

Kansas Department of Agriculture
Division of Water Resources
CHANGE: P/D WORKSHEET

Document Signature LPL

1. File Number: <p style="text-align: center;">39287</p>	2. Status Change Date: <p style="text-align: center;">6/22/2017</p>	3. Change Num: <p style="text-align: center;">C4</p>	4. Field Office: <p style="text-align: center;">01</p>	5. GMD:
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: <p style="text-align: center;">11/2/2016</p>
8a. Applicant(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____ SUBURBAN WATER INC TRAVIS J MILES PRESIDENT/CEO PO BOX 588 BASEHOR KS 66007		8c. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____		
8b. Landowner(s) New to system <input type="checkbox"/> Person ID <u>24951</u> Add Seq# <u>1</u> SUBURBAN WATER INC 1216 N 155TH ST PO BOX 588 BASEHOR KS 66007		8d. WUC New to system <input type="checkbox"/> Person ID _____ Add Seq# _____ No change 8B		
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: <u>12/31/17</u> <input checked="" type="checkbox"/> N & P Date to Comply: <u>12/31/17</u>				
<input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input checked="" type="checkbox"/> Water Tube <input checked="" 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: 2/16/2017 By: LI Date Entered: 6/26/2017 By: UM				

File No	39287	11. County: LV	Basin KANSAS RIVER	Stream: NA	Formation Code: 632	Special Use:
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12. Points of Diversion										Rate and Quantity				
MOD DEL ENT	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment	Authorized		Additional		Overlap PD Files
										Rate gpm	Quantity MGY	Rate gpm	Quantity MGY	
ENT	86197	SE SE NW	22	11	22 E		2696	2792		200	30	200	30	41844 42733
DEL	42248	SE SE NW	22	11	22 E 2		2656	2995	BATT 2 of 4 wells					
DEL	48025	SE SE NW	22	11	22 E 4		2886	2841	BATT 3 of 4 wells					
DEL	47242	SE SE NW	22	11	22 E 7		2864	3040	BATT 4 of 4 wells					
DEL	31354	SE SE NW	22	11	22 E 1		2772	2924	Geo BATT					
DEL	49282	SE SE NW	22	11	22E 3		2862	2821	BATT 1 of 4 wells					

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

14. Limitation: _____ Limitation: _____ 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										NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
MOD DEL ENT	PUSE	S	T	R	ID	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE								
						¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼								
No changes to pu																													

Comments *GW monitoring well*

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files

DATE: June 20, 2017

FROM: Brent A. Turney

RE: Water Right
File No. 39,287
Appropriation of Water
File Nos. 41,844 and 42,733

Applications to change the authorized point of diversion have been filed under the above referenced water rights. The applications propose to change the existing battery of four wells under File Nos. 39,287 and 41,844 and the single well authorized under Appropriation of water File No. 42,733, to a new single well.

There is one municipal well and numerous domestic wells, located within one half mile of the proposed point of diversion. Because the change is proposing a move of less than 300 feet, no notices were sent. Comments were received from Leavenworth County Rural Water District No. 7 opposing to the change to a single well. All of the submitted information was reviewed by John Munson, Environmental Scientist, DWR, and it was found that converting the existing battery of four wells and the single well to one well should not cause impairment to Rural Water District No. 7 Leavenworth County.

The source of supply for the existing well appears to be the Stranger formation, there should be no change in the local source of supply.

In an e-mail dated June 20, 2017, Katie Tietsort, Water Commissioner of the Topeka Field Office, recommended approval of the applications.

A water flow meter will be required on each point of diversion. A check valve will be required if any chemical or foreign substance is injected into the water through the diversion works.

Based on the above discussion, that the change is reasonable, that impairment to existing water rights is unlikely, that no change in the local source of supply will occur, it is recommended that the referenced applications be approved.


Brent A. Turney
Change Application Unit Supervisor

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

June 26, 2017

SUBURBAN WATER INC
TRAVIS MILES
PO BOX 588
BASEHOR KS 66007

FILE COPY

RE: Water Right
File No. 39,287
Appropriation of Water
File Nos. 41,844 and 42,733

Dear Mr. Miles:

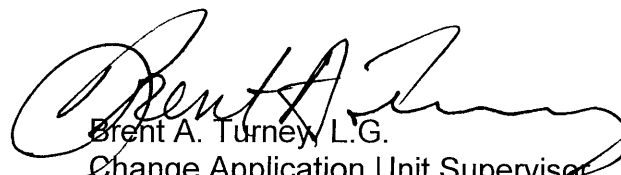
Enclosed are the orders executed by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the applications for change under the above referenced file numbers.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in the approvals for change. A condition of the approvals is that an acceptable water flow meter must be installed on the diversion works authorized under the referenced file numbers. Please return the required notification of completion of the diversion works and installation of the required meters as soon as these actions are completed.

