$ $Sd$ $CI$ $CI$ $Sd$ $CI$ $Sd$ $Sd$ $Sd$ $Sd$ $Sd$ $Sd$ $Sd$ |                 |
|   | West<br>3 - 24<br>$CI \pm Gy$<br>Sd<br>Sd<br>Sd<br>Sd<br>$CI \pm Sd$<br>Sd<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$CI \pm Sd$<br>$Sd \pm CI$<br>$Sd \pm CI$   | p              | $D - 37$ $CI \leq Cal$ $Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI$ $Sd$ $Sd$ $CI$  |                 |
|   | West<br>3 - 24<br>$CI \notin Gy$<br>Sd<br>Sd<br>Sd<br>$CI \notin Sd$<br>$CI \notin Sd$<br>$CI \notin Sd$<br>$CI \oplus Sd$ | p              | $D - 27$ $CI \leq Cal$ $Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI \leq Sd$ $CI$ $Sd$ $CI$ $CI$ $Sd$ $CI$ $Sd$ $CI$ $CI$ $Sd$ $CI$ $CI$ $Sd$ $CI$ $Sd$ $Sd$ $Sd$ $Sd$ $Sd$ $Sd$ $Sd$ |                 |

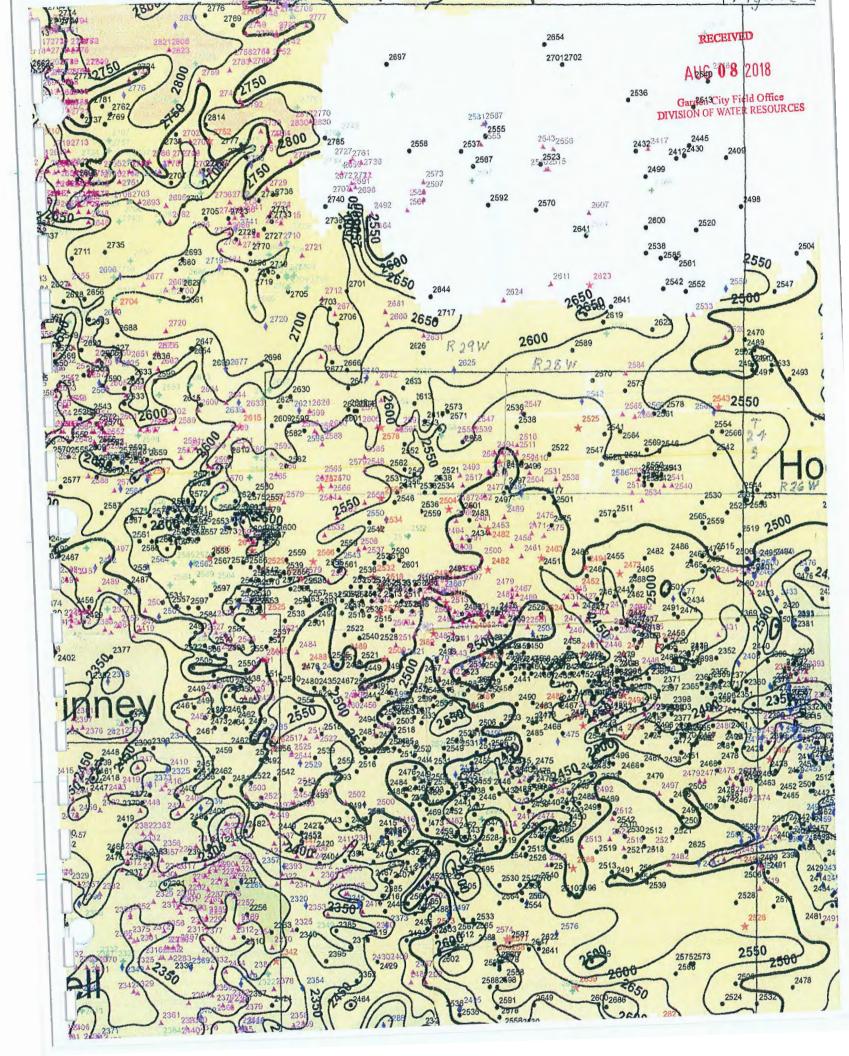
eders' property in Sec. 24 \$ 25, T 245, R 28 W, Gray Co. (See Figure 3)

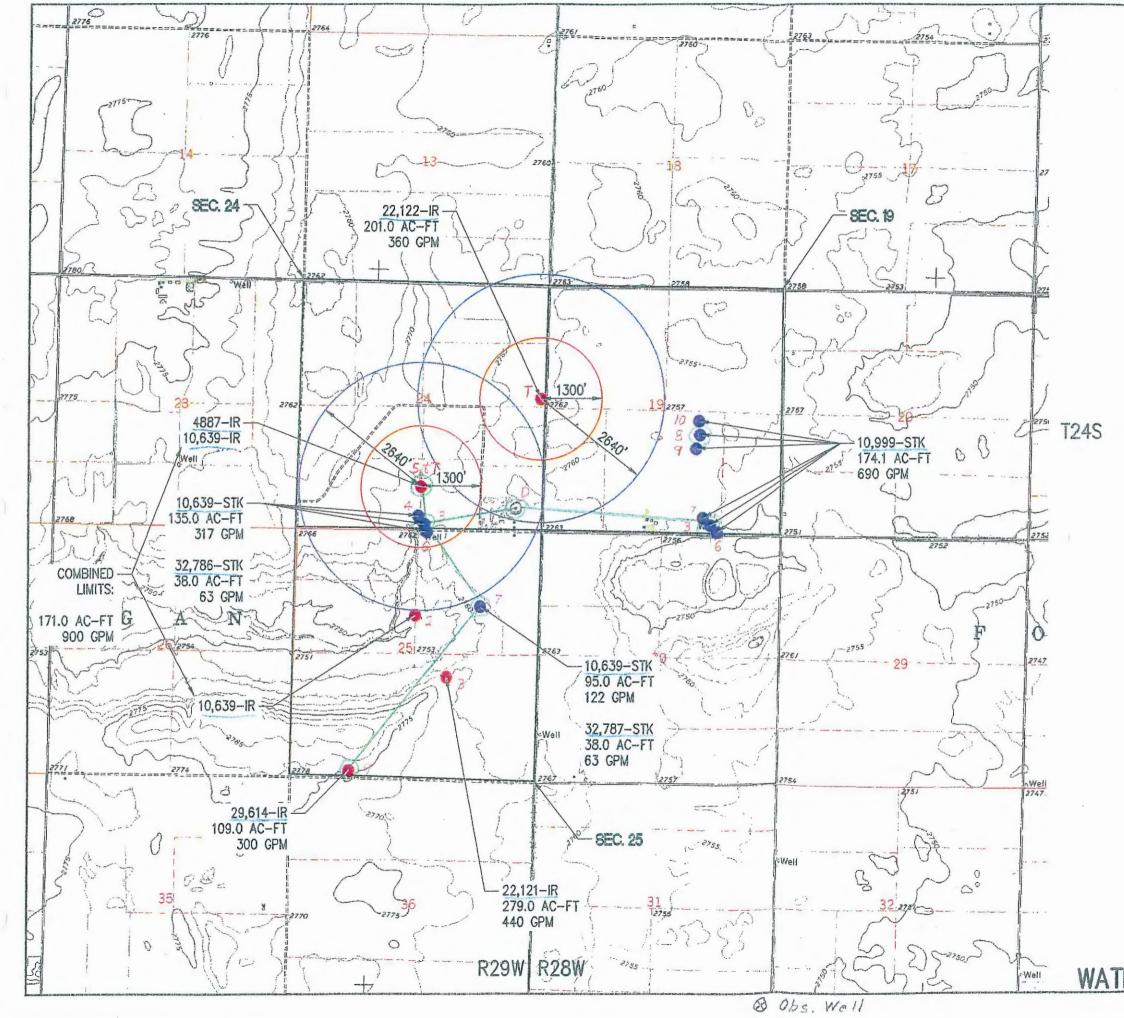
South 9-25 25 . . 8 Cal CI · Sd Cit 5d Sd \_ . . - Sd CI85d - Sd sd CISSA tsa 54. <u>CIYS</u>d Sd sd t ci sd = sd t Cl Sd CT\_\_\_\_ Shale 2615) as measured by the driller on RECEIVED . AUG 08 2018 ÷ . Garden City Field Office DIVISION OF WATER RESOURCES East 3-19 . CI & Cal & Gyp 5d CI & Sd Sd & CI 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)

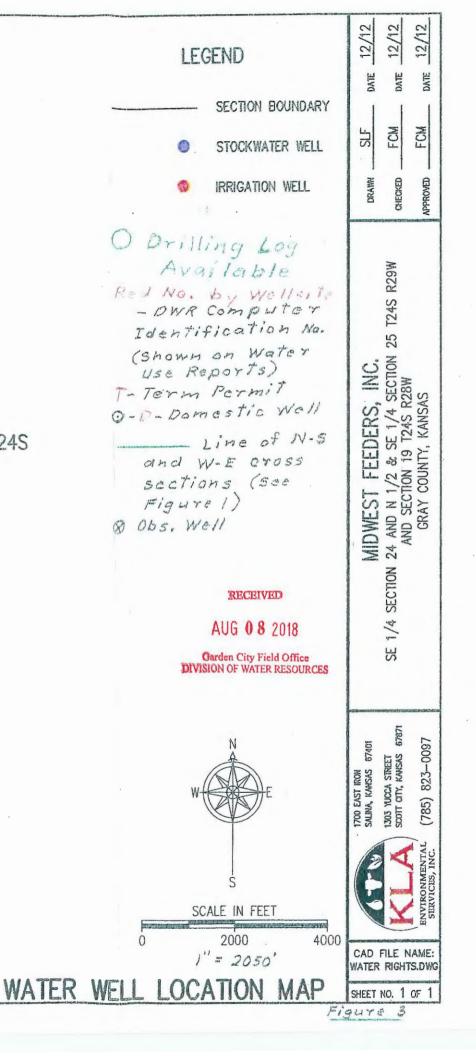
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Figure 1







Π 6 П Water Use Reports Π H П П П П U 11 P 11 

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|               | LEGAL DESCRI                    |                             |           |      |     |       | INCL                                | UDE MULTIPLICATIO                | N FACTOR             |      |       | PUMP  |      | TYPE | TYPE | WELL              | DATA |
|---------------|---------------------------------|-----------------------------|-----------|------|-----|-------|-------------------------------------|----------------------------------|----------------------|------|-------|-------|------|------|------|-------------------|------|
|               | QUALIFIERS                      | SEC TWP RNG                 | CIN       | СНМ  |     | ACRES | BEGINNING<br>WATER METER<br>READING | ENDING<br>WATER METER<br>READING | QUANTITY<br>OF WATER | UNIT | HOURS | RATE  | CROP | OF   | OF   | DEPTH TO<br>WATER | DATE |
| 4887-00<br>A  | 990N 2630W                      | 24-245-29W                  |           | VERS | 101 | 1     | •                                   |                                  | • •                  |      |       | •     |      |      |      |                   |      |
| 10639-00<br>A | 990N 2630W<br>(A: 230' S OF PRE | 24-245-29W<br>/IOUS POINT ( | 5<br>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<br>A | 170N 4030W<br>KA: 70'N & 70'W O | 25-24S-29W<br>PREVIOUS W    |           | y    |     |       | 67285800                            | 79569100                         | 12278300             | 6    | 1/109 | ether | 2,5  | - 3  | N    |                   |      |
|               | 1887 + 10639<br>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.

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Garden City Field Office DIVISION OF WATER RESOURCES

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|           | IMPORTANT: YOU MUST RE<br>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<br>esant are instructions for name and address changes, white<br>umbors listed below. If you have any questions on how to c<br>se Report for your records, and return the original report to:   |          |  |   |                                      |          |                                |                         |                      |                      |             |
|           |  |          | Kansas Depart<br>Division of V<br>109 SW 9th | e Coordinator<br>Iment of Agriculture<br>Vater Resources<br>h, Second Floor<br>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<br>File Number Point(s) of Diversion  |          | Beginning<br>Water Meter<br>Reading          | Ending<br>Water Meter<br>Reading  | Metered<br>Quantity<br>Of Water      | N        | Ноитя                          | Pump<br>Rete<br>(gpm)   | Well<br>Depth        | Depth<br>to<br>Water | Date        |
| AK        | 10639-00 102N 2514W 24-248-29W 3<br>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<br>14,204,300   | 23,529,580                           | 6 :      | ¥/                             |                         | -<br>-<br>-          |                      |             |
|           | 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     |  |   |                                      |          |                                |                         |                      |                      |             |
| ) .<br>AF | 10999-00 25N 1400W 19-248-28W 6<br>CA: BATT 1 OF 2 WELLS   |          | 2,768,400                                    | 79,232,000<br>350,700   | 16,463,600                           | 61       | ¥4                             |                         | · .                  |                      |             |
| Al        | 10999-00 325N 1700W 19-248-28W 7<br>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<br>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<br>H | 80                             | Sub-                    | Tata                 | 1                    |             |
| E         | stimate the <u>meximum</u> head count of the year.<br>() 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:<br>I submit th<br>knowingly   | ils report as the falsifying the rep | best in  | ione: (<br>formall<br>a violat | on availa<br>lon of sta | ble. I un<br>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<br>present are instructions for nan<br>numbers listed bolow. If you i<br>Use Report for your records, and | e Report <u>required</u> to retain all Ves<br>ne and address changes, which<br>asve any questions on how to com<br>d return the original report to: | ied or Appropriation Rig<br>include Information ne<br>plete this form, please o | his. Please begin I<br>weded if you have<br>ontact the Water U                                 | by reading the inside disposed of you se Coordinator at | tructi<br>ur Inf<br>(786) | ons for Pa<br>lerest in a<br>) 296-1054 | nt A on the<br>any one of<br>Please n | reverse si<br>r more of<br>nake a cop | de of this p<br>the water<br>by of the er | age. Also<br>right file<br>tire Water |
| PART A: POINTS OF DIVER   |   | Kansas Depar<br>Division of 4<br>109 SW 9t                                      | e Coordinator<br>Iment of Agriculture<br>Vater Resources<br>h, Second Floor<br>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<br>File Number  | Legal Descriptions<br>Point(s) of Diversion   | Beginning<br>Water Meter<br>Reading   | Ending<br>Water Metor<br>Reading   | Metered<br>Quantity<br>Of Water                         | UN-T                      | Hours                                   | Pump<br>Rate<br>(gpm)                 | Well<br>Depth                         | Depth<br>to<br>Water                      | Dale                                  |
| . 10999-00 1803N 1<br>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<br>AKA: BATT 1 OF 2 WE   | 844W 19-248-28W 10<br>LLLS  | 133, 223,000  | 150,437,000  | 17, 214,000   | 6                         | #7                                      |                                       |                                       |   |                                       |
| . 32786-00 102N 2<br>AKA: GEO CTR-290'8   | 514W 24-248-29W 3<br>OF PREVIOUS WELL   | Report Under  | 10639-00   |   |                           |   |                                       |                                       |   |                                       |
| . 32786-00 270N 2<br>AKA: BATT 1 OF 2 WF  | 640W 24-248-29W 4   | Report Under  | 10639-00   |   |                           |   |                                       |                                       |   |                                       |
| . 32786-00 5213N 2<br>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<br>Estimate the <u>maximum</u> he   | ed count for the year.<br>The count at one time during  | g the year.   | Cattle   |   |                           | Hogs                                    | 1019                                  | ,                                     |   |                                       |
|   |   |   | Date:  | is report as the  | best                      | phone: (_<br>t Informat                 | )<br>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<br>INGALLS, F  |   |   | 0  | wner .  |                           | Tena                                    | nt                                    |                                       | _ Agent                                   |                                       |
| DWR 1-511 (Revised 10/19/201  | 0)  | STOCKWAT  | er use report  |   |                           |   |                                       |                                       |   | erved<br>8 201                        |
|   |   |   |  |   |                           |   |                                       |                                       | nou u                                     | 0 201                                 |

