

NOTICE

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

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

**APPLICATION FOR APPROVAL TO
CHANGE THE PLACE OF USE, THE
POINT OF DIVERSION OR THE USE
MADE OF THE WATER UNDER AN
EXISTING WATER RIGHT**



State of Kansas

Filing Fee Must Accompany the Application
(Please refer to Fee Schedule on signature page of application form.)

Paragraph Nos. 1, 2, 3, 4 & 8 must be completed. Complete all other applicable portions. A topographic map or detailed plat showing the authorized and proposed points(s) of diversion and /or place of use must accompany this application.

1. Application is hereby made for approval of the Chief Engineer to change the

- Place of Use
(Check one or more) Point of Diversion
 Use Made of Water

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1048
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File No. 37,458

2. Name of applicant: Barton County Feeders, Inc.

Address: 1164 SE 40 Road

City, State and Zip: Ellinwood, KS 67526

Phone Number: (620) 564-2200 E-mail address: alan.pohlman@ilsbeef.com

What is your relationship to the water right; owner tenant agent other? If other, please explain. _____

Name of water use correspondent: Barton County Feeders, Inc.

Address: 1164 SE 40 Road

City, State and Zip: Ellinwood, KS 67526

Phone Number: (620) 564-2200 E-mail address: alan.pohlman@ilsbeef.com

3. The change(s) proposed herein are desired for the following reasons (please be specific): Complete a partial change in use made of water from irrigation to stockwater and install an additional well to supply the stockwater portion to our beef cattle feeding facility. The additional water quantity is needed to support an expansion of the facility that was completed in 2016.

The change(s) (was) (will be) completed by October 1, 2017.
(Date)

For Office Use Only:						
F.O. <u>2</u>	GMD <u>5</u>	Meets K.A.R. 5-5-1 (YES / NO) <u>YES</u>	Use <u>IRR/STK</u>	Source <u>S</u>	County <u>BT</u>	By <u>AM</u> Date <u>8-24-17</u>
Code <u>1-3</u>	Fee \$ <u>700</u>	TR # _____	Receipt Date <u>8-24-17</u>	Check # <u>6783</u>		

8/28/17 DW

4. The presently authorized place of use is:

Owner of Land — NAME: Barton County Feeders, Inc.

ADDRESS: 1164 SE 40 Road, Ellinwood, KS 67526

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
17	20S	11W	33.5	33.5	33.5	33.5					38.5	15.0	15.0	38.5		10.0	10.0		261.0

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

Owner of Land — NAME: _____

ADDRESS: _____

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

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

(If there are more than two landowners, attach additional sheets as necessary.)

5. It is proposed that the place of use be changed to:

Owner of Land — NAME: Barton County Feeders, Inc.

ADDRESS: 1164 SE 40 Road, Ellinwood, KS 67526

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES	
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼		
IRR	17	20S	11W	33.5	33.5	33.5	33.5					38.5	15.0	15.0	38.5		10.0	10.0		261.0
Feedlot	20	20S	11W	X	X	X	X									X	X	X	X	E 1/2
- STK																				

List any other water rights that cover this place of use. See attachment for overlaps related to stockwater use.

Owner of Land — NAME: _____

ADDRESS: _____

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES	
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼		

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

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IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY 2017

ATTACHMENT TO APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE, THE POINT OF DIVERSION OR THE USE MADE OF THE WATER UNDER AN EXISTING WATER RIGHT

APPLICANT: BARTON COUNTY FEEDERS, INC. – FILE NO. 37,458

Continuation of Page 2, No. 5, It is proposed that the place of use be changed to:

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

The following water rights have the same place of use as the proposed place of use for the additional well (feedlot in the E ½ Section 20 T20S R11W):

File Nos. 9,658.01, 14,298.02, 16,878.02, 16,878.03, 18,686.05, 18,686.06, and 36,377.01.

The place of use for File No. 41,588 includes NW ¼ NE ¼ Section 20 T20S R11W.

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6. The presently authorized point(s) of diversion (is) (are) a battery of 4 wells with pumps and appurtenances.
(Provide description and number of points)
7. The proposed point(s) of diversion (is) (are) a battery of 4 wells and 1 additional well with pumps and appurtenances.
(Provide description and number of points)

List all presently authorized point(s) of diversion: See attachment for description of battery of 4 wells.

8. **Presently authorized point of diversion:**
 One in the SE Quarter of the SW Quarter of the SW Quarter of Section 17, Township 20 South, Range 11W (E/W), in Barton County, Kansas, 200 feet North 4212 feet West of Southeast corner of section.
 Authorized Rate 800 gpm Authorized Quantity 197 acre-feet
 (DWR use only: Computer ID No. 2 GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the SE Quarter of the SW Quarter of the SW Quarter of Section 17, Township 20 South, Range 11W (E/W), in Barton County, Kansas, 200 feet North 4212 feet West of Southeast corner of section.
 Proposed Rate 725 gpm Proposed Quantity 139.9 acre-feet
 This point is: Additional Well Geo Center List other water rights that will use this point none

9. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/W), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section.
 Authorized Rate _____ Authorized Quantity _____
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the SW Quarter of the NW Quarter of the NE Quarter of Section 20, Township 20 South, Range 11W (E/W), in Barton County, Kansas, 4336 feet North 2347 feet West of Southeast corner of section.
 Proposed Rate 75 gpm Proposed Quantity 48.7 acre-feet
 This point is: Additional Well Geo Center List other water rights that will use this point none

10. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/W), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section.
 Authorized Rate _____ Authorized Quantity _____
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/W), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section.
 Proposed Rate _____ Proposed Quantity _____
 This point is: Additional Well Geo Center List other water rights that will use this point _____

11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. _____
 Not applicable.

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IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

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**ATTACHMENT TO APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF
USE, THE POINT OF DIVERSION OR THE USE MADE OF THE WATER UNDER AN
EXISTING WATER RIGHT**

APPLICANT: BARTON COUNTY FEEDERS, INC. – FILE NO. 37,458

Continuation of Page 3, No. 8, Presently authorized point of diversion:

The point of diversion described in No. 8 is the Geo Center of a battery of four (4) wells. The location of each well in the battery is listed below:

FILE NO.	DWR ID	QUARTER	QUARTER	QUARTER	SEC-TWP -RGE	NORTH*	WEST*
37,458	3	SE	SW	SW	17-20S-11W	235 FT	4212 FT
37,458	4	SE	SW	SW	17-20S-11W	165 FT	4212 FT
37,458	5	SE	SW	SW	17-20S-11W	90 FT	4212 FT
37,458	7	SE	SW	SW	17-20S-11W	310 FT	4212 FT

* From Southeast corner of section.

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12. The presently authorized use of water is for irrigation purposes.
It is proposed that the use be changed to irrigation and stockwatering purposes.
13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased. Refer to the attached consumptive use calculations. The total quantity requested by this change application is the consumptive use quantity based on a partial change in use from irrigation to stockwatering. Consumptive use is based on the "Irrigation Return-Flow Percentages in Kansas, by County" map issued by DWR. The calculations indicate a reduction of the quantity currently authorized for irrigation use. The method of determining consumptive use complies with the requirements of K.A.R. 5-5-9 (b) and 5-5-10.
(Please show any calculations here.)
14. It is requested that the maximum annual quantity of water be reduced to 188.6 acre-feet (acre-feet or million gallons).
15. It is requested that the maximum rate of diversion of water be reduced to ----- gallons per minute (----- c.f.s.).
16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 (www.usgs.gov). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.
- a. If a change in the location of the point(s) of diversion is proposed, show:
 - 1) The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
 - 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
 - 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.
 - b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.
17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.
Please refer to the attached maps and supporting documentation. The proposed additional well is less than 2,640 feet from the currently authorized point of diversion.
-
-
-
18. If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.
Please refer to the letter enclosed with this application for specific details concerning waiver requests. The waiver requests pertain to well spacing as it relates to applicable provisions of K.A.R. 5-4-4, 5-5-16, and 5-25-2.
Waivers of K.A.R. 5-5-9 and 5-5-10 are requested if necessary for approval of the consumptive use determination.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

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

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

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

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

I declare that I am an owner of the currently authorized place of use as identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.

Dated at Ellinwood, Kansas, this 8th day of August, 2017.

Alan Pohlman
(Owner)
Alan Pohlman
(Please Print)
(Owner)
(Please Print)
(Owner)
(Please Print)

(Spouse)
(Please Print)
(Spouse)
(Please Print)
(Spouse)
(Please Print)

State of Kansas }
County of Barton } SS

State of Kansas - Notary Public
CHERYL RAPP
My Commission Expires 10-15-18

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 8th day of August, 2017.

Cheryl Rapp
Notary Public

My Commission Expires 10-15-18.

FEE SCHEDULE

Each application to change the place of use, the point of diversion or the use made of the water under this section shall be accompanied by the application fee set forth in the schedule below:

- (1) Application to change a point of diversion 300 feet or less \$100
- (2) Application to change a point of diversion more than 300 feet \$200
- (3) Application to change the place of use \$200
- (4) Application to change the use made of the water \$300

Make check payable to **Kansas Department of Agriculture.**

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KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: **BARTON COUNTY FEEDERS, INC.**

LOCATION: SECTIONS 17 & 20 T20S R11W, BARTON COUNTY, KANSAS

BY: FCM
DATE: 7/17/2017

CHECKED BY: DLB
DATE: 8/2/2017

**CONSUMPTIVE USE CALCULATION PERTAINING TO FILE NO. 37,458
FOR PARTIAL CHANGE OF USE FROM IRRIGATION TO STOCKWATER**

File No. 37,458: Authorized Quantity = 197 AF
Authorized Rate = 800 GPM

Proposed change in use made of water: Convert 48.7 AF and 75 GPM to stockwatering use

Apply consumptive use factor from "Irrigation Return-Flow Percentages in Kansas, by County" issued by DWR:
→ For Barton County, the factor = 14.4%

→ Consumptive Use = (197 AF) - (197 AF x 14.4%)
= (197 AF) x (1.00 - 0.144) = 168.6 AF

Proportion of partial use based on proposed change = (Stockwater Use)/(Consumptive Use)
= $\frac{48.7 \text{ AF}}{168.6 \text{ AF}}$ = 29%

→ Proportion remaining for irrigation = 100% - 29% = 71%
→ Remaining quantity for irrigation = (71%) x (197 AF) = **139.9 AF**

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

Current facility capacity = 29,000 head of beef cattle (average annual capacity)

→ Maximum Reasonable Use = (29,000 head) x (15 gallons/head/day) x (365 days/year) = 158.78 MGY
= 487.3 AF

Facility Stockwater Summary:

File No.	Quantity (AF)
41,588	14.90
9,658.01	33.40
14,298.02	39.20
16,878.02	39.20
16,878.03	39.20
18,686.05	39.20
18,686.06	39.20
36,377.01	34.00
37,458	48.70
Total	327.00

Industrial right used to supply the feed mill

Proposed additional well

→ Requested stockwatering quantity is reasonable (327.0 AF < 487.3 AF maximum)

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Check requested rate of 75 gpm for capacity to supply 48.7 AF of stockwater:

$$\begin{aligned} \text{Maximum quantity supplied} &= (75 \text{ gpm}) \times (60 \text{ min/hr}) \times (24 \text{ hr/day}) \times (365 \text{ days/yr}) \times (1 \text{ AF}/325,851 \text{ gal}) \\ &= 121.0 \text{ AF} \quad \rightarrow 75 \text{ gpm rate is sufficient to supply the requested quantity} \end{aligned}$$