Since the order under Water Right, File No. 39,287, modifies the original certificate, it should be recorded with the Register of Deeds as other instruments affecting real estate.

If you have any questions, please contact this office. 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 L.G.
Change Application Unit Supervisor
Water Appropriation Program

BAT
Enclosures
pc: Topeka Field Office

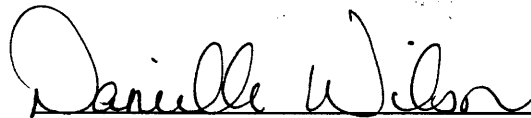
CERTIFICATE OF SERVICE

On this *20th* day of *June*, 2017, I hereby certify that the attached Approval of Application for Change in Point of Diversion under Appropriation of Water, File No. 39,287, dated *June 22nd, 2017* was mailed postage prepaid, first class, US mail to the following:

Suburban Water, Inc.
Travis J. Miles, President / CEO
1216 N. 155th St
PO Box 588
Basehor, KS 66007- 0588

With photocopies sent to:

Topeka Field Office



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.

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

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

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NOV 02 2016

12:48
KS DEPT OF AGRICULTURE

File No. 39287-00

2. Name of applicant: Suburban Water, Inc.

Address: PO Box 588

City, State and Zip: Basehor, Kansas 66007

Phone Number: (913) 724-1800 E-mail address: travis@suburbanwaterinc.com

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

Name of water use correspondent: Travis J Miles

Address: PO Box 588

City, State and Zip: Basehor, Kansas 66007

Phone Number: (913) 238-0040 E-mail address: travis@suburbanwaterinc.com

3. The change(s) proposed herein are desired for the following reasons (please be specific): Consolidated 3 water rights into 1 single point of diversion. Completion of 1 single municipal water well.

The change(s) (was) (will be) completed by December 31st, 2016
(Date)

For Office Use Only:	
F.O. <u>1</u> GMD <u>0</u> Meets K.A.R. 5-5-1 (YES/NO) Use <u>MVN</u> Source <u>G/S</u> County <u>W</u> By <u>AW</u> Date <u>11/2/16</u>	Code <u>CLT</u> Fee \$ <u>10⁰⁰</u> TR # <u>17010515</u> Receipt Date <u>11/2/16</u> Check # <u>1419</u>

11/7/2016 UM

APPLICATION COMPLETE
2-15-17
Reviewed: EF/awr

Assisted by: _____

SCANNED

4. The presently authorized place of use is:

Owner of Land — NAME: Grace Meadows, LLC.
 ADDRESS: 16821 158th St., Banner Springs, KS 66012-7246

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	
22	11	22E		X														43	

List any other water rights that cover this place of use. 42733 + 41844

Owner of Land — NAME: _____
 ADDRESS: _____

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

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

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

5. It is proposed that the place of use be changed to: No change

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. _____

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	

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NOV 02 2016

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

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

6. The presently authorized point(s) of diversion (is) (are) 5 POD - 4 Municipal Wells
(Provide description and number of points)
7. The proposed point(s) of diversion (is) (are) 1 POD - 1 Municipal 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 SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (E/W), in Leavenworth County, Kansas, 2772 feet North 2924 feet West of Southeast corner of section. Authorized Rate 200 Authorized Quantity 92.067
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows: VOID KEEP
Proposed point of diversion: (Complete only if change is requested)
 One in the SE Quarter of the NE Quarter of the WE Quarter of Section 22, Township 11 South, Range 22 (E/W), in Leavenworth County, Kansas, 2696 feet North 2772 feet West of Southeast corner of section. Proposed Rate 390 Proposed Quantity 414 Acre Feet
 This point is: Additional Well Geo Center List other water rights that will use this point _____

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. Plug 5 existing water wells and complete 1 Water Well

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

*BAT/OWR
4-26-2017

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12. The presently authorized use of water is for Municipal purposes.
It is proposed that the use be changed to municipal purposes.

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

(Please show any calculations here.)

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

15. It is requested that the maximum rate of diversion of water be reduced to _____ gallons per minute (____ c.f.s.).

16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 (www.usgs.gov). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.

a. If a change in the location of the point(s) of diversion is proposed, show:

- 1) The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
- 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
- 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.

b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.

17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.

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.

