## **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



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 ma (Check one or more)	•	Place of Use Point of Diversion Use Made of Water	WATER RESOURCES RECEIVED  AUG 2 4 2017  AUG 2 4 2017  KS DEPT OF AGRICULTURE					
			File No. <u>37,458</u>						
2.	Name of applicant: Barto	on C	ounty Feeders, Inc.						
	Address: <u>1164 SE 40 R</u>	oad							
	City, State and Zip: Elling	WOO	d, KS 67526						
	Phone Number: (620) 56	64-2°	200 E-mail address: alan.pol	hlman@ilsbeef.com					
	What is your relationship to the water right; ■ owner □ tenant □ agent □ other? If other, please explain								
	Name of water use corre	espor	ndent: Barton County Feeders, Inc.						
	Address: <u>1164 SE 40 R</u>	.oad							
	City, State and Zip: Elling	WOO!	d, KS 67526						
	Phone Number: (620) 56	64-2	200 E-mail address: alan.pol	hlman@ilsbeef.com					
3.			ein are desired for the following reasons (please b gation to stockwater and install an additional we						
	our beef cattle feeding	facili	ty. The additional water quantity is needed to s	support an expansion of the facility that					
	was completed in 2016.		O. d. b. v. 4. 0047						
	The change(s) (was) (wil	ll be)	completed by October 1, 2017.	(Date)					
F.C	or Office Use Only:  O GMD Meets  ode (~)	<b>K.A</b> .	.R. 5-5-1 (XES / NO) UseSource @/ S Fee \$ Receip	County $\frac{87}{8 \cdot 24 \cdot 17}$ By $\frac{8}{8}$ Date $\frac{8 \cdot 24 \cdot 17}{83}$					

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

4.	. The	e prese	ently au	ıthoriz	ed pla	ce of ı	use is:										File N	o. <u>37,</u>	458	
		Owne	er of La									KS 67	'526			···· - ·· - ··				
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	Sec.	Twp.	Range	NE¼	NW¼	l	SE¼	NE¼	I	SW¼	SE¼	NE¼	1	SW¼	SE¼	NE¼			SE¼	ACRES
	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
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STK -																				
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		Owne	er of La	nd —	NAM	E:														
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_																				

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECHES SAR 2017

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

WATER RESOURCES RECEIVED

## 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.

WATER RESOURCES RECEIVED

					File No. 37,45	8
_			a hattery of 4 well	e with numne an		
6.	The presently authorized po	oint(s) of diversion (is) (are)	a battery of 4 Well	(Provide description and	number of points)	·
7.	The proposed point(s) of div	version (is) ( <u>are)</u> a battery of	4 wells and 1 add		pumps and app	urtenances
	List all massauthy systhesis	ed point(s) of diversion: S	oo attaahmant far	•		
г			ee attacriment for	description of ba	attery of 4 wells.	
8.	Presently authorized poin		CM		CVA/	_
	One in the SE	Quarter of the	500	_ Quarter of the <sub>:</sub>	5VV	Quarter
	of Section 1/	, Township <u>20</u>		_ South, Range <sub>-</sub>	1100	(E/W),
	<sub>in</sub> Barton	, Township 20 County, Kansas, 200	feet North <u>421</u>	2 feet West	of Southeast cor	mer of section.
	Authorized Rate 800 gpm	Authorized Quantity	197 acre-feet			
	(DWR use only: Compute	er ID No. <u>2</u> GF	PS	feet North	feet '	West)
	☐ This point will not be c	hanged 🔳 This point wil	I be changed as f	ollows:		
	Proposed point of diversi	on: (Complete only if chan	ae is requested)			
	One in the SE	Quarter of the, Township _ 20, County, Kansas, _ 200	SW	Quarter of the	SW	Quarter
	of Section 17	Township 20		South Range	11W	(F/W)
	in Barton	County Kansas 200	feet North 421	oodiii, raingo _ 2	of Southeast cor	mer of section
	Proposed Pate 725 gpm	Proposed Quantity _	139.9 acre-feet		or courredct cor	1101 01 0001.011.
		Well Geo Center List of		nat will use this n	oint none	
Ĺ	This point is.  Additional	Well Geo Certier List C	other water rights ti	iat will use tills po	Jiiit	·
ا ۵	Presently authorized poin	t of diversion:				
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		, Township				
ŀ		, rownship County, Kansas,				
		County, Ransas, Authorized Quantity			Of Southeast Col	riei oi section.
					foot l	Most)
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		er ID No GF			1661	West)
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	This point will not be concentration  Proposed point of diversion  One in the SW of Section 20 In Barton  Proposed Rate 75 gpm	hanged	l be changed as force is requested)  NW  feet North 234  48.7 acre-feet	ollows: _ Quarter of the <sub>_</sub> _ South, Range <sub>_</sub> 7 feet West	NE 11W of Southeast cor	Quarter
	This point will not be concentration of the Proposed point of diversion on the SW of Section 20 In Barton  Proposed Rate 75 gpm  This point is: Additional	hanged	l be changed as force is requested)  NW  feet North 234  48.7 acre-feet	ollows: _ Quarter of the <sub>_</sub> _ South, Range <sub>_</sub> 7 feet West	NE 11W of Southeast cor	Quarter
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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 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

<sup>\*</sup> From Southeast corner of section.

WATER RESOURCES RECEIVED

			File No. <u>37,458</u>
12	The pre	esently authorized use of water is for <u>irrigation</u> po	urposes.
12.	It is pro	posed that the use be changed toirrigation and stockwatering	purposes.
13.	If chang	ging the place of use and/or use made of water, describe how the consumptive to the attached consumptive use calculations. The total quantity requested	use will not be increased.
		nptive use quantity based on a partial change in use from irrigation to stock	
		on the "Irrigation Return-Flow Percentages in Kansas, by County" map issu	
		e a reduction of the quantity currently authorized for irrigation use. The met	
		mplies with the requirements of K.A.R. 5-5-9 (b) and 5-5-10.	inod of determining consumptive
		show any calculations here.)	
14.	It is req	uested that the maximum annual quantity of water be reduced to 188.6 acre-f	eet (acre-feet or million gallons).
15.	It is req	uested that the maximum rate of diversion of water be reduced to	gallons per minute ( c.f.s.).
16.	1:24,00 Kansas Distand should	plication must include either a topographic map or detailed plat. A U.S. Geolo 10, is available through the Kansas Geological Survey, 1930 Constant Avers 66047-3726 ( <a href="www.usgs.gov">www.usgs.gov</a> ). The map should show the location of the presess North and West of the Southeast corner of the section must be shown. It also be shown. Identify the center of the section, the section lines and the section, township, and range numbers on the map. In addition the following information.	nue, University of Kansas, Lawrence, sently authorized point(s) of diversion. The presently authorized place of use tion corners and show the appropriate
	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 must be shown. Please be certain that the information shown on the map Paragraph Nos. 9, 10 and 11 of the application.	
	2)	If the source of supply is groundwater, please show the location of existing domestic wells, within $\frac{1}{2}$ mile of the proposed well or wells. Identify each we mailing address of the property owner or owners. If there are no wells within $\frac{1}{2}$	ell as to its use and furnish name and
	3)	If the source of supply is surface water, the names and mailing addresses of and $\frac{1}{2}$ mile upstream from your property lines must be shown.	f all landowner(s) ½ mile downstream
		a change in the place of use is desired, show the proposed place of use by c tain that the information shown on the map agrees with the information shown i	
17.	local so well log made b		de statements, plats, geology reports, above. Additional comments may be
	Please	refer to the attached maps and supporting documentation. The proposed a	additional well is less than
	2,640 f	eet from the currently authorized point of diversion.	
18.	identify request will not	roposed change(s) does not meet all applicable rules and regulations of the Ka the rules and regulations for which you request a waiver. State the reason should be granted. Attach documentation showing that granting the request was prejudicially and unreasonably affect the public interest.	why a waiver is needed and why the vill not impair existing water rights and
	waiver	requests pertain to well spacing as it relates to applicable provisions of K.A.	A.R. 5-4-4, 5-5-16, and 5-25-2.
		s of K.A.R. 5-5-9 and 5-5-10 are requested if necessary for approval of the	

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

File No.	37,458	

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

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

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

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

attorney, or an executor, executing, conservatory, it will be necessary	ary to attach	i proper do	currients snot	wing such authority	/· 	
I declare that I am an owner of the currently authorized place authorized to make this application on their behalf, and decomplete. By filing this application I authorize the chief eng	eclare furthe	er that the	e statements	contained herei	n are true, co	rrect, and
as specified in sections 14 and 15 of this application.  Dated at Ellinwood		2+h	1 6	Augu	- A2.	(7
Dated at Ellinwood , Ka	ansas, this _	<u> </u>	day of		, 20_	<u> </u>
Ala Wallan						
(Owner)				(Spouse)		
Alan Pohlman					· · · · · · · · · · · · · · · · · · ·	
(Please Print)				(Please Print)		
(Owner)				(Spouse)		
(Please Print)				(Please Print)		
` '				,		
(Owner)			-	(Spouse)		
(Please Print)	•			(Please Print)		
State of Kansas)	State of Ka					
1) 1 (00	CHEI Commission Ex	RYL RA	15-18		١	
				hoforo mo this	8-th	day of
I hereby certify that the foregoing application was signed 20	a in my pr	resence a	ina swoiii ic	before the this	-	day of
$\triangle$			( M)	and R	000	
In 15.10	-			Notary)Public	446	<del></del>
My Commission Expires					•	
					· · · · · · · · · · · · · · · · · · ·	
<u>EE</u>	EE SCHEDU	<u>LE</u>				
Each application to change the place of use, the point of diversion application fee set forth in the schedule below:	n or the use	made of th	ne water unde	er this section shall	be accompanion	ed by the
<ul><li>(1) Application to change a point of diversion 300 feet or</li><li>(2) Application to change a point of diversion more than</li></ul>	r less				\$10	00
<ul> <li>(2) Application to change a point of diversion more than</li> <li>(3) Application to change the place of use</li></ul>						JU

Make check payable to Kansas Department of Agriculture.