m I\_ [] [][] 17 Н Π 1 11 U 11  $\cup$ 1 U E 6 

# 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<br>y, State, Z   | Address, Box                      |  | 13 RD                                  |          |
| Cit       | y, State, Z  | TL COOC                           | · Ingalis  | s, Ks 67853                            |          |
|           | CATE WE  |                                   |  |  |          |
|           | HAN "X   |                                   |  | F COMPLETED WE                         |          |
| SEC       | TION BO  | wi                                | TLIS STA   | ndwater Encountered<br>TIC WATER LEVEL | 15       |
|           |  |                                   |  | np test data: Well wi                  |          |
| N         | W N  | E ES                              | r. yield   | gpm. Well wa                           | ater v   |
| W         | 1 1  |                                   |  | meter 17, 1/2 in. to                   |          |
|           |  |                                   | Domestic   | R TO BE USED AS:                       |          |
| S         | W 1x 50  |                                   | Irrigation   |  |          |
|           | 1 [ 1  | /                                 | <b>Q</b>   | al/bacteriological sam                 |          |
|           | S  |                                   |  | o/day/yr sample was s                  |          |
|           | 1 mile   | Wa                                |  |  | ] No     |
|           |  | SING USED                         |  |  | ] Oth    |
| CASIN     | IG JOINT   | S: I Glue                         |  | amped 🗍 Welded                         |          |
| Casi      | ng diamet  | above land su                     | In. 10 . fr T  | in., Weig                              | tht 6    |
|           |  |                                   |  | MATERIAL:                              |          |
|           | Steel  | Stainless                         |  | PVC                                    |          |
| 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<br>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.<br>T 24 S                        | $R 29 \square E \square W$                       |
| & direction       | Glob         | al Positioning           | System (GPS) in                               | formation:                                       |
| eck here $\Box$ . | Lati         | tude:                    | 64.N<br>521 W                                 | (in decimal degrees)<br>(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.                      |   |  |
| 150               | ft           | . (2)                    | ft. (3  | 3) ft.<br>ay/yr <u>12<del>.</del>27.11</u>       |
| 202               | tt. below    | land surface n           | neasured on mo/da                             | ay/yr14:44:                                      |
| ter was. AHA      | f            | t after                  | hours pump                                    | bing135 gpm<br>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          |              | *****                    |   |  |
|                   |              |                          |   |  |
| Other             |              |                          |   |  |
| Thread            | bd           | A D!                     |   | te te A  |
| in<br>h+ 6.99     | . 10<br> be/ | HI Wall thick            | ameter  | in. to   |
| 116 .TCAT         |              | it., wan uno             | Micsa of gauge 110                            | 5 - 655755 February 1999 - 1999                  |
| [                 | Other (      | (Specify)                |   |  |
| hole)             |              |                          |   |  |
| Torch cut         |              | illed holes              | None (open hole)                              |  |
| Saw cut           |              | her (specify)            |   |  |
| . It. to 444      | *********    | ft., From                | ft. to  | ) II.  |
| . ft. to          |              | ft., From                | ft. to  | ) ft.  |
| . ft. to240.      | •••••        | ft., From                | ft. ta  | o ft.  |
|                   |              |                          |   | ) ft.  |
|                   |              |                          |   | ft. toft.  |
| 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<br>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 <b>08</b> 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<br>035 GRAY  |  | Fraction<br>SW  |  | 1/4  | SE   | 1/4   |
|  |   | ction from ne<br>ES NORTH & 1/   |   |  |  |  | addre                                       |
|  | ELL OWNER:<br>. Address,  | MII<br>Box # : 050   |   |  |  |  |   |
| City, S  | tate, ZIP   | code : ING   | ALLS, K   | 56   | 7853-90  | 23   |   |
| 1  | WELL'S LOC<br>IN SECTION  |  | 3   |  | TH OF C  |  |   |
|  |   |  |   | WELL'  | S STATI<br>Pu  | C WAT  |   |
| 1  -   | NW  |  |   | Estim  | ated Yi  | eld  | 250   |
| M<br>  i W  <br>  l l  |   |  | E   | Bore   | Hole Di  | ameter   | ^   |
| e  -   | SW  |  |   | WELL   | WATER T  | O BE I   | JSED #                                      |
|  |   |  |   |  | chemic<br>s, mo/d  |  |   |
| Blank ca<br>  Casing  <br>  TYPE OF  | asing diama<br>height abov<br>SCREEN OR   | ING USED: 02<br>oter <u>85</u><br>ve land surfa<br>PERFORATION   | <mark>/8 in. t</mark><br>ce 12<br>MATERIAL  | :o 27<br>2 1n.,<br>.: 07 P   | 7 ft.,<br>we<br>VC   | ight   |   |
| Blank ca<br>  Casing  <br>  TYPE OF<br>  SCREEN (  | asing diamk<br>height abov<br>SCREEN OR<br>DR PERFORAT  | eter <u>85</u><br>ve land surfa<br>PERFORATION   | /8 in. t<br>ce 12<br>MATERIAL<br>ARE:   | :0 27<br>2 1n.,<br>: 07 P<br>03 M  | 7 ft.,<br>we<br>VC   | Oia<br>ight<br>T<br>. to   | 7   |
| Blank ca<br>  Casing  <br>  TYPE OF<br>  SCREEN (<br>  SCREEN  | asing diame<br>height abov<br>SCREEN OR<br>DR PERFORAT<br>PERFORATED  | eter <u>85</u><br>ve land surfa<br>PERFORATION<br>TION OPENINGS  | /8 in. t<br>ce 12<br>MATERIAL<br>ARE:   | :0 27<br>2 1n.,<br>: 07 P<br>03 M<br>From  | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft  | Oia<br>ight<br>T<br>. to<br>. to<br>. to   | 7<br>147<br>187<br>277                      |
| Blank ca<br>  Casing  <br>  TYPE OF<br>  SCREEN (<br>  SCREEN  | asing diame<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK  | eter <u>85</u><br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:  | /8 in. t<br>Ce 12<br>MATERIAL<br>ARE:   | 2 1n.,<br>2 1n.,<br>2 1n.,<br>2 1n.,<br>2 1n.,<br>0 7 P<br>0 3 M<br>From<br>From<br>From   | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft   | Oia<br>ight<br>T<br>. to<br>. to<br>. to   | 7<br>147                                    |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN (<br>SCREEN )<br>SCREEN I<br>Grout I<br>Grout Ir<br>What is  | asing diama<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>ntervals:  | eter <u>85</u><br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 f<br>st source of  | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to   | 2 1n.,<br>2 1n.,<br>2 1n.,<br>3 M<br>From<br>From<br>From<br>From<br>From  | 7 ft.,<br>we<br>VC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft                                 | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to                                   | 7<br>147<br>187<br>277<br>0<br>0 ft.        |
| Blank ca<br>  Casing  <br>  TYPE OF<br>  SCREEN (<br>  | asing diame<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>RAVEL PACK<br>ATERIAL<br>ntervals:<br>the neares  | eter <u>85</u><br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 f<br>st source of  | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to<br>possible   | 2 1n.,<br>2 1n.,<br>2 1n.,<br>3 M<br>From<br>From<br>From<br>From<br>From  | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft                                 | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to                                   | 7<br>147<br>187<br>277<br>0<br>0 ft.        |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN O<br>SCREEN O<br>GROUT MA<br>Grout Ir<br>What is<br>Directio<br>FROM<br>0  | asing diams<br>height aboy<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>htervals:<br>the neares<br>on from we<br>TO<br>2                                     | eter <u>8</u> 5<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 f<br>st source of<br>17 SOUTH<br>02 SILT  | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to<br>possible   | 2 1n.,<br>2 1n.,<br>2 1n.,<br>2 1n.,<br>107 P<br>03 M<br>From<br>From<br>From<br>From<br>From<br>25 ft<br>contai   | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft                                 | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to                                   | 7<br>147<br>187<br>277<br>0<br>0 ft.        |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN O<br>SCREEN I<br>GROUT MA<br>Grout In<br>What is<br>Directio   | asing diams<br>height aboy<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>ntervals:<br>the neares<br>on from we  | eter <u>85</u><br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 f<br>st source of<br>17 SOUTH  | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to<br>possible   | 2 1n.,<br>1 n.,<br>1 | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft                                 | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to                                   | 7<br>147<br>187<br>277<br>0<br>0 ft.        |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN 0<br>SCREEN 0<br>GROUT MA<br>Grout In<br>What is<br>Direction<br>FROM<br>D<br>2  | asing diams<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>htervals:<br>the neares<br>on from we<br>TO<br>2<br>28                               | eter <u>8</u> 5<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 f<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY  | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to<br>possible<br>LIT<br>K 01 CLA                                  | 2 1n.,<br>1 n.,<br>1 | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft                                 | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to                                   | 7<br>147<br>187<br>277<br>0<br>0 ft.        |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN O<br>SCREEN O<br>SCREEN I<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G | asing diams<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>ntervals:<br>the neares<br>on from we<br>TO<br>2<br>8<br>50<br>59<br>75              | eter <u>8</u> 5<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITE<br>From 5 f<br>st source of<br>17 SOUTH<br>O2 SILT<br>O1 CLAY<br>36 GYP ROC<br>O5 SAND 13<br>O5 SAND 11                           | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to<br>possible<br>LIT<br>K 01 CLA<br>FINE GR                       | 2 1n.,<br>1 n.,<br>1 | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft                                 | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to                                   | 7<br>147<br>187<br>277<br>0<br>0 ft.        |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN O<br>SCREEN O<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE<br>GE                              | asing diams<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>ntervals:<br>the neares<br>on from we<br>TO<br>2<br>28<br>50<br>59<br>75<br>79       | eter <u>8</u> 5<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITE<br>From 5 f<br>st source of<br>17 SOUTH<br>O2 SILT<br>O1 CLAY<br>36 GYP ROC<br>O5 SAND 13<br>O5 SAND 11<br>O1 CLAY                | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to<br>possible<br>LIT<br>K 01 CLA<br>GRAVEL                        | 2 1n.,<br>2 1n.,<br>2 1n.,<br>2 1n.,<br>107 P<br>03 M<br>From<br>From<br>From<br>From<br>From<br>From<br>From<br>HOLOGIO<br>Y<br>AVEL  | 7 ft.,<br>we<br>WC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft<br>., From<br>mination          | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to<br>. to                           | 7<br>147<br>187<br>277<br>0<br>0 ft.        |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN O<br>SCREEN O<br>SCREEN I<br>Grout In<br>What is<br>Directio<br>FROM<br>0<br>2<br>28<br>50<br>59                         | asing diams<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>ntervals:<br>the neares<br>on from we<br>TO<br>2<br>8<br>50<br>59<br>75              | eter <u>8</u> 5<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITE<br>From 5 f<br>st source of<br>17 SOUTH<br>O2 SILT<br>O1 CLAY<br>36 GYP ROC<br>O5 SAND 13<br>O5 SAND 11                           | <u>/8 in. t</u><br>ce 12<br>MATERIAL<br>ARE:<br>t. to<br>possible<br>LIT<br>K 01 CLA<br>FINE GR<br>GRAVEL<br>ND 08 ME | 2 1n.,<br>2 1n.,<br>2 1n.,<br>3 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft<br>contau<br>HOLOGIO<br>Y<br>AVEL<br>DIUM SU   | 7 ft.,<br>we<br>VC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft<br>., From<br>mination<br>C LOG | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to<br>. to                           | 7<br>147<br>187<br>277<br>0<br>0 ft<br>ABAN |
| Blank ca<br>Casing I<br>TYPE OF<br>SCREEN O<br>SCREEN O<br>GE<br>GROUT MA<br>Grout In<br>What is<br>Directio<br>FROM<br>0<br>2<br>28<br>50<br>59<br>75<br>79       | asing diams<br>height abov<br>SCREEN OR<br>DR PERFORATED<br>PERFORATED<br>RAVEL PACK<br>ATERIAL<br>htervals:<br>the neares<br>on from we<br>TO<br>2<br>28<br>50<br>59<br>75<br>79<br>88 | eter <u>8</u> 5<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 f<br>st source of<br>17 SOUTH<br>02 SILT<br>01 CLAY<br>36 GYP ROC<br>05 SAND 13<br>05 SAND 11<br>01 CLAY<br>07 FINE SAU | ARE:<br>4. to<br>possible<br>LIT<br>K 01 CLA<br>FINE GR<br>GRAVEL<br>ND 08 ME<br>SANDY C<br>ND 08 ME                  | 2 1n.,<br>2 1n.,<br>2 1n.,<br>2 1n.,<br>107 P<br>03 M<br>From<br>From<br>From<br>From<br>From<br>25 ft<br>contau<br>HOLOGIO<br>Y<br>AVEL<br>DIUM SU<br>LAY 05  | 7 ft.,<br>we<br>VC<br>ILL SLO<br>127 ft<br>167 ft<br>25 ft<br>0 ft<br>., From<br>mination<br>C LOG | 0ia<br>ight<br>T<br>. to<br>. to<br>. to<br>. to<br>. to<br>. to<br>. to<br>to<br> | 7<br>147<br>187<br>277<br>0<br>0 ft<br>ABAN |