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IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

KANSAS DEPT OF AGRICULTURE

SCANNED

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 1716 N. 155th St, Breehor, Kansas, this 1st day of November, 2016.

[Signature]
(Owner)

(Spouse)

Travis J Miles, President/CEO Suburban Water, Inc.
(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

State of Kansas }
County of Leavenworth } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 1st day of November, 2016.

Notary Public - State of Kansas
PATRICIA A. PETERSON
My Appt. Exp. 1-3-2019

[Signature]
Notary Public

My Commission Expires 1-3-2019

FEE SCHEDULE

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

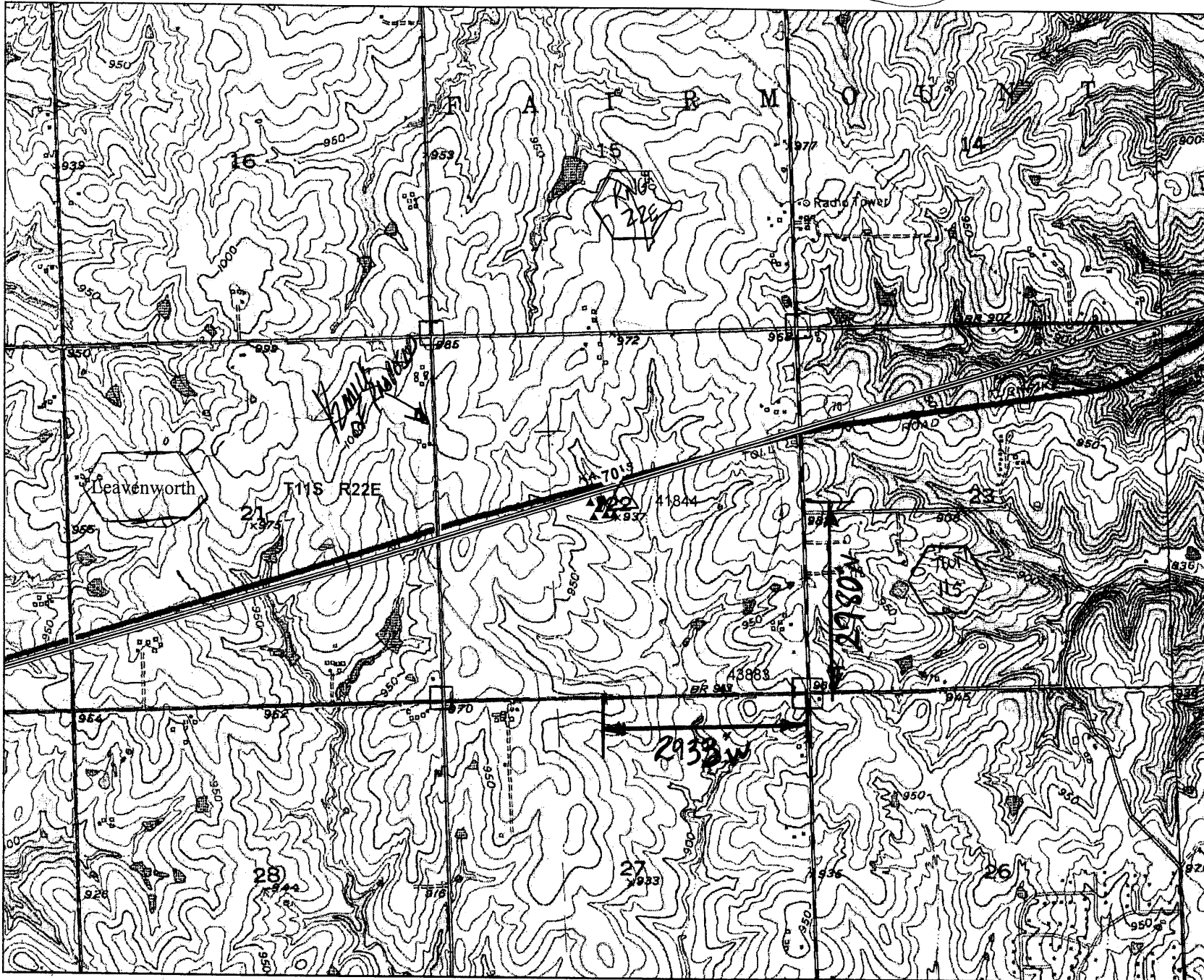
- (1) Application to change a point of diversion 300 feet or less \$100
- (2) Application to change a point of diversion more than 300 feet \$200
- (3) Application to change the place of use \$200
- (4) Application to change the use made of the water \$300

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

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NOV 02 2016

Appropriation of Water File Nos. 39,287 & 41,844



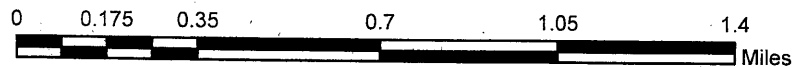
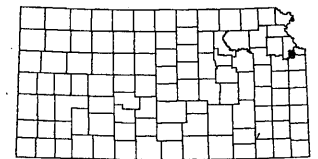
Legend

S_UMW

▲ G_MUN

○ Move < 30'

Index Map



This map was created by L. Ireland on 2/16/2017 .