AUG 2 4 2017

WATER RESOURCES

RECEIVED

#### KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: BARTON COUNTY FEEDERS, INC.

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

BY: <u>FCM</u> CHECKED BY: <u>DLB</u> DATE: 7/17/2017 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 = 
$$(197 \text{ AF}) - (197 \text{ AF} \times 14.4\%)$$
  
=  $(197 \text{ AF}) \times (1.00 - 0.144) = 168.6 \text{ AF}$ 

Proportion of partial use based on proposed change =  $\frac{48.7 \text{ AF}}{168.6 \text{ AF}}$  = 29%

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

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

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

Quantity

Facility Stockwater Summary:

LIIE	Quantity
No.	(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 ★ TRANSPORCES RECEIVED

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

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

Distribution of rate of diversion:

Total rate of diversion of existing battery of wells based on current flow test = 800 gpm

Rate of diversion requested for additional well for stockwatering use = 75 gpm

Difference = rate of diversion requested for existing battery of wells for irrigation use = 725 gpm

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

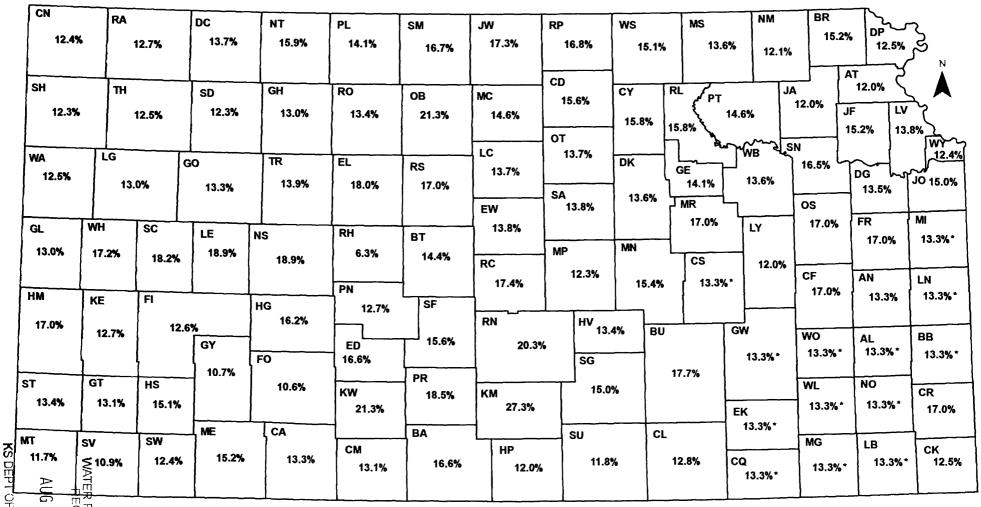
→ Assume minimum 90-day irrigation season:

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

> WATER RESOURCES RECEIVED

### Irrigation Return-Flow Percentages in Kansas, by County

#### based on area-weighted average irrigation return flow



Example: 19750 acre-foot irrigation water right is purchased in Gove (GO) County for use in a dairy operation. Applying the default factor from the map (13.3%), the amount of water that the dairy could annually divert with this water right is:

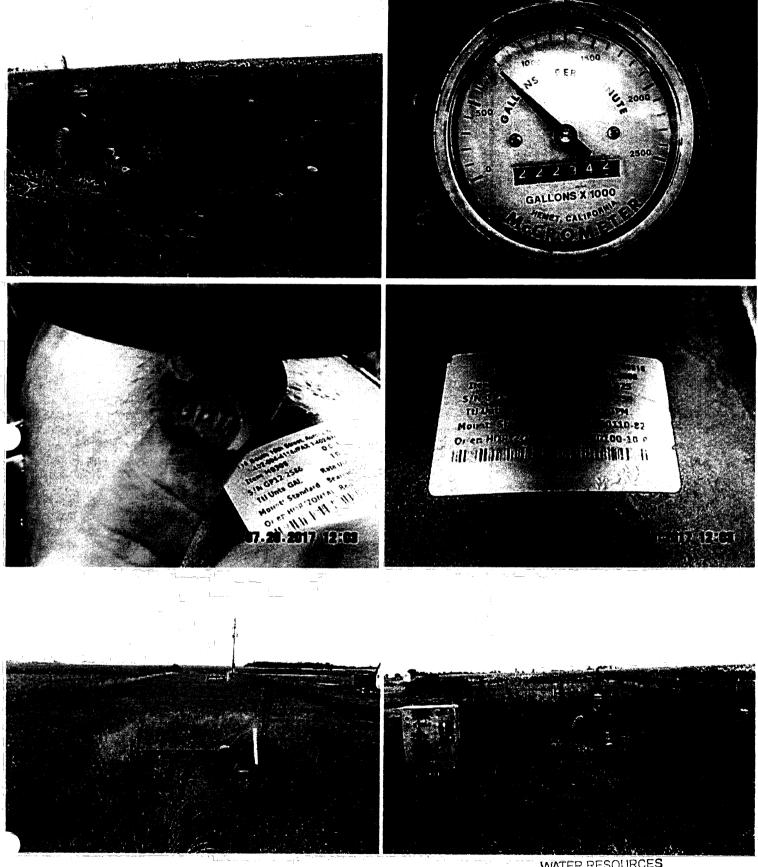
150 - (150 X 13.3%) = 150 X (1 - 0.133) = 130 acre-feet



Kansas Department of Agriculture Division of Water Resources February 16, 2016

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

FILE NO. <u>37,458</u>	Date: <u>7/26/17</u>	_ Tester: <u>Conan</u>	t		1	rested <u>1</u> of <u>1</u> installations
Point of Diversion: SE SW SW (a	authorized geo cei	nter)				Sec. <u>17</u> , T. <u>20S</u> , R. <u>11W</u>
Approximately 200 ft. No	orth and	_ ft. West of SE	corner of Se	ec <u>17</u> .		
How were distances determined	? WRIS (see attac	hments for new	GPS) La	atitude	L	ongitude
Person(s) present at the test: !				· · · · · · · · · · · · · · · · · · ·		-
TEST METER INFORMATION:						
Manufacturer Panametrics	N	lodel # <u>878</u>		Serial #	09641	
Test location had 78" of straight pip	e upstream of the tra	insducers to a 90 (	degree bend	(9.75 pipe diameter	rs)	
Test location had 17" of straight pipe	downstream to the pro	opeller on the meter	(2.1 pipe dia	meter)(>5 diameters	if prop is n	ot counted as obstruction)
NORMAL CONDITIONS:				MAXIMUM CONI	DITIONS	
R.P.M. POWER UNIT				R.P.M. POWER	<u> </u>	· · · · · · · · · · · · · · · · · · ·
R.P.M. PUMP UNIT				R.P.M. PUMP UN	≬ T <u></u>	
Pressure at Pump	p:	SI		Pressure at Pump	p <u></u>	psi
	Meter Type ultrasor	nic		Meter Serial No. (	09641	
Ending <u>5008.785</u>				Ending		gal.
Beginning 0	gal.	Meas. O.D. <u>8.64</u>				gal.
Difference <u>5008.785</u>			9	Difference		gal.
Time <u>376.8 = 6.28</u>						
Rate <u><b>797.6</b></u>	gpm.	Material Type C	<u>s</u>	Rate		gpm.
Diamagatica						
<u>Diagnostics:</u> Signal Strength SS up: <u>63.6</u>		SS dn: 63 5		(Charlel be aver ££ bishe	and an DMC	and do should be sless to the same)
SNDSP: <b>4821</b>	(Chauld be close to be	ob un. <u>00.0</u>	ad at many and to	_ (Should be over 55 highe	ist on PVC, up	F
Delta T ( <delta>):</delta>	Is this num	her stable? (Yes	/ No) If no r	olease explain:		<b> '</b>
T up: 318.7 T o						
Signal Quality: Q up 63.2	Qd	(100 100 miles in §	(Should	be + - 300 or greater)		
AMPup: <u>28.3</u>	AMPdn: 28.2	(Should	be 20 - 28 fluctua	ations)		
P#up: <u>510</u>	P#dn: 507	(100 to	900, closest to 50	00 is best)		
Nfup:						
☑ Installed Meter Test Manu	facturer MaCremet		Carial	# CD42 2596	Mod	al # MO209
		er	Senai	# GF 12-2566	WOU	ei # MO300
UPSTREAM: 93" from propeller t	to 90° bend in pipe					
DOWNSTREAM: 47" from prope	ller to 90° bend in p	ipe				
Outside Diameter (Sta	mped) <b>8.625</b>	inches	(Measured	8.64	inches	
Inside Diameter (Stam						
Ending <b>222,343,000</b>	nal			Ending		gal./AF
Beginning 222,338,000						gal./AF
Difference 5,000	gal.					gal./AF
Time 6:17.56 = 6.2927				Time		
Rate <b>794.6</b>	gpm.			Rate		WATER RESOURCES
% Error (	Calculation: <u>Test – I</u> Tes	Meter X 100	% error <u>0</u>	).38% low		AUG <b>2 4</b> 2017
	Ise Supplemental S		ter identifica	ation, data and cal	culations)	
	• •	•				
COMMENTS: The authorized ra	ate is 800gpm. The	e tested rate sho	ould be rou	nded to 800gpm	for the pt	irposes of using the test
to facilitate the additional well	change in point of	diversion. The	transduce	rs were rotated b	etween th	e first and second test.
The second test was 1.4% with	similarly good dia	gnostics. 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 hi	ghest current ra	te of the sy	stem in the midd	lle of irrig	ation season, so the first
test should be used.						
⊠ Cood Toot						
☐ Good Test☐ Adequate Test						
		, ,			0.1	
Daviswad by 11 2 :		2/2/17	Entered by	. Janharast	in Chan	11 Date Thinker
Reviewed by Affair		rate <u>//~*///</u>	⊏ntered by	- yessineenin	MXXXXX	Date 1/2011
DWR 1-310.1 (Revised 12/21/2009)		í		∜ '		



DWR 1-310.1 (Revised 12/21/2009)

Page 2

WATER RESOURCES
RECEIVED
File No. 37,458

INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	w
Target Point Coordinates (NA	(D27 or NAD83)
Target Longitude	-98.56803
Target Latitude	38.30545

- Enter values for section, township, range and range direction.
   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 (DR7 (north 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	s Longitude per Foot	3.48495929E-06							
Degrees	s Latitude per Foot	2.74594472E-06							
Targe	t Point Distances from C	orners 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 Coi	rner Latitudes	Corner Longitudes								
SW	38.30439800	-98.57165500								
NW	38.31895400	-98.57167100								
NE	38.31903100	-98.55331400								
SE	38.30444300	-98.55326800								
Degrees Lo	ngitude per Foot	3.48495870E-06								
Degrees Lat	titude per Foot	2.74598553E-06								
Target Poi	int Distances from C	orners using NAD27								
Corner Fee	et North(+)/South(-)	Feet East(-)/West(+)								
SW	383	-1040								
NW	-4918	-1045								
NE	-4946	4223								
SE	367	4236								

WATER RESOURCES RECEIVED

INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	W
Target Point Coordinates (NAD	27 or <i>NAD8</i> 3)
Target Longitude	-98.56803
Target Latitude	38.30524

