

Kansas Department of Agriculture
Division of Water Resources

CHANGE: P/D WORKSHEET & REDUCTION IN QUANTITY, RATE & REMOVAL OF LTM

1. File Number: 32527	2. Status Change Date: 8/31/2018	3. Change Num: C2	4. Field Office: 02	5. GMD: 05
6. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return				7. Filing Date of Change: 2/26/18
8a. Applicant(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____ DAVID D ESSMILLER 66 SW 30 AVE GREAT BEND KS 67530-9707		8c. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____		
8b. Landowner(s) New to system <input type="checkbox"/> Person ID 4943 Add Seq# _____ DAVID D ESSMILLER REV INTER VIVOS TRUST 66 SW 30 AVE GREAT BEND KS 67530-9707		8d. WUC New to system <input type="checkbox"/> Person ID 4943 Add Seq# _____ 8b		
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: 12/31/18 <input checked="" type="checkbox"/> N & P Date to Comply: 12/31/18				
<input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input type="checkbox"/> Check Valve <input type="checkbox"/> N & P Form <input type="checkbox"/> Water Tube <input type="checkbox"/> Driller Copy <input type="checkbox"/> H & E Letter <input type="checkbox"/> Conservation Plan Date Required: _____ Date Approved: _____ Date to Comply: _____				
10. Use Made of Water From: _____ To: _____				
Date Prepared: 8/17/18 By: LI Date Entered: 9/16/2018 By: WM				

File No. **32527** 11. County: **BT** Basin: **WALNUT CREEK** Stream: **NA** Formation Code: **113** Special Use: **NA**

12. Points of Diversion											Rate and Quantity					
CHK	MOD	DEL	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment (AKA Line)	Authorized		Additional		Overlap PD Files
ENT												Rate gpm	Quantity af	Rate gpm	Quantity af	
DEL			12327	SE NW SW	26	19	14W	4	1910	4340		1120	38	0	38	BT 019
ENT			86692	NE SE NW	26	19	14W	7	3930	2650		100	35.3	100	35.3	16718

13. Storage: Rate _____ NF Quantity _____ ac/ft Additional Rate _____ NF Additional Quantity _____ ac/ft

14. Limitation: _____ af/yr at **1200** gpm (**2.67** cfs) when combined with file number(s) **WITH BT 019 REMOVE THIS LIMITATION**
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

15. 5YR Allocation: Allocation Type _____ Start Year _____ 5 YR Amount _____ Amount Unit _____ Base Acres _____ Comment _____

16. Place of Use CHK MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files	
						NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼					
NO CHANGE																										

Base Acres: Year: Minimum Reasonable Quantity:

Comments: **SPECIAL CONDITIONS: ADDITIONAL WELL (REVIEW AFTER 5- 10 YEARS)**

Kansas Department of Agriculture
 Division of Water Resources
WAIVER REQUEST & WAIVER RULE WORKSHEET

File Number: 32,527

FO: 2

GMD: 5

WAIVER REQUEST:

UMW	Date Requested	Rule ID	Applies	Rule Type	Rule Subtype
IRR	2/26/2018	57	Statewide	Change Approval	Location of Alluvial Wells
Rule Number	Date Granted	Date Denied	Justification:	Approval of the proposed change and a previous change to the proposed well that moved the diversion of another right water away from the Wet Walnut Creek in Barton County, results in a net increase in streamflow per the Glover-Balmer analysis of the changes to the two water rights.	
K.A.R. 5-5-13	8/31/2018				

WAIVER RULE:

Rule ID	Applicability	Type	Subtype	Rule Number	Date Active	Date Inactive
			Well Spacing	K.A.R.		

Date Prepared 8/30/2018 By LI

Date Entered 9/6/2018 By CCM

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
FAX: (785) 564-6777

STATE OF KANSAS



900 SW JACKSON, ROOM 456
TOPEKA, KS 66612
PHONE: (785) 296-3556
www.agriculture.ks.gov

GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

WAIVER OF REGULATION K.A.R. 5-5-13

Date: August 31st, 2018

Re: File No. 32,527

1. That K.A.R. 5-5-13 states in part, that the relocation of an alluvial well in a basin that is fully appropriated or closed to new appropriations shall not decrease the distance between the well and the centerline of the stream by more than 10 percent.
2. That the proposed change will move the above referenced file to an existing well authorized under Water Right, File No. 16,718, which will decrease the distance to the center line of the Wet Walnut Creek by approximately eighteen percent, 18%.
3. That a change approval for File No. 16,718, moved 174 acre-feet to be diverted at a rate of 1,720 gallons per minute away from the creek while the change for File No. 32,527, proposes to move 35.3 acre-feet to be diverted at a rate of 100 gallons per minute closer to the creek, with both rights diverting from the same well.
4. A Glover-Balmer analysis determination found when both changes were considered, it results in a net increase of flow in the stream.
5. That the referenced file makes a complete overlap with Water Right, File No. 16,718.
6. That the application should be approved with a waiver of relocating alluvial wells as defined by K.A.R. 5-5-13.
7. That the waiver will not prejudicially or unreasonably affect the public interest.

Comments:

David W. Barfield, P.E.
Chief Engineer
Division of Water Resources

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files

DATE: August 29, 2018

FROM: Leslie Ireland

RE: Water Right, File No. 32,527
Vested Right, File No. BT 019

David D. and Deanna Essmiller have filed an application for approval to change the point of diversion which was received in the office of the Chief Engineer on February 26, 2018. A request to reduce the rate of diversion for File No. BT 019, of Robert & Evelyn Essmiller, was also submitted with the application. The application for change proposes to add an **additional well** and will be processed under K.A.R. 5-5-16, and to separate ownership.

The referenced water rights are considered in good standing as per K.S.A. 82a-718 and K.S.A. 82a-732.

The applicant worked with Cameron Conant, Assistant Water Commissioner of the Stafford Field Office, and a prior change in place of use was completed for File No. 32,527. The application proposes to unstack File Nos. BT 019 and 32,527, moving File No. 32,527 to an existing well authorized by File No. 16,718. The well currently authorized by the referenced files is located in the Southeast Quarter of the Northwest Quarter of the Southwest Quarter (SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$) approximately 1,910 feet North and 4,340 feet West of the Southeast corner of Section 26, Township 19, Range 14 West, Barton County. The rights are located in the Walnut Creek Basin, but not the Walnut Creek IGUCA Area.

The proposed well is authorized by File No. 16,718, and described as being located in the Northeast Quarter of the Southeast Quarter of the Northwest Quarter (NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$) of Section 26, approximately 3,930 feet to the North and 2,650 feet to the West of the Southeast corner of said section. This proposed well is approximately 2,634 feet to the Northeast of the well presently authorized. It appears the distance the right will move would be acceptable pursuant to GMD No. 5, K.A.R. 5-25-2a, *Change in point of diversion*, maximum of 2,640 feet.

The presently authorized well and the proposed additional well have been classified as Main Stem Alluvium of the Walnut Creek (Code 113). There appears to be no change in the source of supply. A review of the well log for the well located in the Southwest Quarter (SW $\frac{1}{4}$) and currently authorized well is 74 feet with a diameter of 24 inches and depth to water of 14 feet in 1988. The proposed additional well located in the Northwest Quarter (NW $\frac{1}{4}$) authorized by File No. 16,718, has a depth of 67 feet depth and a diameter of 30 inches with a 2018 depth to water of 13 feet. While the proposed well has a larger diameter is shallower, which could be considered to equalize the production and impact on the aquifer. It appears that these wells are hydrologically connected and that the requirements of K.A.R. 5-5-16(b) have been met.

Prior to the requested change for File No. 32,527, a point of diversion change for File No. 16,718, was approved. Water Right, File No. 16,718 was approximately 8,467 feet from the Wet Walnut Creek in Barton County. The March 2018 approved change moved 174 AF at a rate of 1,720 gpm to a point of diversion approximately 9,842 feet away from the creek. The proposed change to File No. 32,527, will move the point of diversion closer to the creek. The currently authorized well is approximately 12,037 feet from the creek. The maximum distance from the creek allowed by K.A.R. 5-5-13, *Relocation of alluvial wells*, would be to a point approximately 10,833 feet from the creek. As stated above the proposed existing well authorized by File No. 16,718, is approximately 9,842 feet from the creek, the change will move the well approximately 991 feet closer than allowed by regulation. Regulation allows 10%, the requested change will move 18% closer. As requested by the applicant the determination indicates a **waiver of K.A.R. 5-5-13**, is applicable to the requested change in point of diversion for File No. 32,527.

A Glover Analysis completed by David Engelhaupt, Engineering Associate, DWR was completed for the requested change. The data indicated a maximum difference in 50 year cumulative stream depletion between the authorized and proposed occurs then the ratio of storativity to transmissivity is 3.40×10^{-5} days/ft². The streamflow depletion factor for the currently authorized location results in a depletion factor of 13.5 years, and at the proposed location in 9 years. He summarized the change would result in a stream depletion of 1 acre-foot over 50 years. This requested change was also evaluated to include the moving of File No. 16,718 away from the creek. The second Glover Analysis, also completed by David Engelhaupt, appears to further support a waiver of K.A.R. 5-5-13. When the data included the change approval for File No. 16,718, moving away and File No. 32,527 moving closer, the data indicated a net increase in streamflow. It appears the Glover Analysis supports a **waiver of K.A.R. 5-5-13, Relocation of alluvial wells.**

A check for nearby wells located within one-half (½) mile of the proposed point of diversion listed by KGS-KDHE indicated that there are no domestic wells and WRIS indicates only the referenced file's well. It would appear that there are no wells located within one-half (½) of the proposed additional well.

The March 2018 place of use changes resulted in File Nos. 16,718 and 32,527, to authorize the same 157.5 acres located near the center of the North Half (N½) of Section 26. The summary memo completed by DWR staff indicates File No. 32,527 developed 25 maximum acres. Utilizing this value for determining the quantity for the consumptive use calculation as required by K.A.R. 5-5-16(a)(2)(C)(i):

$$25 \text{ acres} \times 1.20 \text{ (80\%NIR BT Co)} \div 0.85 = 35.3 \text{ acre-feet.}$$

The 38 acre-feet authorized by File No. 32,527, will be reduced by 2.7 acre-feet, to 35.3 acre-feet to assure consumptive use will not be increased. The applicant acknowledged the reduction in both paragraphs 8 and 14 of the application.