Distribution of rate of diversion:

$$\text{Total rate of diversion of existing battery of wells based on current flow test} = 800 \text{ gpm}$$

$$\text{Rate of diversion requested for additional well for stockwatering use} = \underline{75 \text{ gpm}}$$

$$\text{Difference} = \text{rate of diversion requested for existing battery of wells for irrigation use} = 725 \text{ gpm}$$

Check requested rate of 725 gpm for capacity to supply 139.9 AF for irrigation use:

→ Assume minimum 90-day irrigation season:

$$\begin{aligned} \text{Maximum quantity supplied} &= (725 \text{ gpm}) \times (60 \text{ min/hr}) \times (24 \text{ hr/day}) \times (90 \text{ days/yr}) \times (1 \text{ AF}/325,851 \text{ gal}) \\ &= 288.4 \text{ AF} \quad \rightarrow 725 \text{ gpm rate is sufficient to supply the requested quantity} \end{aligned}$$

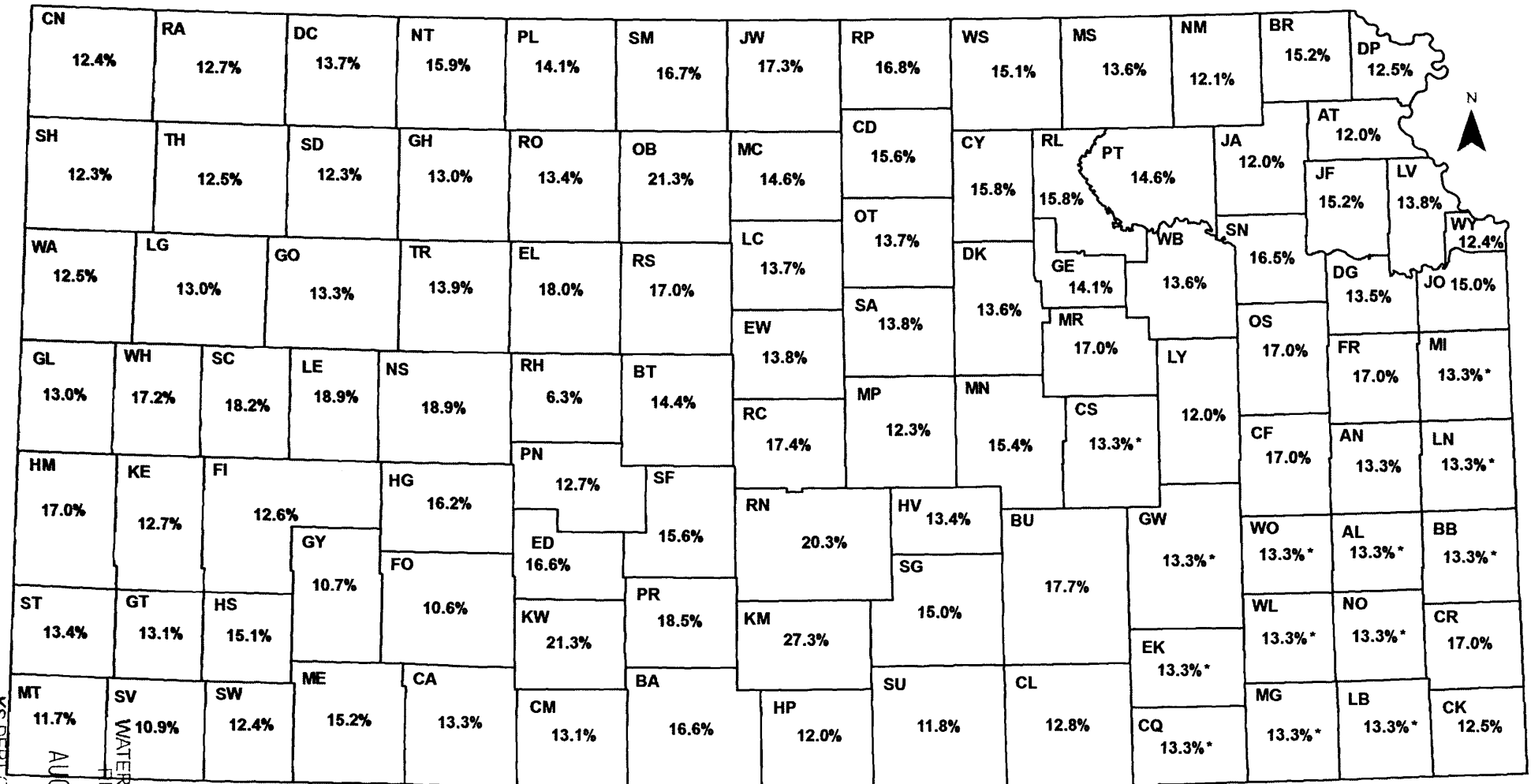
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Irrigation Return-Flow Percentages in Kansas, by County

based on area-weighted average irrigation return flow



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

$$150 - (150 \times 13.3\%) = 150 \times (1 - 0.133) = 130 \text{ acre-feet}$$



DIVISION OF WATER RESOURCES—KANSAS DEPARTMENT OF AGRICULTURE
METER FLOW RATE/VOLUME TEST

FILE NO. 37,458 Date: 7/26/17 Tester: Conant Tested 1 of 1 installations
 Point of Diversion: SE SW SW (authorized geo center) Sec. 17, T. 20S, R. 11W

Approximately 200 ft. North and 4,212 ft. West of SE corner of Sec 17.
 How were distances determined? WRIS (see attachments for new GPS) Latitude -- Longitude --

Person(s) present at the test: Mitch Mulch Relationship(s) to owner: feedlot manager

TEST METER INFORMATION: Test meter location at battery of wells Last verified 5/30/17

Manufacturer Panametrics Model # 878 Serial # 09641

Test location had 78" of straight pipe upstream of the transducers to a 90 degree bend (9.75 pipe diameters)
 Test location had 17" of straight pipe downstream to the propeller on the meter (2.1 pipe diameter)(>5 diameters if prop is not counted as obstruction)

NORMAL CONDITIONS:

R.P.M. POWER UNIT --
 R.P.M. PUMP UNIT --
 Pressure at Pump -- psi

MAXIMUM CONDITIONS

R.P.M. POWER UNIT --
 R.P.M. PUMP UNIT --
 Pressure at Pump -- psi

Non-Intrusive Meter Test Meter Type ultrasonic Meter Serial No. 09641
 Ending 5008.785 gal. Ending -- gal.
 Beginning 0 gal. Meas. O.D. 8.645 gal.
 Difference 5008.785 gal. Meas. Wall 0.179 gal.
 Time 376.8 = 6.28 min. XDCR Setting 200.1 mm Time --- min.
 Rate 797.6 gpm. Material Type CS Rate --- gpm.

Diagnostics:

Signal Strength SS up: 63.6 SS dn: 63.5 (Should be over 55 highest on PVC, up and dn should be close to the same)
 SNDSP: 4821 (Should be close to book value for the soundspeed at measured temp) Temp 56 F
 Delta T (<Delta>): -- Is this number stable? (Yes / No) If no please explain: --
 T up: 318.7 T dn: 318.4 (Bad: continuous large fluctuations of 1 microsecond or more)
 Signal Quality: Q up 63.2 Q dn 63 (Should be + - 300 or greater)
 AMPup: 28.3 AMPdn: 28.2 (Should be 20 - 28 fluctuations)
 P#up: 510 P#dn: 507 (100 to 900, closest to 500 is best)
 Nfup: -- Nfdn: -- (Should Be 0.85 to 1.0)

Installed Meter Test Manufacturer McCrometer Serial # GP12-2586 Model # MO308

UPSTREAM: 93" from propeller to 90° bend in pipe
 DOWNSTREAM: 47" from propeller to 90° bend in pipe

Outside Diameter (Stamped) 8.625 inches (Measured) 8.64 inches
 Inside Diameter (Stamped) 8.356 inches (Measured) 8.287 inches

Ending 222,343,000 gal. Ending -- gal./AF
 Beginning 222,338,000 gal. Beginning -- gal./AF
 Difference 5,000 gal. Difference -- gal./AF
 Time 6:17.56 = 6.2927 min. Time -- min.
 Rate 794.6 gpm. Rate -- gpm. WATER RESOURCES RECEIVED

% Error Calculation: $\frac{\text{Test} - \text{Meter}}{\text{Test}} \times 100$ % error 0.38% low

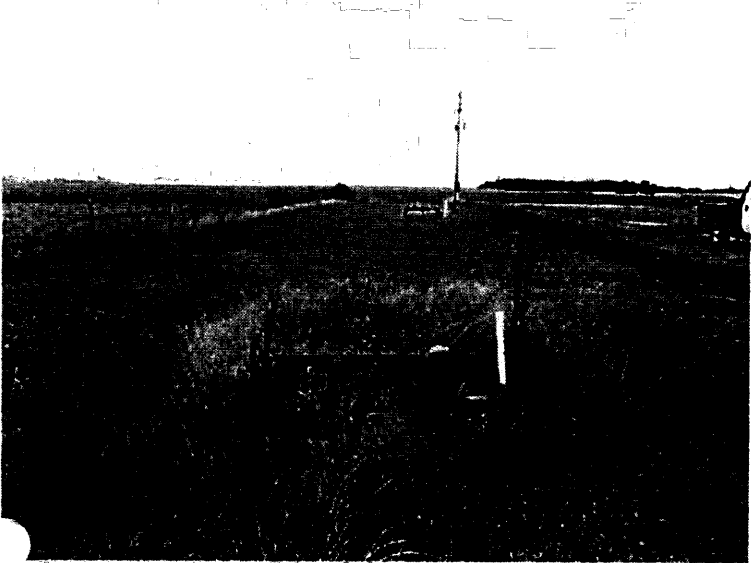
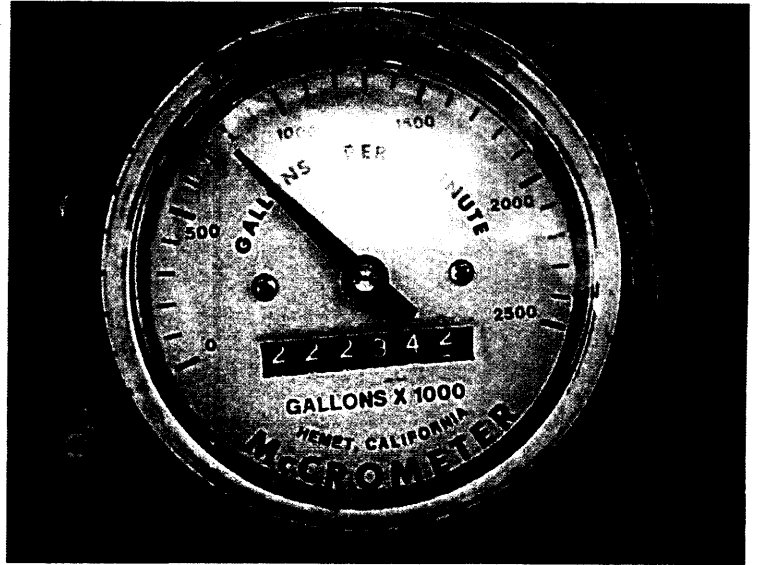
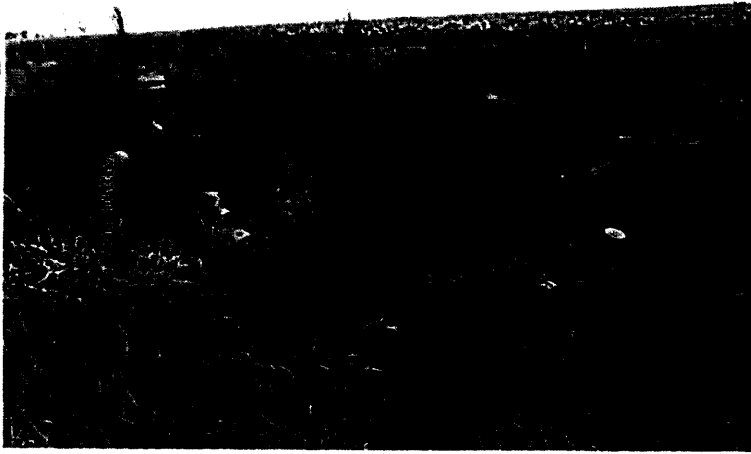
Other Flowmeter Use Supplemental Sheet (include meter identification, data and calculations).