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

Water Right, File No. 37,458 ID#3 (middle north well)
estimated accuracy-5.6\*

	Loaded Section	
	From LEOBASE usin	•
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
Tarast	Point Distances from C	ornore using NAD92
	Point Distances from C	•
	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	s Longitude per Foot	3.48495870E-06						
Degrees	s Latitude per Foot	2.74598553E-06						
Target	Point Distances from C	orners using NAD27						
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)						
SW	, 307	-1040						
NW	-4994	-1045						
NE	-5022	4223						
SE	290	4236						

WATER RESOURCES RECEIVED

INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	W
Target Point Coordinates (NAD	27 or <i>NAD83</i> )
Target Longitude	-98.56804
Target Latitude	38.30503

- 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 IDM (middle south well)

	Loaded Section From LEOBASE usin	
Corner	Corner Latitudes	
sw	38.30441020	-98.57201032
NW	38.31896604	-98.57202608
NE	38.31904316	-98.55366837
SE	38.30445512	-98.55362261
Degrees	s Longitude per Foot	3.48495929E-06
Degrees	s Latitude per Foot	2.74594472E-06
Target	t Point Distances from C	orners 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	ng 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
	Latitude per Foot	2.74598553E-06
	Point Distances from C	
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	230	-1037
NW	-5071	-1042
NE	-5099	4226
SE	214	4239

WATER RESOURCES RECEIVED

INPUTS	
Target Section Definition	
Section	17
Township	20
Range	11
Range Direction	W
Target Point Coordinates (NA	D27 or NAD83)
Target Longitude	-98.56805
Target Latitude	38.30482

- 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 | Flo No. 27 (58 IDE (south well)

	Loaded Section	Data
	From LEOBASE usi	ng <i>NAD83</i>
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	s Longitude per Foot	3.48495929E-06
Degrees	s Latitude per Foot	2.74594472E-06
Target	t Point Distances from C	orners using NAD83
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	149	-1136
NW	-5152	-1141
NE	-5180	4127
SE	133	4140

	<b>Loaded Section</b>	Data
Fror	n LEOBASE usii	ng <i>NAD27</i>
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 Longitu	ıde per Foot	3.48495870E-06
Degrees Latitud	e per Foot	2.74598553E-06
Target Point D	istances from C	orners using NAD27
Corner Feet No	rth(+)/South(-)	Feet East(-)/West(+)
SW	154	-1034
NW	-5147	-1039
NE	-5175	4228
SE	137	4242

WATER RESOURCES RECEIVED

#### KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: BARTON COUNTY FEEDERS, INC.

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

CHECKED BY: DLB BY: FCM

DATE: 7/17/2017 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:

		WASTEWATER APPLICATI	ON
YEAR	CIRCLE 2	CIRCLE 3	TOTAL
	S 1/2 17-20S-11W	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:

AF = Acre-Feet Proposed irrigation quantity for File No. 37,458 = 139.9 AF

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 127 acres in SW 1/4 & SE 1/4 Section 17 T20S R11W

261 acres total place of use

→ Current Unit Irrigation Rate = Current Authorized Quantity

$$=\frac{(197 \text{ AF})}{(261 \text{ Ac.})} = 0.75 \text{ Ft.}$$

→ Proposed Unit Irrigation Rate = Proposed Total Annual Quantity

WATER RESOURCES  $=\frac{(184.2 \text{ AF})}{(261 \text{ Ac.})} = 0.71 \text{ Ft.} = 94.7\% \text{ OF CURRENT UNIT RATE}$ AUG 2 4 2017

Maximum acres irrigated during perfection =

131 acres

(Information provided by Elizabeth Fitch, DWR, via

Base acres =

260 acres

phone on 07/19/2017)

→ 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.

> WATER RESOURCES RECEIVED

> > AUG 2 4 2017

KS DEPT OF AGRICULTURE

	TER WELL:	Fraction			Section	Number	Township N	umber	Range	Number
county: Barton		SE		SW 1/4		'	т 20	S	R 11	XE/W
istance and direction		-		located within	city?					
Approx. 3 mil										
WATER WELL OW	· · · <del>-</del> · · ·		Land & cattl	Le						
3t. Address, Bo		ute 2						•	Division of Wa	iter Resource
ity, State, ZIP Code		linwood,					Applicatio			
LOCATE WELL'S L AN "X" IN SECTION  NW  SW  X	N BOX:	Depth(s) Ground WELL'S STAT Pur Est. Yield Bore Hole Dian WELL WATER 1 Domesti 2 Irrigation	ndwater Encounterd IC WATER LEVEL mp test data: We . 200 gpm: We meter	ed 111	ft. below not ck. ic water su eld water so and gard od to Depar	w land surf. d. ft. af ft. af ft., af	ace measured or ter	tt. 3 n mo/day/yr hours pur hours pur in.	mping	ft.  17/88 gpn gpn ft y below) mple was su
TYPE OF BLANK		<b>D</b> \	5 Wrought iron							
1 Steel 2 PVC	3 RMP (SF 4 ABS	н)	6 Asbestos-Ce				) 		edA aded	
Blank casing diameter		in to 22	7 Fiberglass							
Casing height above is	and surface	12	in weight	42.05	,	lhe /f		or nauge N	.25	50
YPE OF SCREEN O					7 PVC	103./1		pestos-ceme		
1 Steel	3 Stainless		5 Fiberglass		8 RMP (	SR)			 <i></i>	
2 Brass	4 Galvaniz		6 Concrete tile		9 ABS	J,		ne used (op		
CREEN OR PERFO				Gauzed wrap				٠.	11 None (o	oen hole)
1 Continuous slo		ill slot		Wire wrapped	•		9 Drilled holes		<b>\-</b> 1	
2 Louvered shut	tter 4 Ke	ey punched		Torch cut			10 Other (specif	y) Doeri	r Bridge	Slot
GROUT MATERIAL		From From cement	2 Cement grout	. to 52. . to	Bentonite	ft., Fron ft., Fron	n	ft. t	0	
Grout Intervals: Fro			. ↓ ⊋ ft., From .		ft. to.					
What is the nearest so	· ·		<b>7. 6</b> % – d			10 Livest			bandoned wa	
1 Septic tank 2 Sewer lines	4 Later		7 Pit pri	-		11 Fuel s	•		IXXEX/IGas we ther (specify l	
	5 Cess wer lines 6 Seep	•	9 Feedy	ge lagoon			zer storage icide storage	none l		below)
Direction from well?	ver lines o Seep	age pit	9 Feedy	aiu		How man	•			
DIRECTION HOLL MAIL:		LITHOLOGI	CLOG	FP	IOM	TO	y leet:	LITHOLOG	IC LOG	
FROM TO	t		sandy tan							
FROM TO 0 10	Fine sand	COPSOLE &							<u></u>	
			to fine to							
0 10			to fine to							
0 10 10 34 34 44	Sand & gra coarse Clay, yell	vel, med.	black					· ·	*	
0 10 10 34	Sand & gra coarse Clay, yell	vel, med.								
0 10 10 34 34 44	Sand & gra coarse Clay, yell Sand & gra coarse w/	vel, med. ow gray & vel, med.	black	clay						
0 10 10 34 34 44	Sand & gra coarse Clay, yell Sand & gra	vel, med. ow gray & vel, med.	black to fine to	clay			· ·	7		
0 10 10 34 34 44	Sand & gra coarse Clay, yell Sand & gra coarse w/	vel, med. ow gray & vel, med.	black to fine to	clay			t	<i>Y</i>		
0 10 10 34 34 44	Sand & gra coarse Clay, yell Sand & gra coarse w/	vel, med. ow gray & vel, med.	black to fine to	clay				ATER RES		
0 10 10 34 34 44	Sand & gra coarse Clay, yell Sand & gra coarse w/	vel, med. ow gray & vel, med.	black to fine to	clay					VED	
0 10 10 34 34 44	Sand & gra coarse Clay, yell Sand & gra coarse w/	vel, med. ow gray & vel, med.	black to fine to	clay			W	AUG 2	VED 1 2017	
0 10 10 34 34 44	Sand & gra coarse Clay, yell Sand & gra coarse w/	vel, med. ow gray & vel, med.	black to fine to	clay			W	AUG 2	VED	

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.