The applicant further requested a rate of 100 gallons per minute be moved with the quantity. It has been determined the 35.3 acre-feet could be diverted in 3 months of continuous pumping. File No. 32,527 has its rate of 1,170 limited to 1,200 gallons per minute with File No. BT 019, which is authorized 1,200 gallons per minute. The submitted reduction request for File No. BT 019, requests to retain 1,100 gallons per minute, allowing 100 gallons per minute to be picked up under File No. 32,527 and the removal of the additional rate limitation. The 35.3 acre-feet can be pumped in 80 days at 100 gallons per minute.

The rate of diversion test as required by K.A.R. 5-5-16(a)(3)(A) was completed on July 19, 2018 by DWR staff. The test indicated an average rate of 1,429 GPM only 20 gpm less than the 2003 test conducted by GMD 5 staff. Both tests exceed the 1,200 authorized by File No. 32,527. He has submitted a log from Dunham Drilling from the 1998 re-drill that shows an estimated rate of 1,200 GPM limitation on File No. 32,527. Based on the applicant's request the proposed existing additional well authorized by File No. 16,718 and 32,527 will have a combined rate of 1,820 gpm. As File No. 32,527 and the well authorized by BT 019 will retain a rate of 1,100 gpm

Summary of irrigation wells in Section 26, Township 19 Range 14 West after approval the reassignment of the quantity and rate are proposed to be:

Well Location & File No.	Authorized		Proposed	
	Quantity, AF	Rate, mgy	Quantity, AF	Rate, mgy
SE NW SW (ID 4)	198	1,200	160	1,100
BT 019	160		160	1,100
32,527	38	Limited with BT 019	Not authorized	
SE NW SW (ID 2)	174	1,720	209.3	1,820
16,718	174	1,720	174	1,720
32,527	Not authorized		35.3	100

Orrin Feril, Manager of the Big Bend Groundwater Management District No. 5 supplied a recommendation on August 17, 2018. His August 16, 2018 letter stated the applications appears to be consistent with KAR 5-25-20(b) and recommended approval with the instillation of well equipment per K.A.R. 5-25-5.

Jeff Lanterman, Water Commissioner of the Stafford City Field Office was notified of the water right owner's intentions. He indicated by E-mail on August 24, 2018, that he has no objection to the approval of the proposed change in point of diversion, reduction, and supports the requested waiver if K.A.R. 5-5-13 in this scenario.

A water flow meter will be required as per K.A.R. 5-5-16(e) and a check valve is required if any chemical or foreign substance is injected through the diversion works. A water level measurement tube will be required by the approval, but a WWC-5 will not need to be submitted as there is one for the March 2018 approval to File No. 16,718. It will be added to the records of File No. 32,527. As per K.A.R. 5-5-16(a)(4), a condition will be placed on the approval that the administrative priority of the additional well will be February 26, 20018 and the approval will contain the jurisdictional wording as required by K.A.R. 5-5-16(f).

No well will be required to be plugged as the well will remain authorized under BT 019.

Based on the above discussion, that the application complies with K.A.R. 5-5-2a, the change is reasonable, that impairment to existing water rights is unlikely, that there are no prior pending applications within the vicinity of this proposed change request that may be affected by this approval and that no change in the local source of supply will occur, it is recommended that the referenced application be approved.



Leslie Ireland
Environmental Scientist
Appropriations

STATE OF KANSAS



DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
FAX: (785) 564-6777

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GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

DAVID D & DOANNA ESSMILLER
DAVID D ESSMILLER REV INTER VIVOS TRUST
66 SW 30 AVE
GREAT BEND KS 67530-9707

September 7, 2018

FILE COPY

RE: Water Right, File No. 32,527

Dear Mr. & Mrs. Essmiller:

Enclosed is the order executed by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the application for change under the referenced file.

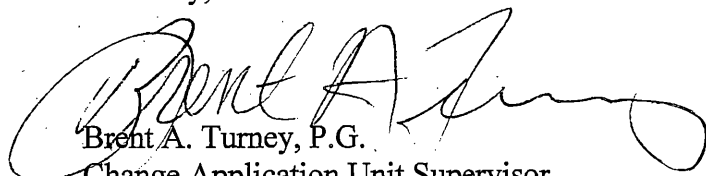
Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in the approval for change. A condition of the approval is that an acceptable water flowmeter must be installed on the diversion works authorized. Please return the required, Notification of the Completion of the Diversion Works, prior to December 31, 2018.

Since this order modifies the original document referred to above, it should be recorded with the Register of Deeds as other instruments affecting real estate.

The application was considered to be adding an additional point of diversion due to the separation of Vested Right, BT 019 and the referenced file, therefor as approved is subject to the condition that for the sole purpose of administering wells concerning direct impairment, the quantity and rate approved as the portion of the additional well shall be considered to have the priority of the date the application was filed (February 26, 2018).

If you have any questions, please contract Leslie Ireland, Environmental Scientist, at (785) 564-6633. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,


Brent A. Turney, P.G.
Change Application Unit Supervisor

BAT:LI:li:

Enclosures

pc: Stafford Field Office
Groundwater Management District No. 5



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

**APPROVAL OF APPLICATION
FOR
CHANGE IN POINT OF DIVERSION
AND
ORDER IN THE MATTER OF THE AUTHORIZED
QUANTITY OF WATER AND RATE OF DIVERSION
WATER RIGHT
FILE NO. 32,527**

The Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, after due consideration of the written application of David D. Essmiller and Deanna Essmiller as Trustees of the Revocable Inter Vivos Trust of David D. Essmiller, 66 SW 30 Avenue, Great Bend, Kansas 67530-9707, received in this office on February 26, 2018, for approval of a change in the location of the point of diversion under the certificate of appropriation issued pursuant to the application for permit to appropriate water for beneficial use, as modified and amended by the Order of the Chief Engineer dated August 2, 1988, approving the application to change the authorized point of diversion, and by the Order of the Chief Engineer dated March 9, 2018, approving the application to change the authorized place of use, finds that the change is reasonable and will not impair existing rights, that the change relates to the same local source of supply and that the application should be and is hereby approved.

This order effectively reduces the maximum rate of diversion to 100 gallons per minute (0.22 c.f.s) and the authorized quantity of water not to exceed 35.3 acre-feet per calendar year.

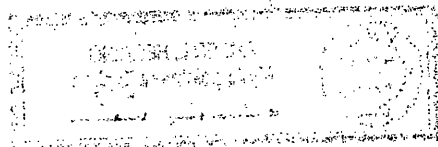
This order effectively removes the additional limitation on the rate of diversion when combined with Vested Right, File No. BT 019, as set forth by the Certificate of Appropriation.

The effective date of the change shall be the date this order is executed by the Chief Engineer, after which the authorized location of the point of diversion shall be:

one(1) well located in the Northeast Quarter of the Southeast Quarter of the Northwest Quarter (NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$) of Section 26, more particularly described as being near a point 3,930 feet North and 2,650 feet West of the Southeast corner of said section, in Township 19 South, Range 14 West, Barton County, Kansas,

located substantially as shown on the topographic map accompanying the application to change the point of diversion.

Installation of the works for diversion of water shall be completed on or before December 31, 2018 or within any authorized extension of time. The applicant shall notify the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, when construction of the works for diversion has been completed.



All wells with a diversion rate of 100 gallons per minute or more drilled under the authority of this order shall have a tube or other device installed in a manner acceptable to, and in accordance with specifications adopted by the Chief Engineer. This tube or device shall be suitable for making water level measurements and shall be maintained in a condition satisfactory to the Chief Engineer.

The water right owner shall properly install an acceptable water meter on the diversion works authorized under this water right, prior to the use of water, in strict accordance with the Kansas Administrative Regulations 5-1-4 through 5-1-12 adopted by the Chief Engineer. The water right owner shall notify the Chief Engineer when installation of the water meter has been completed. The water right owner shall maintain the water meter in an operating condition satisfactory to the Chief Engineer, at all times during diversion of water and shall maintain records from which the total quantity of water diverted may be determined. The water right owner shall also report the reading of said water meter and the total quantity of water diverted annually to the Chief Engineer. Such records shall be furnished to the Chief Engineer by March 1 following the end of each calendar year.

All diversion works shall be equipped with an in-line, automatic, quick-closing check valve capable of preventing pollution of the source of the water supply. The type of valve installed shall meet specifications adopted by the Chief Engineer and shall be maintained in an operating condition satisfactory to the Chief Engineer.

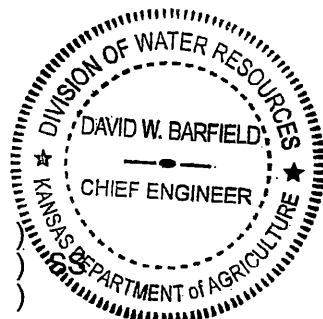
The application, therefore, is approved subject to the condition that for the sole purpose of administering wells concerning direct impairment, the additional well shall be considered to have the priority of the date the application was filed (February 26, 2018) to add the additional well.

In all other respects, the Certificate of Appropriation issued pursuant to Approval of Application, File No. 32,527, for permit to appropriate water for beneficial use, is as stated and set forth in the Certificate of Appropriation dated February 25, 1986, as modified and amended by the aforementioned orders.

Ordered this 31st day of August, 2018, at Topeka, Shawnee County, Kansas.

David W. Barfield

David W. Barfield, P.E.
Chief Engineer
Division of Water Resources
Kansas Department of Agriculture

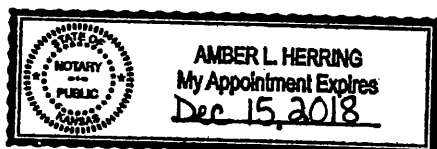


State of Kansas
County of Riley

The foregoing instrument was acknowledged before me this 31st day of August, 2018, by David W. Barfield, P.E., Chief Engineer, Division of Water Resources, Kansas Department of Agriculture.

Amber L. Herring

Notary Public



RIGHT TO A HEARING AND TO ADMINISTRATIVE REVIEW

If you are aggrieved by this Order, then pursuant to K.S.A. 82a-1901, you may:

- 1) request an evidentiary hearing before the Chief Engineer, or
- 2) request administrative review by the Secretary of Agriculture.

Failure to request an evidentiary hearing before the Chief Engineer does not preclude your right to administrative review by the Secretary.

To obtain an evidentiary hearing before the Chief Engineer, a written request for hearing must be filed within 15 days after service of this Order as provided in K.S.A. 77-531 (i.e., **within a total of 18 days after this Order was mailed to you**), with: Kansas Department of Agriculture, Attn: Legal Section, 1320 Research Park Drive, Manhattan, KS 66502, FAX (785) 564-6777.