10,639-STK \$ 32,786

m WWC-5 KSA 82a-1212

|   |  | T 24  | Number<br>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<br>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<br>e was submitted  | ubmitted                                       |   | ment? No ;<br>Water wel                  | ll disinfe             | ected? Yes |
|   |  |   |  |                        |            |
| S: GLUED<br>in. to 0 ft.,   |  |   |  |                        |            |
| S: GLUED<br>in. to 0 ft.,<br>lbs/ft. Wall th<br>ft., From 207 f   | ickness c                                      | pr gauge No<br>227 ft.                              |  |                        |            |
| S: GLUED<br>in. to 0 ft.,<br>lbs/ft. Wall th<br>ft., From 207 f<br>ft., From 247 f<br>ft., From 0 f   | ickness of<br>ft. to<br>ft. to<br>ft. to       | or gauge No<br>227 ft.<br>267 ft.<br>0 ft.          |  |                        |            |
| S: GLUED<br>in. to O ft.,<br>lbs/ft. Wall th  | ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to | or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | o. , 410                                 |                        |            |
| S: GLUED<br>in. to 0 ft.,<br>lbs/ft. Wall th<br>ft., From 207 f<br>ft., From 247 f<br>ft., From 0 f<br>ft., From 0 f<br>ft., From 0 f             | ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to | or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | o410                                     | w many fe              | et? 290    |
| S: GLUED<br>in. to 0 ft.,<br>lbs/ft. Wall th<br>ft., From 207 f<br>ft., From 247 f<br>ft., From 0 f<br>ft., From 0 f<br>ft., From 0 f             | ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to | or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | o410                                     | w many fe              | et? 290    |
| S: GLUED<br>in. to 0 ft.,<br>lbs/ft. Wall th<br>ft., From 207 f<br>ft., From 247 f<br>ft., From 0 f<br>ft., From 0 f<br>ft., From 0 f<br>t., WELL | ft. to<br>ft. to<br>ft. to<br>ft. to<br>Ft. to | or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | 0 ft.<br>O ft.<br>Ho<br>PLUGGING I       | w many fe              | et? 290    |
| S: GLUED<br>in. to 0 ft.,<br>lbs/ft. Wall th<br>ft., From 207 f<br>ft., From 247 f<br>ft., From 0 f<br>ft., From 0 f<br>ft., From 0 f<br>t., WELL | ft. to<br>ft. to<br>ft. to<br>ft. to<br>Ft. to | or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | o410<br>O ft.<br>Ho<br>PLUGGING I.<br>RE | w many few<br>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<br>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<br>/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

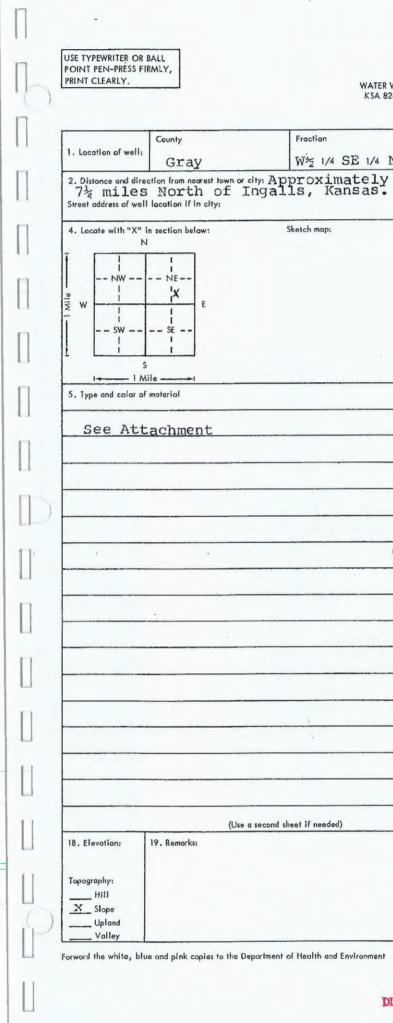
3 & 3 conti.

Application Number: 10,639 & 32,786

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## 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)<br>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<br>Lawn O                                   |          |                   |                 |
|           |           |        | 9. Casing: Materia Stee                                  |          |                   |                 |
|           |           |        | Threaded WeldedX   | Surfo    | Ice 12            | in.             |
|           |           |        | RMPPVC   |          |                   |                 |
|           | - 1       | T      | Dia 51.8275 ft. dep<br>Dia in. to ft. dep                |          |                   |                 |
|           | From      | То     | 10. Screen: Manufacturer's                               | -        |                   |                 |
|           |           |        | Doerr  | Scr      | een r             |                 |
|           |           |        | Slot gauze 060   | - Dia.   | - <del>8 70</del> | 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:<br><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:<br>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<br>ft Direction           | est      | Type Fe           | ed T            |
|           |           |        | Well disinfected upon comple                             | tion?    | Yes .             | X_No            |
|           |           |        | 17. Pump:  | X        | Not installed     |                 |
|           |           |        | Manufacturer's nome<br>Model number                      | _ HP _   | Vo                | 14              |
|           |           |        | Length of drop pipe                                      |          |                   | -g.p.m.         |
|           |           |        | Туре:  |          | ,,                | 3 · P · · · · · |
|           |           |        | Submersible  |          | Turbin            | 1               |
|           |           |        | Jet<br>Centrifugal                                       |          | Recipro<br>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<br>Business name                           | ng&      |                   | 45<br>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<br>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.<br>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   |
| $\vdash$ |                     |        |      |   |   |
| 1        |                     |        |      |   |   |
| t        |                     |        |      |   |   |
| 1        |                     |        |      |   |   |
|          |                     |        |      |   |   |
|          |                     |        |      |   |   |
| -        |                     |        |      |   |   |
| _        | And and a state of  |        |      |   |   |
|          | _                   |        |      |   |   |
| -        | -                   |        |      |   |   |
| L        | (in) and the second | -      |      |   |   |
| -        |                     |        |      |   | · · · · · · · · · · · · · · · · · · ·   |
| 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<br>DIVISION OF WATE                                 |           |
| DIVISION OF WATER   | RESOURCES |
|   |           |
|   |           |
| G & SUPPLY CO., INC. SUBLETTE, KS<br>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

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| 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<br>y, State, ZIP Coe |                            | 05013             |  |            |
| CIL      | y, State, 211 Co.                     |                            | Ingalis,          | Ks 67853                                 |            |
|          | CATE WELL                             |                            |                   |  |            |
|          | TH AN "X" IN                          |                            |                   | COMPLETED WE<br>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<br>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<br>1 mile                           |                            |                   | /day/yr sample was s<br>nfected? 🔽 Yes 🗌 | ubm<br>] 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<br>RVALS. | Wire wrapped<br>From <u>160</u>          | Ц<br>ft    |
| bold.    |                                       |                            |                   | From                                     | . ft.      |
|          | GRAVEL PA                             | CK INTE                    | RVALS:            | From. 25                                 | . ft.      |
|          |                                       |                            |                   | From                                     |            |
|          | OUT MATERIA<br>Intervals: Fro         |                            | Neat cem          | ent Cement gro                           | ut         |
|          | the nearest sourcest                  |                            |                   |  |            |
|          | Septic tank                           |                            | Lateral li        | nes 🔲 Pit privy 🕤                        |            |
|          | Sewer lines<br>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<br>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<br>well/index.h | py to WAT<br>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.<br>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)<br>(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                       |                        | )<br>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.<br>ay/yr <u>12<del>.</del>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<br>other (Specify below)                 |
|                 |            |                                      |                        | other (Specify below)                                  |
|                 |            | tment?                               |                        | ** , , , , , , , , , , , , , , , , , ,                 |
| ubmitted        |            |                                      | -                      |  |
| ] 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<br>קר to         | o ft.<br>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<br>256      | 256<br>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<br>ds. Include fee c | son St., Suite 420, To | peka, Kansas 66612-1367.<br>structed well. Visit us at |
|                 |            |                                      |                        | the start is the start is the start                    |

| 1/4 SE 1/4<br>ity street addre<br>INGALLS<br>353-9023<br>H OF COMPLETED &<br>n(s) Groundwater<br>STATIC WATER LE<br>Pump testdat |
|--|
| INGALLS<br>353-9023<br>H OF COMPLETED W<br>n(s) Groundwater<br>STATIC WATER LE<br>Pump testdat                                   |
| H OF COMPLETED W<br>n(s) Groundwater<br>STATIC WATER LE<br>Pump testdat  |
| H OF COMPLETED W<br>n(s) Groundwater<br>STATIC WATER LE<br>Pump testdat  |
| n(s) Groundwater<br>STATIC WATER LE<br>Pump testdat  |
| STATIC WATER LE<br>Pump testdat  |
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| ted Yield 250  |
| ole Diameter   |
| TER TO BE USED   |
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| mo/day/yr samp   |
| no/day/yr samp   |
| L SLOT<br>27 ft. to 147  |
| 67 ft. to 187  |
|  |
| 25 ft. to 277  |
| 25 ft. to 277<br>0 ft. to 0  |
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| 0 ft. to 0   |
| 0 ft. to 0<br>From 0 ft<br>nation: 14 ABAN   |
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| O ft. to O<br>From O ft<br>nation: 14 ABAN<br>LOG<br>D O9 COARSE SAN<br>AND  |
| 0 ft. to 0<br>From 0 ft<br>nation: 14 ABAN   |
|  |

10,639-STK \$ 32,786

m WWC-5 KSA 82a-1212

|  | Section N<br>24  | umber  | Township<br>  T <b>24</b>                                     |   | 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<br>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<br>in.<br>1bs/                               | LUED<br>to Off<br>ft. Wall t   | c., Dia<br>Chickness   | in. to<br>or gauge No   | D ft.                                       | 1         |        |     |
| TS: G<br>in.<br>lbs/                               | LUED<br>to O ft<br>ft. Wall t<br>From 207  | t, Dia<br>chickness<br>ft. to  | in. to<br>or gauge No<br>227 ft.                              | D ft.                                       |           |        |     |
| <pre>FS: G in. lbs/ ft., ft., ft.,</pre>           | LUED<br>to O ft<br>ft. Wall t<br>From 207<br>From 247<br>From 0                                  | t, Dia<br>chickness<br>ft. to<br>ft. to<br>ft. to  | in. to<br>or gauge No<br>227 ft.<br>267 ft.<br>0 ft.          | D ft.                                       |           |        |     |
| <pre>FS: G in. lbs/ ft., ft., ft.,</pre>           | LUED<br>to O ft<br>ft. Wall t<br>From 207<br>From 247  | t, Dia<br>chickness<br>ft. to<br>ft. to<br>ft. to  | in. to<br>or gauge No<br>227 ft.<br>267 ft.<br>0 ft.          | D ft.                                       |           |        |     |
| <pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre> | LUED<br>to 0 ft<br>ft. Wall t<br>From 207<br>From 247<br>From 0<br>From 0<br>From 0              | thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickn | in. to<br>or gauge No<br>227 ft.<br>267 ft.<br>0 ft.          | 0 D ft.                                     |           |        |     |
| <pre>TS: G in. 1bs/ ft., ft., ft., ft.,</pre>      | LUED<br>to 0 ft<br>ft. Wall t<br>From 207<br>From 247<br>From 0<br>From 0<br>From 0              | thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickn | in. to<br>or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | 0 D ft.<br>                                 | e many fe | eet?   | 290 |
| <pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre> | LUED<br>to 0 ft<br>ft. Wall t<br>From 207<br>From 247<br>From 0<br>From 0<br>From 0              | thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickness<br>thickn | in. to<br>or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | 0 D ft.<br>                                 | , many fe | eet?   | 290 |
| <pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre> | LUED<br>to O ft<br>ft. Wall t<br>From 207<br>From 247<br>From 0<br>From 0<br>From 0<br>ft.,<br>L | ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From   | in. to<br>or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | 0 ft.<br>0 ft.<br>How<br>PLUGGING IN        | , many fe | eet?   | 290 |
| <pre>TS: G in. 1bs/ ft., ft., ft., ft., ft.,</pre> | LUED<br>to O ft<br>ft. Wall t<br>From 207<br>From 247<br>From 0<br>From 0<br>From 0<br>ft.,<br>L | ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From   | in. to<br>or gauge No<br>227 ft.<br>267 ft.<br>0 ft.<br>0 ft. | D ft.<br>410<br>O ft.<br>How<br>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<br>, St. Addre   |  | MIDWEST<br>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<br>8   05 SA<br>0   04 SA<br>0   01 CL<br>6   05 SA<br>1   01 CL | AY 20 LIME<br>IND 28 ROCK<br>IND 13 FINE<br>INDY CLAY 0<br>AY<br>IND 28 ROCK<br>AY 04 SAND | GRAVEL 28 ROO<br>17 FINE SAND                          | ck<br>Estone                |
| 1 2 | 258 26   | 7 07 FI<br>0 01 CL   | ine sand qe<br>.ay   | MEDIUM SAND  |                             |
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| j   | i  | Ì  |  |  |                             |
|     |  |  |  |  |                             |
| con | npleted on (<br>ter Well Cor   | mo/day/year<br>tractor's l   | ) 07/28/98<br>icense No.   | CATION: This<br>and this reco<br>145<br>WRILLING & SUP | ord is true<br>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