LOCATION OF WA	#1 ATER WELL:	Fraction			19	C-5 KSA 85 Section Number		Number	Ra	inge Nu	mber
ounty: Barton		1	1/4 SW	1/4	W 1/4	17	т 20		R		XK/W
istance and direction	n from nearest tov	wn or city street	address of	well if loca	ted within city	1?					
Approx. 3 mi	les south o	of Ellinwo	od, KS								
WATER WELL OV		rton Co. L	and & C	attle							
it. Address, Bo	ox#: Rot	ute 2					Board	of Agriculture,	Division of	of Water	Resourc
ity, State, ZIP Code		linwood, K						ation Number:			
LOCATE WELL'S	LOCATION WITH										
AN "X" IN SECTIO	N BOX:						. 2				
!							surface measured				
NW	NE		_*_				after	•			_
1	1 1	1					after	•			_
w	<del>                                     </del>						, and				T
	1 ! !	WELL WATER				ater supply		•	Injection		-1
SW	SE	1 Domesti	_	Feedlot			9 Dewatering				
V.	1 !	2 Irrigation		Industrial			10 Observation				
X <sub>1</sub>	<del>                                     </del>	ì	ai/Dacteriolo	gicai sampi	e submitted to		YesNo.			yr samp No	X
TYPE OF BLANK	CASING LISED:	mitted	E Wron	ght iron			CASING				
1 Steel	3 RMP (S	:R)		stos-Cemer			low)				
2 PVC	4 ABS	,, ,,	7 Fiber					Thre	eaded		
lank casing diamete		.in. to 2									
asing height above	land surface	12	. in., weic	int 42	2.05	lb	s./ft. Wall thickne	ess or gauge	No 25	50	
YPE OF SCREEN			,			PVC		Asbestos-cen			
1_Steel_	3 Stainles	s steel	5 Fiber	glass	8	RMP (SR)	11	Other (specify	/)		
2 Brass	4 Galvania	zed steel	6 Conc	rete tile	9	ABS	12	None used (c	pen hole)		
CREEN OR PERFO	DRATION OPENIN	NGS ARE:		5 Ga	zed wrapped	I	8 Saw cut		11 Nor	ne (oper	hole)
1 Continuous s	lot 3 M	Mill slot		6 Wir	e wrapped		9 Drilled hol				
2 Louvered shu	utter 4 K	(ey punched			ch cut		10 Other (spe				
CREEN-PERFORA	TED INTERVALS:						rom				
					5.4	ft F	rom				ft
GRAVEL PA	ACV INTEDVALC				E 2						
== • •	ACK INTERVALS		1,5			ft., F	rom				
	<del> </del>	From		ft. to		ft., F	rom rom	ft.	to		f
GROUT MATERIA	AL: 1 Neat	From cement	2 Cemer	ft. to	_3 Be	ft., F <u>ft., F</u> <u>ntonite</u>	rom	<u>ft.</u>	to		
GROUT MATERIA	AL: 1 Neat om	From cement .ft. to	2 Cemer	ft. to	_3 Be	ft., F  ntonite  t. to	rom	ft.	to		<u>f</u> f
GROUT MATERIA Grout Intervals: Fro	AL: 1 Neat om	From cement .ft. to	2 Cemer 15. ft.,	ft. to	_3 Be	ft., F ft., F <u>ntonite</u> t. to	rom	ft. n14	to ft. to Abandone	d water	f1
GROUT MATERIA Frout Intervals: Frout Vhat is the nearest s 1 Septic tank	AL: 1 Neat om	From cement .ft. to	2 Cemer 15. ft.,	ft. to nt grout From 7 Pit privy	<u>3 Be</u> f	ft., F  tt., F  ntonite  t. to 10 Liv 11 Fue	rom	ft. 14 15	to ft. to Abandone Oil well/Ga	d water	fi fi fi
GROUT MATERIA Frout Intervals: Frout State is the nearest s 1 Septic tank 2 Sewer lines	ML: 1 Neat om	From cement .ft. to	2 Cemer 15. ft.,	ft. to nt grout From 7 Pit privy 8 Sewage la	<u>3 Be</u> f	t. to	rom	ft. 14 15	to ft. to Abandone	d water	fi fi fi
GROUT MATERIA Grout Intervals: Frout Intervals: Fro	AL: 1 Neat om	From cement .ft. to	2 Cemer 15. ft.,	ft. to nt grout From 7 Pit privy	<u>3 Be</u> f	t. to	rom	ft. 14 15	to  ft. to  Abandone  Oil well/Ga  Other (spe	d water	fi fi fi
GROUT MATERIA Grout Intervals: Fro Vhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well?	ML: 1 Neat om	From cement .ft. to	2 Cemer 15 ft.,	ft. to nt grout From 7 Pit privy 8 Sewage la	<u>3 Be</u> f	t. to	rom	ft. 14 15 16 no kn	to  ft. to  Abandone  Oil well/Ga  Other (spe	d water	fi fi fi
GROUT MATERIA Grout Intervals: Fro Vhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well?	om 0	From cement .ft. to	2 Cemer 15 ft.,	ft. to nt grout From Pit privy Sewage la	_3 Be f agoon	t. to	rom	ft. 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe	d water	fi fi fi
GROUT MATERIA irout Intervals: Fro Vhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 34	NL: 1 Neat om	From cement .ft. to contamination: ral lines s pool page pit  LITHOLOGI	2 Cemer 15 ft.,	ft. to nt grout From 7 Pit privy 8 Sewage la 9 Feedyard tan cla	3 Be	t. to	rom	ft. 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe	d water	fi fi well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom	ft. 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe	d water	fi fi well
GROUT MATERIA irout Intervals: Fro Vhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 34	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom	ft. 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe	d water	f f well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom	ft. 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe	d water	fi fi well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom	ft. 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe	d water	fi fi well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom	ft. 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe	d water	f f well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom 4 Other	ft.  14  15  16  no kn	to  ft. to Abandone Oil well/Ga Other (spe own son	d water as well ecify bel urce	f f well
GROUT MATERIA Grout Intervals: Fro What is the nearest so 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 34 34 44	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom 4 Other	ft.  14  15  16  no kn	to  ft. to Abandone Oil well/Ga Other (spe own son	d water as well ecify bel urce	f f well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom 4 Other	n 14 15 16 no kn	ft. to Abandone Oil well/Ga Other (specown sou	d water as well ecify bel urce	fi fi well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom 4 Other	n 14 15 16 no kn	ft. to Abandone Oil well/Ga Other (specown sou	d water as well ecify bel urce	fi fi well
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom 4 Other	AUG 2	to  ft. to Abandone Oil well/Ga Other (spe own son GIC LOG	d water as well ecify bel urce	fi fi fi
GROUT MATERIA Frout Intervals: Frout Int	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom 4 Other	AUG 2	to  ft. to Abandone Oil well/Ga Other (spe own son GIC LOG	d water as well ecify bel urce	fi fi fi
GROUT MATERIA Grout Intervals: Fro What is the nearest so 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 34 34 44	L: 1 Neat om	From cement .ft. to	2 Cemer .15 ft., 7 8 C LOG sandy to fir & black	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	t. to	rom 4 Other	n 14 15 16 no kn	to  ft. to Abandone Oil well/Ga Other (spe own son GIC LOG	d water as well ecify bel urce	fi fi well
GROUT MATERIA Grout Intervals: Fro Vhat is the nearest so 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 34 34 44 44 52	Fine sand Sand & gra	From cement .ft. to	2 Cemer .15 ft., 7 ft., 7 ft., 9 ft.,	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co	3 Be	10 Liv 11 Fu 12 Fe 13 Ins How n	rom 4 Other	AUG 2	ft. to Abandone Oil well/Ga Other (specown son GIC LOG DURCES ZED ERICULTE	d water as well ecify bel urce	fi
GROUT MATERIA irout Intervals: Fro Vhat is the nearest so 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 34 34 44 44 52	Fine sand Sand & grand Sand Sand & grand Sand Sand Sand Sand Sand Sand Sand S	From cement ft. to	2 Cemer .15 ft., 7 ft., 7 ft., 9 ft.,	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co  ne to co  se water well		t. to	tom  4 Other	INTERRESCENTION OF ACCES	ft. to Abandone Oil well/Ga Other (specially son) GIC LOG  GIC LOG  DURCES /ED  2017  ERICULTU	d water as well ecify bel urce	ft
GROUT MATERIA Grout Intervals: Fro What is the nearest so 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 34 34 44 45 52  NTRACTOR'S	AL: 1 Neat om	From cement ft. to contamination: ral lines s pool page pit  LITHOLOGIE topsoil & avel, med. low, gray avel, med.	2 Cemer .15 ft., 7 ft., 7 ft., 9 ft.,	ft. to  nt grout  From  Pit privy  Sewage la  Example to co		ttructed, (2) read and this re	tom	AUG 2	off. to Abandone Oil well/Ga Other (specown son GIC LOG OURCES ED ERICULTE	d water as well ecify bel urce	ft
GROUT MATERIA Grout Intervals: Fro What is the nearest so 1 Septic tank 2 Sewer lines 3 Watertight se Direction from well? FROM TO 0 10 10 10 34 34 44 45 52  NTRACTOR'S Originated on (mo/da Water Well Contractor	OR LANDOWNE by/year) 6/1 or's License No	From cement ft. to contamination: ral lines s pool page pit  LITHOLOGIE topsoil & avel, med. low, gray avel, med.  R'S CERTIFICA 7/88  185 ke Well &	2 Cemer .15 ft., 7 E S S C LOG : sandy to fir & black to fir	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co  ne to co  This Water well  This Water Inc	goon  FROM  agoon  FROM  agoon  was (1) cons  Well Record	ttucted, (2) rewas complete by (sign)	A Other	IATER RESC RECEIVED AUG 2 AUG	off. to Abandone Oil well/Ga Other (specially Sources)  GIC LOG  OURCES  ERICULTE  Character my junowiedge  88.	d water as well ecify belance	on and wa
GROUT MATERIA rout Intervals: Fro /hat is the nearest so 1 Septic tank 2 Sewer lines 3 Watertight se irrection from well? FROM TO 0 10 10 34 34 44 44 52  NTRACTOR'S Outpieted on (mo/da /ater Well Contractor)	OR LANDOWNE by/year)	From cement ft. to contamination: ral lines s pool page pit  LITHOLOGIE topsoil & avel, med. low, gray avel, med.  R'S CERTIFICA 7/88  185 ke Well & nt pen. PLEASE PR	2 Cemer 15 ft., 7 ft.,	ft. to  nt grout  From  Pit privy  Sewage la  Feedyard  tan cla  ne to co  ne to co  This Water well  and PRINTO  and PRINTO	goon  FROM  agoon  FROM  agoon  Was (1) cons  Well Record  collearly, Please fi	ttucted, (2) rewas complete by (sign lin blanks, under	A Other	IATER RESC RECEIVED AUG 2	off. to Abandone Oil well/Ga Other (specially South So	d water as well ecify bel arce  risdiction and bel	on and waief. Kansas

	#3 <i>of</i> orth of		WA	TER WELL	RECORD	Form W	WC-5 KSA 8	2a-1212				
		TER WELL:		TEN WELL	TILOUTID	1 01111 11	Section Number		Number	R	ange Nu	ımber
	Barton			1/4 SW		SW 1/4	17	т 20	S	R	11	_XE/W
		from nearest tov	=			ated within	city?					
		les south o	of Ellinwo					w	_	,		
,	R WELL OW				n Co. L	and & C	attle					
	Address, Bo	×#:		Route	. 2	a (750		Board o	of Agriculture,	Division	of Water	r Resource
	, ZIP Code			Ellin	wood, K	5 6/52	b	Applica	tion Number:	3/,4	58	
LOCATE AN "X"	IN SECTIO	OCATION WITH N BOX:	Depth(s) Grou	undwater E	ncountered	111	f	/ATION:	ft. :	3		
	- NW	- NE	Est. Yield	ump test da 200 gj	ata: Well w	ater was .	not ck'd fi fi	surface measured after	hours p	umping . umping .		gpr
• "	! ! - SW	   SE	WELL WATER	itic 3	Feedlot	6 Oil fie		9 Dewatering	12	Other (S	specify b	
	1	ï	2 Irrigatio		Industrial		-	10 Observation				
L	ΧĮ			cal/bacterio	logical samp	le submitted	•	YesNo	-	s, mo/day		
, 1		<u> </u>	mitted					Vater Well Disinfe			No X	
4		CASING USED:			ought iron			CASING				
1 Ste		3 RMP (S	SR)		estos-Ceme		Other (specify be	•				
2 PV	/C	4 ABS 1.6		7 Fib€ 22 .	erglass	16	42	ft., Dia				
Blank casi	ng diameter		.in. to	<del>44</del>	t., Dia	±υ	in. to ₹# 05	π., Dia s./ft. Wall thickne		in. to .	50	1
•	-				ight						77	
		R PERFORATIO					7 PVC		Asbestos-cem			
1_Ste		3 Stainles			erglass		8 RMP (SR)		Other (specify			
2 Bra		4 Galvania		6 Cor	crete tile		9 ABS		None used (o	•		- 11-1
		RATION OPENIN				uzed wrap				II NO	ne (oper	n noie)
	ontinuous sid		Aill slot			re wrapped		9 Drilled hole 10 Other (spe		Rrid	r2 S1	ot
	uvered shut	ter 4 N ED INTERVALS:	(ey punched From	22		rch cut	4 -	rom				
		CK INTERVALS:	From1	. 42	ft. to	5.2.	ft., F	rom	, , ft.	to		
			From		ft. to			rom				
GROUT	MATERIAL	: 1 Neat	cement					4 Other				
Grout Inter	rvals: Fro	m 0	.ft. to	15. ft.				ft., From		ft. to		
What is th	e nearest so	ource of possible	contamination	•			10 Liv	estock pens	14 /	Abandone	d water	well
1 Se	ptic tank	4 Late	ral lines		7 Pit privy		11 Fu	el storage	15 (	Oil well/G	as well	
2 Se	wer lines	5 Cess	s pool		8 Sewage	agoon	12 Fe	rtilizer storage	16 (	Other (sp	ecify bel	low)
3 W	atertight sev	ver lines 6 Seep	page pit		9 Feedyard	l	13 Ins	ecticide storage	no kr	iown s	ource	!
Direction f	rom well?						How r	nany feet?				
FROM	то		LITHOLOG			FRO	то то		LITHOLO	GIC LOG		
0	10	Fine sand				clay						
10	34	Sand & gra	avel, med	. to fi	ne to							
		coarse									· ·	
34	45	Clay, yel										
45	52	Sand & gr.	avel, med	. to fi	ine to c	oarse						
									WATER R	ESOUR(	CES_	
									REC	EIVED		
									AUG	2 4 201		
	<b></b>			·				<del> </del>	KS DEPT OF	AGRICL	LTURE	
									VO DEL I OI		·	
	<u></u>	<u> </u>							<del></del>			
								constructed, or (				
- completed	on (mo/day	/year)	6/17/88				and this re	cord is true to the	best of my k	nowledge		
								d on (mo/day//r)				
inder the	business na	me of Clark	e Well &	Equipme	ent, Inc	•	by (sig	nature)		L		
INSTRUC	CTIONS: Use t	ypewriter or ball poi	nt pen. PLEASE P	RESS FIRM	LY and PRINT	clearly. Pleas	e fill in blanks, unde	rline or circle the corr	ect answers. Se	end top thre	e copies	to Kansas
Denestr	ant of Lin-14L	nd Environment D.	Ironii of Minter De-	staction To-	aka Kancon C	600.7200 T	elephone: 913-862-	3360 Send one to 14	ATER MELL O	WNED	retain on	e for vour