If you do not file a request for an evidentiary hearing before the Chief Engineer, you may petition for administrative review of the Order by the Secretary of Agriculture. A petition for review shall be in writing and state the basis for requesting administrative review. The request for hearing may be denied if the request fails to clearly establish factual or legal issues for review. See K.S.A. 77-527. The petition must be filed within 30 days after service of this Order as provided in K.S.A. 77-531 (i.e., **within a total of 33 days after this Order was mailed to you**), and be filed with: Secretary of Agriculture, Attn: Legal Division, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, KS 66502, FAX (785) 564-6777.

If neither a request for an evidentiary hearing nor a petition for administrative review is filed as set forth above, then this Order shall be effective and become a final agency action as defined in K.S.A. 77-607(b). Failure to timely request either an evidentiary hearing or administrative review may preclude further judicial review under the Kansas Judicial Review Act.

Any request for a hearing or petition for administrative review shall be in writing and shall be submitted to the attention of : Chief Legal Counsel, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502, Fax: (785) 564 – 6777.


CERTIFICATE OF SERVICE

On this ¹⁴ day of ~~September~~ 2018, I hereby certify that the attached Approval of Application for Change in Point of Diversion, Water Right, File No. 32,527, dated ~~August 31st, 2018~~ was mailed postage prepaid, first class, US mail to the following:

DAVID D ESSMILLER
DAVID D ESSMILLER REV INTER VIVOS TRUST
66 SW 30 AVE
GREAT BEND KS 67530-9707

With a Photocopy to:

Stafford Field Office
Groundwater Management District No. 5


Division of Water Resources

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.

RECEIVED

FEB 19 2018

Stafford Field Office
Division of Water Resources

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

File No. 32,527

Water Resources
Received

2. Name of applicant: David D Essmiller

FEB 26 2018

11:25

KS Dept Of Agriculture

Address: 66 SW 30th Avenue

City, State and Zip: Great Bend, KS 67530

Phone Number: (620)786-0349

E-mail address: essmillerfarms@cox.net

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

Name of water use correspondent: David D Essmiller

Address: 66 SW 30th Avenue

City, State and Zip: Great Bend, KS 67530

Phone Number: (620) 786-0349

E-mail address: essmillerfarms@cox.net

3. The change(s) proposed herein are desired for the following reasons (please be specific): A new, additional well is needed to get rid a point of diversion only overlap with BT-019. BT19 is owned by a different owner and irrigates totally separate land. It is in the interest of the owners to get this separated.

The change(s) (will be) completed by as soon as feasible for the applicant.

(Date)

For Office Use Only:

F.O. 2 GMD 5 Meets K.A.R. 5-5-1 (YES / NO) Use IRR Source GS County BT By AM Date 2-26-18
Code 167 Fee \$ 200 TR # _____ Receipt Date 2-26-18 Check # 6432

APPLICATION COMPLETE

8/17/18

Reviewer LS

SCANNED

Assisted by: CRC-SFFO

3/1/2018 ULM

6. The presently authorized point(s) of diversion is one well, one pump, one motor
(Provide description and number of points)

7. The proposed point(s) of diversion is one well, one pump, one motor (new, additional well)
(Provide description and number of points)

List all presently authorized point(s) of diversion:

8. **Presently authorized point of diversion:**
 One in the SE Quarter of the NW Quarter of the SW Quarter of Section 26, Township 19 South, Range 14 (W), in Barton County, Kansas, 1,910 feet North 4,340 feet West of Southeast corner of section. Authorized Rate 1170 gpm (limited) Authorized Quantity 38 acre-feet
 (DWR use only: Computer ID No. 4 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 NE Quarter of the SE Quarter of the NW Quarter of Section 26, Township 19 South, Range 14 (W), in Barton County, Kansas, 3,930 feet North 2,650 feet West of Southeast corner of section. Proposed Rate 100 gpm Proposed Quantity 35.3 acre-feet
 This point is: Additional Well Geo Center List other water rights that will use this point 16718

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 _____ 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 _____

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. The old well is currently authorized by BT-19. It will continue to be authorized and operate under the authority of BT-19.

4. The presently authorized place of use is:

Owner of Land — NAME: David D Essmiller Revocable INTER VIVOS TRUST

ADDRESS: 66 SW 30th Avenue, Great Bend, KS 67530

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	
26	19S	14W	0.5	33.25	39	6	33.25	0.5	6	39									157.5

List any other water rights that cover this place of use. Water Right, File No. 16,718

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. _____

Water Resources

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

Received

FEB 26 2018

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

Owner of Land — NAME: NO CHANGE

KS Dept Of Agriculture

ADDRESS: NO CHANGE

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. _____

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 MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

FEB 19 2018

12. The presently authorized use of water is for Irrigation purposes.

It is proposed that the use be changed to no changes purposes.

13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.

25 acres x 1.2/0.85 = 35.3AF (based on additional well regulations, this file should be reduced from 38AF to 35.3AF)

(Please show any calculations here.)

14. It is requested that the maximum annual quantity of water be reduced to 35.3 acre-feet (acre-feet or million gallons).

15. It is requested that the maximum rate of diversion of water be reduced to N/A 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.

The proposed well location has been recently re-drilled and a completed well log should be on file for 16718.

The existing well for BT-019 was completed to 75' deep and the newly completed irrigation well should be the same source.

Adequate spacing to nearby wells will be maintained.

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.

K.A.R. 5-5-13 needs further review in headquarters to determine if a waiver is necessary.

We do need to schedule a rate test with GMD#5 or DWR during the pumping season so we can fully determine the

rate that can be split for the additional well and understand the proposed rates may need revised based on the test results.

RECEIVED MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

Water Resources
Received

FEB 19 2018

FEB 26 2018

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 Great Bend, Barton County, Kansas, this 23rd day of January, 2018.

David D Essmiller
(Owner)

David D Essmiller
(Please Print)

(Owner)

(Please Print)

(Owner)

(Please Print)

Deanna Essmiller
(Spouse)

Deanna Essmiller
(Please Print)

(Spouse)

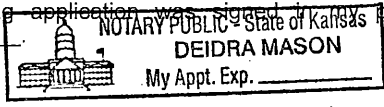
(Please Print)

(Spouse)

(Please Print)

State of Kansas }
County of Barton } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 23rd day of January, 2018.



Deidra Mason
Notary Public

My Commission Expires 10/22/21

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.**

Ireland, Leslie [KDA]

From: Lanterman, Jeff [KDA]
Sent: Friday, August 24, 2018 3:55 PM
To: Ireland, Leslie [KDA]
Cc: Conant, Cameron [KDA]; Saryerwinnie, Tyler [KDA]
Subject: FW: Recommendation for Change in PD, File No. 32,527 & reduction BT 019, Essmiller
Attachments: 32527_ PD unstack to existing addl well_reduc cc_2_5.docx; 32527_5-5-13_1_0.docx

I wanted to see this. →“A Glover-Balmer analysis determination found when both changes were considered, it results in a positive cumulative flow, or an increase of water available in the stream”

A little background Orrin is making a huge deal regarding a small reduction in flow to the river under the Hays change apps over their 60 year of operation model run. I thought this Glover Balmer analysis as a whole might run it through easier through the GMD.

Both Tyler and Cameron have gone over these change applications with me in Depth and it looks like the memo reflects their updates and suggestions.

I recommend approval of the application with a waiver of 5-5-13.

If you have any questions let me know.

Thanks

Jeff

From: Saryerwinnie, Tyler [KDA]
Sent: Friday, August 24, 2018 1:48 PM
To: Lanterman, Jeff [KDA] <Jeff.Lanterman@ks.gov>
Cc: Conant, Cameron [KDA] <Cameron.Conant@ks.gov>
Subject: Recommendation for Change in PD, File No. 32,527 & reduction BT 019, Essmiller

Jeff,

If you recall we processed a set of FO change applications for David Essmiller back in March of 2018. David had filed those applications in the hopes that he could get his equipment set up and the new well installed prior to the irrigation season.

That set of applications involved File Nos. 16718 (PD & PU) along with BT 19 and 32528 (PU). Those applications essentially moved the point of diversion authorized by File No. 16718 south to a point at the center of a proposed pivot system. In order to clean up ownership issues with the City of Great Bend (canal) and his relation (Robert Essmiller), the place of use was modified to drop off ownership and facilitate the new pivot. This application for File No. 32527 was filled out at the same time as the above mentioned applications, but it is filed under the additional well regulation so it needed a test and had to be worked in headquarters.

Currently, File No. 32527 is a pd overlap with File No. BT-19. This application proposes to move the quantity and rate authorized under File No. 32527 (utilizing the additional well regulation) to the new well authorized by File No. 16718. After the consumptive use calculation, they will be moving 35.3 AF out of the authorized 38 AF approximately 2,634 feet

northeast. We were out to test this well and it tested at an average rate of 1,429 gpm, which exceeds the authorized rate of 1,200 gpm for File No. 32527 so rate doesn't seem to be an issue. Please note that a reduction request has also been submitted on BT-19 to reduce the rate of the remaining well to 1,100 gpm.

It appears that a waiver of K.A.R. 5-5-13 is needed since we will be moving quantity and rate closer to Walnut Creek (more than 10% closer). David E. evaluated this move and the potential impact to the stream using the Glover-Balmer Analysis. He also ran another scenario which accounted for the previous pd change for File No. 16718 (Mar. 2018) that moved 174 AF and 1720 gpm away from the Walnut Creek. His analysis indicated a net increase in streamflow when accounting for the changes as a whole. Using the distance from stream footages that David E. used in his analysis, it appears that the change is proposing a move which is about 18% closer to Walnut Creek.

Although there is a lot going on with this set of applications dating all the way back to March, this additional well application seems to be reasonable. The move distance is close to the GMD 5 half mile rule, but I know that Cameron put in a lot of effort to ensure that the owner was aware of how important the well location's accuracy will be. I would think the main issue would be the fact that we are moving quantity closer to the Walnut Creek. However, when you take into consideration the prior change which moved more quantity and rate away from the stream, the waiver can be justified. This seems to be supported by David Engelhaupt's second stream impact analysis.

I will stop by your office today to discuss this in a little more detail and go over a couple of maps. Please let me know if you need any more clarification on any of these points.

Thanks

Tyler Saryerwinnie, Environmental Scientist
Kansas Department of Agriculture
Division of Water Resources
Stafford Field Office
Phone: (620)234-5311

From: Conant, Cameron [KDA]
Sent: Friday, August 24, 2018 9:49 AM
To: Saryerwinnie, Tyler [KDA]
Subject: FW: Recommendation for Change in PD, File No. 32,527 & reduction BT 019, Essmiller

Tyler, please run over this with Jeff today.