COMMENTS: The authorized rate is 800gpm. The tested rate should be rounded to 800gpm for the purposes of using the test to facilitate the additional well change in point of diversion. The transducers were rotated between the first and second test. The second test was 1.4% with similarly good diagnostics. I did not log the second test as it showed a lower rate than the first test. The intent of the test was to measure the highest current rate of the system in the middle of irrigation season, so the first test should be used.

- Good Test
- Adequate Test
- Unacceptable Comparison

Reviewed by [Signature] Date 7/26/17 Entered by [Signature] Date 7/26/17

Pictures:



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File No. 37,458

AUG 24 2017

INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	W
Target Point Coordinates (NAD27 or NAD83)	
Target Longitude	-98.56803
Target Latitude	38.30545



- Instructions**
1. Enter values for section, township, range and range direction.
 2. Enter **NAD27** or **NAD83** longitude and latitude of target point.
 3. Click "Load Data and Compute" button.
 4. Use feet distances corresponding to datum of target point.

**Water Right File No. 37,458 (D27 (north well)
estimated accuracy-6.6'**

Loaded Section Data From LEOBASE using NAD83		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30441020	-98.57201032
NW	38.31896604	-98.57202608
NE	38.31904316	-98.55366837
SE	38.30445512	-98.55362261
Degrees Longitude per Foot		3.48495929E-06
Degrees Latitude per Foot		2.74594472E-06
Target Point Distances from Corners using NAD83		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	379	-1142
NW	-4922	-1147
NE	-4950	4121
SE	362	4134

Loaded Section Data From LEOBASE using NAD27		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30439800	-98.57165500
NW	38.31895400	-98.57167100
NE	38.31903100	-98.55331400
SE	38.30444300	-98.55326800
Degrees Longitude per Foot		3.48495870E-06
Degrees Latitude per Foot		2.74598553E-06
Target Point Distances from Corners using NAD27		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	383	-1040
NW	-4918	-1045
NE	-4946	4223
SE	367	4236

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INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	W
Target Point Coordinates (NAD27 or NAD83)	
Target Longitude	-98.56803
Target Latitude	38.30524



- Instructions**
1. Enter values for section, township, range and range direction.
 2. Enter **NAD27** or **NAD83** longitude and latitude of target point.
 3. Click "Load Data and Compute" button.
 4. Use feet distances corresponding to datum of target point.

**Water Right, File No. 37,455 ID#3 (middle north well)
estimated accuracy 5.6'**

Loaded Section Data From LEOBASE using NAD83		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30441020	-98.57201032
NW	38.31896604	-98.57202608
NE	38.31904316	-98.55366837
SE	38.30445512	-98.55362261
Degrees Longitude per Foot		3.48495929E-06
Degrees Latitude per Foot		2.74594472E-06
Target Point Distances from Corners using NAD83		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	302	-1142
NW	-4999	-1147
NE	-5027	4121
SE	286	4134

Loaded Section Data From LEOBASE using NAD27		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30439800	-98.57165500
NW	38.31895400	-98.57167100
NE	38.31903100	-98.55331400
SE	38.30444300	-98.55326800
Degrees Longitude per Foot		3.48495870E-06
Degrees Latitude per Foot		2.74598553E-06
Target Point Distances from Corners using NAD27		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	307	-1040
NW	-4994	-1045
NE	-5022	4223
SE	290	4236

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INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	w
Target Point Coordinates (NAD27 or NAD83)	
Target Longitude	-98.56804
Target Latitude	38.30503



- Instructions**
1. Enter values for section, township, range and range direction.
 2. Enter **NAD27** or **NAD83** longitude and latitude of target point.
 3. Click "Load Data and Compute" button.
 4. Use feet distances corresponding to datum of target point.

**Water Right File No. 37,456 ID#4 (middle south well)
estimated accuracy-5.6'**

Loaded Section Data From LEOBASE using NAD83		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30441020	-98.57201032
NW	38.31896604	-98.57202608
NE	38.31904316	-98.55366837
SE	38.30445512	-98.55362261
Degrees Longitude per Foot		3.48495929E-06
Degrees Latitude per Foot		2.74594472E-06
Target Point Distances from Corners using NAD83		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	226	-1139
NW	-5075	-1144
NE	-5103	4124
SE	209	4137

Loaded Section Data From LEOBASE using NAD27		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30439800	-98.57165500
NW	38.31895400	-98.57167100
NE	38.31903100	-98.55331400
SE	38.30444300	-98.55326800
Degrees Longitude per Foot		3.48495870E-06
Degrees Latitude per Foot		2.74598553E-06
Target Point Distances from Corners using NAD27		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	230	-1037
NW	-5071	-1042
NE	-5099	4226
SE	214	4239

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INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	W
Target Point Coordinates (NAD27 or NAD83)	
Target Longitude	-98.56805
Target Latitude	38.30482



- Instructions**
1. Enter values for section, township, range and range direction.
 2. Enter **NAD27** or **NAD83** longitude and latitude of target point.
 3. Click "Load Data and Compute" button.
 4. Use feet distances corresponding to datum of target point.

**Water Right: File No. 37,458 ID#5 (south well)
estimated accuracy -5.8'**

Loaded Section Data From LEOBASE using NAD83		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30441020	-98.57201032
NW	38.31896604	-98.57202608
NE	38.31904316	-98.55366837
SE	38.30445512	-98.55362261
Degrees Longitude per Foot		3.48495929E-06
Degrees Latitude per Foot		2.74594472E-06
Target Point Distances from Corners using NAD83		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	149	-1136
NW	-5152	-1141
NE	-5180	4127
SE	133	4140

Loaded Section Data From LEOBASE using NAD27		
Corner	Corner Latitudes	Corner Longitudes
SW	38.30439800	-98.57165500
NW	38.31895400	-98.57167100
NE	38.31903100	-98.55331400
SE	38.30444300	-98.55326800
Degrees Longitude per Foot		3.48495870E-06
Degrees Latitude per Foot		2.74598553E-06
Target Point Distances from Corners using NAD27		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	154	-1034
NW	-5147	-1039
NE	-5175	4228
SE	137	4242

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KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: **BARTON COUNTY FEEDERS, INC.**

LOCATION: SECTIONS 17 & 20 T20S R11W, BARTON COUNTY, KANSAS

BY: FCM
DATE: 7/17/2017

CHECKED BY: DLB
DATE: 8/2/2017

JUSTIFICATION FOR IRRIGATED ACRES AND MAINTAINING CURRENT PLACE OF USE

Barton County Feeders, Inc. must comply with KDHE regulations pertaining to confined animal feeding operations (CAFOs). The regulations include implementation of an approved Nutrient Management Plan (NMP). The NMP prescribes the requirements for agronomic application of facility wastewater through irrigation systems owned by the facility. This includes the center pivot sprinklers that irrigate the place of use pertaining to File No. 37,458. The NMP also indicates the areas that must be available for wastewater application and this includes the entire place of use currently associated with File No. 37,458. It is therefore necessary to retain all of the acres associated with this place of use for NMP compliance, which relies on both groundwater and wastewater irrigation to manage nutrient levels in the fields where wastewater is applied. The total quantities of groundwater and wastewater available for irrigation are summarized as follows:

Wastewater quantity based on recent application records from KDHE annual reports:

YEAR	WASTEWATER APPLICATION		
	CIRCLE 2 S 1/2 17-20S-11W	CIRCLE 3 NE 1/4 17-20S-11W	TOTAL
2013	8,949,000 gallons	8,538,000 gallons	17,487,000 gallons
2014	16,576,000 gallons	0 gallons	16,576,000 gallons
2015	5,475,000 gallons	0 gallons	5,475,000 gallons
2016	18,255,000 gallons	0 gallons	18,255,000 gallons
AVERAGE	12,313,750 gallons	2,134,500 gallons	14,448,250 gallons

$$(TOTAL\ AVERAGE)/(325,851\ gallons/acre-foot) = 44.3\ acre-feet$$

Water quantities available for irrigation:

Proposed irrigation quantity for File No. 37,458 =	139.9 AF	AF = Acre-Feet
Average annual wastewater quantity =	44.3 AF	
Total Annual Quantity =	184.2 AF	

Current place of use associated with File No. 37,458:

134 acres in NE 1/4 Section 17 T20S R11W
<u>127</u> acres in SW 1/4 & SE 1/4 Section 17 T20S R11W
261 acres total place of use

$$\begin{aligned} \rightarrow \text{Current Unit Irrigation Rate} &= \frac{\text{Current Authorized Quantity}}{\text{Authorized Acres}} \\ &= \frac{(197\ AF)}{(261\ Ac.)} = 0.75\ Ft. \end{aligned}$$

$$\begin{aligned} \rightarrow \text{Proposed Unit Irrigation Rate} &= \frac{\text{Proposed Total Annual Quantity}}{\text{Authorized Acres}} \\ &= \frac{(184.2\ AF)}{(261\ Ac.)} = 0.71\ Ft. = 94.7\% \text{ OF CURRENT UNIT RATE} \end{aligned}$$

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Maximum acres irrigated during perfection = 131 acres (Information provided by Elizabeth Fitch, DWR, via phone on 07/19/2017)
Base acres = 260 acres

→ Consumptive use will not increase if the authorized place of use and acres authorized for irrigation remain the same. The contribution from wastewater will increase due to the expansion of the facility, which was completed at the end of 2016. Therefore, the unit irrigation rate will be unchanged with a 5.3% increase in wastewater application, which is very likely to occur. The request to retain 261 acres for irrigation is essentially the same as the base acres.

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LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: Barton	SE 1/4 SW 1/4 SW 1/4	17	T 20 S	R 11 NE/W

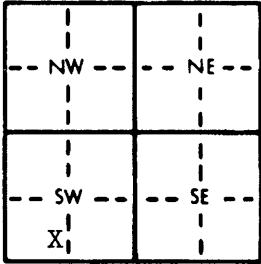
Distance and direction from nearest town or city street address of well if located within city?

Approx. 3 miles south of Ellinwood, KS

WATER WELL OWNER: Barton Co. Land & cattle
 St. Address, Box #: Route 2
 City, State, ZIP Code: Ellinwood, KS 67526

Board of Agriculture, Division of Water Resources
 Application Number: 37,458

LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



DEPTH OF COMPLETED WELL: 53 ft. ELEVATION: unknown

Depth(s) Groundwater Encountered 1. 11 ft. 2. ft. 3. ft.