75' N	orth of	#3	WATE	r well record i	Form WWC-5	KSA 82a	-1212		
		TER WELL:				tion Number	Township Nu	mber	Range Number
ounty:	Barton		SE 1/4	SW 1/4 SW	1/4	17	т 20	S	R 11 X≛/W
)istance a	and direction	from nearest town	or city street ac	ddress of well if located	within city?				
Appro	x. 3 mi1	es south of	Ellinwood	i, KS					
WATE	R WELL OW	NER: Barto	n Co. Land	1 & Cattle		-			
₹ t.	Address, Box	κ#: Rou	te 2				Board of Ag	riculture, C	Division of Water Resources
ity, state	, ZIP Code	: Ellin	wood, KS	67526			Application	Number:	37458
LOCAT	E WELL'S L	OCATION WITH 4	DEPTH OF C	OMPLETED WELL	53	ft. ELEVA	TION:		unknown
AN "X"	IN SECTIO	A BOX:	epth(s) Ground	water Encountered 1.	11	ft. 2	<u>.</u>	ft. 3	
: [	1								6/17/88
	1	1							mping gpm
-	NW	NE  E		- <del>-</del>					mping gpm
b I	i								toft.
* w	1						8 Air conditioning		
-	1		1 Domestic						Other (Specify below)
j-	SW	SE	2 Irrigation	4 Industrial	Lawn and	garden only	0 Observation wel		
	x	l i v	Vas a chemical/t	pacteriological sample si	ubmitted to D	epartment? Ye	esNoX	; If yes,	mo/day/yr sample was sub
		n	nitted			Wa	ter Well Disinfected	? Yes	No X
TYPE	OF BLANK	CASING USED:		5 Wrought iron	8 Concre	ete tile	CASING JOIN	ITS: Glued	iClamped
1_St	eel	3 RMP (SR)	•	6 Asbestos-Cement	9 Other	(specify below	v)	Welde	<u>ed . X </u>
2 P		4 ABS		7 Fiberglass					ided
3lank cas	ing diameter	1.6ir	n. to <u></u>	<sup>22</sup> ft., Dia <u></u>	. 16in. to	42	ft., Dia	i	in. to ft.
Casing he	ight above la	and surface	12	.in., weight 42.	)5		ft. Wall thickness o	r gauge No	o • 250
TYPE OF	SCREEN O	R PERFORATION	MATERIAL:		7 PV	C	10 Asbe	stos-ceme	nt
1 St	eel	3 Stainless	steel	5 Fiberglass	8 RM	IP (SR)	11 Othe	r (specify)	
2 Br	ass	4 Galvanize	d steel	6 Concrete tile	9 A8	S	12 None	used (op	en hole)
3CREEN	OR PERFO	RATION OPENING	S ARE:	5 Gauze	d wrapped		8 Saw cut		11 None (open hole)
1 C	ontinuous slo	ot 3 Mill	slot	6 Wire v	rapped		9 Drilled holes	_	
2 Lc	ouvered shut	ter 4 Key	punched	7 Torch					.Bridge Slot
3CREEN-	PERFORATI	ED INTERVALS:							o
			From	.42 ft. to	52	ft., From	n	ft. to	o
(	GRAVEL PA	CK INTERVALS:	From	↓⊅ ft. to	52	ft From	ກ	ft. to	o
			From	ft. to		ft., Fron	n		o ft.
•	T MATERIAL		ment	ft. to 2 Cement grout	3 Bento	ft., From	n Other		
3rout Inte	rvals: Fro	m0ft	ment t. to	ft. to 2 Cement grout	3 Bento	ft., From	n Other ft., From		ft. to
Grout Inte	rvals: From	m0fl ource of possible c	ment t. to 1,5 ontamination:	ft. to 2 Cement grout ft., From	3 Bento	ft., From the points of the first first from the fi	Other	14 Al	ft. toft. bandoned water well
Frout Inte	rvals: From ne nearest sc eptic tank	m0fi ource of possible co 4 Lateral	ment t. to 15 ontamination: lines	ft. to  2 Cement grout ft., From  7 Pit privy	<u>3 Bento</u> ft.	ft., From the points of the po	m Other	14 AI 15 O	. ft. to ft. bandoned water well if well/Gas well
Arout Inte Nhat is th 1 Se 2 Se	rvals: From ne nearest so eptic tank newer lines	m0fi ource of possible co 4 Lateral 5 Cess p	ment t. to 1,5 contamination: lines cool	ft. to  2 Cement grout  ft., From  7 Pit privy  8 Sewage lago	<u>3 Bento</u> ft.	ft., From tt., F	m Other	14 Al 15 O 16 O	the first to the f
Grout Inte What is th 1 Se 2 Se 3 W	rvals: From the nearest so the petic tank the sewer lines the sewer lines	m0fi ource of possible co 4 Lateral	ment t. to 1,5 contamination: lines cool	ft. to  2 Cement grout ft., From  7 Pit privy	<u>3 Bento</u> ft.	tt., From tt., F	Other	14 Al 15 O 16 O	. ft. to ft. bandoned water well if well/Gas well
Frout Intervals of the Arms of	rvals: From the nearest so the septic tank the sever lines that the sever th	m0fi ource of possible co 4 Lateral 5 Cess p	ment t. to 1,5 ontamination: lines oool ge pit	ft. to  2 Cement grout  ft., From  7 Pit privy  8 Sewage lago  9 Feedyard	3 Bento	tt., From tt., F	Other	14 Al 15 O 16 O none l	tt. toft. bandoned water well il well/Gas well ther (specify below) known
FROM	rvals: From the real section is a section in the real section in the real section is a section in the real section in the real section is a section in the real section in the real section in the real section is a section in the real section in th	m0ft ource of possible co 4 Lateral 5 Cess p ver lines 6 Seepa	ment t. to 1,5 ontamination: lines cool ge pit  LITHOLOGIC	ft. to  2 Cement grout  ft., From  7 Pit privy  8 Sewage lago  9 Feedyard	<u>3 Bento</u> ft.	tt., From tt., F	Other	14 Al 15 O 16 O	tt. toft. bandoned water well il well/Gas well ther (specify below) known
FROM	rvals: From the nearest screptic tank sewer lines statertight sewer to the tatertight sewer to the tat	m 0	ment t. to 15 ontamination: lines cool ge pit  LITHOLOGIC copsoil &	ft. to 2 Cement grout ft., From 7 Pit privy 8 Sewage lago 9 Feedyard LOG sandy tan clay	3 Bento	tt., From tt., F	Other	14 Al 15 O 16 O none l	tt. toft. bandoned water well il well/Gas well ther (specify below) known
FROM	rvals: From the real section is a section in the real section in the real section is a section in the real section in the real section is a section in the real section in the real section in the real section is a section in the real section in th	m. 0	ment t. to 15 ontamination: lines cool ge pit  LITHOLOGIC copsoil &	ft. to 2 Cement grout ft., From 7 Pit privy 8 Sewage lago 9 Feedyard LOG sandy tan clay	3 Bento	tt., From tt., F	Other	14 Al 15 O 16 O none l	tt. toft. bandoned water well il well/Gas well ther (specify below) known
FROM  0  10	rvals: From the nearest screptic tank ever lines latertight sew from well?  TO  10  34	m. 0ft  ource of possible of 4 Lateral 5 Cess per lines 6 Seepar  Fine sand t  Sand & gray  coarse	ment to 15 contamination: lines cool ge pit LITHOLOGIC copsoil & c	ft. to  2 Cement grout  ft., From  7 Pit privy  8 Sewage lago  9 Feedyard  LOG  sandy tan clay  to fine to	3 Bento	tt., From tt., F	Other	14 Al 15 O 16 O none l	tt. toft. bandoned water well il well/Gas well ther (specify below) known
FROM 0	rvals: From the nearest scappic tank ever lines ratertight sew from well?  TO  10  34	m. 0ft  purce of possible of 4 Lateral 5 Cess purer lines 6 Seepar  Fine sand t Sand & gray coarse Clay, yello	ment to 15 contamination: lines cool ge pit  LITHOLOGIC copsoil & copsoil rel, med.  Dw, gray &	ft. to  2 Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  LOG sandy tan clay to fine to  black	3 Bento	tt., From tt., F	Other	14 Al 15 O 16 O none l	tt. toft. bandoned water well il well/Gas well ther (specify below) known
FROM  0  10	rvals: From the nearest screptic tank ever lines latertight sew from well?  TO  10  34	m. 0ft  purce of possible of 4 Lateral 5 Cess purer lines 6 Seepar  Fine sand t Sand & gray coarse Clay, yello	ment to 15 contamination: lines cool ge pit  LITHOLOGIC copsoil & copsoil rel, med.  Dw, gray &	ft. to  2 Cement grout  ft., From  7 Pit privy  8 Sewage lago  9 Feedyard  LOG  sandy tan clay  to fine to	3 Bento	tt., From tt., F	Other	14 Al 15 O 16 O none l	tt. toft. bandoned water well il well/Gas well ther (specify below) known
FROM 0	rvals: From the nearest scappic tank ever lines ratertight sew from well?  TO  10  34	m. 0ft  purce of possible of 4 Lateral 5 Cess purer lines 6 Seepar  Fine sand to Sand & gray coarse Clay, yello	ment to 15 contamination: lines cool ge pit  LITHOLOGIC copsoil & copsoil rel, med.  Dw, gray &	ft. to  2 Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  LOG sandy tan clay to fine to  black	3 Bento	tt., From tt., F	Other	14 Al 15 O 16 O none l	tt. toft. bandoned water well il well/Gas well ther (specify below) known
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FROM 0	rvals: From the nearest scappic tank ever lines ratertight sew from well?  TO  10  34	m. 0ft  purce of possible of 4 Lateral 5 Cess purer lines 6 Seepar  Fine sand to Sand & gray coarse Clay, yello	ment to 15 contamination: lines cool ge pit  LITHOLOGIC copsoil & copsoil rel, med.  Dw, gray &	ft. to  2 Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  LOG sandy tan clay to fine to  black	3 Bento	tt., From tt., F	m Other  other  ft., From  tock pens storage zer storage ticide storage ny feet?	14 Al 15 O 16 O none l	ft. toft. bandoned water well il well/Gas well ther (specify below) known IC LOG
FROM 0	rvals: From the nearest scappic tank ever lines ratertight sew from well?  TO  10  34	m. 0ft  purce of possible of 4 Lateral 5 Cess purer lines 6 Seepar  Fine sand to Sand & gray coarse Clay, yello	ment to 15 contamination: lines cool ge pit  LITHOLOGIC copsoil & copsoil rel, med.  Dw, gray &	ft. to  2 Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  LOG sandy tan clay to fine to  black	3 Bento	tt., From tt., F	m Other  other  ft., From  tock pens storage zer storage ticide storage ny feet?	14 Al 15 O 16 O none l	ft. toft. bandoned water well il well/Gas well ther (specify below) known IC LOG
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FROM  34  45	rivals: From the nearest scappic tank ever lines latertight sew from well?  TO  10  34  45  52	m. 0	ment to	ft. to  2 Cement grout  ft., From  7 Pit privy  8 Sewage lago  9 Feedyard  LOG  sandy tan clay to fine to  black  to/fine to coars	3 Bento ft.	ft., From the printer of the printer	MOther	14 AI 15 O 16 O none. I ITHOLOG  RESOL RECEIVE	ft. to
FROM  0 10  34 45	rivals: From the nearest so the near	m. 0	ment to	ft. to  2 Cement grout  ft., From  7 Pit privy  8 Sewage lago  9 Feedyard  LOG  sandy tan clay  to fine to  black  to/fine to coars  ON: This water well wa	3 Bentoft. on FROM	ft., From the points of the po	MOther	14 Al 15 O 16 O none l ITHOLOG RESOL RECEIVE	ft. to
Providence of the control of the con	rivals: From the nearest so applied tank app	m. 0ft  purce of possible of 4 Lateral 5 Cess purer lines 6 Seepar  Fine sand to Sand & grave  Coarse  Clay, yello Sand & grave  OR LANDOWNER  //year)	ment to	ft. to  2 Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  LOG sandy tan clay to fine to  black tofine to coars  ON: This water well wa	3 Bento ft. on FROM	ft., From the points of the po	MOther	14 Al 15 O 16 O none. I ITHOLOG RESOURCE IG 2 4 (	ft. to
Provided Water We	rivals: From the nearest scappic tank expertition tank expertitions attentight sew from well?  TO 10 34 45 52 52 FACTOR'S (I on (mo/day)) II Contractor	purce of possible of 4 Lateral 5 Cess possible of 5	ment to	ft. to  2 Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  LOG sandy tan clay to fine to  black to/fine to coars  ON: This water well wa This Water Well	3 Bento ft.  FROM  FROM  Se (1) constru	tt., From tt., F	MOther	14 Al 15 O 16 O none. I ITHOLOG RESOURCE IG 2 4 (	ft. to
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Prout Intervention Intervention Intervention FROM 0 10 34 45 45 Water We Index the Instruction Instruc	rivals: From the nearest scappic tank experiences for the search of the	purce of possible of 4 Lateral 5 Cess possible of 5 Cess possible of 5 Cess possible of 6 Seepast of 5 Cess possible of 6 Cess	ment to	ft. to  2 Cement grout ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  LOG sandy tan clay to fine to  black to/fine to coars  ON: This water well wa  This Water Well Equipment, Inc	3 Bento ft f	tt., From tt., F	MOther	14 Al 15 O 16 O none. I ITHOLOG RESOLVE JG 2 4	ft. to