From: Ireland, Leslie [KDA]
Sent: Friday, August 24, 2018 9:47 AM
To: Lanterman, Jeff [KDA] <Jeff.Lanterman@ks.gov>
Cc: Conant, Cameron [KDA] <Cameron.Conant@ks.gov>
Subject: Recommendation for Change in PD, File No. 32,527 & reduction BT 019, Essmiller

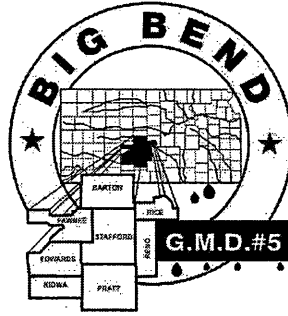
Please let me know if you could recommend this change that needs a waiver of 5-5-13 and the requested reduction.

I've reviewed the numbers with Cameron and thanks to his sharp eye I think they are correct.

As always comments and concerns are welcome.

Leslie Ireland, Environmental Scientist II
Kansas Department of Agriculture
Division of Water Resources - Change Unit
(785) 564-6633
Leslie.Ireland@ks.gov
www.agriculture.ks.gov

Darrell Wood - Edwards (Pres.)
Fred Grunder - Pratt (V Pres.)
John Janssen - Kiowa (Treas.)
Jerry Cullop - Rice (Sec.)
Justin Gatz - Reno
Kent Lamb - Stafford
Phil Martin - Barton
Kerry Froetschner - Pawnee
Tom Taylor - At-Large



Orrin Feril, Manager
125 South Main Street
Stafford, Kansas 67578
ph: (620) 234-5352
fx: (620) 234-5718
gmd5@gmd5.org
www.gmd5.org

August 16, 2018

Leslie Ireland
Division of Water Resources
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, KS 66502

RE: Vested File No. BT-019
Voluntary Reduction &
Water Right File No. 32527
Change in the Point of Diversion

Dear Ms. Ireland,

Big Bend Groundwater Management District #5 has reviewed the above referenced applications to reduce the diversion rate and change the point of diversion. It is the understanding of the District that these changes are intended to clear up ownership for the respective water right files. Based upon information received in the District office, the applications appear to be consistent with 5-25-20(b) and are therefore recommended for approval.

The applications to change are subject to the District's well equipment regulation K.A.R. 5-25-5 for a required flow meter.

Please feel free to give me a call if you have any questions.

Sincerely,

Orrin Feril
Manager

Glover-Balmer analysis for Water Right, File No. 32,527 change

An analysis was performed to evaluate the impact of the change to Water Right, File No. 32,527 on Wet Walnut Creek streamflow. The Glover-Balmer solution was used to estimate the stream depletion fraction under proposed and original scenarios (Table 1) (Glover & Balmer, 1954). In both the proposed and original scenarios it was assumed that both wells are pumped continuously at the authorized rate until the authorized quantity has been diverted.

The maximum difference in 50-year cumulative stream depletion between the proposed and original conditions occurs when the ratio of storativity (S) to transmissivity (T) is 3.40×10^{-5} days/ft² (Figure 1). This corresponds to a streamflow depletion factor (sdf = d^2S/T) of 4926 days, or 13.5 years, for the original location and 3293 days, or 9 years, for the proposed location. The cumulative volume of streamflow depleted after 50 years of pumping for the original and proposed scenarios is 558.25 and 607.47 acre-feet, respectively (Figure 3). Under the assumed conditions the proposed change causes an additional 49.22 acre-feet of stream depletion over the 50 years of pumping. The annual rates of stream depletion in year 50 for the original and proposed conditions are 14.31 and 15.28 acre-feet per year, respectively (Table 2 and Figure 4). The proposed change causes an additional 0.97 acre-feet per year of stream depletion 50 years after pumping begins.

Table 1: Summary of proposed and original scenarios

File and Scenario	Distance from Stream (FT)	Authorized Quantity (AF)	Authorized Rate (GPM)	Pumping days per year
BT 19 & 32,527 (Original)	12,037	198	1200	37
BT 19 (Proposed)	12,037	160	1200	30
32,527 (Proposed)	9,842	35	100	80

Table 2: Rate of stream depletion after 50-years of pumping cycles under proposed and original scenarios

File and Scenario	Rate of depletion (ac-ft/yr)	Rate of depletion as fraction of pumping
BT 19 & 32,527 (Original)	14.31	7.23 %
BT 19 (Proposed)	9.37	5.86 %
32,527 (Proposed)	5.90	16.86 %

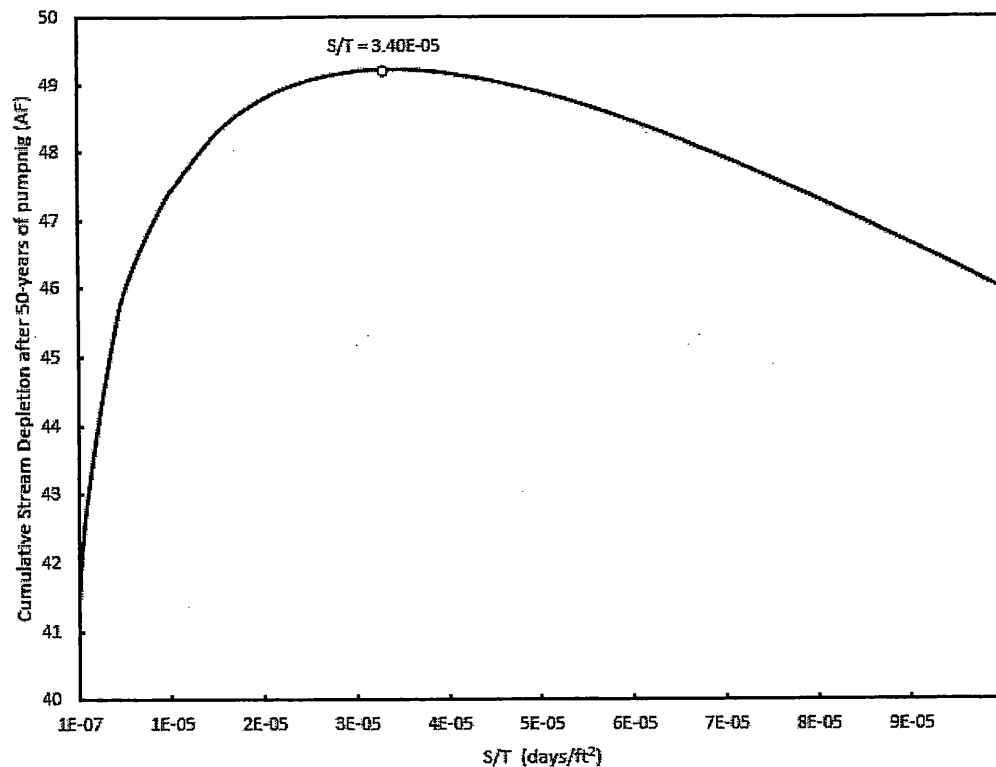


Figure 1: Difference in cumulative streamflow depletion between proposed and original scenarios versus ratio of storativity to transmissivity.

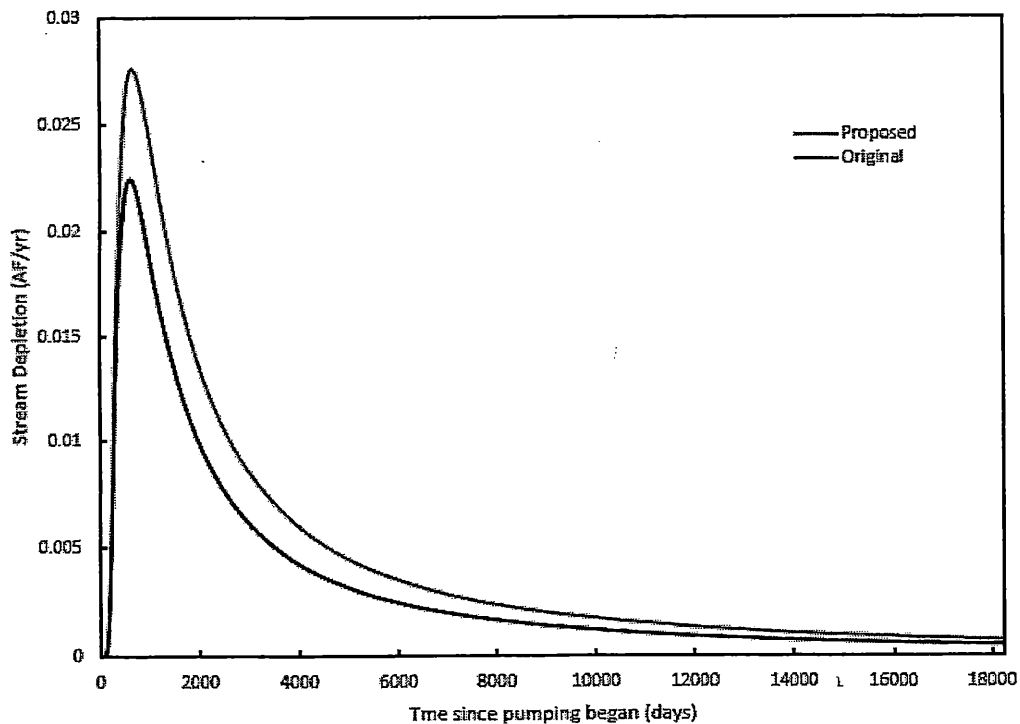


Figure 2: Rate of streamflow depletion for one pumping cycle for proposed and original scenarios.

Glover-Balmer analysis for Water Right, File No. 32,527 change

An analysis was performed to evaluate the impact of the change to Water Right, File No. 32,527 on Wet Walnut Creek streamflow. The Glover-Balmer solution was used to estimate the stream depletion fraction under proposed and original scenarios (Table 1) (Glover & Balmer, 1954). In both the proposed and original scenarios, it was assumed that both wells are pumped continuously at the authorized rate until the authorized quantity has been diverted. When the ratio of storage coefficient to transmissivity is within a reasonable range there is a net increase in streamflow (Figure 1).