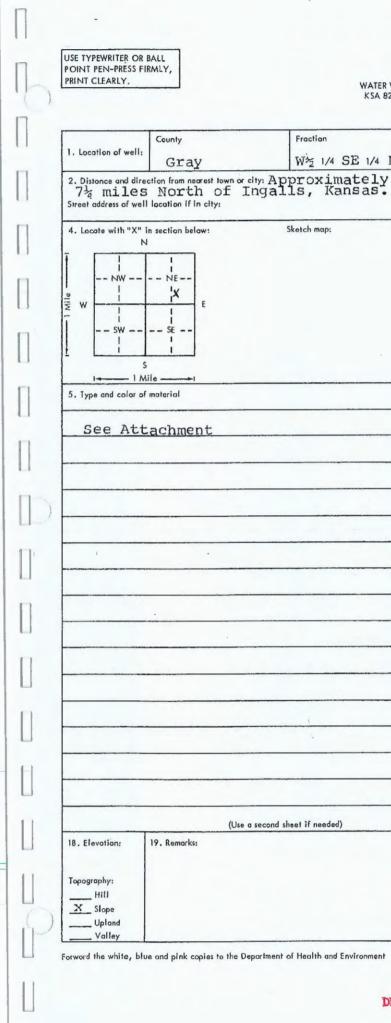
3 & 3 conti,

Application Number: 10,639 & 32,786

## RECEIVED

## AUG 08 2018

| as Constructed under my jurisdiction and | was       |
|--|-----------|
| o the best of my knowledge and belief.   | Kansas    |
| ell Record was completed on (mo/day/yr)  | 08/14/98  |
| 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<br>r street: | C.     | oewen Feeders<br>/O Rudy Loewe   | n   |  |  |  |  |  |
| City, s | itate, zip o             | ode: I | ngalls, Kansa  |   |  |  |  |  |  |
|         |                          |        | 6. Bore hole dia. <u>175</u> in.<br>Well depth <u>275</u> ft.<br>7. <u>Cable tool</u> Ratory   |   |  |  |  |  |  |
|         |                          |        | Hollow rod Jetted<br>8. Use: Domestic Pu<br>Irrigation Ai<br>Lawn Oi<br>9. Cosing: Materia Stee<br>Threaded WeldedX<br>RMP PVC   | <u>Bored</u> <u>Reverse rotary</u><br>blic supply <u>Industry</u><br>r conditioning <u>X</u> Stack<br>l field water <u>Other</u><br><u>Height (Above)</u> r below |  |  |  |  |  |
|         | From                     | То     | Dia in. to ft. dept  | h gage No188  |  |  |  |  |  |
|         |                          |        | 10. Screen: Manufacture's n<br>Doerr<br>Type Louvered<br>Slot/gauze • 060<br>Set between 165<br>199 ft. c  | Screen<br>Dia. 8 78 "<br>Length 56<br>ft. and 185 ft.<br>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<br>13. Water sample submitted:   |   |  |  |  |  |  |
|         |                          |        | 14. Well head completion:  | Date<br>12_ Inches above grode  |  |  |  |  |  |
|         |                          |        | 15. Well grouted? Yes  | _ Bentonite Concrete  |  |  |  |  |  |
|         |                          |        | 16. Necrest source of possible   | contomination:<br>est_Type Feed_T   |  |  |  |  |  |
|         |                          |        | 17. Pump:<br>Manufacturer's nome   | tion? Yes <u>X</u> No   |  |  |  |  |  |
|         |                          |        | Model number<br>Length of drop pipe<br>Type:   |   |  |  |  |  |  |
|         |                          |        | Submersible<br>Jet   | Turbine<br>Reciprocoting  |  |  |  |  |  |
| R       | ECEIVEI                  |        | Centrifugal<br>20. Water well contractor's co<br>This well was drilled under my<br>is true to the best of my knowl<br>Henkle Drilli<br>Business name<br>Address BOX 639, 0<br>Signed Authorized repr | jurisdiction and this report<br>edge and belief.<br><u>ng&amp;Sply 145</u><br><u>License No.</u><br><u>SardenCity, Ks</u>   |  |  |  |  |  |

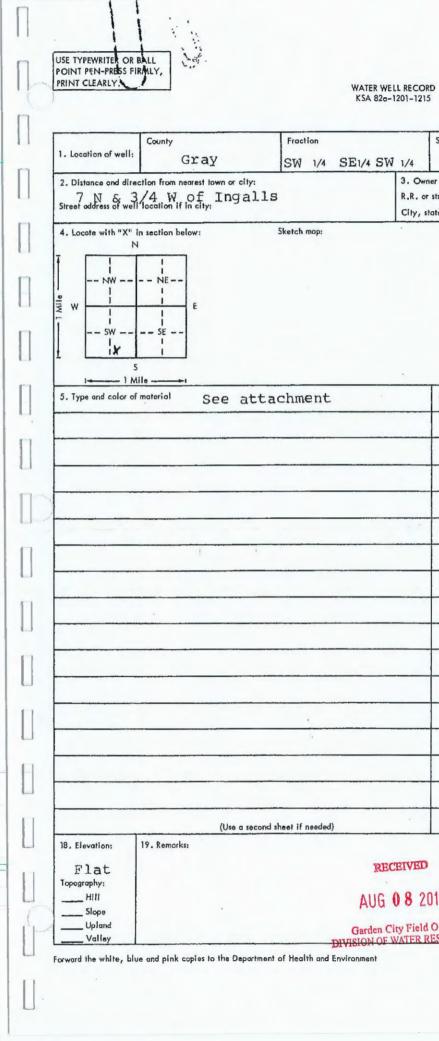
AUG 08 2018

| 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<br>gravel, also sm  |
|  | 272  |   | 277   | Brown clay  |
|  |  |   |   | Shale   |
|  |  |   |   |   |
| Fault (Strengthered)   |  |   |   |   |
| -  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   | · · · · · · · · · · · · · · · · · · ·   |
| -  |  |   |   |   |
|  |  |   |   |   |
| Contraction of the local division of the loc | 1  |   | 1   |   |
|  | 1  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   | · · · · · · · · · · · · · · · · · · ·   |
|  |  |   |   |   |
|  | f  |   |   |   |
|  |  | 0<br>3<br>20<br>57<br>70<br>80<br>95<br>107<br>55 120<br>157<br>60 165<br>184<br>65 200<br>20 244 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   |

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.                |   |
| ed 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.                       |   |
| ed coarse, small gravel with small      |   |
| ticky.                                  |   |
| ed coarse with a few small to med       |   |
| iny white rock with very fine clay sts. |   |
| vater.                                  |   |
| 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                     |   |
|   |   |
|   |   |
|   |   |
|   |   |
| RECOVED                                 |   |
|   |   |
| AUG <b>0 8</b> 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<br>dy Loc<br>ls, KS                       | ewen                    | 353                    |                      |                             |       |
|    |                     |                  |        | 6. Bor             | e hole dia.<br>Il depth27                       | 26 in.                  | Compl<br>3 -           | etion date<br>10-7   | 7                           | 1     |
|    |                     |                  |        |                    | Coble tool _<br>Hollow rod _                    |                         |                        |                      |                             | ]     |
|    |                     |                  |        |                    | : Domest<br>X Irrigati<br>Lawn                  | ion Ali                 | r conditi<br>I Neld w  | ioning               | Stock<br>Other              |       |
|    |                     |                  |        | Thread<br>RMP      | ing: Materia<br>ed Wel<br>PV<br>6 in. t27       | ded                     | _Surfac                |                      | in.                         |       |
|    |                     | From             | То     | Dia                | in. to  | _ ft. dept              | h goge                 | No                   | 188                         | -     |
| _  |                     |                  |        | Type<br>Slot/ge    | Louve   | red<br>25<br>-271       | Dia<br>Length          | 16"<br>66            |                             |       |
| _  |                     |                  |        | Grave              | 5-205<br>pock?Ye                                | Size ran                | ge of m                |                      | x 1/                        | В     |
| _  |                     |                  |        | 11. Ste<br>        | 44ft. below                                     | vel:<br>w land surf     | ace Da                 | te <u>3-1</u>        | 10./doy/yr.                 |       |
|    |                     |                  |        | 245                | mping level k<br>_ ft. after .<br>_ ft. after . | below land              | surfaces               | ing677               | g.p.m.                      |       |
|    |                     |                  |        | Estimat            | ted maximum<br>ater sample su                   | yield                   |                        |                      | g.p.m.                      |       |
| _  |                     |                  |        | 14. We             | Yes X   | letion: .               | L2                     | nu <sup>e i</sup>    |                             |       |
| _  |                     |                  |        | 15. We             | itless adapter<br>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<br>Length    | number<br>of drop pipe                          |                         |                        |                      |                             | 200   |
| _  |                     |                  |        |                    | Submersible<br>Jet                              |                         |                        | Turbi                | - Y &                       | 1.    |
|    |                     |                  |        |                    | Centrifugal                                     | branker!s as            |                        | Other                | rocoting<br>r               | s IV  |
| EC | EIVED               |                  |        | This we<br>is true | to the best of<br>le Dr                         | d under my<br>my knowle | jurisdic<br>edge and   | tion and the belief. |                             | Si Si |
|    | 0820                |                  |        | Busines            | s name  |                         | arde                   |                      | 145<br>icense No.<br>ty, K9 | A VA  |
| Ci | ty Field<br>VATER R | Office<br>ESOURC | ES     | Signed             | Autho   | rized repre             | <b>Deb</b><br>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<br>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<br>In ferste ander die ste die ste<br>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><br>40            |                           | <u>40</u><br>63                         | Brown clay<br>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.  |
|    |  |                           |                           |   | rock, loose, us   |
|    |  | 190                       |                           | 197                                     | and the second se |
| 1  | 55   | 197                       | 43                        | 240                                     | Sand fine med.  |
| 1  | 170  | 1010                      |                           | 253                                     | white rock and  |
| •  | 70   | 240                       | 11                        | 251                                     | Sand fine med.<br>white rock, loo   |
|    |  | 251                       |                           | 265                                     |   |
|    | 45   | 251<br>265                | 6                         | 205                                     | Brown clay and<br>Sand fine med.  |
|    |  | 205                       |                           |   | used lots of wa   |
|    |  | 271                       |                           | 279                                     | Yellow clay and   |
|    |  | 279                       |                           | 280                                     | Shale   |
|    |  |                           | 115                       |   |   |
|    | -  |                           |                           |   | TOTAL DEPTH OF  |
|    |  |                           |                           | 14/************************************ | Set up north  |
|    |  | 1                         |                           |   | Pit on east   |
|    |  |                           |                           |   |   |
|    |  |                           |                           |   | and a Standard and Association and any on State of Systems 5. Scientific States in Association and a  |
|    | -  |                           | -                         | ļ                                       |   |
|    | AT HELE BOLLET   |                           | 1                         |   | ٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠   |
|    | 1-14-1425-0-10.  | A STATEMENT COLUMN        |                           | ajan ana racana                         | and manager areas of the same   |
|    |  |                           |                           |   | dan Campana ampanya mili dari kana artangalar angalar ing dala pilama kamag-angal   |
|    | -  |                           |                           | -                                       |   |
|    | 1  |                           | -                         | 1                                       | na na manana na mana na mana na mana na mana na man   |
|    |  | 1                         |                           | 1                                       | fið - sa falland skallstann haðarinn staðarinna er skun in yrinn de a haf bei sinn frag lýsig litt sins er sky  |
| )  | CONTRACTOR CONTRACTOR  |                           | Sar o- saterice and       | 1                                       | and and an interface of the state   |
|    | for a start of the | art. County Variation and | Comparison of the Care of |   | 547 x mbia unintare, provinci ad Periodetero esta in el 155820 aparte 200 made. 'n 124  |

TEGT LOT

| #2   | DATE 2-7-77  |       |
|--|--|-------|
| 1997   | TEST # 8 E. LOG 280'   |       |
|  | DRILLER Rector   |       |
| 10N 25   | TOWNSHIP 24 RANGE 29   |       |
| rest #1  |  |       |
| ······································   | WELL LOCATION  |       |
| na saar hartan ordat, aantadi isa wa aynagdari   | Static Water Level   |       |
| STRATA   | Proposed Well Depth  |       |
|  |  |       |
| · / The classification of the second s  |  |       |
| e rock,  | hard, used pull down   |       |
| , cement   | ed in places, very small   |       |
|  | Ewater   |       |
| caliche  |  |       |
|  | small gravel   |       |
| sand   |  |       |
|  | med. small and very few tiny   |       |
|  | lay sts., used lots of water   |       |
|  | small gravel and small white   |       |
| ed lots  | of water   |       |
|  | med. small gravel, med. small  |       |
|  | ne clay sts., used water   |       |
|  | small brown gravel and small   |       |
| se, used   | lots of water (good)   |       |
|  | and sts.   |       |
|  | small white and tan rock,  |       |
| ter  | - AND CO CHIC EAN LOCK   |       |
| soapsto  | one  |       |
|  |  |       |
| 17/704/19/30, 606 F1/19-1  |  |       |
| WELL 273   | } FT   |       |
|  |  |       |
|  |  |       |
|  |  |       |
| - Jarane Static Lardina Actorication   |  |       |
|  |  |       |
|  |  |       |
| N.2.200 Carrow And Providence of | ne falsen efti, "und falselinne för eftigt, med und ander en och medligt stadens ander ander i staden i s  |       |
| a nampanis dalle " Mall soften del na Files del na Arrada  | RECEIVED   |       |
|  | and a first and have a second of the |       |
|  | AUG 08 201   | 8     |
|  | Garden City Field  | Pilan |
| erf Assis a data and the second second spirit  | DIVISION OF WATER RES  | OURCE |
| 5 (M) San april (d., -d -Au, 0.)17 Adam 1° Au  |  |       |
| a sinandi. Adamin'ny tanàna mandritry amin'ny tanàna mandritry ina dia dia   |  |       |
|  | PLY CO., INC. SUBLETTE, KS<br>NUARTERS Phone 675-4311  |       |
| ON IDEAD()   |  |       |
| THINK  | CAL WELLS * * * * STOCK WELLS  |       |
|  |  |       |

29614 3 conti.