**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
<b>Geological Unit Codes:</b>		<b>USGS Map Name:</b>	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	<b>Date Assigned</b>
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	<b>Agency</b>	Method	WL Source	Tape Hold	Chalk Cut	Initials
SEP-01-1997	-9.6	В	DWR	Unknown	-	-		-
JAN-01-1998	-8.1	В	DWR	Unknown	-	-		-
APR-01-1998	-6.5	В	DWR	Unknown	-	-		-
MAR-01-1999	-7.5	В	DWR	Unknown	-	-		-
MAY-01-1999	-6.6	В	DWR	Unknown	-	-		-
SEP-01-1999	-8.91	В	DWR	Unknown	-	-		-
JAN-01-2000	-8.81	В	DWR	Unknown	. · · ·	-	, <del></del>	-
FEB-01-2000	-8.81	В	DWR	Unknown	-	-		-
MAR-01-2000	-6.71	В	DWR	Unknown	<del>-</del>	-		-
APR-01-2000	-7.19	В	DWR	Unknown	-	-		-
MAY-01-2000	-7.61	В	DWR	Unknown	_	-		-
JUN-01-2000	-9.31	В	DWR	Unknown	-	-		-
JUL-01-2000	-10.35	В	DWR	Unknown	-	-		-
AUG-01-2000	-10.17	В	DWR	Unknown	-	-		-
SEP-01-2000	-10.8	В	DWR	Unknown	-	-		-
OCT-01-2000	-10.77	В	DWR	Unknown	-	-		: <del>-</del>
NOV-01-2000	-9.77	В	DWR	Unknown	-	-		-
DEC-01-2000	-9.68	В	DWR	Unknown		-		-
JAN-01-2001	-9.72	В	DWR	Unknown	<b>-</b>	-		- :
FEB-01-2001	-9.53	В	DWR	Unknown	<b>-</b>	- -	. <del></del>	-
MAR-01-2001	-8.31	В	DWR	Unknown	-	-		-
APR-01-2001	-8.13	В	DWR	Unknown	-	-		
JUN-01-2001	-9.05	В	DWR	Unknown	-	-	· · · · · · · · · · · · · · · · · · ·	-
JUL-01-2001	-10.08	В	DWR	Unknown	-	-	· · · · · · · · · · · · · · · · · · ·	-
AUG-01-2001	-11.06	-	DWR	Unknown	-	14	0.64	phd
SEP-01-2001	-9.39	В	DWR	Unknown	-	-		
OCT-01-2001	-9.55	В	DWR	Unknown	-	_		-
NOV-01-2001	-9.67	В	DWR	Unknown	<del>-</del>			
DEC-01-2001	-9.74	В	DWR	Unknown	-	<b>₩</b>	R RESOURC RECEIVED	<b>⊨3</b>
JAN-01-2002	-9.72	В	DWR	Unknown	- -	- Al	JG <b>2 4</b> 2017	_

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Water Level Me	asurements		U	Page <b>3</b> of <b>4</b>			
FEB-01-2002	-9.9	В	DWR	Unknown -	-		-
MAR-01-2002	-10.1	В	DWR	Unknown -	-		-
APR-01-2002	-10.21	В	DWR	Unknown -	-		-
MAY-01-2002	-10.77	В	DWR	Unknown -	-		-
JUL-01-2002	-17.45	В	DWR	Unknown -	-		-
AUG-01-2002	-12.73	В	DWR	Unknown -	-		-
SEP-01-2002	-12.34	В	DWR	Unknown -	-		-
OCT-01-2002	-11.78	В	DWR	Unknown -	-		-
NOV-01-2002	-11.52	В	DWR	Unknown -	-		-
DEC-01-2002	-11.44	В	DWR	Unknown -	-		<del>-</del>
JAN-01-2003	-11.37	В	DWR	Unknown -	-		-
FEB-01-2003	-11.3	В	DWR	Unknown -	-		-
MAR-01-2003	-11.24	В	DWR	Unknown -	-		-
APR-01-2003	-10.54	В	DWR	Unknown -	-		-
MAY-01-2003	-11.1	В	DWR	Unknown -	-		<del>-</del>
SEP-01-2003	-12.68	В	DWR	Unknown -	<del>-</del>		-
OCT-01-2003	-12.58	В	DWR	Unknown -	-		<del>-</del>
NOV-01-2003	-12.33	В	DWR	Unknown -	<del>-</del>		-
DEC-01-2003	-12.24	В	DWR	Unknown -	· · · · · · · · · · · · · · · · · · ·		
JAN-01-2004	-12.18	В	DWR	Unknown -	-		-
FEB-01-2004	-12.05	В	DWR	Unknown -	: <del>-</del>		- -
MAR-01-2004	-11.82	В	DWR	Unknown -	-		<u>-</u>
APR-01-2004	-11.84	В	DWR	Unknown -	-		: <u>-</u>
MAY-01-2004	-12.25	-	DWR	Unknown -	-		* -
OCT-22-2004	-12.42	-	DWR	Unknown -	:-		
NOV-23-2004	-12.23	-	DWR	Unknown -	; <del>-</del>		<del>-</del>
DEC-14-2004	-12.12	-	DWR	Unknown -	<u> </u>		<del>-</del>
JAN-06-2005	-11.65	-	DWR	Unknown -	i-		
FEB-04-2005	-11.93	-	DWR	Unknown -	<del>-</del>		<del>-</del>
MAR-04-2005	-11.63	-	DWR	Unknown -	<del>-</del>		
APR-21-2005	-11.43	-	DWR	Unknown -	; <del>-</del>		<del>-</del>
MAY-01-2005		P	DWR	Unknown -	-		<del>-</del>
JUN-01-2005	-11.14	-	DWR	Unknown -	-	,	- -
AUG-12-2005		P	DWR	Unknown -	· <b>-</b>		<del>-</del>
OCT-25-2005	-12.08	-	DWR	Unknown -	14.38	0.00	-
JAN-12-2006	-11.85	-	DWR	Unknown -	15	0.85	. <del>-</del>
APR-28-2006	-12.3	-	DWR	Unknown -	14.6 <b>W</b> ATE	RECEIVE	JRCESL D