Table 1: Summary of proposed and original scenarios

File and Scenario	Distance from Stream (FT)	Authorized Quantity (AF)	Authorized Rate (GPM)	Pumping days per year
BT 19 & 32,527 (Original)	12,037	198	1,200	37
16,718 (Original)	8,467	174	1,720	23
BT 19 (Proposed)	12,037	160	1,100	33
16,718 & 32,527 (Proposed)	9,842	209	1,820	26

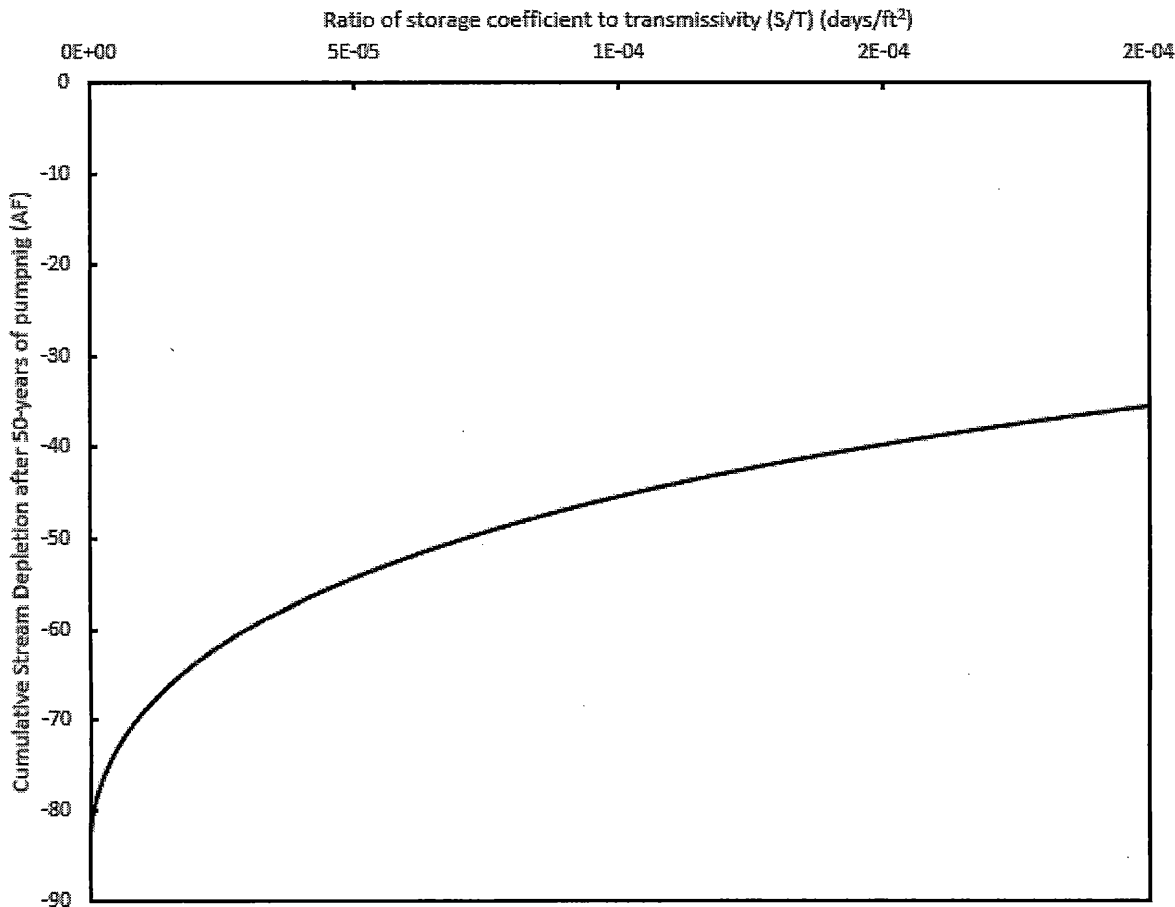


Figure 1: Difference in cumulative streamflow depletion after 50-years of pumping cycles between proposed and original scenarios versus ratio of storativity to transmissivity.

References

Glover, R. E., & Balmer, C. G. (1954). River depletion resulting from pumping a well near a river. *American Geophysical Union Transactions*, 35(3), 468-470.

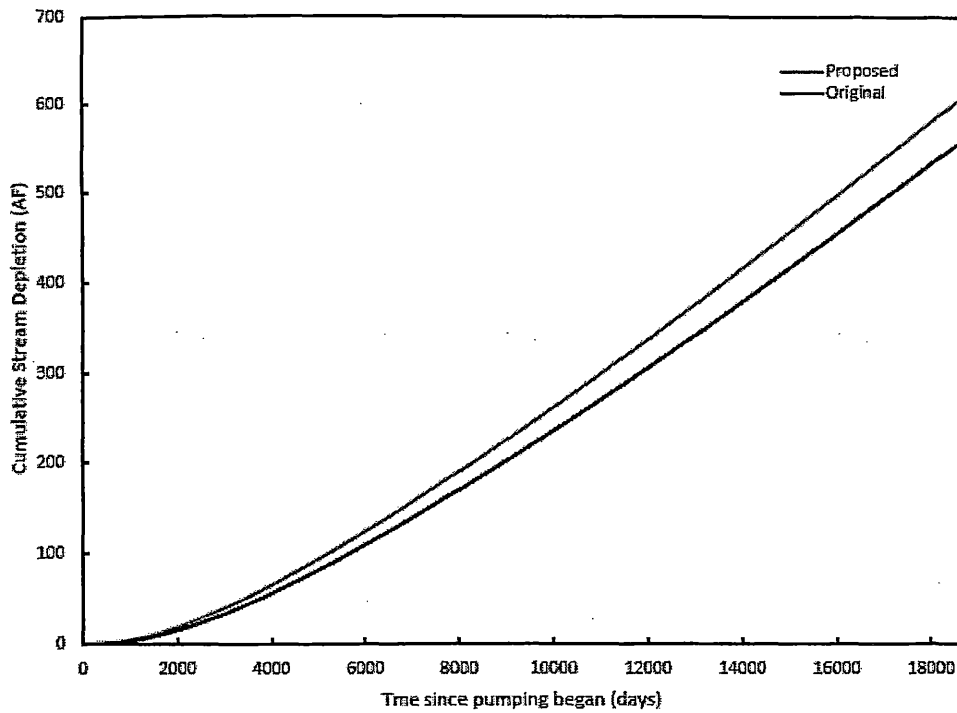


Figure 3: Cumulative streamflow depletion for 50-years of pumping cycles of proposed and original scenarios

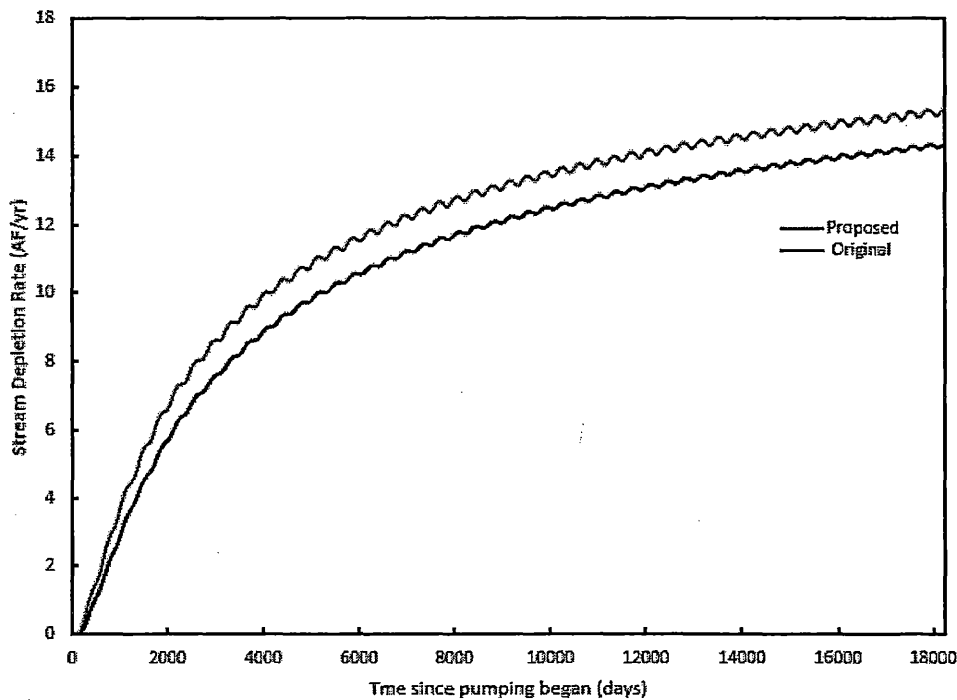


Figure 4: Streamflow depletion rate for 50-years of pumping cycles of proposed and original scenarios

References

Glover, R. E., & Balmer, C. G. (1954). River depletion resulting from pumping a well near a river. *American Geophysical Union Transactions*, 35(3), 468-470.

Darrell Wood - Edwards (Pres.)
Fred Grunder - Pratt (V Pres.)
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Justin Gatz - Reno
Kent Lamb - Stafford
Phil Martin - Barton
Kerry Froetschner - Pawnee
Tom Taylor - At-Large



Orrin Feril, Manager
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fx: (620) 234-5718
gmd5@gmd5.org
www.gmd5.org

August 16, 2018

Leslie Ireland
Division of Water Resources
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, KS 66502

RE: Vested File No. BT-019
Voluntary Reduction &
Water Right File No. 32527
Change in the Point of Diversion

Dear Ms. Ireland,

Big Bend Groundwater Management District #5 has reviewed the above referenced applications to reduce the diversion rate and change the point of diversion. It is the understanding of the District that these changes are intended to clear up ownership for the respective water right files. Based upon information received in the District office, the applications appear to be consistent with 5-25-20(b) and are therefore recommended for approval.

The applications to change are subject to the District's well equipment regulation K.A.R. 5-25-5 for a required flow meter.

Please feel free to give me a call if you have any questions.

Sincerely,

Orrin Feril
Manager

WATER RESOURCES
RECEIVED

AUG 17 2018

KS DEPT OF AGRICULTURE

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
FAX: (785) 564-6777



900 SW JACKSON, ROOM 456
TOPEKA, KS 66612
PHONE: (785) 296-3556
www.agriculture.ks.gov

GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

August 3, 2018

BIG BEND GROUNDWATER
MANAGEMENT DISTRICT #5
ORRIN FERIL MANAGER
125 S MAIN ST
STAFFORD KS 67578

Re: Application for Change, Water Right, File No. 32,527
Reduction Request, Vested Right, File No. BT-019

Dear Mr. Feril:

We are enclosing a copy of the application and reduction request referred to above which appear to be in proper form. In addition to the application, enclosed please find a Glover-Balmer analysis indicating a stream depletion of approximately one foot after fifty years of pumping the proposed change in point of diversion.

We are delaying any further action for a period of 15 days from the date of this letter to allow you time to submit your recommendations concerning this application.