WELL'S STATIC WATER LEVEL: 11 ft. below land surface measured on mo/day/yr 6/17/88

Pump test data: Well water was not ck'd. ft. after hours pumping gpm

Est. Yield: 200 gpm; Well water was ft. after hours pumping gpm

Bore Hole Diameter: 24 in. to 52 ft., and in. to ft.

WELL WATER TO BE USED AS:

5 Public water supply	8 Air conditioning	11 Injection well
1 Domestic	3 Feedlot	6 Oil field water supply
2 Irrigation	4 Industrial	7 Lawn and garden only
		10 Observation well

Was a chemical/bacteriological sample submitted to Department? Yes.....No..X.....; If yes, mo/day/yr sample was submitted

Water Well Disinfected? Yes No X

TYPE OF BLANK CASING USED:

1 Steel	3 RMP (SR)	5 Wrought iron	8 Concrete tile	CASING JOINTS: Glued	Clamped
2 PVC	4 ABS	6 Asbestos-Cement	9 Other (specify below)	Welded	X
		7 Fiberglass		Threaded	

Blank casing diameter: 16 in. to 22 ft., Dia 16 in. to 42 ft., Dia in. to ft.

Casing height above land surface: 12 in., weight 42.05 lbs./ft. Wall thickness or gauge No. 250

TYPE OF SCREEN OR PERFORATION MATERIAL:

1 Steel	3 Stainless steel	5 Fiberglass	8 RMP (SR)	10 Asbestos-cement	11 Other (specify)
2 Brass	4 Galvanized steel	6 Concrete tile	9 ABS	12 None used (open hole)	

SCREEN OR PERFORATION OPENINGS ARE:

1 Continuous slot	3 Mill slot	5 Gauzed wrapped	8 Saw cut	11 None (open hole)
2 Louvered shutter	4 Key punched	6 Wire wrapped	9 Drilled holes	
		7 Torch cut	10 Other (specify) Doerr Bridge Slot	

SCREEN-PERFORATED INTERVALS: From 22 ft. to 34 ft., From ft. to ft.

From 42 ft. to 52 ft., From ft. to ft.

GRAVEL PACK INTERVALS: From 15 ft. to 52 ft., From ft. to ft.

From ft. to ft., From ft. to ft.

GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other

Grout Intervals: From 0 ft. to 15 ft., From ft. to ft., From ft. to ft.

What is the nearest source of possible contamination:

1 Septic tank	4 Lateral lines	7 Pit privy	10 Livestock pens	14 Abandoned water well
2 Sewer lines	5 Cess pool	8 Sewage lagoon	11 Fuel storage	X X X X X Gas well
3 Watertight sewer lines	6 Seepage pit	9 Feedyard	12 Fertilizer storage	16 Other (specify below)
			13 Insecticide storage	none known

Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	10	Fine sand topsoil & sandy tan clay			
10	34	Sand & gravel, med. to fine to coarse			
34	44	Clay, yellow gray & black			
44	52	Sand & gravel, med. to fine to coarse w/a couple thin yellow clay streaks			

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CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 6/17/88 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 185 This Water Well Record was completed on (mo/day/yr) 7/28/88 under the business name of Clarke Well & Equipment, INC. by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water Protection, Topeka, Kansas 66620-7320, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

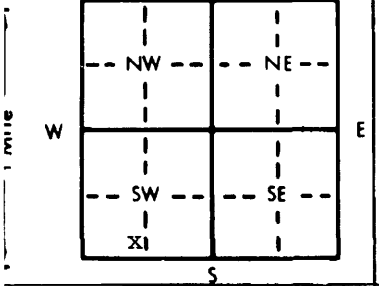
Well #3 of 4 wells
75' north of #2

LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: Barton	SE 1/4 SW 1/4 SW 1/4	17	T 20 S	R 11 E/W

Distance and direction from nearest town or city street address of well if located within city?
 Approx. 3 miles south of Ellinwood, KS

WATER WELL OWNER: Barton Co. Land & Cattle
 Address, Box #: Route 2
 City, State, ZIP Code: Ellinwood, KS 67526
 Board of Agriculture, Division of Water Resources
 Application Number: 37,458

LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



DEPTH OF COMPLETED WELL: 53 ft. ELEVATION: unknown
 Depth(s) Groundwater Encountered 1. 11 ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL: 11 ft. below land surface measured on mo/day/yr 6/17/88
 Pump test data: Well water was not ck'd ft. after hours pumping gpm
 Est. Yield 200 gpm: Well water was ft. after hours pumping gpm
 Bore Hole Diameter: 24 in. to 52 ft., and in. to ft.
 WELL WATER TO BE USED AS:
 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Observation well
 Was a chemical/bacteriological sample submitted to Department? Yes No X; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes No X

TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below)
 7 Fiberglass
 CASING JOINTS: Glued Clamped Welded X Threaded
 Blank casing diameter 16 in. to 22 ft., Dia 16 in. to 42 ft., Dia
 Casing height above land surface 12 in., weight 42.05 lbs./ft. Wall thickness or gauge No. 250

TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless steel 5 Fiberglass 7 PVC 10 Asbestos-cement
 2 Brass 4 Galvanized steel 6 Concrete tile 8 RMP (SR) 11 Other (specify)
 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
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 7 Torch cut 10 Other (specify) Doerr Bridge Slot

SCREEN-PERFORATED INTERVALS: From 22 ft. to 34 ft., From 42 ft. to 52 ft., From 15 ft. to 52 ft.
 GRAVEL PACK INTERVALS: From 15 ft. to 52 ft., From ft. to ft., From ft. to ft.

GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other
 Grout Intervals: From 0 ft. to 15 ft., From ft. to ft., From ft. to ft.

What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage no. known source

Direction from well?		LITHOLOGIC LOG		LITHOLOGIC LOG	
FROM	TO	FROM	TO	FROM	TO
0	10				
		Fine sand topsoil and sandy tan clay			
10	34				
		Sand & gravel, med. to fine to coarse			
34	45				
		Clay, yellow gray & black			
45	52				
		Sand & gravel, med. to fine to coarse			

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CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 6/17/88 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 185 This Water Well Record was completed on (mo/day/yr) 7/28/88 under the business name of Clarke Well & Equipment, Inc. by (signature)

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General Well Site Information

USGS ID:	381819098340601	KGS Local Well ID:	20S 11W 17CCD 01
County:	Barton	PLSS Description:	20S 11W 17 SWSWSE
HUC 8 Code:	11030004	GMD:	Big Bend GMD #5
Longitude:	-98.568355	Lat/Long Source:	GPS
Latitude:	38.304812	Lat/Long Accuracy:	5 seconds
Surface Elevation (ft):	1795.98	Depth of Well (ft):	53
Geological Unit Codes:		USGS Map Name:	Ellinwood
Use of Site:	Withdrawal of Water	Use of Water:	Irrigation
WWC5 Links:	<u>3024</u>	WIMAS Link:	<u>29121</u>

[Google Location Map](#)

Well Remarks:

No available photograph for this well.

Measuring Point Information

Note that height is listed as feet above or below land surface.

Height: 2.3
Description: MEASUREMENT TUBE AT SOUTH WELL

Other Well Identifiers

Well Identifier	Assignor	Date Assigned
BT09M	BMT MA Wells	MAY-21-2004
37458	KDA-DWR	MAY-21-2004
Middle Ark	KDA-DWR Wells	SEP-09-2016

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Water Level Measurements

381819098340601

Note that depth to water is feet below land surface and all measurements for the well are included.

Hydrograph- Annual Average Depth to Water Below Land Surface

Date	Depth to Water	Status	Agency	Method	WL Source	Tape	Hold	Chalk	Cut	Initials
SEP-01-1997	-9.6	B	DWR	Unknown	-	-	---	-	-	-
JAN-01-1998	-8.1	B	DWR	Unknown	-	-	---	-	-	-
APR-01-1998	-6.5	B	DWR	Unknown	-	-	---	-	-	-
MAR-01-1999	-7.5	B	DWR	Unknown	-	-	---	-	-	-
MAY-01-1999	-6.6	B	DWR	Unknown	-	-	---	-	-	-
SEP-01-1999	-8.91	B	DWR	Unknown	-	-	---	-	-	-
JAN-01-2000	-8.81	B	DWR	Unknown	-	-	---	-	-	-
FEB-01-2000	-8.81	B	DWR	Unknown	-	-	---	-	-	-
MAR-01-2000	-6.71	B	DWR	Unknown	-	-	---	-	-	-
APR-01-2000	-7.19	B	DWR	Unknown	-	-	---	-	-	-
MAY-01-2000	-7.61	B	DWR	Unknown	-	-	---	-	-	-
JUN-01-2000	-9.31	B	DWR	Unknown	-	-	---	-	-	-
JUL-01-2000	-10.35	B	DWR	Unknown	-	-	---	-	-	-
AUG-01-2000	-10.17	B	DWR	Unknown	-	-	---	-	-	-
SEP-01-2000	-10.8	B	DWR	Unknown	-	-	---	-	-	-
OCT-01-2000	-10.77	B	DWR	Unknown	-	-	---	-	-	-
NOV-01-2000	-9.77	B	DWR	Unknown	-	-	---	-	-	-
DEC-01-2000	-9.68	B	DWR	Unknown	-	-	---	-	-	-
JAN-01-2001	-9.72	B	DWR	Unknown	-	-	---	-	-	-
FEB-01-2001	-9.53	B	DWR	Unknown	-	-	---	-	-	-
MAR-01-2001	-8.31	B	DWR	Unknown	-	-	---	-	-	-
APR-01-2001	-8.13	B	DWR	Unknown	-	-	---	-	-	-
JUN-01-2001	-9.05	B	DWR	Unknown	-	-	---	-	-	-
JUL-01-2001	-10.08	B	DWR	Unknown	-	-	---	-	-	-
AUG-01-2001	-11.06	-	DWR	Unknown	-	14	0.64	-	phd	-
SEP-01-2001	-9.39	B	DWR	Unknown	-	-	---	-	-	-
OCT-01-2001	-9.55	B	DWR	Unknown	-	-	---	-	-	-
NOV-01-2001	-9.67	B	DWR	Unknown	-	-	---	-	-	-
DEC-01-2001	-9.74	B	DWR	Unknown	-	-	---	-	-	-
JAN-01-2002	-9.72	B	DWR	Unknown	-	-	---	-	-	-