Water Level Measur		U	Page 4 of 4				
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 -	* <u>-</u>		mjm
JAN-05-2015	-10.49	-	DWR	Unknown -	16	3.21	MJM
OCT-15-2015	-9.99	<b>-</b>	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**

Custome	er Name	: <u>B</u> a	erton County Fe	eders								Date:	6/29/	2017
Address _												Test No:	#1-	17
County:		Barton	Quai	ter:	NE	Section:	2	0	То	wnship:		20	Range:	11
ed F From	ootage To		Descri	otion of	Strata			Indicat	e Test Lo	cation by	y an X			
0	3	To	p soil											
3	11	Sc	oft sandy clay								ឌ	<del> </del>		
11	15	Sc	oft sandy clay w/	small,	med grav	vel						ļ		
15	25	Sa	nd & gravel- sm	all med	d coarse									
		cle	ean loose			······································						†		
25	33		n clay											
33	40		nd & gravel- sm		d coarse							ļ		
40	70		/ small clay strea			0000						; ! !		
40	70	34	nd & gravel- me	u cieai	ii coarse i	oose						<del> </del>		
												<del> </del>		
												; ; ; ;		
							Static V	Vater L	evel:		12		Ft	
							Remark	ks:	Set 70	ft of 5"	pipe fo	or supply	well	
											,			<b></b>
							Garmin							
							Latitud			· · · · · · · · · · · · · · · · · · ·				
		_							8.5618	<u>w</u>				
							Elevation	on:		,	·····			
							Driller:	Luis Lu	ına					
							Spot Loc	cation:	SW/ N\	W/ NE				

ROSENCRANTZ-BEMIS EQUIPMENT CO., INC

Telephone (620) 792-2488 or (620) 793-5512 P.O. Box 713, Great Bend, KS 67530 WATER RESOURCES RECEIVED



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

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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

,			Date/Time		
	Result	Units	Analyzed	Analyst	
++pH - SM 4500-H+ B	7.38	S.U.	6/30/2017 10:35	SE	
++Chioride - 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 31208	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			

<sup>&</sup>quot;Sample receipt temperature = 24.7 degrees C.
"Sample beyond hold time for pH.

Methods of analysis per EPA-500 or EPA SW-846, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Wasterster, 18th Edition, 1982.

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<sup>\*</sup>Analysis was subcontracted to another laboratory for state compliance - see attached.

oles NELAPICOHE Accredited Method. Lab Certificate #E-10152. Results meet all requirementsof NELAC unless noted.



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

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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

ROSENCRANTZ-BEMIS DRILLING

1105 281 BYPASS

P.O. BOX 713

GREAT BEND, KS 67530

**ANALYSIS** 

			Date/Time	
	Result	Units	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 23408	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 31118	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 31208	Less than 0.01	mg/L	7/6/2017 11:00	JС
++Manganese - SM 31208	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		

Methods of analysis per EPA-600 or EPA SW-846, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Waster aler, 18th Edition, 1992.

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<sup>&</sup>quot;Sample beyond hold time for pH.

<sup>\*</sup>Analysis was subcontracted to another laboratory for state compliance - see attached.

notes NELAPIKDHE Accredited Method. Lab Certificate #E-10152. Results meet all require ntaci NELAC unions noted.

#### 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 ½ 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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WWW.KLAENVIRO.COM

#### **Enclosures**

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

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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

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:

RE: File No 37458

☐ 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,

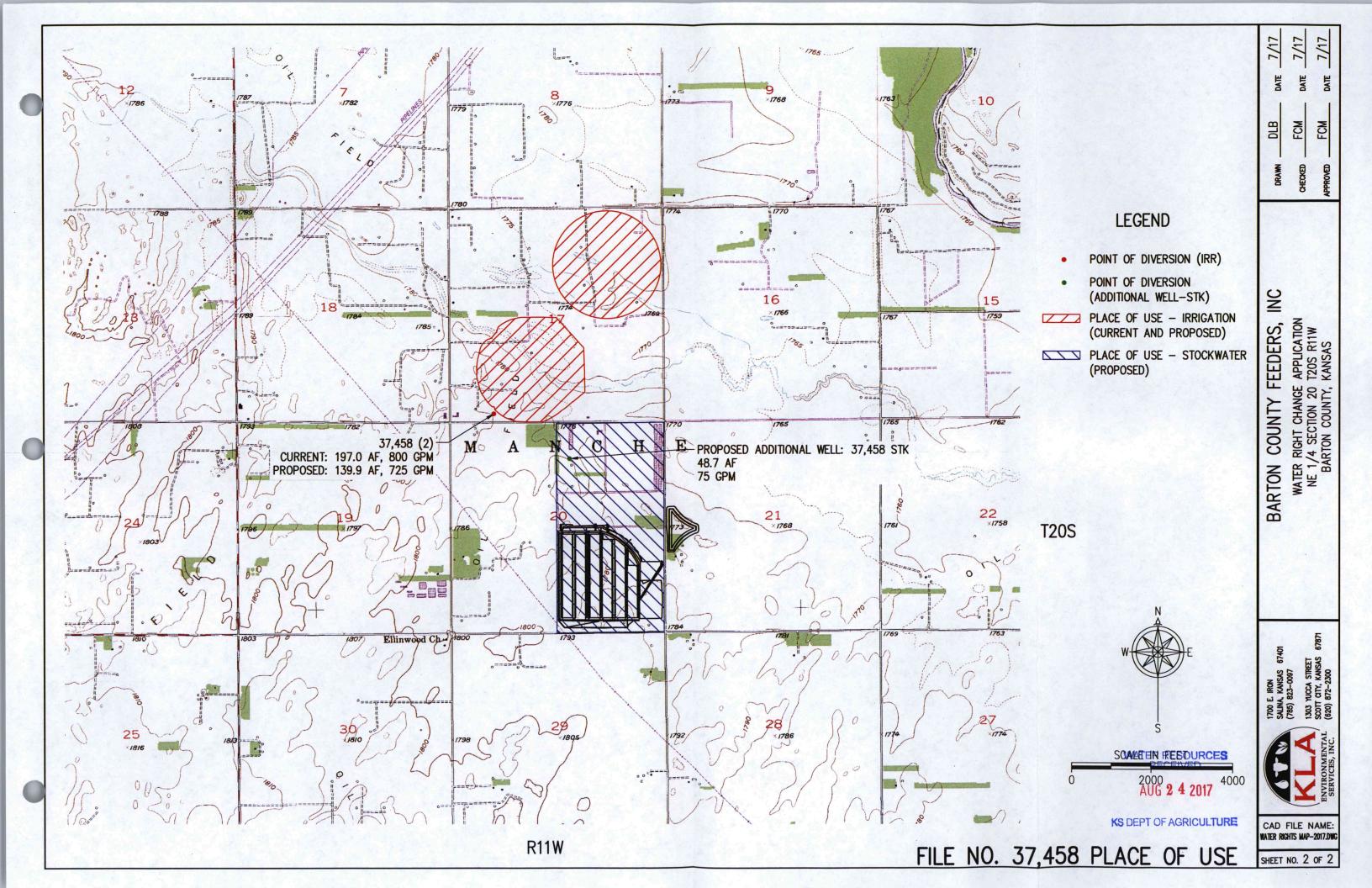
Brent Tourney, L.G.

Grand A. Juney

Change Applications Unit Supervisor Water Appropriation Program

BAT: DLW

pc: STAFFORD Field Office GMD5





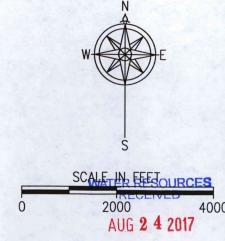
### **LEGEND**

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

PLACE OF USE - IRRIGATION (CURRENT AND PROPOSED)

PLACE OF USE - STOCKWATER (PROPOSED)

**T20S** 



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BARTON COUNTY FEEDERS, INC
WATER RIGHT CHANGE APPLICATION
NE 1/4 SECTION 20 120S R11W
BARTON COUNTY, KANSAS