Please submit your recommendation within the allotted time, or any authorized extension of time thereof. If you wish to refer to a specific file, please reference it when you contact us.

Sincerely,

Leslie Ireland
Environmental Scientist
Water Appropriation Program

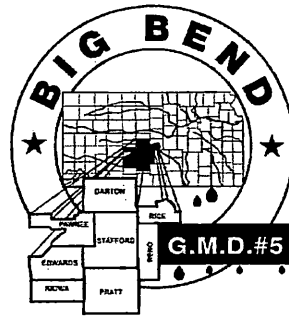
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Enclosure

pc: Stafford Field Office
David Essmiller

FILE COPY

Darrell Wood - Edwards (Pres.)
Fred Grunder - Pratt (V Pres.)
John Janssen - Kiowa (Treas.)
Jerry Cullop - Rice (Sec.)
Justin Gatz - Reno
Kent Lamb - Stafford
Phil Martin - Barton
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Orrin Feril, Manager
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Stafford, Kansas 67578
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gmd5@gmd5.org
www.gmd5.org

August 10, 2018

Richelle Krueger
Division of Water Resources
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, KS 66502

Re: Vested Right File No. BT019
Water Right File No. 32527

Dear Ms. Krueger,

The Big Bend Groundwater Management District #5 requests a thirty-day extension on the above referenced application in order to be reviewed at the September board meeting. Due to the number of change applications being considered at the August board meeting, these applications need to be considered at next month's board meeting.

Sincerely,

Orrin Feril
Manager

c: DWR – Stafford Field Office

Water Resources
Received
AUG 13 2018
KS Dept Of Agriculture

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
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GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

August 13, 2018

BIG BEND GROUNDWATER
MANAGEMENT DISTRICT #5
ORRIN FERIL MANAGER
125 S MAIN ST
STAFFORD KS 67578

Re: Application for Change, Water Right, File No. 32,527
Reduction Request, Vested Right, File No. BT 019

Dear Mr. Feril:

In response to your email dated August 10, 2018, the Chief Engineer has extended the initial time in which to submit recommendations concerning the requested change and reduction.

At your request we will delayed any action until September 17, 2018.

Please submit your recommendation within the allotted time, or any authorized extension of time thereof. If you wish to refer to a specific file, please reference it when you contact us.

Sincerely,

Leslie Ireland
Environmental Scientist
Water Appropriation Program

LI:li
Enclosure

pc: Stafford Field Office
David Essmiller

FILE COPY

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
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GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

August 13, 2018

BIG BEND GROUNDWATER
MANAGEMENT DISTRICT #5
ORRIN FERIL MANAGER
125 S MAIN ST
STAFFORD KS 67578

Re: Application for Change, Water Right, File No. 32,527
Reduction Request, Vested Right, File No. BT 019

Dear Mr. Feril:

In response to your email dated August 10, 2018, the Chief Engineer has extended the initial time in which to submit recommendations concerning the requested change and reduction.

At your request we will delayed any action until September 17, 2018.

Please submit your recommendation within the allotted time, or any authorized extension of time thereof. If you wish to refer to a specific file, please reference it when you contact us.

Sincerely,

Leslie Ireland
Environmental Scientist
Water Appropriation Program

LI:li
Enclosure

pc: Stafford Field Office
David Essmiller

Water Rights and Points of Diversion Within 1.25 miles of point defined as:
 3930 ft N and 2650 ft W of the SE Corner of Section 26, T 19S, R 14W
 Located at: 98.838649 West Longitude and 38.372516 North Latitude
 GROUNDWATER ONLY

FILE NO. 32527
PROPOSED POINT OF DIVERSION

File Number	Use	ST	SR	Dist	(ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Tw	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit
A__	288	00	IRR	NK	G	4749	--	NW	NW	SW	2630	5180	23	19	14W	6	300.00	300.00	AF
A__	298	00	IRR	NK	G	3708	--	NW	SW	SW	-----	-----	24	19	14W	1	105.00	105.00	AF
A__	5085	00	IRR	NK	G	2755	--	CW	NW	NW	4616	5291	25	19	14W	2	114.00	114.00	AF
A__	6338	00	IRR	NK	G	6474	--	NE	SW	NE	3450	1500	25	19	14W	9	33.00	33.00	AF
A__	9847	00	IRR	NK	G	3592	--	NC	N2	SW	2001	3906	23	19	14W	7	266.00	.00	AF
A__	12086	00	IRR	NK	G	3708	--	NW	SW	SW	-----	-----	24	19	14W	1	189.00	93.00	AF
Same						4648	--	SE	NW	SW	-----	-----	24	19	14W	2			
A__	16596	00	IRR	NK	G	6584	--	SE	NW	NW	4000	3980	27	19	14W	1	234.00	234.00	AF
A__	16718	00	IRR	NK	G	0	--	NE	SE	NW	3930	2650	26	19	14W	7	174.00	174.00	AF
A__	16896	00	IRR	NK	G	6474	--	NE	SW	NE	3450	1500	25	19	14W	9	51.00	51.00	AF
A__	19083	00	IRR	NK	G	6086	--	NW	SW	SE	745	2145	24	19	14W	5	39.00	39.00	AF
A__	20481	00	IRR	NK	G	4587	--	NE	SW	NE	3760	1980	27	19	14W	2	57.00	57.00	AF
A__	25881	00	IRR	NK	G	4340	--	SE	SW	NE	2970	1950	23	19	14W	4	114.00	50.00	AF
A__	28434	00	IRR	NK	G	5480	--	--	NC	NW	3894	4013	35	19	14W	3	168.00	168.00	AF
A__	28773	00	IRR	NK	G	2755	--	CW	NW	NW	4616	5291	25	19	14W	2	6.00	6.00	AF
Same						3928	--	CW	SW	SW	1021	5305	25	19	14W	13	285.00	285.00	AF
A__	32527	00	IRR	NK	G*	<u>2634</u>	--	SE	NW	SW	1910	4340	26	19	14W	4	38.00	38.00	AF
A__	32528	00	IRR	NK	G	3336	--	NE	SW	SW	1025	4290	26	19	14W	3	130.00	130.00	AF
A__	36379	00	IND	NK	G	6307	--	SW	NE	NE	4225	1304	34	19	14W	2	.01	.01	AF
A__	36604	00	IND	NK	G	6322	--	SW	NE	NE	4206	1305	34	19	14W	3	1.66	1.66	AF
A__	36605	00	IND	NK	G	6315	--	SW	NE	NE	4215	1305	34	19	14W	4	1.66	1.66	AF
A__	36606	00	IND	NK	G	6308	--	SW	NE	NE	4224	1305	34	19	14W	5	1.66	1.66	AF
A__	36955	03	STK	NK	G	4764	--	NE	NE	NW	4815	3278	25	19	14W	10 G 2	75.99	75.99	AF
Same						4780	--	NE	NE	NW	4824	3263	25	19	14W	11 B 2			
Same						4748	--	NE	NE	NW	4805	3292	25	19	14W	12 B 2			
A__	46876	00	IRR	KK	G	5767	--	SW	NW	NW	4106	5280	36	19	14W	14*	15.00	15.00	AF
VBT	18	00	IRR	AA	G	4749	--	NW	NW	SW	2630	5180	23	19	14W	6	100.00	100.00	AF
VBT	19	00	IRR	AA	G	2634	--	SE	NW	SW	1910	4340	26	19	14W	4	160.00	160.00	AF

ENSURE WELL

DISTANCE TO MILE

RIGHT TO REMAIN

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	.00	.00
Total Permitted Amount (AF) =	15.00	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	1957.98	.00
Total Vested Amount (AF) =	260.00	.00
TOTAL AMOUNT (AF) =	2232.98	.00

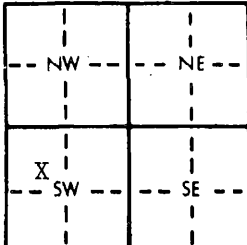
An * after the source of supply indicates a pending application for change for the file number.
 An * after the ID indicates a 15 AF exemption was granted for the file number.
 A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery.
 The number in the Batt column is the number of wells in the battery.

Water Rights and Points of Diversion Within 1.25 miles of point defined as:
 98.838649 West Longitude and 38.372516 North Latitude
 GROUNDWATER ONLY
 WATER USE CORRESPONDENTS:

1 LOCATION OF WATER WELL: Fraction SE 1/4 NW 1/4 SW 1/4 Section Number 26 Township Number T 19 S Range Number R 14 SW
 County: Barton Distance and direction from nearest town or city street address of well if located within city?

Approx. 1 3/4 Mi. west and 1/4 mi. north of Great Bend

2 WATER WELL OWNER: Essmiller Farms - c/o Jay D. Essmiller Board of Agriculture, Division of Water Resources
 RR#, St. Address, Box #: 712 Taft Application Number: 32,527/BT 019
 City, State, ZIP Code: Great Bend, KS 67530

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:  4 DEPTH OF COMPLETED WELL: 75 ft. ELEVATION: unknown
 Depth(s) Groundwater Encountered 1. 14 ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL: 14 ft. below land surface measured on mo/day/yr 6/12/88
 Pump test data: Well water was not ck'd ft. after hours pumping gpm
 Est. Yield 1200 gpm: Well water was ft. after hours pumping gpm
 Bore Hole Diameter: 24 in. to 75 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

5 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 42 ft., Dia in. to 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
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify)
 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) a) Doerr Bridge Slot b) Johnson Agri-Screen
 SCREEN-PERFORATED INTERVALS: From a) 42 ft. to 54 ft., From ft. to ft.
 From b) 54 ft. to 74 ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 20 ft. to 74 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: a) 1 Neat cement 2 Cement grout b) 3 Bentonite 4 Other
 Grout intervals: From a) 0 ft. to 19 ft., From b) 19 ft. to 20 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 none known
 Direction from well? XXX How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	6	Topsoil & clay, brown w/streak of gravel @ 6'			
6	13	Clay, black			
13	30	Sand & gravel, fine to med. to coarse			
30	49	Sand & gravel, very fine to fine			
49	75	Sand & gravel, med. to fine w/thin clay streaks @ 40', 49' and 57'			
75		Clay, tan			

7 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) 6/12/88 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) 6/17/88 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.

DIA 24" Well DEPTH 74' SWL 14'

OFFICE USE ONLY
T
R
EW
SEC.

PROPOSED WELL FILE NO. 32,527.