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FEB-01-2002	-9.9	B	DWR	Unknown	-	---	-
MAR-01-2002	-10.1	B	DWR	Unknown	-	---	-
APR-01-2002	-10.21	B	DWR	Unknown	-	---	-
MAY-01-2002	-10.77	B	DWR	Unknown	-	---	-
JUL-01-2002	-17.45	B	DWR	Unknown	-	---	-
AUG-01-2002	-12.73	B	DWR	Unknown	-	---	-
SEP-01-2002	-12.34	B	DWR	Unknown	-	---	-
OCT-01-2002	-11.78	B	DWR	Unknown	-	---	-
NOV-01-2002	-11.52	B	DWR	Unknown	-	---	-
DEC-01-2002	-11.44	B	DWR	Unknown	-	---	-
JAN-01-2003	-11.37	B	DWR	Unknown	-	---	-
FEB-01-2003	-11.3	B	DWR	Unknown	-	---	-
MAR-01-2003	-11.24	B	DWR	Unknown	-	---	-
APR-01-2003	-10.54	B	DWR	Unknown	-	---	-
MAY-01-2003	-11.1	B	DWR	Unknown	-	---	-
SEP-01-2003	-12.68	B	DWR	Unknown	-	---	-
OCT-01-2003	-12.58	B	DWR	Unknown	-	---	-
NOV-01-2003	-12.33	B	DWR	Unknown	-	---	-
DEC-01-2003	-12.24	B	DWR	Unknown	-	---	-
JAN-01-2004	-12.18	B	DWR	Unknown	-	---	-
FEB-01-2004	-12.05	B	DWR	Unknown	-	---	-
MAR-01-2004	-11.82	B	DWR	Unknown	-	---	-
APR-01-2004	-11.84	B	DWR	Unknown	-	---	-
MAY-01-2004	-12.25	-	DWR	Unknown	-	---	-
OCT-22-2004	-12.42	-	DWR	Unknown	-	---	-
NOV-23-2004	-12.23	-	DWR	Unknown	-	---	-
DEC-14-2004	-12.12	-	DWR	Unknown	-	---	-
JAN-06-2005	-11.65	-	DWR	Unknown	-	---	-
FEB-04-2005	-11.93	-	DWR	Unknown	-	---	-
MAR-04-2005	-11.63	-	DWR	Unknown	-	---	-
APR-21-2005	-11.43	-	DWR	Unknown	-	---	-
MAY-01-2005	---	P	DWR	Unknown	-	---	-
JUN-01-2005	-11.14	-	DWR	Unknown	-	---	-
AUG-12-2005	---	P	DWR	Unknown	-	---	-
OCT-25-2005	-12.08	-	DWR	Unknown	14.38	0.00	-
JAN-12-2006	-11.85	-	DWR	Unknown	15	0.85	-
APR-28-2006	-12.3	-	DWR	Unknown	14.6	0.00	-

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OCT-24-2006	-12.5	-	DWR	Unknown -	14.8	---	crc
JAN-04-2007	-12.26	-	DWR	Unknown -	17	2.44	-
APR-02-2007	-11.68	-	DWR	Unknown -	15	1.02	-
OCT-04-2007	-9.36	-	DWR	Unknown -	15	3.34	-
JAN-25-2008	-9.01	-	DWR	Unknown -	15	3.69	-
APR-15-2008	-8.63	-	DWR	Unknown -	15	4.07	-
OCT-29-2008	-7.08	-	DWR	Unknown -	13	3.62	-
JAN-22-2009	-7.69	-	DWR	Unknown -	14	4.01	-
JUN-02-2009	-6.33	-	DWR	Unknown -	11	2.37	-
NOV-03-2009	-7.17	-	DWR	Unknown -	10	0.53	-
DEC-31-2009	-7.41	-	DWR	Unknown -	11	1.29	-
APR-12-2010	-7.18	-	DWR	Unknown -	11	1.52	ekf
OCT-19-2010	-8.92	-	DWR	Unknown -	14	2.78	ekf
JAN-05-2011	-8.65	-	DWR	Unknown -	13	2.05	ekf
APR-14-2011	-8.8	-	DWR	Unknown -	12	0.90	ekf
NOV-17-2011	-11.86	-	DWR	Unknown -	17	2.84	ekf
MAR-05-2012	-11.29	-	DWR	Unknown -	15	1.41	pd
APR-19-2012	-10.65	-	DWR	Unknown -	15	2.05	EKF
OCT-15-2012	-12.9	-	DWR	Unknown -	16	0.80	EKF
JAN-17-2013	-12.59	-	DWR	Unknown -	19	4.11	crc
APR-22-2013	-9.94	-	DWR	Unknown -	16	3.76	al
OCT-09-2013	-10.8	-	DWR	Unknown -	14	0.90	EKF
MAY-01-2014	---	-	DWR	Unknown -	-	---	mjm
JAN-05-2015	-10.49	-	DWR	Unknown -	16	3.21	MJM
OCT-15-2015	-9.99	-	DWR	Unknown -	15	2.71	MJM
APR-14-2016	-10.57	-	DWR	Unknown -	16	3.13	MJM
OCT-19-2016	-14.13	-	DWR	Unknown -	20	3.57	MJM
DEC-30-2016	-10.54	-	DWR	Unknown -	18	5.16	TJS
APR-19-2017	-10.12	-	DWR	Unknown -	13	0.58	TJS

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DRILLER'S TEST LOG

Customer Name: Barton County Feeders Date: 6/29/2017
 Address _____ Test No: #1-17
 County: Barton Quarter: NE Section: 20 Township: 20 Range: 11

Total Footage		Description of Strata	Indicate Test Location by an X			
From	To					
0	3	Top soil				
3	11	Soft sandy clay			X	
11	15	Soft sandy clay w/ small, med gravel				
15	25	Sand & gravel- small med coarse				
		clean loose				
25	33	Tan clay				
33	40	Sand & gravel- small med coarse				
		w/ small clay streaks				
40	70	Sand & gravel- med clean coarse loose				

Static Water Level: 12 Ft
 Remarks: Set 70 ft of 5" pipe for supply well

Garmin GPS- Nad 83
 Latitude: 38.3022 N
 Longitude: 98.5618 W
 Elevation: _____

Driller: Luis Luna
 Spot Location: SW/ NW/ NE

ROSENCRANTZ-BEMIS EQUIPMENT CO., INC
 Telephone (620) 792-2488 or (620) 793-5512
 P.O. Box 713, Great Bend, KS 67530

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 KS DEPT OF AGRICULTURE



1000 Corey Road
 P.O. Box 886
 Hutchinson, KS 67504-0886
 620-665-5661
 FAX: 620-665-0559
 TOLL FREE: 877-484-0623
 www.sdklabs.com

Sample # 3228.17
 Sample: Water
 Other ID: Well Sampled by L.L. Barton Co Feeders Test #1

Date Received: 06/30/2017
 Date/Time Sampled: 6/29/2017 15:00:00
 Date Reported: 07/06/2017
 Total Fee: \$35.00

ROSENCRANTZ-BEMIS DRILLING
 1105 281 BYPASS
 P.O. BOX 713
 GREAT BEND, KS 67530

ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++pH - SM 4500-H+ B	7.38	S. U.	6/30/2017 10:35	SE
++Chloride - SM 4500-Cl B	210.00	mg/L	7/5/2017 11:00	SE
++Total Hardness - SM 2340B	323	mg/L		
++Nitrate-Nitrogen - SM 4500-NO3 D	13.80	mg/L	6/30/2017 16:00	SE
++Calcium - SM 3111B	109.00	mg/L	7/3/2017 09:30	AB
++Magnesium - SM 3111B	12.30	mg/L	7/3/2017 09:30	AB
++Sodium - SM 3111B	109.00	mg/L	7/3/2017 09:30	AB
++Sulfate - SM 4500 SO4 E	44.40	mg/L	6/30/2017 14:00	SE
++Iron - SM 3120B	3.73	mg/L	7/6/2017 11:00	JC
++Manganese - SM 3120B	0.096	mg/L	7/6/2017 11:00	JC
++Electrical Conductivity - SM 2510B	1270	umhos/cm	6/30/2017 15:30	SE
TDS-Total Dissolved Solids - Calculated	901	mg/L		

***Sample receipt temperature = 24.7 degrees C.

***Sample beyond hold time for pH.

*Analysis was subcontracted to another laboratory for state compliance - see attached.

++Denotes NELAP/KDHE Accredited Method. Lab Certificate #E-10182. Results meet all requirements of NELAC unless noted.

Methods of analysis per EPA-600 or EPA SW-846, 3rd Ed., 1989 or Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1982.

Approved By:

M. Hogan
 _____ Officer
 Matt Hogan

WATER RESOURCES
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KS DEPT OF AG





1000 Corey Road
 P.O. Box 886
 Hutchinson, KS 67504-0886
 620-665-5661
 FAX: 620-665-0559
 TOLL FREE: 877-464-0623
 www.sdklabs.com

Sample # 3229.17
 Sample: Water
 Other ID: Well Sampled by L.L. Barton Co Feeders Test #2

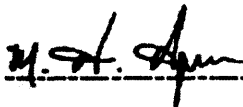
Date Received: 06/30/2017
 Date/Time Sampled: 6/29/2017 15:15:00
 Date Reported: 07/06/2017
 Total Fee: \$35.00


ROSECRANTZ-BEMIS DRILLING
 1105 281 BYPASS
 P.O. BOX 713
 GREAT BEND, KS 67530

ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++pH - SM 4500-H+ B	7.32	s.u.	6/30/2017 10:38	SE
++Chloride - SM 4500-Cl B	215.00	mg/L	7/5/2017 11:00	SE
++Total Hardness - SM 2340B	367	mg/L		
++Nitrate-Nitrogen - SM 4500-NO3 D	13.90	mg/L	6/30/2017 16:00	SE
++Calcium - SM 3111B	127.00	mg/L	7/3/2017 09:30	AB
++Magnesium - SM 3111B	12.00	mg/L	7/3/2017 09:30	AB
++Sodium - SM 3111B	105.00	mg/L	7/3/2017 09:30	AB
++Sulfate - SM 4500 SO4 E	33.80	mg/L	6/30/2017 14:00	SE
++Iron - SM 3120B	Less than 0.01	mg/L	7/6/2017 11:00	JC
++Manganese - SM 3120B	Less than 0.01	mg/L	7/6/2017 11:00	JC
++Electrical Conductivity - SM 2510B	1270	umhos/cm	6/30/2017 15:30	SE
TDS-Total Dissolved Solids - Calculated	901	mg/L		

**Sample receipt temperature = 24.1 degrees C.
 **Sample beyond hold time for pH.
 *Analysis was subcontracted to another laboratory for state compliance - see attached.
 --Denotes NELAP/DHE Accredited Method. Lab Certificate #E-10192. Results meet all requirements of NELAC unless noted.
 Methods of analysis per EPA-800 or EPA 8W-840, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Approved By:  Officer
 Matt Hogan

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1700 E. IRON AVE. ▪ SALINA, KS 67401
T 785.823.0097 F 913.273.1493



1303 YUCCA ST. ▪ SCOTT CITY, KS 67871
WWW.KLAENVIRO.COM

August 11, 2017

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

Subject: Change Application Pertaining to File No. 37,458, Barton County Feeders, Inc.

Dear Mr. Barfield:

The subject application and supporting documentation are submitted for your review and approval on behalf of the applicant, Barton County Feeders, Inc. KLA Environmental Services, Inc. assisted with the preparation of this application.

Barton County Feeders, Inc. recently completed an expansion of their cattle feeding facility. The permitted capacity of the facility increased from 20,000 head to 30,000 head of beef cattle. The average annual head count is expected to be 29,000. Additional water is needed to support the increased capacity. This change application proposes to increase the quantity of water available for livestock consumption by converting a portion of the authorized quantity associated with File No. 37,458 from irrigation use to stockwatering use. An additional well located within the cattle feeding facility is proposed. This well will be configured to supply only the stockwater portion of File No. 37,458. The place of use for this well is limited to the cattle feeding facility.

File No. 37,458 is currently authorized for irrigation use. The current authorized quantity is 197 acre-feet (AF) per year and the current authorized rate is 800 gallons per minute (gpm). We determined the consumptive use quantity associated with this water right by applying the 14.4% factor for Barton County as shown on the "Irrigation Return-Flow Percentages in Kansas, by County" map that was recently made available by DWR. The resulting consumptive use quantity is 168.6 AF. We request that this procedure be considered according to the provisions of K.A.R. 5-5-9 (b).