FCM

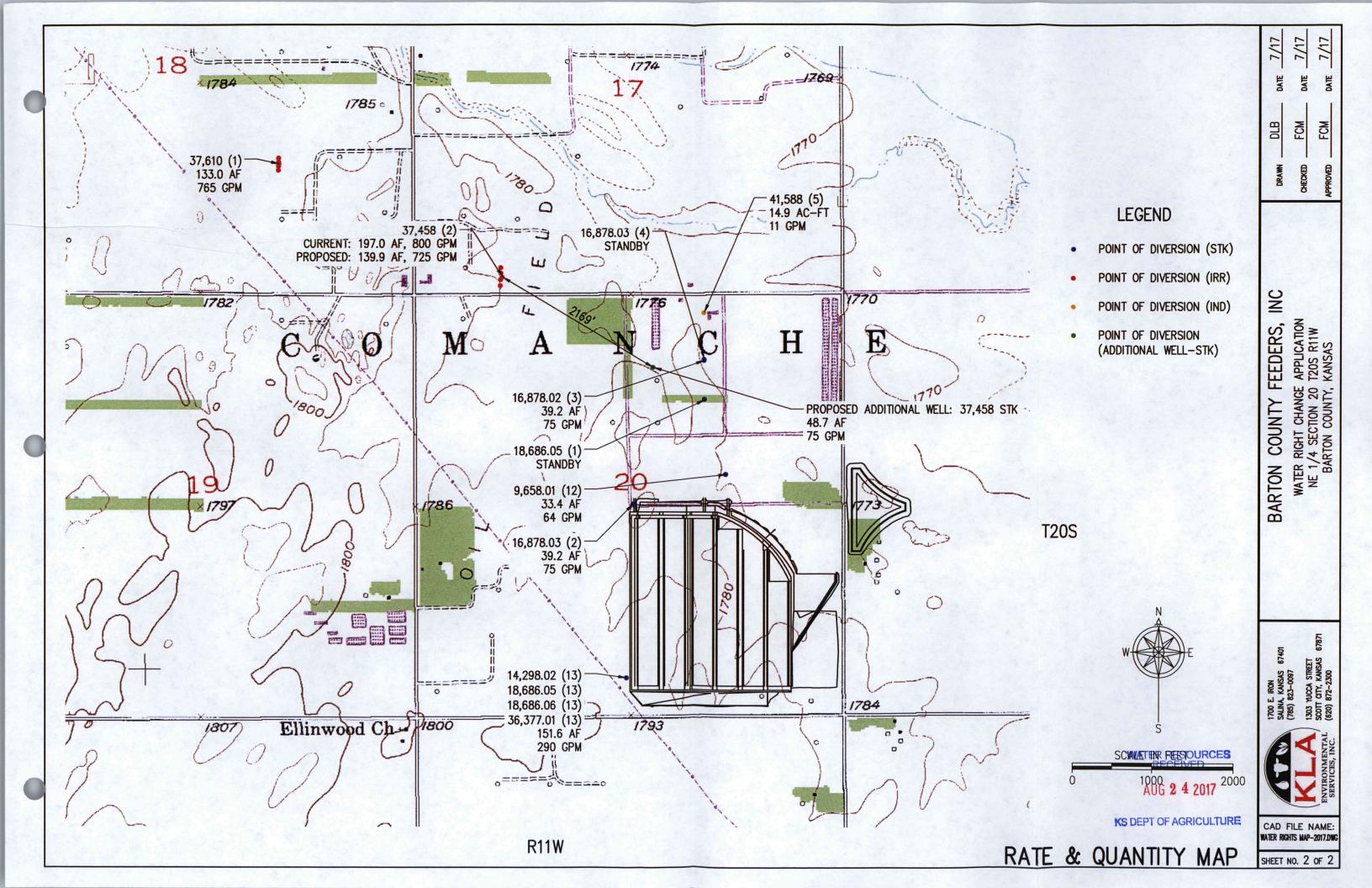
DLB

700 E. IRON 785) 823-0097 303 YUCCA SIRET COTT GIT, KANSAS 67871



CAD FILE NAME: WATER RIGHTS MAP-2017.DWG

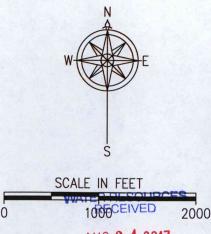
SHEET NO. 1 OF





LEGEND

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



AUG 2 4 2017

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RATE & QUANTITY MAP

 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

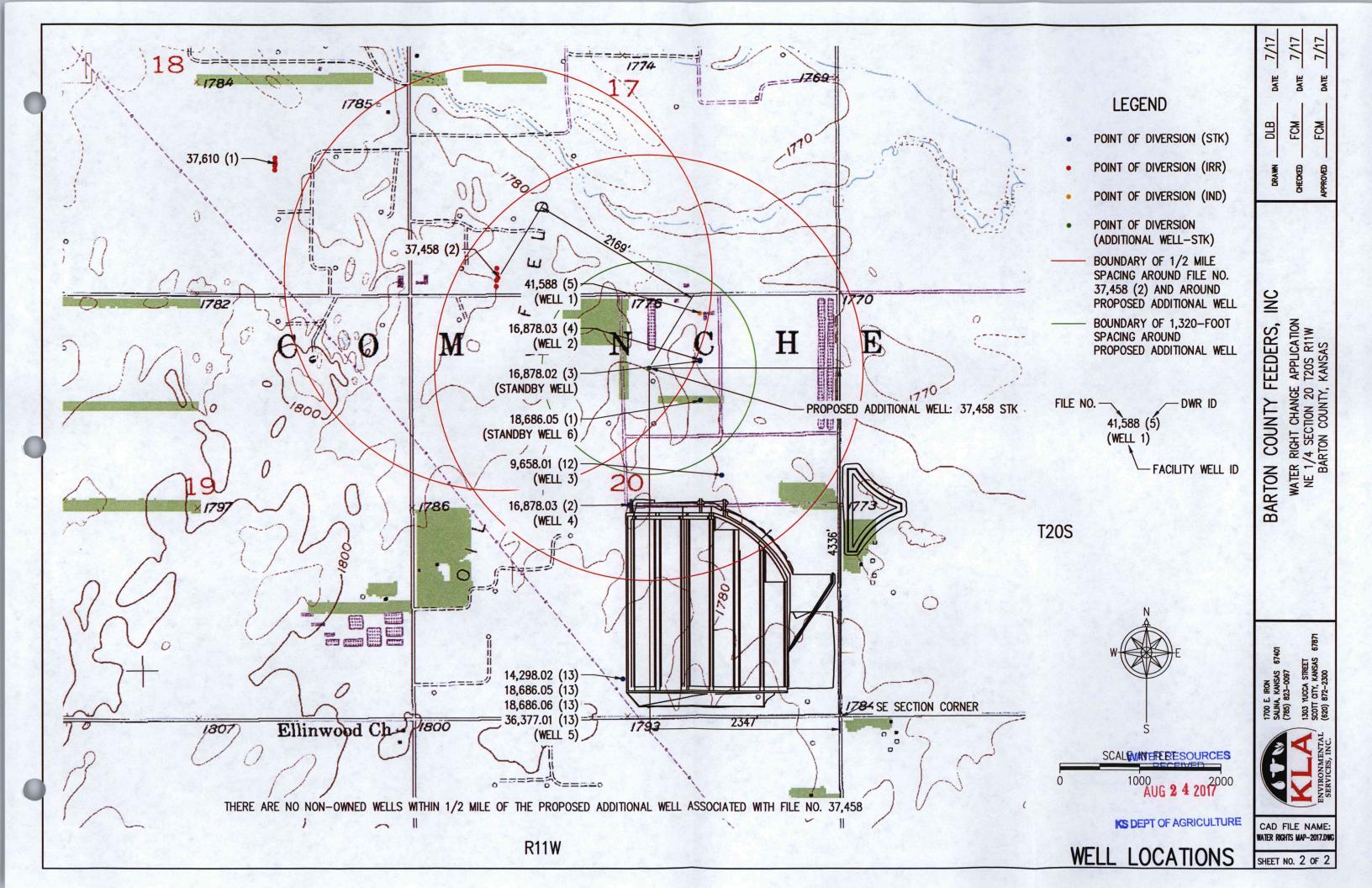
A, KANSAS 67401 823-0097 YUCCA STREET T CITY, KANSAS 67871

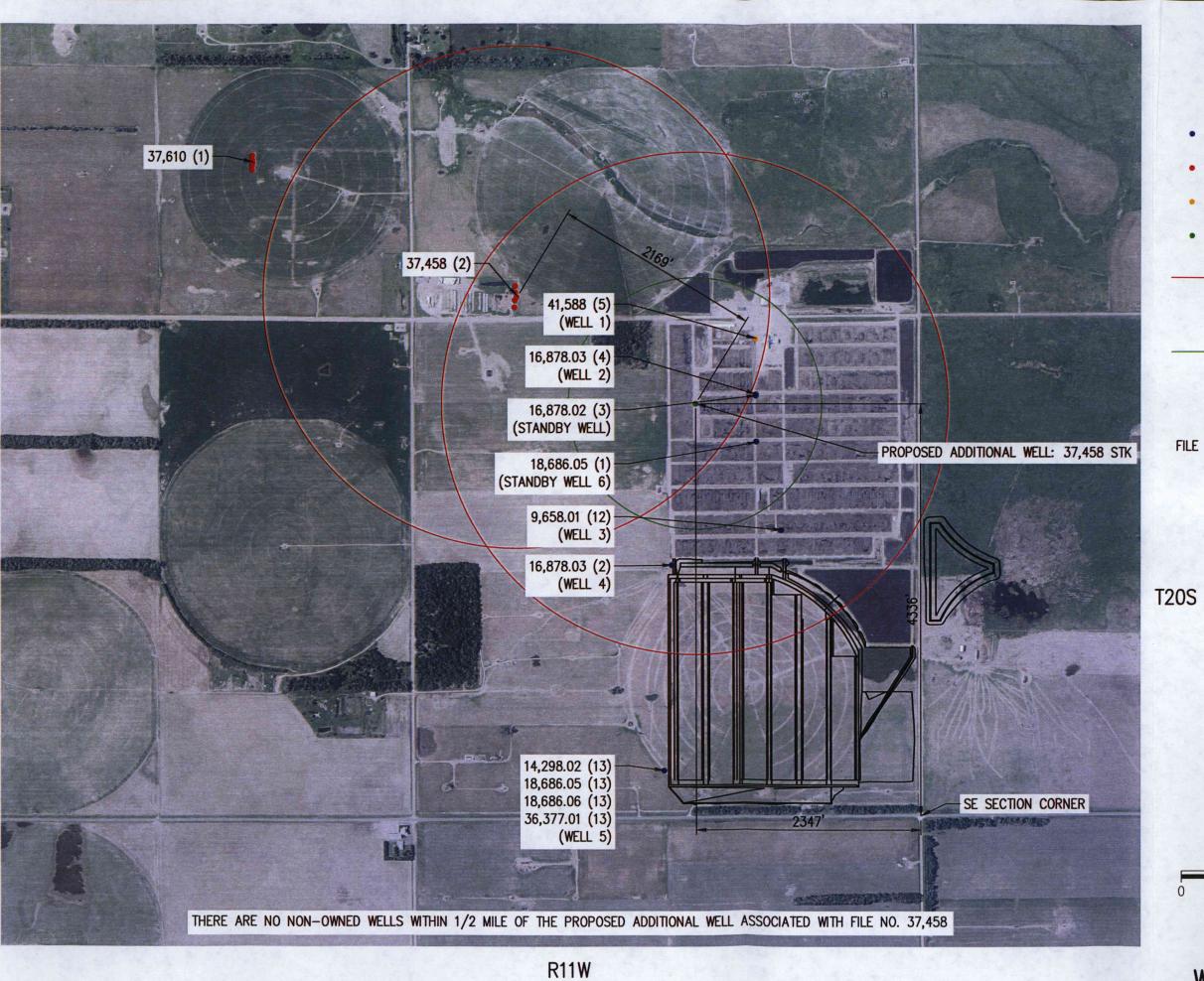
KLA (785) 8

NUNA

CAD FILE NAME: WATER RIGHTS MAP-2017.DWG

SHEET NO. 1 OF 2





#### **LEGEND**

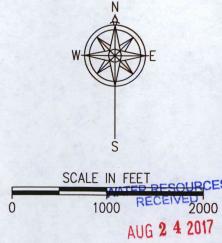
POINT OF DIVERSION (STK)

71/1

OLB

FCM

FC



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WELL LOCATIONS

CAD FILE NAME: WATER RIGHTS MAP-2017.DWG

SHEET NO. 1 OF 2

POINT OF DIVERSION (IRR) CHECKED 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 S BOUNDARY OF 1,320-FOOT SPACING AROUND PROPOSED ADDITIONAL WELL BARTON COUNTY FEEDERS, WATER RIGHT CHANGE APPLICATION NE 1/4 SECTION 20 T20S R11W BARTON COUNTY, KANSAS FILE NO. 41,588 (5) (WELL 1) FACILITY WELL ID