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

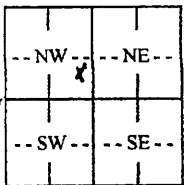
16,718

Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Barton	Fraction ¼ NE ¼ SE ¼ NW ¼	Section Number 26	Township Number T 19 S	Range Number R 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
--	------------------------------	----------------------	---------------------------	---

2 WELL OWNER: Last Name: Essmiller First: David Business: Address: 66 SW 30th Avenue Address: City: Great Bend State: KS ZIP: 67530	Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input checked="" type="checkbox"/> 1 West of Great Bend
--	--

3 LOCATE WELL WITH "X" IN SECTION BOX: N  W E S 1 mile	4 DEPTH OF COMPLETED WELL: 67 ft. Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 13 ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) 3-13-18 <input type="checkbox"/> above land surface, measured on (mo-day-yr) Pump test data: Well water was ft. after hours pumping gpm Well water was ft. after hours pumping gpm Estimated Yield: gpm Bore Hole Diameter: 30 in. to 67 ft. and in. to ft.	5 Latitude: 38.3725 (decimal degrees) Longitude: 98.8392 (decimal degrees) Horizontal Datum: <input type="checkbox"/> WGS 84 <input checked="" type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input checked="" type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper:
6 Elevation: ft. <input type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input type="checkbox"/> Land Survey <input checked="" type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other		

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock	2. <input checked="" type="checkbox"/> Irrigation	3. <input type="checkbox"/> Feedlot	4. <input type="checkbox"/> Industrial	5. <input type="checkbox"/> Public Water Supply: well ID	6. <input type="checkbox"/> Dewatering: how many wells?	7. <input type="checkbox"/> Aquifer Recharge: well ID	8. <input type="checkbox"/> Monitoring: well ID	9. Environmental Remediation: well ID	10. <input type="checkbox"/> Oil Field Water Supply: lease	11. Test Hole: well ID	12. Geothermal: how many bores?	13. <input type="checkbox"/> Other (specify):
											a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted:

Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other **CASING JOINTS:** Glued Clamped Welded Threaded

Casing diameter 16 in. to 67 ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface 18 in. Weight Sch. 40 lbs./ft. Wall thickness or gauge No.

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)

Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify)

Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 67 ft. to 33 ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 67 ft. to 20 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout Intervals: From ft. to ft., From 20 ft. to 0 ft., From ft. to ft.

Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify) None

Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	Top soil			
2	7	Brown clay			
7	15	Gravel- med to pea size clean coarse			
15	30	Gravel- pea size to big clean			
30	52	Gravel- small med clean coarse			
52	52.5	Tan clay			
52.5	64	Gravel- smal med clean coarse			Notes:
64	67	Tan clay			

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 4-30-18 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 134 This Water Well Record was completed on (mo-day-year) 5-14-18 under the business name of Rosencrantz, Bemis, Ent. Inc. Signature: Dana Depp

Mail 1 white copy along with a fee of \$5.00 for each constructed well to: Kansas Department of Health and Environment, Bureau of Water, GWTS Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your records. Telephone 785-296-5524. Visit us at <http://www.kdheks.gov/waterwell/index.html> KSA 82a-1212 Revised 7/10/2015

30" DIA. TOTAL DEPTH 67' SWL 13'
STEM ALLUVIUM CODE (113)

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



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

Secretary Jackie McClaskey

Governor Jeff Colyer, M.D.

DAVID ESSMILLER
66 SW 30TH AVE
GREAT BEND, KS 67530

February 28, 2018

RE: File No 32527

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 PD
- 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.

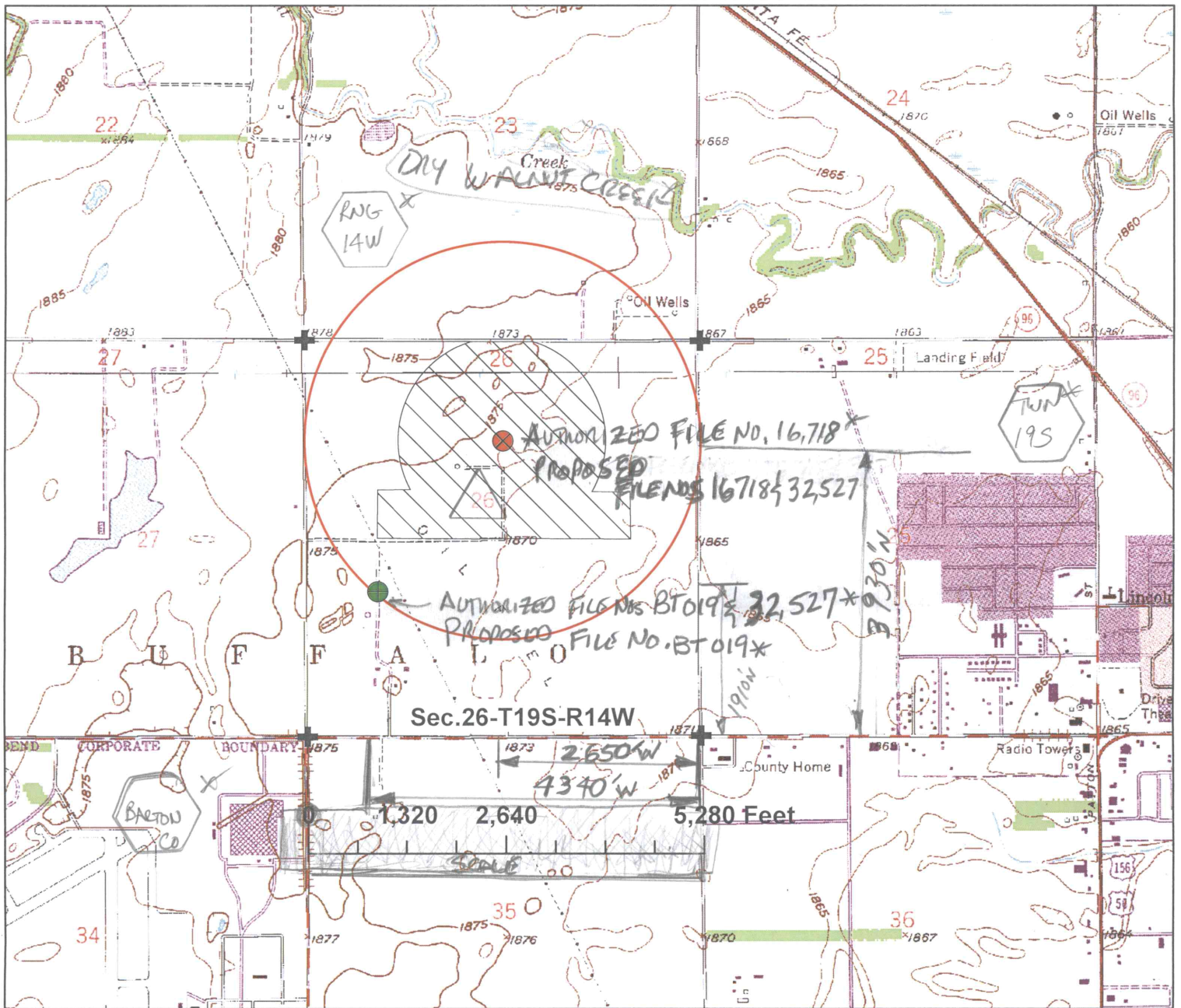
Sincerely,

A handwritten signature in cursive script that reads "Brent A. Tourney".

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

BAT: DLW
pc: STAFFORD Field Office GMD5

Headquarters P/D Change Application Map, File No. 32,527
Sec.26-T19S-R14W in Barton County



- authorized P/D 1,910' N & 4,340'W (overlap w/ BT-19)
- ⊗ proposed P/D 3,930' N & 2,650' W (overlap w/ 16718)
- currently authorized place of use covering 157.5 acres
- + section corners ○ 1/2 mile circle around proposed P/D

-NEARBY WELLS-

BT-019 (currently auth well)
 Robert H Essmiller
 380 W Barton County RD
 Great Bend, KS 67530