| Distance and direction from meanest town or city streat address of well if lacated within City?<br>PROW CHALESTOR, APP2 4 MILES NORTH & 5 MILES BAST<br>2 MISS WELL OVER: STRYE MILTERE<br>2 MISS WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL SUCCESS OF COMPANY AND A STRYE MILTERE<br>1 JOINTE WELL MILTERE MILTERE<br>1 JOINTE WELL MILTERE<br>1 JOINTE MILTERE<br>1 JOINTE WELL MILTERE<br>1 JOINTE WELL MILTERE<br>1 JOINTE WELL MILTERE<br>1 JOINTE MILTERE<br>1 JOINTE MILTERE<br>1 JOINTE WELL MILTERE<br>1 JOINTE MILTERE<br>1 JOINTE MILTERE<br>1 JOINTE JOINTER<br>1 JOINTE JOINTER<br>1 JOINTE JOINTER<br>1 JO   | 1       LOCATION OF PATER NULL:<br>COUNT: 035 GAX       Fraction<br>SE 1/4 SV 1/4 SV 1/4 SV 1/4       Section Number<br>25       Township Number<br>7 24       Township Number<br>7 24       R 23       Number<br>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:<br>SRAF, SL. Address, Day J: DO BOI 103<br>Address, Day J: DO BOI 103<br>Address, Day J: DO BOI 103<br>Address       Board of Agriculture, Division of Water Resources<br>City, State, Zip Cde CIMARDON, JS 67835-0103<br>Address       Board of Agriculture, Division of Water Resources<br>City, State, Zip Cde CIMARDON, JS 67835-0103<br>Address         1       NR A   | PERSONAL PROPERTY        | ∢€®<br>drology   | Water Well<br>Database<br>Query   | Scan of WWC5  | Form   |   |                            | Carlo Carlo |
|--|---|--------------------------|--|---|---|--|---|----------------------------|-------------|
| 1       LOCATION OF WATER WELL:<br>COUNT: 035 CEAT       Fraction<br>58       1/4 SM       1/4       Section Number<br>25       Township Number<br>7 24       Respective<br>R 23       Number<br>R 23       Township Number<br>7 24       Respective<br>R 23       Number<br>R 23       Township Number<br>7 24       Respective<br>R 23       Number<br>R 23       Number<br>R 24  | 1       LOCKTION OF WATER WELL:<br>COUNT: 035 GEAT       Fraction<br>SE 1/4 SW 1/4 SW 1/4       Section Number<br>1/2 S       Township Number<br>7 24 S       Township Number<br>7 24 S       Restance<br>R 23 W         Distance and direction from essent town or city streat address of well if located within city?<br>FROM CHARMESTOR, AFZ 4 MILES MORT 4 S MILLS REST<br>2 MITER WELL OFMES:<br>STREF KLIESSE<br>34, St. Address, Dox F: 10 001 101<br>Application Ruber: 29514       Board of Agriculture, Division of Water Resources<br>Application Ruber: 29514         3 LOCKER WELL'S LOCATION WITE<br>AV 71 18 SECTION DOX:<br>N<br>W       4 DEFE OF COMPLEXED DIAL SILESSATION:<br>0 Explose Groundwater Exconsulered<br>1.0 ft. 2.0 ft. 3.0<br>WELL'S SIAIC SATER LEVEL       0 ft. 2.0 ft. 3.0<br>WELL'S SIAIC SATER LEVEL<br>20 in to 312 ft., and is. to 0 ft.<br>WELL'S SIAIC SATER TO 38 USED AS: 02 IERIGATION<br>1 W as a checkel/Daster 20 in to 312 ft., and is. to 0 ft.<br>WELL ANTER TO 38 USED AS: 02 IERIGATION<br>1 If yes, mo/day/r sample was submitted       1 water well disinfected?<br>Well water was 10 ft. after 0 hours purpling<br>30 USES OF 2PERFORMENT WATERIAL WITE<br>WAS a Checkel/Daster 10 JS IERICATION<br>1 If yes, mo/day/r sample was submitted       Setter well disinfected?<br>Well water was 10 ft. to 0 ft.<br>Casing height above land surface 12 in., weight 33 lbs/ft. well thickness or gauge 30.250<br>TTPE 07 SIAST CASING USED 01 STREK<br>STREES OF 2PERFORMENT WATERIAL WILL STREM<br>STREES OF 2PERFORMENT WATERIAL WILL STREM<br>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?<br>FRAM CERLESTOR, AFZI 4 HILES NORTZ & 5 HILES EAST<br>2 MATEX MELL DURKS: STRY KLIEWEL<br>RR 5. K. Address, Dor Y. DO BOILO<br>City, State, ZIP code : CIMARDO, KS 67835-4103 Application Number: 29614<br>3 LOCATE WILL'S COLATION WITE<br>AK 71 M SOLTON SUIT:<br>AK 71 M SOLTON SOLTON WITE<br>AK 71 M SOLTON SUIT:<br>AK   | Distance and direction from masses town or city strest address of well if located within city?<br>FROM CRANESTON, APZI 4 MLAS NORTA & 5 MLAS KAST<br>2 MT2X NELL OFNES: STRTE NLIPSE<br>234, ST. ANGRESS, DON 1, FO DOD 101<br>3 JOCKTE WILL'S LOCATION WITE<br>A VII'S ADDRESS, DON'T AND  | 1 1.00                   | ATION OF WATER   | W3LL: fractio   |   |  |   | er   Range Suub            | <br>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:<br>STRYS KLEWSE<br>STRYS KLEWSE<br>SAF, SC. Address, Dar 1 & DO BOX 100<br>City, State, EIP code : CHARBON, KS 57835-0103<br>Application Funder: 26614       Board of Acticulture, Division of Water Resources<br>Application Funder: 26614         3 BOARD WALL'S COLATION WITE<br>AN "1" HI MSKTIDM BOL:<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I  |                          |  |   | ************************************  | ***************                              | *********************                       | S   R 29 W                 |             |
| C1CY, SIATE, ZIP COGE : CIMARDON, XS       STB15-C103       Application: Number: 29614         3 DOCATE WELL'S CONCITON WITE<br>AN "AT IN BSCIDM BDD:       4 DBFTE OF COMPARED WELL 3LIBURWATCH.0       0 ft. 2. 0 ft. 3. 0         AN "AT IN BSCIDM BDD:       4 DBFTE OF COMPARED WELL 3LIBURWATCH.0       0 ft. 2. 0 ft. 3. 0         N       N       N       N       N         1       N       N       N       N         1       N       N       N       N       N         N       N       N       N       N       N         1       N       N       N       N       N         N       N       N       N       N       N       N         1       N       <  | City, State, ZIP code     CHARRON, IS     STBIS-GLOS     Application     Mathematication       31 DOORDS MSLL'S DOARTON WITE     4 DEPIS OF CONVENTED MSLL 312BESTATION: 0     0 ft. 2. 0 ft. 3. 0       AN "AT IN BSCIDEN SOL:     4 DEPIS OF CONVENTED RECOMMENTER Conventered     1. 0 ft. 2. 0 ft. 3. 0       N     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       N     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N     N       1     N     N     N   | 720                      | N CHARLESTON; J  | APPE 4 NILSS KORTE 4  | 5 NILES BAST  |  |   |                            |             |
| AX *T4 1H S8CT10H B03:       Depth[s] Groundwater Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 2.0 ft. 3.         //1       Image: Starge Market Encountered       1.0 ft. 1  | AX *T* 1H SECTION BDE:       Depth(s) Groundwater Encountered       1       0 ft. 2. 0 ft. 3. 0         A       T       H <td>Cit</td> <td>, St. Address,<br/>y, State, ZIP d</td> <td>ode : CINARRON, :</td> <td>KS 67835-0103</td> <td>Application Hum</td> <td>ber: 29614</td> <td>ratei kespürces</td> <td></td>  | Cit                      | , St. Address,<br>y, State, ZIP d  | ode : CINARRON, :   | KS 67835-0103   | Application Hum                              | ber: 29614                                  | ratei kespürces            |             |
| / \       N  | / \       N   | AX                       |  |   |   |  |   | 0 ft. 3.                   | 0 (         |
| 1  | 1   | 1                        |  |   | NELL'S STATIC NATER LEVEL<br>Puer testdata:                                 | 156 ft. below 1<br>Well water was            | and surface measured<br>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<br>Black cosing diameter 12.15 in.to312 ft., Dia in.to 6 ft., Dia in. to 0 ft<br>Casing diameter 12.15. in.to312 ft., Dia in.to 6 ft., Dia in. to 0 ft<br>Casing diameter 12.15. in.to312 ft., Dia in.to 6 ft., Dia in. to 0 ft<br>TYPE OF SCREEK 02 PERFORATION MATERIAL: 01 STREL<br>SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT         SCREEK 02 PERFORATION DENINGS ARE: 01 CONT. SLOT         SCREEK 02 PERFORATION VATERIAL: 01 STREL<br>SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT         SCREEK 02 PERFORATION MATERIAL: 01 STREL<br>SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT         SCREEK 02 PERFORATION MATERIAL: 01 STREL<br>SCREEK 02 PERFORATION OPENINGS ARE: 01 CONT. SLOT         SCREEK 02 PERFORATION MATERIAL: 01 STREL<br>SCREEK 02 PERFORATION DENINGS ARE: 01 CONT. SLOT         SCREEK 02 PERFORATION MATERIAL: 01 STREL<br>Trom 20 ft. to 121 ft. From 0 ft. to 0 ft.<br>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.<br>Trom 0 ft. to 0 ft., From 0 ft. to 0 ft.         GROIT HATERVALE       01 BENTONITE<br>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<br>1       121<br>04 SAMDY CLAY         1       21<br>31 04<br>05 SAMD 11 GRAVEL<br>150 163 04 SAMDY CLAY 05 SAMD       FROM 11 GRAVEL<br>150 163 04 SAMDY CLAY 05 SAMD         1       121<br>04 SAMDY CLAY 05 SAMD<br>150 163 04 SAMDY CLA  | 1   | 11                       |  |   | Was a chemical/bacteriolog<br>If yes, mo/day/yr sample i                    | gical sample submi<br>ras submitted          | tted to department?<br>Nat                  | No ;<br>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<br>Cas<br>TYP<br>SCR | ok cəsing diəne<br>ing height abov<br>B OF SCR3BK OZ<br>B3X OZ P3RFORA3  | eter <u>12,15 in.</u><br>Te land surface 1<br>PERFORATION MATERIAN<br>TON OPENINGS ARE:   | to 312 ft., Dia in.<br>2 in., veight 33 lb:<br>5: 01 STREL<br>01 CONT. SLOT | WELDED<br>. Lo G Ét., D<br>S/ft. Wall thicks | ia in, to<br>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.<br/>7ron 20 ft. to 312 ft.<br/>2ron 0 ft. to 0 ft.</td><td>., Pron 0 ft.<br/>., Pron 0 ft.<br/>Pron 0 fr</td><td>to 0 ft.<br/>to 0 ft.<br/>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.<br/>7ron 20 ft. to 312 ft.<br/>2ron 0 ft. to 0 ft.</td> <td>., Pron 0 ft.<br/>., Pron 0 ft.<br/>Pron 0 fr</td> <td>to 0 ft.<br/>to 0 ft.<br/>to 0 ft</td> <td></td> <td></td>  |                          | GRAVEL PACE  | INTERVALS:  | 7ron 233 11. to 253 ft.<br>7ron 20 ft. to 312 ft.<br>2ron 0 ft. to 0 ft.    | ., Pron 0 ft.<br>., Pron 0 ft.<br>Pron 0 fr  | to 0 ft.<br>to 0 ft.<br>to 0 ft             |                            |             |
| Direction from vell? SODIEBAST       How many feet?         I       1       02 SILT       70       2100GIK3 INTERVALS         1       21       04 SAMDY CLAY       70       2100GIK3 INTERVALS         1       21       04 CLAT       70       70       2100GIK3 INTERVALS         37       70       01 CLAT       70       10 CLAT       70         33       104       05 SAMD 11 GRATEL 01 CLAY       70       10 GRATEL 01 CLAY         104       132       04 SAMDY CLAY 05 SAMD       70       10 GRATEL 01 CLAY         104       132       04 SAMDY CLAY 05 SAMD       10 GRATEL       10 GRATEL         104       132       04 SAMDY CLAY 05 SAMD       10 GRATEL       10 GRATEL         104       132       04 SAMDY CLAY 05 SAMD       10 GRATEL       10 GRATEL         150       163       04 SAMDY CLAY 05 SAMD       10 GRATEL       10 GRATEL         150       163       04 SAMDY CLAY 05 SAMD       10 GRATEL       10 GRATEL         150       163       04 SAMDY CLAY 05 SAMD       10 GRATEL       10 GRATEL         150       163       04 SAMDY CLAY 05 SAMD       10 GRATEL       10 GRATEL         150       163       04 SAMDY CLAY 05 SAMD       <  | Direction from vell? SODIBERST       How many feet?         PROM       TO       LITEDLOGIC LOG       FROM       TO       PLUGGING INTERVALS         0       1       02 SILT       TO       PLUGGING INTERVALS       PLUGGING INTERVALS         1       21       04 SAMDY CLAY       TO       PLUGGING INTERVALS       PLUGGING INTERVALS         21       37       01 CLAT       TO       PLUGGING INTERVALS       PLUGGING INTERVALS         37       70       01 CLAT       TO       PLUGGING INTERVALS       PLUGGING INTERVALS         30       93       04 SAMDY CLAY OS SAMD       PLUGGING INTERVALS       PLUGGING INTERVALS         104       132       04 SAMDY CLAY OS SAMD       PLUGGING INTERVALS       PLUGGING INTERVALS         104       132       04 SAMDY CLAY OS SAMD       PLUGGING INTERVALS       PLUGGING INTERVALS         132       150       05 SAMD 11 GRAFEL       PLUGGING INTERVALS       PLUGGING INTERVALS         133       104       SAMDY CLAY OS SAMD       PLUGGING INTERVALS       PLUGGING INTERVALS         133       150       05 SAMD 11 GRAFEL       PLUGGING INTERVALS       PLUGGING INTERVALS         134       155       163       04 SAMDY CLAY OS SAMD       PLUGGING INTERVALS  | 6 GRO<br>Gro             | JT MATERIAL<br>it lotervals:   | 03 B3ETORITE<br>Froz 0 ft. to   | 20 ft., Pres 0 ft. to   | ) 0 ft., 7ro                                 |   | а                          |             |
| 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?             |             |
| completed on (mo/day/year) 12/23/33 and this record is true to the best of my knowledge and belief. Kansas<br>Water Well Contractor's License No. 145 This Water Well Record was completed on (mc/day/yr) 01/27/04   | completed on (mo/day/year) 12/23/33 and this record is true to the best of my knowledge and belief. Iansas<br>Water Well Contractor's License No. 145 This Water Well Record vas completed on (mo/day/yr) 01/27/04  | 1111                     | 0         1           1         21           21         37           37         70           70         80           93         33           104         132           32         150           56         163 | 02 SILT<br>04 SANDY CLAY<br>01 CLAY<br>01 CLAT<br>05 SAND 11 GRAVEL<br>04 SANDY CLAY 05 S<br>05 SAND 11 GRAVEL<br>04 SANDY CLAY 05 S<br>05 SAND 11 GRAVEL<br>04 SANDY CLAY 05 S | 01 CLAY<br>SAND<br>SAND<br>SAND   |  |   |                            |             |
| under the Disiness isne of ERNILS DRIGLING & SUPPLY by [signature]   |   | coa<br>Nat               | pleted on (mo/d<br>er Well Contrac   | ay/year) 12/23/03 an<br>tor's License No. 14  | nd this record is true to th<br>15 This Water W                             | e best of my know<br>well Record was co:     | ledge and belief. I<br>spleted on (mc/day/y | 20535                      |             |
|  |   |                          |  |   |   |  |   |                            |             |
|  |   |                          |  |   |   |  |   |                            |             |
|  |   |                          |  |   |   |  |   |                            | 1           |
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|    | (Continue<br>1 LOCATION  |  |   | Fraction<br>SE 1/4 SE   |  |                             | C-5 KSA 823-1212<br>Section Number<br>25 | Township Number                    | Range Num     |
|----|--|--|---|---|--|-----------------------------|--|------------------------------------|---------------|
| 7. | 2 83000 Wat  | L AWYPD.   |   | PUS KLIRWED   |  |                             |  |                                    |               |
|    | City, St.  | Address,<br>te, 31P c  | cde : CI  | MARRON, KS  | 67835-0103                                       |                             | Board of Agricults<br>Application Number | ere, Division of Water<br>1: 29614 |               |
|    | ERON<br>163<br>173<br>203<br>218<br>225<br>243<br>253<br>269<br>274<br>282 | 10<br>173<br>203<br>218<br>225<br>243<br>253<br>269<br>274<br>282<br>300     | 05 SAND 1<br>04 SANDY<br>05 SAND 1<br>04 SANDY<br>05 SAND 0<br>05 SAND 0<br>04 SANDY<br>05 SAND 0 | 3 PINE GRAVEL<br>CLAY   | 01 CLAT<br>28 ROCK<br>28 ROCK                    |                             |  |                                    |               |
|    |  |  |   |   |  |                             |  |                                    |               |
| )  |  |  |   | ł   |  |                             |  |                                    |               |
|    | Kansas<br>Comme<br>URL=ht  | on [zo/da<br>l Contract<br>business<br>Geolog<br>nts to<br>ttp://w<br>Progra | gical Su<br>webadn<br>ww.kgs<br>ams Up  | 123/03 and thi<br>se kö. 145<br>survey<br>nin@kgs.l<br>s.ku.edu/M<br>dated July | s record is<br>T<br>sopphy<br>ku.edu<br>fagellai | true to thi<br>his Water Wa | well/index.ht                            |                                    | 127/04 August |
|    |  |  |   |   |  |                             |  |                                    |               |