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Barton County Feeders, Inc. currently has a total of 278.3 AF to support the cattle feeding operation. This includes stockwatering rights and an industrial right of 14.9 AF that supplies the feed mill. A total quantity of 327.0 AF is desired to support the expansion, which implies a need for an additional stockwatering quantity of 48.7 AF. This total annual quantity equates to a unit consumption rate of approximately 10 gallons per head per day based on an average annual capacity of 29,000 head of beef cattle. This unit rate of consumption is less than the maximum quantity of 15 gallons per head per day listed in K.A.R. 5-3-22. The proposed additional quantity of stockwater is therefore considered to be reasonable.

The change application proposes a partial change in the use made of water from irrigation to 48.7 AF of stockwater. This represents 29% of the consumptive use quantity of 168.6 AF. The percentage remaining for irrigation is therefore 71%. The methodology outlined in K.A.R. 5-5-10 (d) (2) and (3) was applied to calculate the quantity remaining for irrigation of 139.9 AF.

The calculations pertaining to reasonable stockwater use, determination of consumptive use, and quantity remaining for irrigation are enclosed herein. If necessary, we request a waiver of any portion of K.A.R. 5-5-9 and 5-5-10 that may not be sufficiently satisfied by this documentation.

The place of use associated with File No. 37,458 is included in the Nutrient Management Plan (NMP) implemented by Barton County Feeders, Inc. Wastewater (effluent) from the cattle feeding facility is applied through center pivot irrigation systems onto the two fields comprising the place of use. These fields are also irrigated with groundwater authorized by File No. 37,458. Groundwater irrigation is a vital component of the NMP as it provides an additional source of water to support levels of crop production that are sufficient to utilize the nutrients supplied by wastewater. Wastewater application has been temporarily suspended on the NE ¼ of Section 17 T20S R11W until nutrient levels can be reduced to acceptable levels. Continued irrigation with groundwater is needed to resolve this situation. A reduction of the current authorized place of use would have an adverse impact on the NMP and may result in noncompliance with the terms of the facility environmental permit, which is administered by the Kansas Department of Health and Environment. We therefore request a waiver of K.A.R. 5-5-10 (b) so that the current authorized place of use of 261 acres can be retained. We have included calculations that document the average annual quantity of wastewater application. This quantity, when combined with the proposed irrigation quantity of 139.9 AF, represents 93.5% of the current authorized quantity of 197 AF. There will be no increase in consumptive use due to this change. Also, the recent expansion of the facility will produce an increased quantity of wastewater, which will offset the reduction of groundwater quantity available for irrigation.

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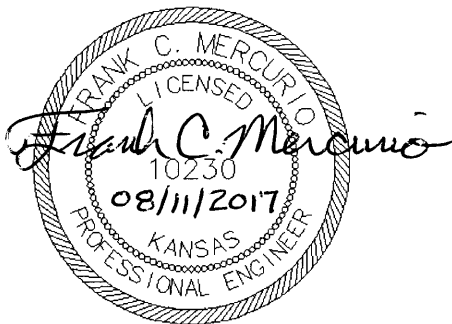
A flow rate test was conducted on the existing battery of wells on July 26, 2017 by the Stafford Field Office. The test rate was 794.6 gpm. Allowing for the accuracy of the test equipment, a rate of 800 gpm was recommended. This rate is equal to the authorized rate of 800 gpm. We propose to assign 725 gpm to the existing battery of wells and 75 gpm to the additional well that will be used for stockwatering purposes. Calculations showing the sufficiency of these rates to reasonably supply the requested quantities are enclosed. The information required by K.A.R. 5-5-16 (b) is also enclosed herein.

There are no wells within 1,320 feet of the geographical center of the existing battery of wells. There are no non-owned wells within 1,320 feet of the proposed additional well. There are four wells within 1,320 feet of the proposed additional well that are owned by the applicant. These wells relate to File Nos. 16,878.02, 16,878.03, 18,686.05 and 41,588. Each of these wells provides water to the cattle feeding facility. Two of the wells are designated as standby wells. None of these wells has an authorized rate in excess of 75 gpm. It is unlikely that any impairment will result from approval of the proposed additional well. If impairment does result, it will only impact the applicant. We therefore request a waiver of the applicable provisions of K.A.R. 5-4-4, 5-5-16 and 5-25-2 as they relate to spacing between existing wells of earlier priority and the proposed additional well.

The WIMAS and Water Well Completion Records (WWC5) databases operated by the Kansas Geological Survey were reviewed to locate neighboring wells. Based upon this review, it was determined that all wells within 1/2 mile of the proposed additional well are owned by Barton County Feeders, Inc. Please refer to the enclosed maps for the locations of all wells pertaining to this application.

Please contact me if you have any questions concerning this application. Thank you for your consideration of this matter.

Respectfully,



Frank C. Mercurio, P.E.

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Enclosures

cc/enc: Alan Pohlman, Barton County Feeders, Inc.

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T 785.823.0097 F 913.273.1493



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WWW.KLAENVIRO.COM

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

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

Jackie McClaskey, Secretary

Governor Sam Brownback

BARTON COUNTY FEEDERS INC
1164 SE 40 ROAD
ELLINWOOD, KS 67526

8/25/2017

FILE COPY

RE: File No 37458

Dear Sir or Madam:

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

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

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore, to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. You will be contacted regarding this application as soon as it has been examined.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water prior to approval of the application is unlawful. You should not proceed and divert water as indicated by your plans in your application for a change for this file until you receive approval for this change from the Chief Engineer. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

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

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

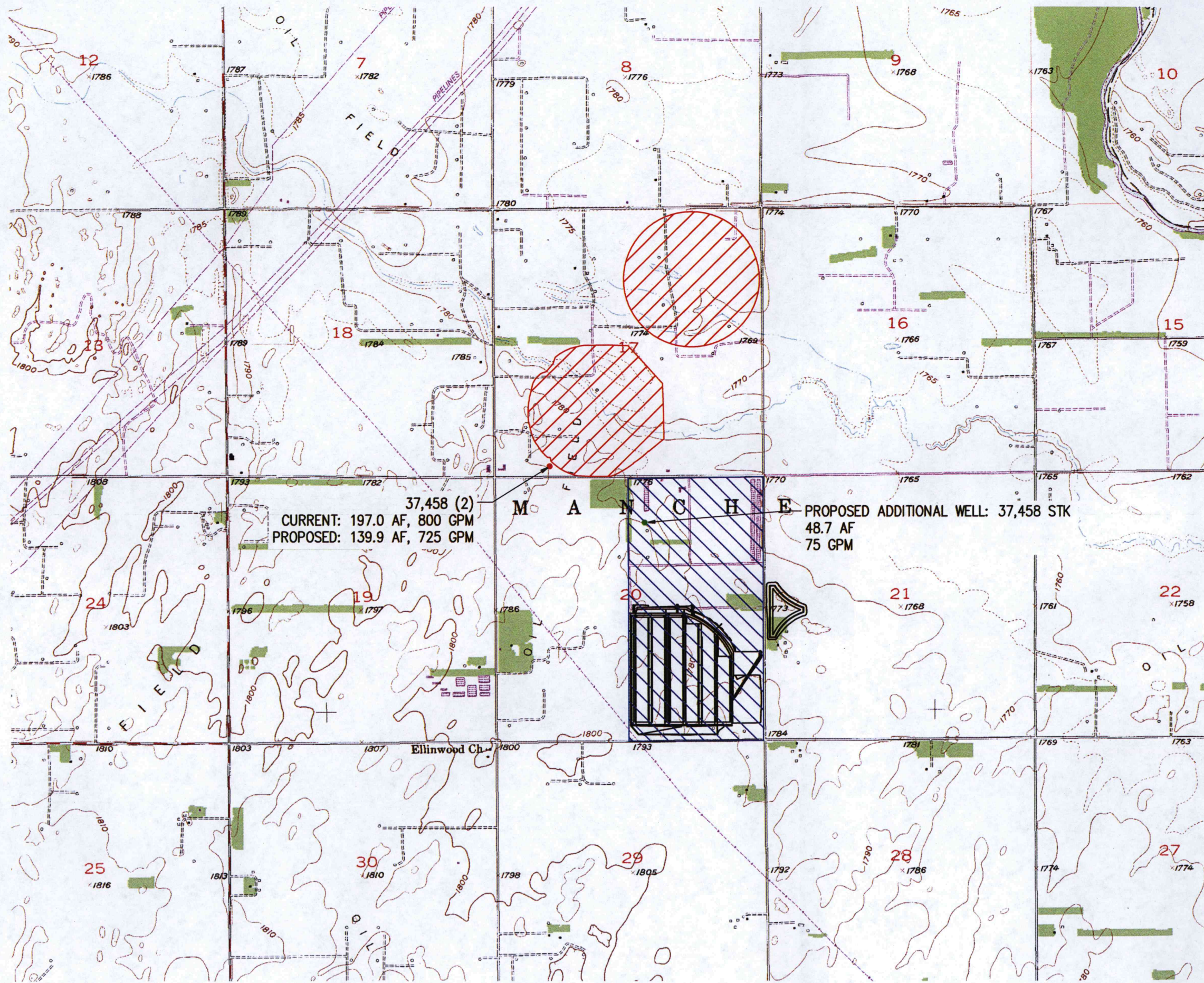
A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.

If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

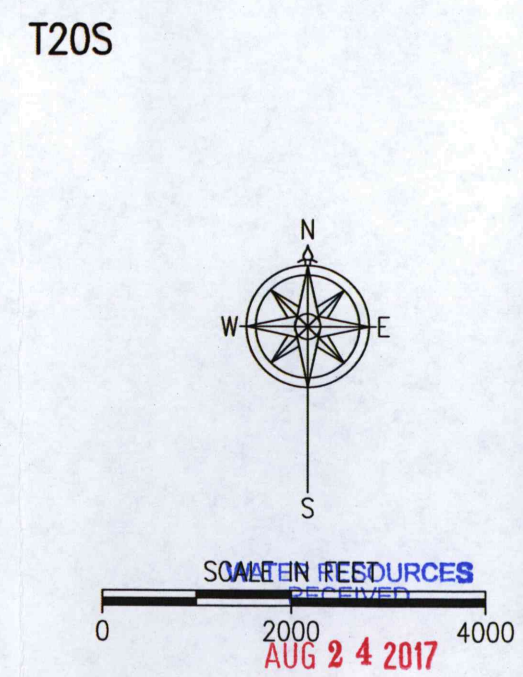
Sincerely,

Brent Tourney, L.G.
Change Applications Unit Supervisor
Water Appropriation Program

BAT: DLW
pc: STAFFORD Field Office GMD5



- LEGEND**
- POINT OF DIVERSION (IRR)
 - POINT OF DIVERSION (ADDITIONAL WELL-STK)
 - ▨ PLACE OF USE - IRRIGATION (CURRENT AND PROPOSED)
 - ▨ PLACE OF USE - STOCKWATER (PROPOSED)



DRAWN	DLB	DATE	7/17
CHECKED	FCM	DATE	7/17
APPROVED	FCM	DATE	7/17

BARTON COUNTY FEEDERS, INC
 WATER RIGHT CHANGE APPLICATION
 NE 1/4 SECTION 20 T20S R11W
 BARTON COUNTY, KANSAS

1700 E. IRON
 SALINA, KANSAS 67401
 (785) 823-0097

1303 YUCCA STREET
 SCOTT CITY, KANSAS 67871
 (620) 872-2300

KLA
 ENVIRONMENTAL
 SERVICES, INC.