**LI/Dwn 5/16/18-*



**Water Resources
 Received**

FEB 26 2018

KS Dept Of Agriculture

RECEIVED

FEB 19 2018

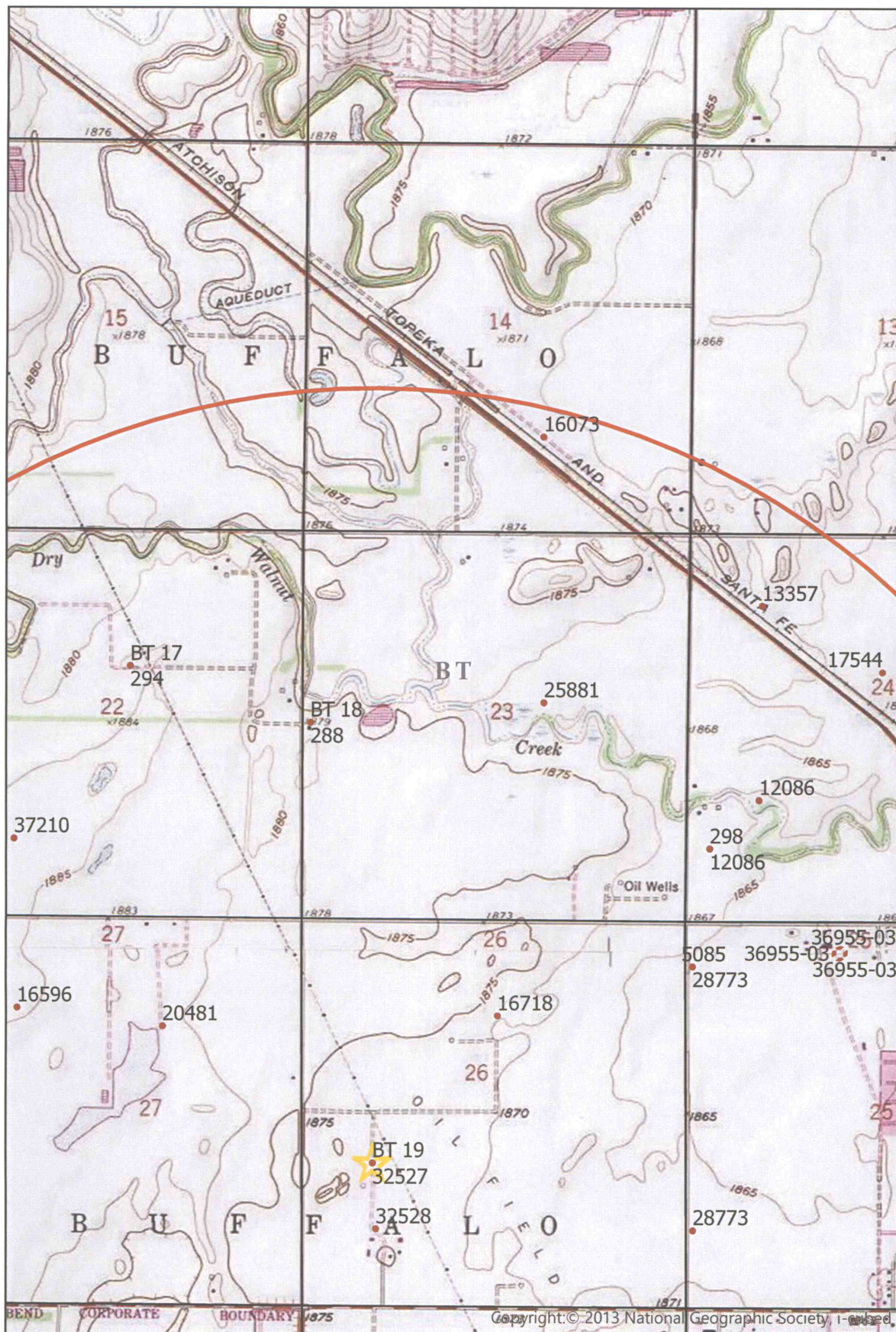
1 inch = 2,000 feet

David Essmiller *1/20/2018*

signature

date

File No. 32527 Change in Point of Diversion

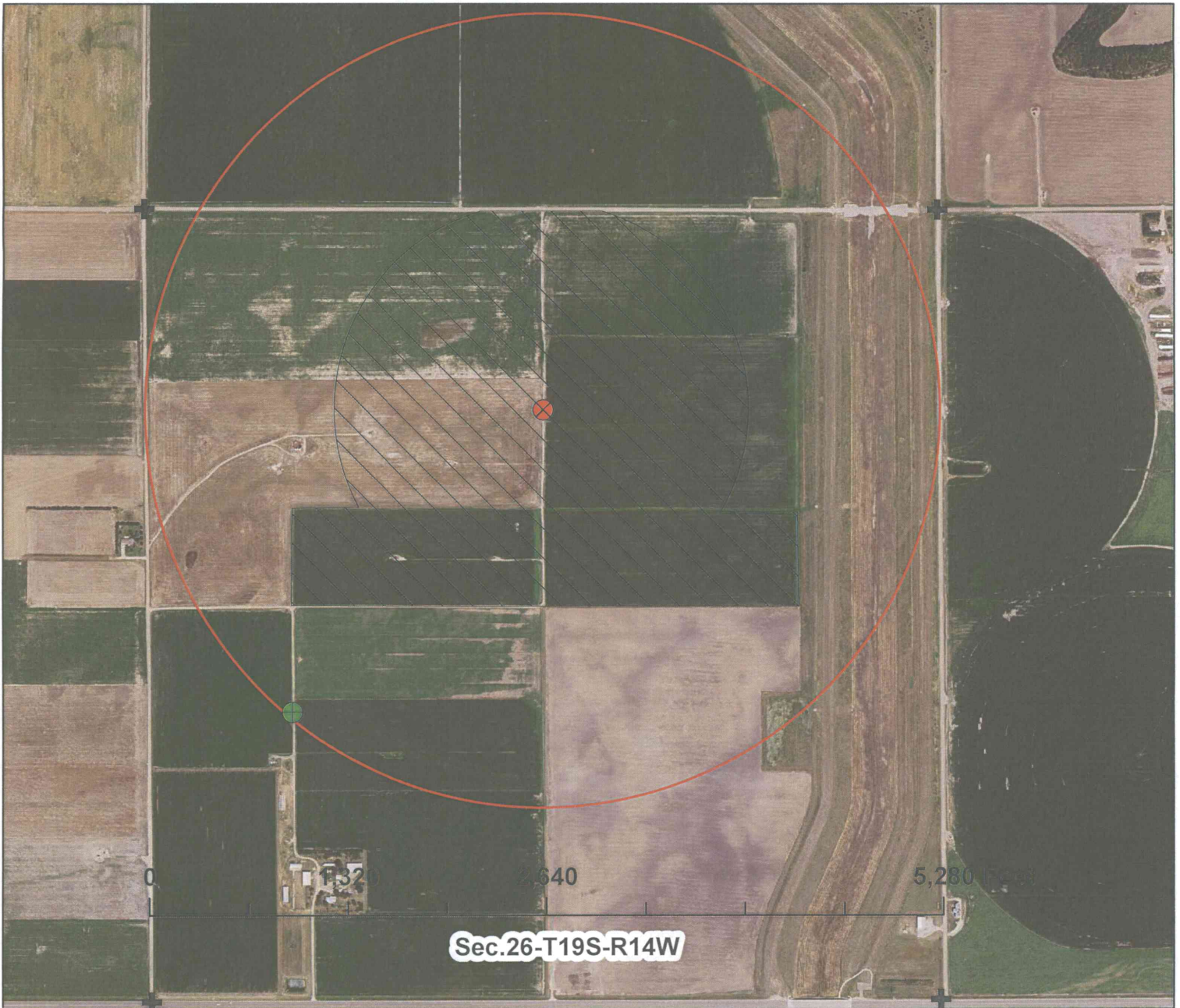







- WrisSearchBufferPoi
- WIMAS_PD
- S_UMW
- G_CON
- G_DEW
- G_DOM
- G_IND
- G_IRR
- G_MUN
- G_STK
- S_IND
- S_IRR
- WrisSearchBuffer
- PLSS_TWN.lyrx
- PLSS_Section.lyrx
- County.lyrx



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Headquarters P/D Change Application Map, File No. 32,527
Sec.26-T19S-R14W in Barton County



-  authorized P/D 1,910' N & 4,340'W (overlap w/ BT-19)
-  proposed P/D 3,930 'N & 2,650' W (overlap w/ 16718)
-  currently authorized place of use covering 157.5 acres
-  section corners  1/2 mile circle around proposed P/D

-NEARBY WELLS-

BT-019 (currently auth well)
 Robert H Essmiller
 380 W Barton County RD
 Great Bend, KS 67530



**Water Resources
 Received**

FEB 26 2018

KS Dept Of Agriculture

By signing below I agree that all wells, including domestic, within 1/2 mile of the point of diversion have been shown on the map.

David Essmiller 1/20/2018

RECEIVED

FEB 19 2018

1 inch = 1,000 feet

signature

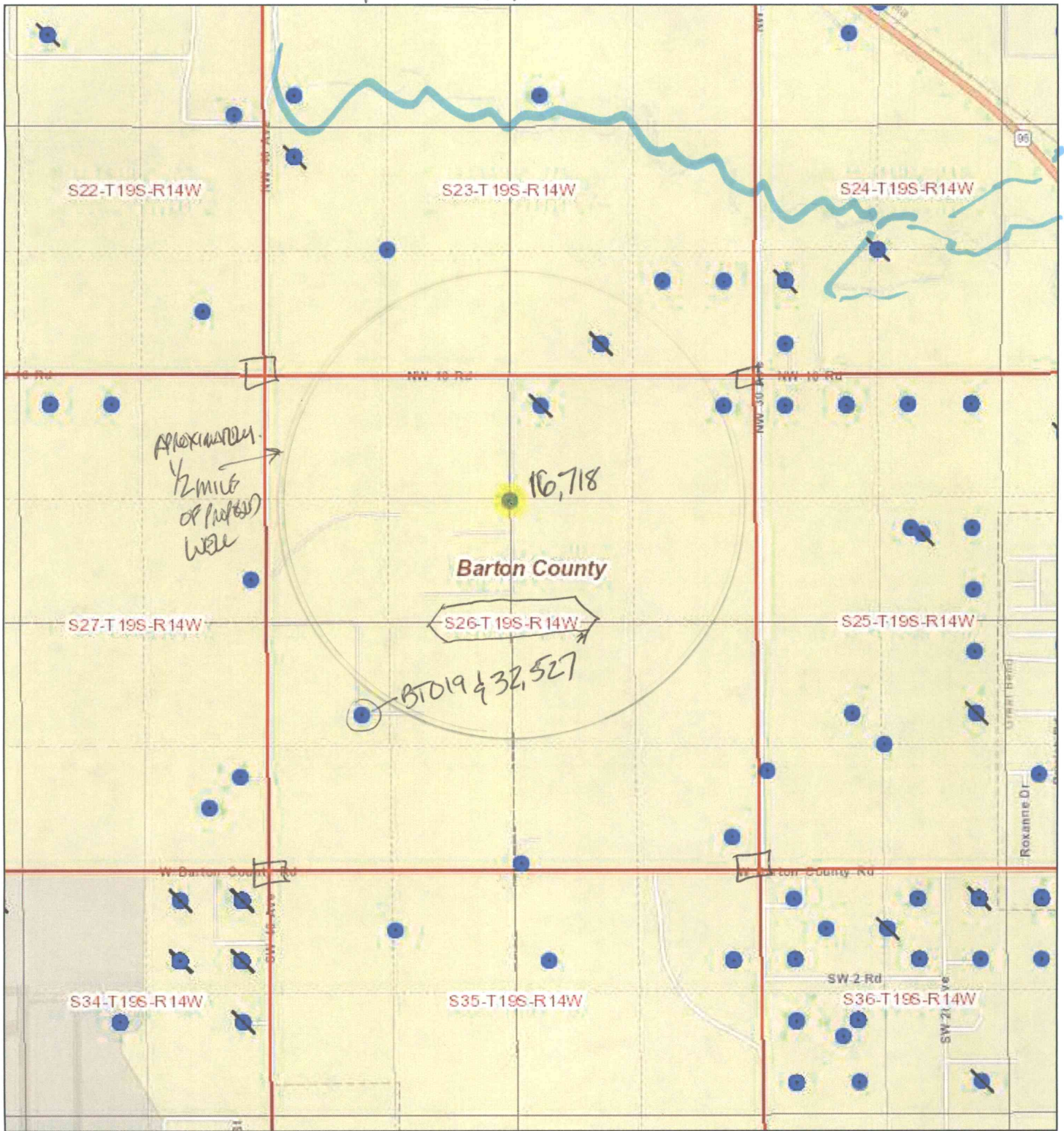
date

Stafford Field Office
 Division of Water Resources

map created on 1/9/18 scale 1:12,000

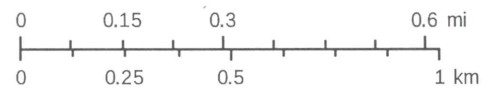
SCANNED

FILE NO 32,527 NEARBY CONFIRMATION



August 6, 18

1:18,056



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community