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|     | 11 LOCA            | TION O | F WATE  | R WEL | L:     | l Fr                         | actio    | N      |                  |                    |                  |
|-----|--------------------|--------|---------|-------|--------|------------------------------|----------|--------|------------------|--------------------|------------------|
| (   | COUNT              | IY: 0  | 35 GRA  | Υ     |        | I SE                         | 1        | /4 SE  | 1/4              | 4 SE               | 1/4              |
|     | Dista<br>APPRO     | ance a | nd dir  | ectio | n tro  | n neare                      | est to   | wn or  | city             | street             | addres           |
|     | 2 WATER            | A WELL | OWNER   | :     |        | MIDWES                       | ST FEE   | DERS   |                  |                    |                  |
|     | l City             | , Stat | e, ZIP  | code  | :      |                              | S, KS    |        |                  |                    |                  |
|     | 13 LOCA<br>1 AN "1 | Xu IN  | SECTIO  | N BO) | :      |                              |          | Dei    | PTH OF<br>pth(s) | CONPLE<br>Ground   | TED WE<br>water  |
|     | 1/1                | 1      | 1       | 1     |        | 1                            | 1 1      | WELL   | 'S STA           | TIC WAT<br>Pump te | ER LEV<br>stdata |
|     | 1                  |        | NW      |       | · N    | E                            | - 1      |        |                  |                    |                  |
|     | N                  |        | 1       | 1     |        | :                            | 1 1      |        |                  |                    |                  |
|     | W                  |        |         |       |        |                              |          |        |                  |                    |                  |
| 1   | <br>  e            |        |         | 1     |        | I<br>E                       | 1 1      |        | WATER            | TO BE              | USED A           |
|     | 1                  | 1      | 1       | 1     |        | 10                           | 1 1      | Was    | a chem           | ical/ba            | cterio           |
|     | IN /               |        |         |       |        |                              |          | If y   | es, No           | /day/yr            | sampl            |
|     | 5 TYPE             |        |         |       |        |                              |          |        |                  |                    |                  |
| 100 | : Blan             | k casi | ng dia  | meter |        | 6                            | in. t    | 0 2    | 52 ft.           | , Dia              |                  |
|     | I TYPE             | OF SC  | REEN O  | A PER | FORAT  | Urface<br>Ion Mat<br>Ings Ar | FERIAL   | : 07 1 | PVC              |                    | 4                |
|     | 1                  |        |         |       |        | <br>S:                       |          |        | 202              | ft. to             | 222              |
|     | }                  |        | EL PAC  |       |        |                              |          |        | 232              | tt. to<br>ft. to   | 252              |
|     |                    | UNAV   | EL FAU  |       |        |                              |          | From   | 0                | ft. to             | 0                |
|     | 6 GROUT            |        |         | 03    | BENTO  |                              |          |        |                  |                    |                  |
|     | ł What             | is th  | e near  | est s | ource  | 5 ft.<br>of pos              | sible    | cont   | aminat           | ion: 14            | ABAND            |
|     |                    |        | from w  |       |        | WEST                         |          |        |                  |                    |                  |
|     | FR01               |        | TO      | 1     |        |                              |          |        |                  |                    |                  |
|     | 1 :                | 3      | 3<br>54 | 1 0   | 4 SAN  | DY CLAY                      | 31 C     | ALICH  | 1                |                    |                  |
|     | 5                  | 4 ;    | 69      | 1 0   | 7 FIN  | E SAND<br>Dy Clay            | 09 CO    | ARSE   | SAND O           | A SANDY            | CLAY             |
| -   | 10                 | 9 1    | 117     | 1 0   | 7 FIN  | E SAND                       | 08 ME    | DIUN   | SAND O           | 9 COARS            | E SAND           |
| 1   | 1 11               | 7 1    | 122     | 1 0   | 4 SAN  | DY CLAY                      | 20 L     | INEST  | ONE CAND         | 0.00400            |                  |
| 1   | i 12:              | 5 1    | 135     | 1 (   | A SAN  | E SAND<br>Dy Clay            | U8 16E   | 010    | DAND 0           | UARS CUARS         | E SAND           |
| ,   |                    |        |         |       |        | E SAND                       |          | ARSE   | SAND 1           | FINE               | GRAVEL           |
|     | 161                |        | 185     | : 0   | 4 SAN  | DY CLAY                      | ,        |        |                  |                    |                  |
| 1   | 7 CONT             |        | 'S OR   | LANDO | WNER'S | S CERTI                      | FICAT    | ION:   | This             | rater w            | ell wa           |
| me  | Comp               | leted  | on (mo  | /day/ | year)  | cense N                      | an<br>14 | d this | s reco           | this t             | ter We           |
|     | under              | r the  | busine  | ss na | me of  | HENKLE                       | ORIL     | LING   | SUPP             | LY                 |                  |
|     |                    |        |         | 110   |        |                              |          |        |                  |                    |                  |

. 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<br>COUNTY:   | OF WATER<br>035 GRAY                         | WELL:   Fra<br>  SE   | ction<br>1/4 SE                            | 1/4 SE                           | S<br>1/4   2 | ection Number<br>4                 | l Township Number<br>I T 24 S   | r   Range Number  <br>  R 29 W                             |
|---|--|---|--|----------------------------------|--------------|------------------------------------|---|--|
| 2 WATER WE<br>RR#, St.<br>Cily, St  | LL OWNER:<br>Address,<br>ate, ZIP            | ■IDWEST<br>Box # : R.R. 1,<br>code : INGALLS  | FEEDERS<br>BOX 29<br>, KS 678              | 53-                              |              | Board of A<br>Applicatio           | griculture, Division<br>n Number:   | n of Water Resources  <br> <br>                            |
| FROM  <br>185  <br>193  <br>201  <br>212  <br>236  <br>250  <br>253  <br> | T0<br>193<br>201<br>212<br>236<br>250<br>253 | I 07 FINE SAND 0<br>04 SANDY CLAY<br>07 FINE SAND 0<br>04 SANDY CLAY<br>07 FINE SAND 0<br>1 07 FINE SAND 0<br>1 31 CALICHE<br>1 9 SHALE | LITHOLOGIC<br>8 MEDIUM SAN<br>9 COARSE SAN | LOG<br>ID<br>ID 29 Rock <b>I</b> | SAND · I     |                                    |   |  |
|   |  |   |  |                                  |              |                                    |   |  |
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|   |  |   |  |                                  |              |                                    |   | RECEIVE<br>AUG 08<br>Garden City Fiel<br>DIVISION OF WATER |
| complete<br>Water We  | d on (mo/<br>11 Contra                       | day/year)   | and this r<br>. 145                        | ecord is tr<br>This Wat          | ue to the b  | est of my knowl<br>ord was complet | y jurisdiction and w<br>edge and belief. Ka<br>ed on (mo/day/yr) OS<br>ature)Burn / | DIVISION OF WATER  |

| 24  | ; T 24                               | S I I                | R 29 W                             | 1                      |
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| i<br>t  |                                      |                      | AUG 08                             | 2018                   |
| ł   |                                      | 1                    | Garden City Fi<br>DIVISION OF WATE | eld Office<br>R RESOUR |
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| nstructed under m                                 | y jurisdiction a                     | ind was              |                                    | l                      |
| best of my knowl<br>ecord was complet<br>by (sign | euge and belief.<br>ed on (mo/dav/vr | Kansas<br>) 05/29/93 | 0                                  |                        |