CAD FILE NAME:
 WATER RIGHTS MAP-2017.DWG
 SHEET NO. 2 OF 2

R11W

FILE NO. 37,458 PLACE OF USE



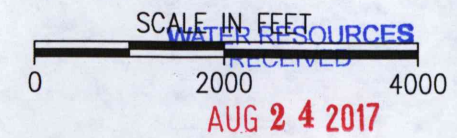
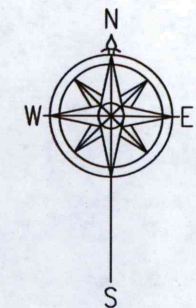
37,458 (2)
 CURRENT: 197.0 AF, 800 GPM
 PROPOSED: 139.9 AF, 725 GPM

PROPOSED ADDITIONAL WELL: 37,458 STK
 48.7 AF
 75 GPM

LEGEND

- POINT OF DIVERSION (IRR)
- POINT OF DIVERSION (ADDITIONAL WELL-STK)
- ▨ PLACE OF USE - IRRIGATION (CURRENT AND PROPOSED)
- ▨ PLACE OF USE - STOCKWATER (PROPOSED)

T20S



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DRAWN	DLB	DATE	7/17
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BARTON COUNTY FEEDERS, INC
 WATER RIGHT CHANGE APPLICATION
 NE 1/4 SECTION 20 T20S R11W
 BARTON COUNTY, KANSAS

1700 E. IRON
 SALINA, KANSAS 67401
 (785) 823-0097
 1303 YUCCA STREET
 SCOTT CITY, KANSAS 67871
 (620) 872-2300

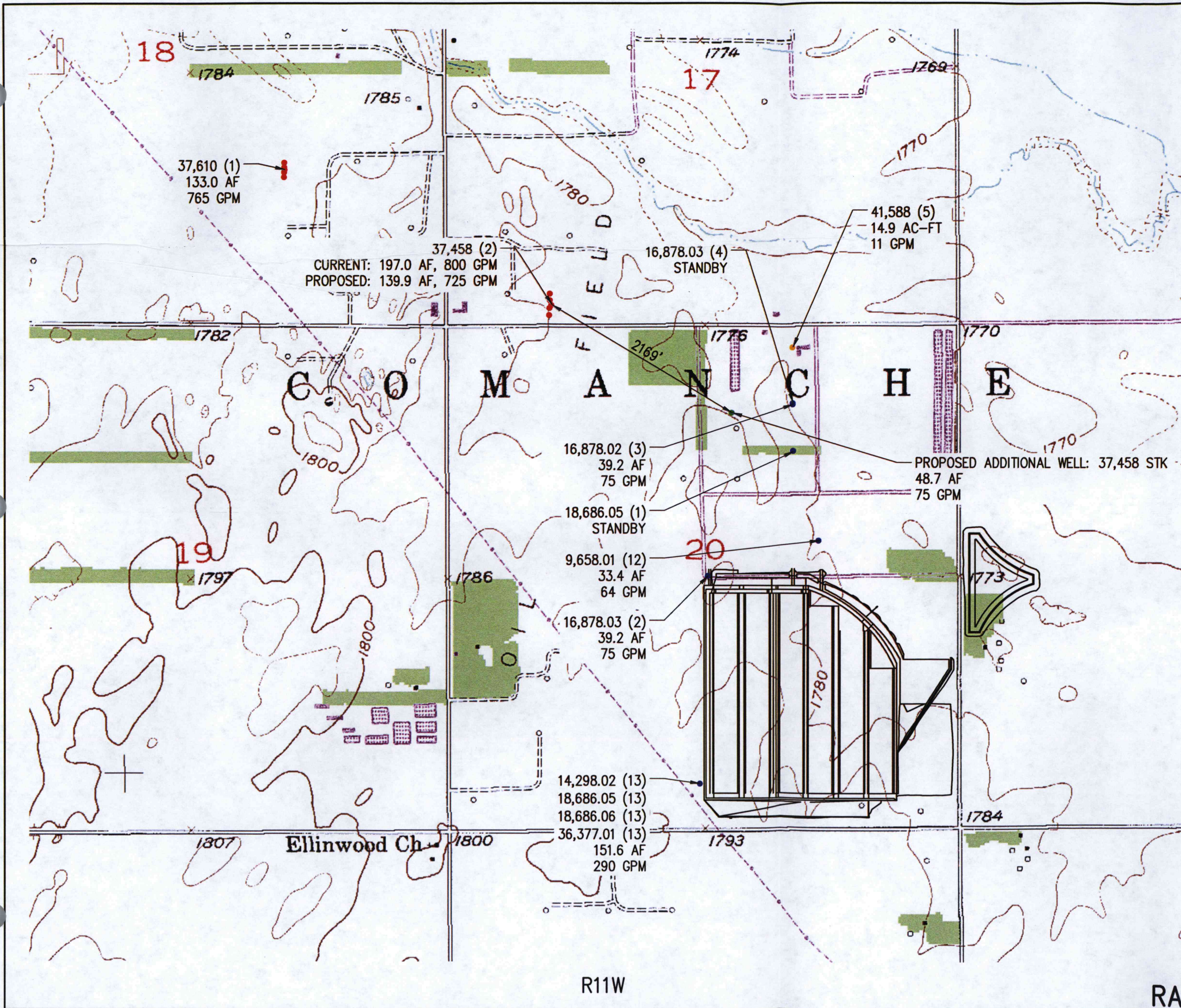


CAD FILE NAME:
 WATER RIGHTS MAP-2017.DWG

SHEET NO. 1 OF 2

R11W

FILE NO. 37,458 PLACE OF USE



LEGEND

- POINT OF DIVERSION (STK)
- POINT OF DIVERSION (IRR)
- POINT OF DIVERSION (IND)
- POINT OF DIVERSION (ADDITIONAL WELL-STK)

DRAWN	DLB	DATE
CHECKED	FCM	DATE
APPROVED	FCM	DATE
		7/17
		7/17
		7/17

BARTON COUNTY FEEDERS, INC
 WATER RIGHT CHANGE APPLICATION
 NE 1/4 SECTION 20 T20S R11W
 BARTON COUNTY, KANSAS

T20S



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RATE & QUANTITY MAP

1700 E. IRON
 SALINA, KANSAS 67401
 (785) 823-0087

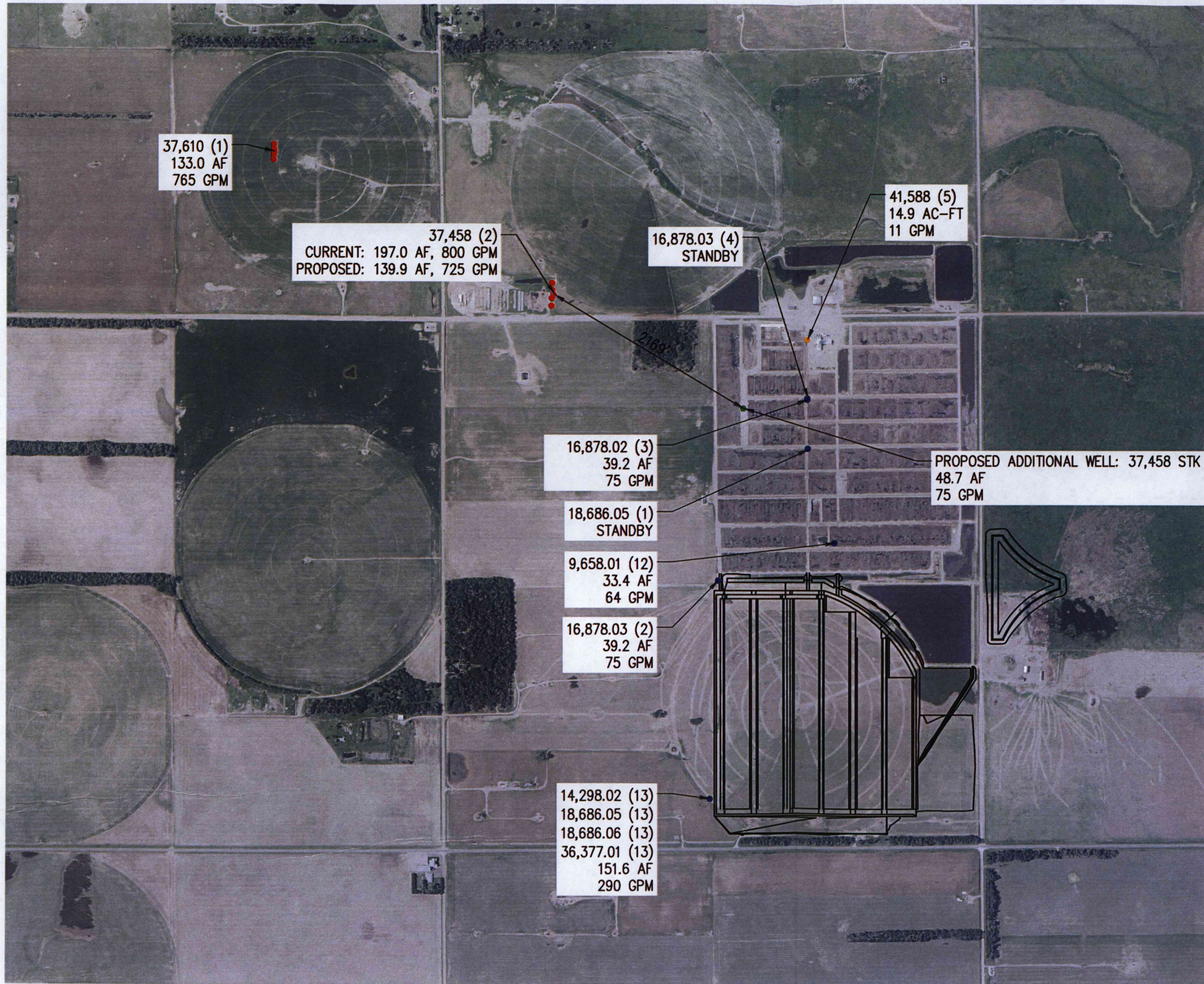
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 SCOTT CITY, KANSAS 67871
 (620) 872-2300



CAD FILE NAME:
 WATER RIGHTS MAP-2017.DWG

R11W

Ellinwood Ch



37,610 (1)
133.0 AF
765 GPM

37,458 (2)
CURRENT: 197.0 AF, 800 GPM
PROPOSED: 139.9 AF, 725 GPM

16,878.03 (4)
STANDBY

41,588 (5)
14.9 AC-FT
11 GPM

16,878.02 (3)
39.2 AF
75 GPM

PROPOSED ADDITIONAL WELL: 37,458 STK
48.7 AF
75 GPM

18,686.05 (1)
STANDBY

9,658.01 (12)
33.4 AF
64 GPM

16,878.03 (2)
39.2 AF
75 GPM

14,298.02 (13)
18,686.05 (13)
18,686.06 (13)
36,377.01 (13)
151.6 AF
290 GPM

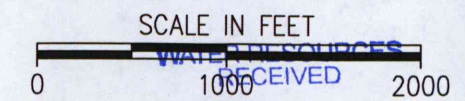
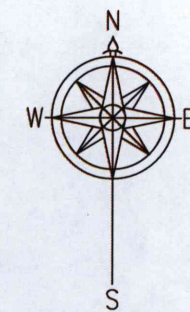
LEGEND

- POINT OF DIVERSION (STK)
- POINT OF DIVERSION (IRR)
- POINT OF DIVERSION (IND)
- POINT OF DIVERSION (ADDITIONAL WELL-STK)

DRAWN	DLB	DATE	7/17
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APPROVED	FCM	DATE	7/17