| L)          | 1 LOCATION OF<br>COUNTY: 03  | 5 GRAY   |  | SE   | 1/4 SW   | 1/  | 4 SE  | 1/4   | 1 1  | 7   |   | :                    | T 24   |        |
|-------------|--|--|--|--|--|---|---|---|--|---|---|----------------------|--|--------|
|             | Distance an<br>APPROX. 8 M   | d direction  | n from (<br>& 3/4 (  | nearest<br>EAST OF   | town or<br>INGALLS   | city :  | street  | addre   | ss of N  | ell if  | located   | with                 | in city?   |        |
| 1           | 12 WATER WELL<br>1 RR#. St. Ad   | OWNER:   | M  | IDWEST   | FEEDERS  |   |   |   |  |   |   |                      | ulture. 1  |        |
|             | City, State  | . ZIP code   | ; 1  | NGALLS,  | K5   | 67853-  |   |   |  | Aş  | oplicati  | on Nu                | aber: 10,  | 999    |
|             | 13 LOCATE WELL<br>AN "X" IN S  | 'S LOCATION  | N WITH   |  | : 4 DE   | PTH OF  | COMPLE  | TED W   | ELL 2  | 18  | ELEVAT  | ION:                 | 0  |        |
|             | !<br>!/ \ !<br>! !   | 1  |  |  | : WELL   | 'S STA  | TIC WAT   | TER LE  | /EL 1  | 58 ft.  | below 1   | and s                | urface me  | Pasure |
| 1           | : 1 : :<br>: : :<br>: # :  | NW;  | NE ·   |  | :<br>  Esti  | aated '   | Yield   | 160 (   | pa: We   | ll wate   | Ir Has  | 0                    | ft. after  | -      |
|             | 'i W !   |  |  | }  | :<br>E : Bore  | Hole I  | Diamete   | er  | 24   | in.   | to 24   | 8 ft.                | , and  | in     |
|             | 11 1<br>1 2 1  |  | :  | ;  | ;<br>; NELL  | WATER   | TO BE   | USED (  | 15: 03 I   | EEDLOI  |   |                      |  |        |
| 1           | 1 / / 1<br>1 / / 1   |  |  |  | i Was  | a chem:   | ical/ba   | acteria   | ologica  | samol   | e submi   | tted                 | to depart  | ment?  |
|             | : 1 / · · · · · · · · · · · · · · · · · ·  | ;<br>;<br>;  | *  | · ;  | 1  |   |   |   |  |   |   |                      |  |        |
| -           | 15 TYPE OF BLA<br>Blank casin<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI   | g diameter<br>ht above la<br>EEN DR PERF   | 10<br>and sur<br>FORATION  | in.<br>face<br>I MATERI  | to 2<br>12 in.,<br>AL: 01  | 48 ft.,<br>STEEL  | . Dia<br>weight   | 39  | in. to   | 0   |   |                      |  |        |
| 1           | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI  | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE  | 10<br>and surf<br>DRATION<br>OPENING<br>ERVALS:  | in.<br>face<br>N MATERI<br>GS ARE;   | to 2<br>12 in.,<br>(AL: 01<br>01<br>From<br>From   | 48 ft.<br>STEEL<br>CONT. S<br>178 f   | . Dia<br>weight<br>BLOT<br>ft. to   | 39<br>238   | in. to<br>lbs/ft.<br>ft., Fr                                       | 0<br>Wall   | thickn<br>O ft.                                     | ess or<br>to         | r gauge k  | io2    |
| 1           | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI  | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE   | 14<br>and sur<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:   | in<br>face<br>N MATER<br>SS ARE;   | to 2<br>12 in.,<br>(AL: 01<br>From<br>From<br>From<br>From   | 48 ft.,<br>STEEL<br>CONT. 5<br>178 f<br>0 f<br>20 f<br>0 f  | Dia<br>weight<br>BLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to                               | 39<br>238<br>0<br>248<br>0  | in. to<br>lbs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>ft., Fr      | 0<br>Wall<br>Com<br>Com<br>Com<br>Com                             | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft. | ess or<br>to         | r gauge k  | io2    |
| ]<br>]<br>] | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>GRAVEI<br>GRAVEI<br>GROUT MATER<br>Grout Interv<br>What is the<br>Direction fr  | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N  | 14<br>and sur<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:<br>BENTONIN<br>BENTONIN<br>Opurce of<br>KORTHEAS  | in.<br>face<br>I MATER<br>IS ARE;<br>S ARE;<br>ft. to<br>ft. to<br>possit  | to 2<br>12 ia.,<br>(AL: 01<br>01<br>From<br>From<br>From<br>From<br>20 f<br>ile cant   | 48 ft.,<br>STEEL<br>CONT. 9<br>178 f<br>20 f<br>0 f   | Dia<br>weight<br>SLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to           | 39<br>238<br>0<br>248<br>0<br>248<br>0<br>248                         | in. to<br>lbs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>, WELL | 0<br>Wall<br>om<br>om<br>om<br>om<br>om                           | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | o ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft.     | la2    |
|             | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>GRAVEI<br>GRAVEI<br>GROUT MATER<br>Grout Interv<br>What is the<br>Direction fr  | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N  | 14<br>and sur<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:<br>BENTONIN<br>BENTONIN<br>BOUTCE OF<br>HORTHEAS  | in.<br>face<br>I MATER<br>S ARE;<br>S ARE;<br>ft. to<br>possit   | to 2<br>12 ia.,<br>(AL: 01<br>01<br>From<br>From<br>From<br>From<br>20 f<br>ile cant   | 48 ft.,<br>STEEL<br>CONT. 5<br>178 f<br>0 f<br>20 f<br>0 f<br>0 f<br>t., Fr<br>aminati  | Dia<br>weight<br>BLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to                     | 39<br>238<br>0<br>248<br>0<br>248<br>0<br>248                         | in. to<br>lbs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>, WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |
| ]           | Blank casin<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>GRAVE<br>GRAVE<br>GRAVE<br>GROUT MATER<br>Grout Interv<br>What is the<br>Direction fr<br>FROM !<br>Q :<br>2  | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N<br>TO !<br>2 ! 02<br>22 ! 04   | 14<br>and surf<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:<br>SENTONIT<br>BENTONIT<br>BOUTCE OF<br>HORTHEAS   | G in.<br>Face<br>I MATER<br>S ARE;<br>S ARE;<br>T<br>ft. to<br>Dossit<br>T<br>U<br>CLAY 31   | to 2<br>12 in.,<br>(AL: 01<br>01<br>From<br>From<br>From<br>20 f<br>11e cant<br>ITHOLOG<br>CALICH  | 48 ft.,<br>STEEL<br>CONT. 5<br>178 f<br>0 f<br>20 f<br>0 f<br>t., Fr<br>amination<br>IC LOG   | Dia<br>weight<br>BLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to                     | 39<br>238<br>0<br>248<br>0<br>248<br>0<br>248                         | in. to<br>lbs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>, WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |
|             | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>GRAVE<br>6 GROUT MATER<br>6 GROUT MATER<br>6 GROUT MATER<br>9 GRAVE<br>10 GROUT MATER<br>10 GRO   | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N<br>TO !<br>2 ! 02<br>22 ! 04<br>45 ! 01   | 14<br>and suri<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>BENTONING<br>OPUTCE OF<br>NORTHEAS<br>CONTREAS<br>SILT<br>SANDY<br>CLAY 3  | in,<br>face<br>I MATER<br>IS ARE;<br>S ARE;<br>E<br>ft. to<br>tossit<br>T<br>L<br>CLAY 31<br>6 GYP F   | to 2<br>12 in.,<br>(AL; 01<br>From<br>From<br>From<br>20 f<br>11e cont<br>ITHOLOG<br>CALICH<br>OCK                                       | 48 ft.,<br>STEEL<br>CONT. S<br>178 f<br>0 f<br>20 f<br>0 f<br>t., Fr<br>aminati   | Dia<br>weight<br>SLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to                               | 39<br>238<br>0<br>248<br>0<br>248<br>0                                | in. to<br>Ibs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>. WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |
|             | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>SCREEN PERFI<br>GRAVEI<br>GRAVEI<br>GROUT MATER<br>GROUT MATER<br>Grout Interv<br>What is the<br>Direction fr<br>2<br>22<br>45<br>60  | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N<br>TO !<br>2 ! 02<br>22 ! 04<br>45 ! 01<br>60 ! 07<br>69 ! 04                                    | 14<br>and suri<br>FORATIO<br>OPENING<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>EN | ACE<br>I MATERI<br>S ARE;<br>S ARE;<br>E<br>ft. to<br>Dossit<br>T<br>CLAY 31<br>& GYP R<br>AND OB<br>CLAY 05   | to 2<br>12 in.,<br>(AL; 01<br>01<br>From<br>From<br>From<br>From<br>20 f<br>ile cont<br>ITHOLOG<br>CALICH<br>OCK<br>MEDIUM               | 48 ft.,<br>STEEL<br>CONT. S<br>178 f<br>0 f<br>20 f<br>0 f<br>t., Fr<br>aminati   | Dia<br>weight<br>SLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to                               | 39<br>238<br>0<br>248<br>0<br>248<br>0                                | in. to<br>Ibs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>. WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |
|             | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>SCREEN PERFI<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GR    | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N<br>TO !<br>2 ! 02<br>22 ! 04<br>45 ! 01<br>60 ! 07<br>69 ! 04<br>B1 ! 05                         | 14<br>and suri<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>CRVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>E | E INATERI<br>AATERI<br>SARE;<br>E IT<br>CLAY 31<br>6 GYP F<br>AND 08<br>CLAY 05<br>1 CLAY  | to 2<br>12 ia.,<br>(AL: 01<br>01<br>From<br>From<br>From<br>From<br>Cont<br>ITHOLOG<br>CALICH<br>OCK<br>MEDIUM<br>SAND                   | 48 ft.,<br>STEEL<br>CONT. S<br>178 f<br>0 f<br>20 f<br>0 f<br>t., Fr<br>aminati   | Dia<br>weight<br>SLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to                               | 39<br>238<br>0<br>248<br>0<br>248<br>0                                | in. to<br>Ibs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>. WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |
|             | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>G | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N<br>TO !<br>2 ! 02<br>22 ! 04<br>45 ! 01<br>60 ! 07<br>69 ! 04<br>81 ! 05<br>100 ! 04             | 14<br>and sur<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTONIN<br>BENTO   | E In.<br>Face<br>I MATER<br>I MATER<br>S ARE;<br>S ARE;<br>FE<br>ft. to<br>Dossit<br>T<br>L<br>CLAY 31<br>6 GYP R<br>AND 08<br>CLAY 05<br>1 CLAY 05  | to 2<br>12 ia.,<br>(AL: 01<br>01<br>From<br>From<br>From<br>From<br>Cont<br>ITHOLOG<br>CALICH<br>OCK<br>MEDIUM<br>SAND                   | 48 ft.,<br>STEEL<br>CONT. S<br>178 f<br>0 f<br>20 f<br>0 f<br>t., Fr<br>aminati   | Dia<br>weight<br>SLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to                               | 39<br>238<br>0<br>248<br>0<br>248<br>0                                | in. to<br>Ibs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>. WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |
| ]           | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GROUT MATER<br>Grout Interv<br>What is the<br>Direction fr<br>CROM<br>SCREEN PERFI<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRAVEN<br>GRA             | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N<br>TO !<br>2 ! 02<br>22 ! 04<br>45 ! 01<br>60 ! 07<br>69 ! 04<br>B1 ! 05<br>100 ! 04<br>121 ! 03 | 14<br>and sur<br>FORATION<br>OPENING<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>BENTONIT<br>& 0<br>burce of<br>NORTHEAS<br>SANDY<br>SAND C<br>SANDY<br>SAND C   | E In.<br>Face<br>MATER<br>S ARE;<br>S ARE;<br>T<br>E<br>ft. to<br>Dossil<br>T<br>CLAY 31<br>6 GYP F<br>AND 0B<br>CLAY 05<br>1 CLAY 05<br>1 C | to 2<br>12 ia.,<br>AL; 01<br>01<br>From<br>From<br>From<br>From<br>20 f<br>12 cant<br>11HOLOG<br>CALICH<br>OCK<br>MEDIUM<br>SAND<br>SAND | 48 ft.,<br>STEEL<br>CONT. 5<br>178 f<br>0 f<br>20 f<br>0 f<br>0 f<br>0 f<br>0 f<br>0 f<br>0 f<br>0 f  | Dia<br>weight<br>BLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to | 39<br>238<br>0<br>248<br>0<br>248<br>0<br>248<br>0<br>248<br>0<br>248 | in. to<br>Ibs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>. WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |
| ]           | Blank casing<br>Casing heig<br>TYPE OF SCRI<br>SCREEN OR PI<br>SCREEN PERFI<br>GRAVEL<br>GRAVEL<br>GROUT MATER<br>Grout Interv<br>What is the<br>Direction fr<br>2<br>2<br>45<br>60<br>67<br>81<br>100<br>121  | g diameter<br>ht above la<br>EEN OR PERF<br>ERFORATION<br>ORATED INTE<br>L PACK INTE<br>IAL 03 B<br>vals: From<br>nearest so<br>rom well? N<br>TO !<br>2 ! 02<br>22 ! 04<br>45 ! 01<br>60 ! 07<br>69 ! 04<br>B1 ! 05<br>100 ! 04<br>121 ! 03 | 14<br>and suri<br>FORATIO<br>OPENING<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ERVALS:<br>ENVALS:<br>ERVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>ENVALS:<br>EN | A CLAY 31<br>CLAY 31<br>CLAY 31<br>CLAY 31<br>CLAY 31<br>CLAY 05<br>1 CLAY 05<br>1 CLAY 05<br>1 CLAY 05  | to 2<br>12 in.,<br>(AL; 01<br>From<br>From<br>From<br>From<br>Cont<br>ITHOLOG<br>CALICH<br>OCK<br>MEDIUM<br>SAND<br>SAND<br>SAND 20      | 48 ft.,<br>STEEL<br>CONT. 5<br>178 f<br>0 f<br>20 f<br>20 f<br>0 f<br>20 f<br>0 f<br>178 f<br>0 f<br>20 | Dia<br>weight<br>BLOT<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>ft. to | 39<br>238<br>0<br>248<br>0<br>248<br>0<br>248<br>0<br>248             | in. to<br>Ibs/ft.<br>ft., Fr<br>ft., Fr<br>ft., Fr<br>to<br>. WELL | 0<br>Wall<br>com<br>com<br>com<br>com<br>com<br>com<br>com<br>com | thickn<br>0 ft.<br>0 ft.<br>0 ft.<br>0 ft.          | to<br>to<br>to<br>to | r gauge k<br>O ft.<br>O ft.<br>O ft.<br>O ft.<br>O ft. | ia2    |

|   | ! Sect<br>: 19  | ion Nu                                  | mber  | : Towns<br>: T 24   | hip Numbe<br>S    | r ;                      | Rance<br>R 28                  | Number<br>W                        | 1                      |
|---|---|---|---|---|-------------------|--------------------------|--------------------------------|------------------------------------|------------------------|
| ess (   | of well   | l if lo                                 | cated w   | ithin cit   | y?                |                          |                                |                                    | ?                      |
|   |   |   |   |   | . Divisio         |                          |                                |                                    | 1                      |
|   |   | App]                                    | ication   | Number:   | 10.999            |                          |                                |                                    |                        |
| WELL  | 248   | Ε                                       | LEVATIO   | N: 0  |                   |                          |                                |                                    |                        |
| r End   | counter   | ed                                      | 1.  | 0 ft.   | 2.                | 0 ft.                    | 3.                             | 0                                  | ft.l                   |
| EVEL  | 138<br>Well w   | ft. be<br>water w                       | low land<br>as 24   | d surface<br>40 ft. af                                    | measured<br>ter 4 | on mo/<br>hours          | day/yr<br>puebing              | 07/08/<br>160                      | 97  <br>gpm            |
| qpa:  | Well  | water                                   | Nas   | 0 ft. af  | ter O             | hours                    | oumping                        | 0                                  | gos:                   |
|   | 24  | in. to                                  | 248   | ft., and  | in,               | to                       | 0 ft.                          |                                    | 2                      |
| AS:   | 03 FEE  | DLOT                                    |   |   |                   |                          |                                | 1                                  | :                      |
| TS:   | WELDED  |   |   |   | . to (            |                          |                                |                                    |                        |
| ITS:<br>in.   | WELDED<br>to  | 0 ft                                    | ., Dia<br>hickness  | in<br>s or gaug   | . to (<br>e No22  | ) ft.<br>5               | P.                             |                                    |                        |
| ITS:<br>in.<br>lbs<br>ft.   | WELDED<br>to<br>s/ft.   | 0 ft<br>Wall t                          | ., Dia<br>hickness<br>ft, to                                    | in<br>s or gaug<br>0 ft                                   | . to (<br>e No22  | ) ft.<br>5               | P.                             |                                    |                        |
| TS:<br>in.<br>lbs<br>ft.<br>ft.   | WELDED  | 0 ft<br>Wall t<br>0<br>0                | ., Dia<br>hickness<br>ft. to<br>ft. to                          | in<br>s or gaugo  | . to (<br>e No22; | ) ft.<br>5               | P.                             |                                    |                        |
| ft.   | WELDED<br>to<br>;/ft,<br>, From<br>, From                     | 0 ft<br>Wall t<br>0<br>0<br>0           | ., Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to                | in<br>s or gaug<br>0 ft<br>0 ft                           | . to (<br>e No22; | ) ft.                    | P.                             |                                    |                        |
| T5:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>, to                   | WELDED<br>to<br>s/ft.<br>. From<br>. From<br>. From<br>. From | 0 ft<br>Wall t<br>0<br>0<br>0           | ft. to ft. to ft. to ft. to                                     | in<br>s or gaug<br>O ft<br>O ft<br>O ft<br>O ft           | . to (<br>e No22; | ) ft.<br>5               | 1                              |                                    |                        |
| T5:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>ft.                    | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0           | ft. to ft. to ft. to ft. to ft. to                              | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft.<br>5<br>'t.<br>How | many fr                        |                                    |                        |
| T5:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>, to                   | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0<br>0<br>0 | Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft.<br>5<br>'t.<br>How | many fr                        |                                    |                        |
| T5:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>, to                   | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0<br>0<br>0 | Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft.<br>5<br>'t.<br>How | many fr                        |                                    |                        |
| TS:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>ft.<br>ft.             | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0<br>0<br>0 | Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft.<br>5<br>'t.<br>How | many fr<br>FERVALS             | ret? ;                             | 240<br>3 <b>XVED</b>   |
| TS:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>ft.<br>ft.             | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0<br>0<br>0 | Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft.<br>5<br>'t.<br>How | many fr<br>FERVALS             | ret? ;                             |                        |
| TS:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>D. W                   | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0<br>0<br>0 | Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft,<br>5<br>t.<br>How  | many fr<br>FERVALS<br>A<br>Gar | ret? ;<br>RECE<br>UG 0<br>den City | 240<br>31VED<br>8 2018 |
| TS:<br>in.<br>ibs<br>ft.<br>ft.<br>ft.<br>ft.<br>D. W                   | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0<br>0<br>0 | Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft,<br>5<br>t.<br>How  | many fr<br>FERVALS<br>A<br>Gar | ret? ;<br>RECE<br>UG 0<br>den City | 240<br>IVED<br>8 2018  |
| <pre>XTS:<br/>in.<br/>lbs<br/>ft.<br/>ft.<br/>ft.<br/>ft.<br/>ft.</pre> | WELDED<br>to<br>ft.<br>From<br>From<br>From<br>From<br>From   | 0 ft<br>Wall t<br>0<br>0<br>0<br>0<br>0 | Dia<br>hickness<br>ft. to<br>ft. to<br>ft. to<br>ft. to<br>From | in<br>s or gauge<br>O ft<br>O ft<br>O ft<br>O ft<br>O ft. | . to (<br>e No22  | ) ft,<br>5<br>t.<br>How  | many fr<br>FERVALS<br>A<br>Gar | ret? ;<br>RECE<br>UG 0<br>den City | 240<br>31VED<br>8 2018 |

| 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<br>  SE 1/4 SW 1/4 SE 1/4   | Section Number<br>  19   | : Township Number<br>: T 24 S | ¦Range Number<br>¦R 28 ₩                            |
|--|---|--|--|--|-------------------------------|---|
| FROM         TO         LITHOLOGIC LOG           135         176         04 SANDY CLAY 20 LINESTONE 05 SAND           177         200         04 SANDY CLAY 20 ROLL           238         235         04 SANDY CLAY 05 SAND           238         245         04 SANDY CLAY 05 SAND           245         240         11 FINALE 20 LINESTONE   |   |  |  | Board of A   | griculture. Division (        | of Water Resources                                  |
| FROM         T0         LITHOLOGIC LOG           133         176         04 SANDY CLAY 20 LINESTONE 05 SAND           197         200         04 SANDY CLAY 28 DOK           238         05 SAND 01 CLAY 28 DOK           238         245         04 SANDY CLAY 05 SAND           238         25 SAND 01 CLAY 28 DOK           238         245         04 SANDY CLAY 05 SAND           245         245         17 SHALE 20 LINESTONE   | 1 | City, State, ZIP   | code : INGALLS, KS 67853-  | Applicatio   |                               | į   |
| AUG 0 8 2018   |   | FROM : TO<br>153 : 176<br>176 : 197<br>197 : 220<br>220 : 238<br>238 : 245 | LITHOLOGIC LOG<br>04 SANDY CLAY 20 LIMESTONE 05 SAND<br>05 SAND 01 CLAY<br>04 SANDY CLAY 05 SAND<br>05 SAND 01 CLAY 28 ROCK<br>04 SANDY CLAY 05 SAND |  |                               |   |
| AUG 0 8 2018   | ] |  |  | *<br>*<br>*<br>*<br>*  |                               |   |
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| AUG 0 8 2018   |   |  |  |  |                               |   |
| Garden City Field Oct  |   |  |  | 1  |                               | RECEIVED  |
| Garden City Field Offic<br>DIVISION OF WATER RESOU   |   |  |  |  |                               | AUG 08 2018   |
|  | 1 |  |  |  |                               | Garden City Field Office<br>DIVISION OF WATER RESOU |
|  |   |  |  |  |                               |   |

|   |  |  |  | WATER  | R WELL RE  | CORD  |
|---|--|--|--|--|--|---|
| 1   | TION OF WATER<br>TY: 035 GRAY  |  |  |  | 1/4 \$   | SE  |
| 11  | ance and dire<br>OX. 7 3/4 MIL   |  |  |  | -  |   |
|   | R WELL OWNER:<br>St. Address,  |  | DWEST FE   |  | INC.   |   |
| City  | , State, ZIP   | code : IN  | GALLS, K   | S 6  | 57853-902  | 23  |
|   | TE WELL'S LOC<br>X" IN SECTION   |  |  |  | TH OF CC   |   |
| 11  |  |  |  | WELL'  | S STATIC   |   |
| 1   | NW   | NE   |  |  |  | ip tes  |
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|   |  | -  | E  | Bore   | Hole Dia   | meter   |
| e   |  | A  |  | WELL   | WATER TO   | BE U  |
|   | SW   | SE<br>   |  | Was a  | chemica  | 1/bac   |
|   |  |  |  | T.C  |  |   |
| Bland<br>  Castr<br>    TYPE  | OF BLANK CAS<br>k casing diam<br>ng height abo<br>OF SCREEN OR   | eter 8<br>ve land surfa<br>PERFORATION   | 5/8 in. t<br>ace 12<br>MATERIAL  | to 24<br>2 in.,<br>.: 07 P   | 5 ft.,<br>wei<br>VC  | SING<br>Dia<br>ght                                    |
| Blank<br>  Castr<br>  TYPE<br>  SCREE   | k casing diam<br>ng height abo   | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING   | 5/8 in. t<br>ace 12<br>MATERIAL<br>S ARE:  | to 24<br>2 in.,<br>.: 07 P<br>03 M   | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.   | SING<br>Dia<br>ght<br>tọ                              |
| Bland<br>Castr<br>TYPE<br>SCREE   | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORA<br>EN PERFORATED   | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING   | 5/8 in. t<br>ace 12<br>MATERIAL<br>S ARE:  | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From   | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.  | SING<br>Dia<br>ght<br>to<br>to<br>to                  |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE  | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORA<br>EN PERFORATED<br>GRAVEL PACK  | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:  | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:   | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From   | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.  | SING<br>Dia<br>ght<br>to<br>to<br>to                  |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE<br>6 GROUT   | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>F MATERIAL<br>Intervals:  | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITH<br>From 5 t   | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>Ft. to  | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>From                 | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.                                 | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE<br>6 GROUT<br>Grout<br>What  | k casing diam<br>ng height abo<br>OF SCREEN'OR<br>EN OR PERFORA<br>EN PERFORATED<br>GRAVEL PACK  | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 d<br>st source of   | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>Ft. to  | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>From                 | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.                                 | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>  Casir<br>  TYPE<br>  SCREE<br>  SCREE<br>  SCREE<br>  Grout<br>  Grout<br>  What<br>  Direc  | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>MATERIAL<br>Intervals:<br>is the neare<br>ction from we   | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 d<br>st source of   | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>ft. to<br>possible  | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>e contar   | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination          | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>Casir<br>TYPE<br>SCREE<br>SCREE<br>6 GROUT<br>6 GROUT<br>Grout<br>What<br>Direc  | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>MATERIAL<br>Intervals:<br>is the neare<br>ction from we   | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITE<br>From 5 d<br>st source of   | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>ft. to<br>possible  | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>From                 | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination          | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>  Castr<br>  TYPE<br>  SCREE<br>  SCREE<br>  SCREE<br>   | k casing diam<br>ng height abo<br>OF SCREEN'OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>MATERIAL<br>Intervals:<br>is the neares<br>ction from we<br>1   TO<br>2   2   | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITH<br>From 5 f<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY  | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>ft. to<br>possible<br>LIT   | to 24<br>2 in.,<br>: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>e contar    | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination          | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>  Castr<br>  TYPE<br>  SCREE<br>  SCREE<br>  SCREE<br>  SCREE<br>  Grout<br>  Grout<br>  What<br>  Direc<br>  FROM<br>  C<br>  22  | k casing diam<br>ng height abo<br>OF SCREEN'OR<br>EN OR PERFORA<br>EN PERFORATED<br>GRAVEL PACK<br>MATERIAL<br>Intervals:<br>is the neares<br>tion from we<br>1   TO<br>2   16<br>5   38   | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITH<br>From 5 f<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY<br>01 CLAY 31  | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>ft. to<br>possible<br>LIT   | to 24<br>2 in.,<br>: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>e contar    | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination          | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE<br>Grout<br>Grout<br>What<br>Direc   | k casing diam<br>ng height abo<br>OF SCREEN'OR<br>EN OR PERFORA<br>EN PERFORATED<br>GRAVEL PACK<br>MATERIAL<br>Intervals:<br>is the neares<br>ction from we<br>1   TO<br>2   16<br>5   38<br>3   50  | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>03 BENTONITH<br>From 5 f<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY  | % in. t         ace       12         MATERIAL         S ARE:         E         ft. to         possible         LIT         1 CALICHE                     | to 24<br>2 in.,<br>: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>e contar    | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination          | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE<br>SCREE<br>Grout<br>What<br>Direc<br>FROM<br>C<br>16<br>38  | k casing diam<br>ng height abo<br>OF SCREEN'OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>T MATERIAL<br>t Intervals:<br>is the neares<br>tion from we<br>1   TO<br>2   16<br>5   38<br>3   50<br>0   70   | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITH<br>From 5 d<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY<br>01 CLAY 31<br>01 CLAY   | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>ft. to<br>possible<br>LIT<br>I CALICHE  | to 24<br>2 in.,<br>: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>e contar    | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination          | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to            |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE<br>Grout<br>Grout<br>What<br>Direc<br>FROM<br>C<br>2<br>16<br>38<br>50<br>70<br>88   | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>MATERIAL<br>Intervals:<br>is the neares<br>stion from we<br>1   TO<br>2   16<br>5   38<br>6   50<br>0   70<br>0   88<br>8   93                        | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITH<br>From 5 f<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY 31<br>01 CL | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>ft. to<br>possible<br>LIT<br>I CALICHE<br>I GRAVEL<br>CLAY<br>NND OB ME                                 | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>e contar   | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>205 ft.<br>0 ft.<br>0 ft.<br>C LOG              | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to<br>to      |
| Bland<br>  Castr<br>  TYPE<br>  SCREE<br>  SCREE | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>T MATERIAL<br>Intervals:<br>is the neares<br>tion from we<br>1   TO<br>2   16<br>5   38<br>8   50<br>0   70<br>0   88<br>8   93<br>8   102            | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITH<br>From 5 f<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY<br>01 CLAY 31<br>01 CLAY 31<br>01 CLAY 31<br>01 CLAY 32<br>01 CLAY 31<br>01 CLAY 32<br>01 CLAY 3 | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>ft. to<br>possible<br>LIT<br>I CALICHE<br>I GRAVEL<br>CLAY<br>WND 08 ME<br>CLAY                         | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>e contar   | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>205 ft.<br>0 ft.<br>0 ft.<br>C LOG              | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to<br>to      |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE<br>SCREE<br>Grout<br>What<br>Direc<br>FROM<br>C<br>2<br>16<br>38<br>50<br>70<br>88   | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>T MATERIAL<br>Intervals:<br>is the neares<br>tion from we<br>1   TO<br>2   16<br>5   38<br>8   50<br>0   70<br>0   88<br>8   93<br>8   102<br>2   124 | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENINGS<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITH<br>From 5 f<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY 31<br>01 CL | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>Ft. to<br>possible<br>LIT<br>I CALICHE<br>I GRAVEL<br>CLAY<br>WND 08 ME<br>CLAY<br>I GRAVEL             | to 24<br>2 in.,<br>.: 07 P<br>03 M<br>From<br>From<br>From<br>From<br>25 ft.<br>a contar   | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination<br>C LOG | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to<br>to      |
| Bland<br>Castr<br>TYPE<br>SCREE<br>SCREE<br>6 GROUT<br>6 GROUT<br>What<br>Direc<br>FROM<br>0<br>2<br>16<br>36<br>50<br>70<br>88<br>93<br>102<br>124   | k casing diam<br>ng height abo<br>OF SCREEN OR<br>EN OR PERFORATED<br>GRAVEL PACK<br>T MATERIAL<br>Intervals:<br>is the neares<br>tion from we<br>1   TO<br>2   16<br>5   38<br>8   50<br>0   70<br>0   88<br>8   93<br>8   102<br>2   124 | eter 8<br>ve land surfa<br>PERFORATION<br>TION OPENING<br>INTERVALS:<br>INTERVALS:<br>O3 BENTONITH<br>From 5 d<br>st source of<br>11? SOUTH<br>02 SILT<br>01 CLAY<br>01 CLAY<br>01 CLAY<br>01 CLAY<br>01 CLAY<br>01 CLAY<br>05 SAND 11<br>04 SANDY C<br>05 SAND 11<br>04 SANDY C   | 5% in. t<br>ace 12<br>MATERIAL<br>S ARE:<br>E<br>Ft. to<br>possible<br>LIT<br>I CALICHE<br>I GRAVEL<br>CLAY<br>ND 08 ME<br>CLAY<br>I GRAVEL<br>CLAY 20 L | to 24<br>2 in.,<br>: 07 P<br>03 M<br>From<br>From<br>From<br>25 ft.<br>: contar<br>HOLOGIC | CA<br>5 ft.,<br>wei<br>VC<br>ILL SLOT<br>145 ft.<br>205 ft.<br>25 ft.<br>0 ft.<br>., From<br>mination<br>C LOG | SING<br>Dia<br>ght<br>to<br>to<br>to<br>to<br>to<br>a |

(NORTH)

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

| Section Number                              | Township Number<br>T 24 S | Range Number<br>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<br>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<br>le was submitted |                           | well disinfected? Yes      |
| in. to 0 ft., Dia<br>lbs/ft. Wall thicknes  | s or gauge No410          | t.                         |
| ft., From 0 ft. to<br>ft., From 0 ft. to    |                           |                            |
| ft., From 0 ft. to                          |                           | i                          |
| ft., From 0 ft. to                          | 0 ft.                     |                            |
| to O ft., From<br>).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)