BARTON COUNTY FEEDERS, INC
WATER RIGHT CHANGE APPLICATION
NE 1/4 SECTION 20 T20S R11W
BARTON COUNTY, KANSAS

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AUG 24 2017

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RATE & QUANTITY MAP

R11W

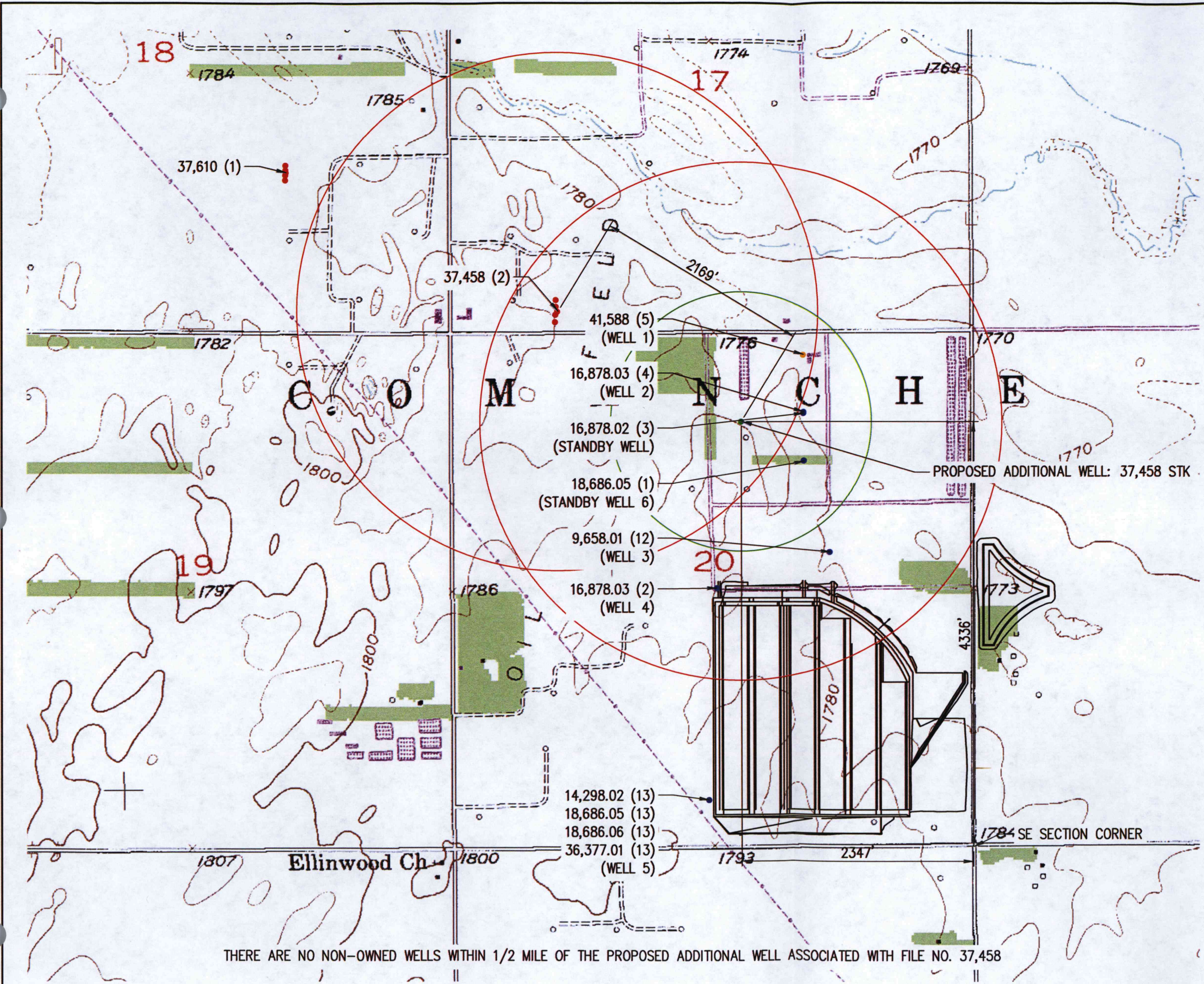
1700 E. IRON
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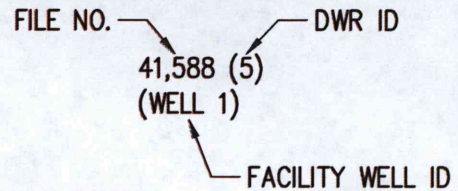
SHEET NO. 1 OF 2



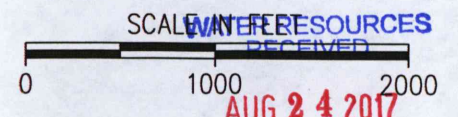
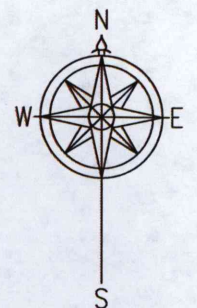
THERE ARE NO NON-OWNED WELLS WITHIN 1/2 MILE OF THE PROPOSED ADDITIONAL WELL ASSOCIATED WITH FILE NO. 37,458

LEGEND

- POINT OF DIVERSION (STK)
- POINT OF DIVERSION (IRR)
- POINT OF DIVERSION (IND)
- POINT OF DIVERSION (ADDITIONAL WELL-STK)
- BOUNDARY OF 1/2 MILE SPACING AROUND FILE NO. 37,458 (2) AND AROUND PROPOSED ADDITIONAL WELL
- BOUNDARY OF 1,320-FOOT SPACING AROUND PROPOSED ADDITIONAL WELL



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WELL LOCATIONS

DRAWN	DLB	DATE	7/17
CHECKED	FCM	DATE	7/17
APPROVED	FCM	DATE	7/17

BARTON COUNTY FEEDERS, INC
 WATER RIGHT CHANGE APPLICATION
 NE 1/4 SECTION 20 T20S R11W
 BARTON COUNTY, KANSAS

1700 E. IRON
 SALINA, KANSAS 67401
 (785) 823-0097

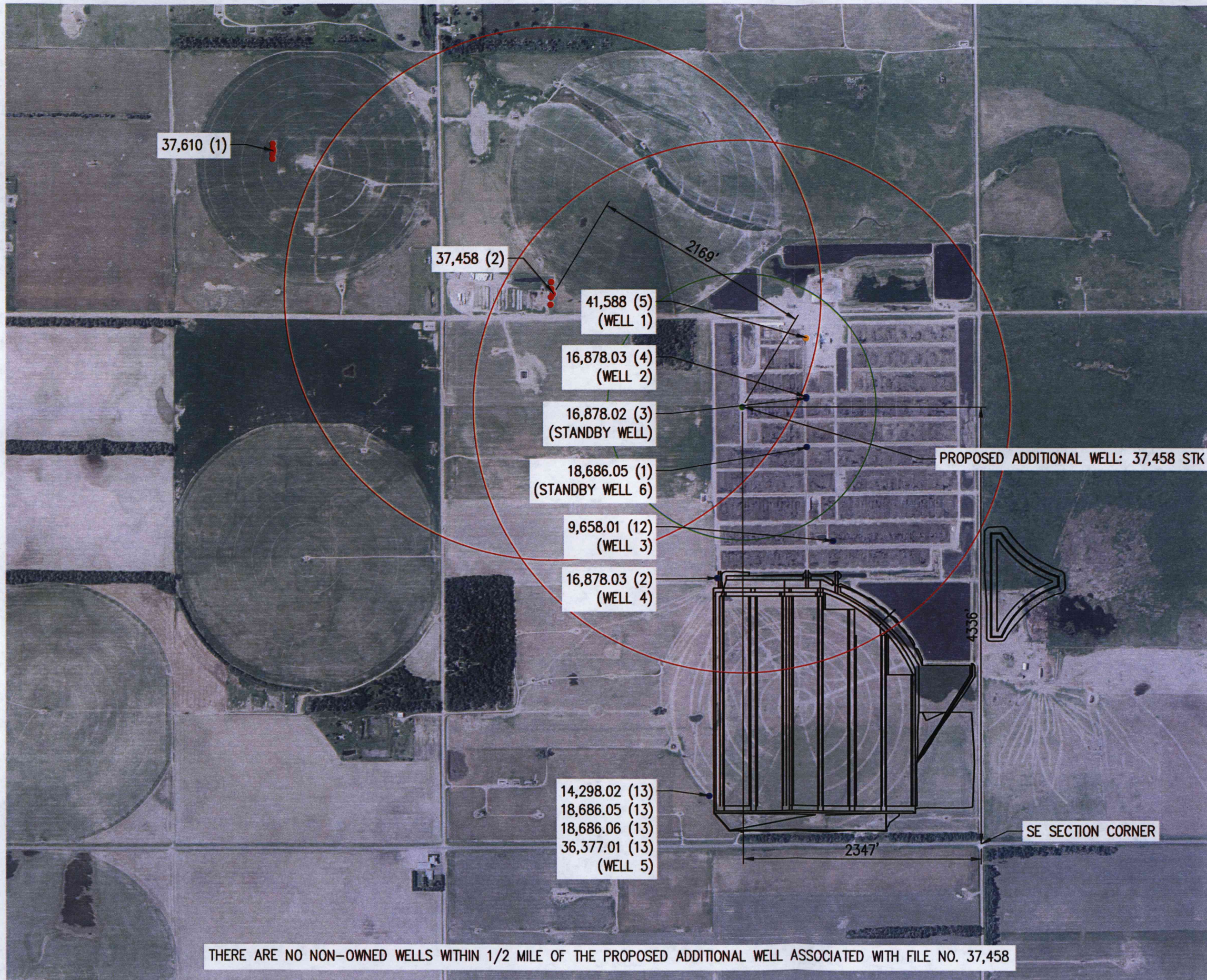
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 (620) 872-2300



CAD FILE NAME:
 WATER RIGHTS MAP-2017.DWG

SHEET NO. 2 OF 2

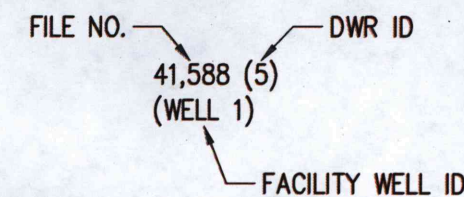
R11W



THERE ARE NO NON-OWNED WELLS WITHIN 1/2 MILE OF THE PROPOSED ADDITIONAL WELL ASSOCIATED WITH FILE NO. 37,458

LEGEND

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- POINT OF DIVERSION (IRR)
- POINT OF DIVERSION (IND)
- POINT OF DIVERSION (ADDITIONAL WELL-STK)
- BOUNDARY OF 1/2 MILE SPACING AROUND FILE NO. 37,458 (2) AND AROUND PROPOSED ADDITIONAL WELL
- BOUNDARY OF 1,320-FOOT SPACING AROUND PROPOSED ADDITIONAL WELL



T20S



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WELL LOCATIONS

DRAWN	DLB	DATE	CHECKED	FCM	DATE	APPROVED	FCM	DATE
		7/17			7/17			7/17

BARTON COUNTY FEEDERS, INC
 WATER RIGHT CHANGE APPLICATION
 NE 1/4 SECTION 20 T20S R11W
 BARTON COUNTY, KANSAS

1700 E. IRON
 SALINA, KANSAS 67401
 (785) 823-0087
 1303 YUCCA STREET
 SCOTT CITY, KANSAS 67871
 (620) 872-2300



CAD FILE NAME:
 WATER RIGHTS MAP-2017.DWG

SHEET NO. 1 OF 2

R11W