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

November 4, 2016

SUBURBAN WATER INC
PO BOX 588
BASEHOR, KS

FILE COPY

RE: File No. 39287

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. Turney".

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

BAT: dlw

SCANNED

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

pc: TOPEKA Field Office GMD

6. The presently authorized point(s) of diversion (is) (are) BATTERY of 4 wells
(Provide description and number of points)

7. The proposed point(s) of diversion (is) (are) BATTERY of 4 wells
(Provide description and number of points)

List all presently authorized point(s) of diversion:

8. **Presently authorized point of diversion:** BATT 3 of 4

One in the SE Quarter of the SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (EW), in LV County, Kansas, 2884 feet North 2841 feet West of Southeast corner of section.

Authorized Rate _____ Authorized Quantity _____
(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 _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (EW), 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 41,844 x

9. **Presently authorized point of diversion:**

One in the SE Quarter of the SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (EW), in LV County, Kansas, 2864 feet North 3040 feet West of Southeast corner of section.

Authorized Rate _____ Authorized Quantity _____
(DWR use only: Computer ID No. 7 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 _____ (EW), 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 41,844 x

10. **Presently authorized point of diversion:**

One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (EW), 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 _____ (EW), 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. RECEIVED

*4-26-17
BATT

2/16/17 LE

FEB 13 2017

- 6. The presently authorized point(s) of diversion (is) (are) BATTERY of 4 WELLS
(Provide description and number of points)
- 7. The proposed point(s) of diversion (is) (are) BATTERY of 4 WELLS
(Provide description and number of points)

List all presently authorized point(s) of diversion:

8. **Presently authorized point of diversion:** BEC CTR 1D#1

One in the SE Quarter of the SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (E/W), in LV County, Kansas, 2772 feet North 2924 feet West of Southeast corner of section. Authorized Rate _____ Authorized Quantity _____
(DWR use only: Computer ID No. 1 GPS _____ feet North _____ feet West)

This point will not be changed This point will be changed as follows:

Proposed point of diversion: (Complete only if change is requested)

One in the SE Quarter of the SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (E/W), in _____ County, Kansas, 2780 feet North 2933 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 41,844 x

9. **Presently authorized point of diversion:** BATT 1 of 4 1D#2

One in the SE Quarter of the SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (E/W), in LV County, Kansas, 2656 feet North 2995 feet West of Southeast corner of section. Authorized Rate _____ Authorized Quantity _____
(DWR use only: Computer ID No. 2 GPS _____ feet North _____ feet West)

This point will not be changed This point will be changed as follows:

Proposed point of diversion: (Complete only if change is requested)

One in the _____ 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 41,844

10. **Presently authorized point of diversion:** BATT 2 of 4

One in the SE Quarter of the SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (E/W), in LV County, Kansas, 2682 feet North 2821 feet West of Southeast corner of section. Authorized Rate _____ Authorized Quantity _____
(DWR use only: Computer ID No. 3 GPS _____ feet North _____ feet West)

This point will not be changed This point will be changed as follows:

Proposed point of diversion: (Complete only if change is requested)

One in the SE Quarter of the SE Quarter of the NW Quarter of Section 22, Township 11 South, Range 22 (E/W), in LV County, Kansas, 2717 feet North 2856 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 41,844

11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used.

* BATT 1 Dwell
4-26-17

FEB 13 2017

WATER RESOURCES RECEIVED

Turney, Brent

From: Tietsort, Katie
Sent: Sunday, February 26, 2017 4:11 PM
To: Turney, Brent
Cc: Tietsort, Katie
Subject: RE: 39287 chg pd

Brent,

The TFO has reviewed the information provided related to the Suburban requested changes. The modifications to the proposed application appears to not have any impact related to the alleged impairment between these wells that would affect any neighboring wells not owned by the applicant. The proposed change appears ready for approval and we can live with holding the other proposed changed as discussed.

Thanks, Katie

Katie Tietsort

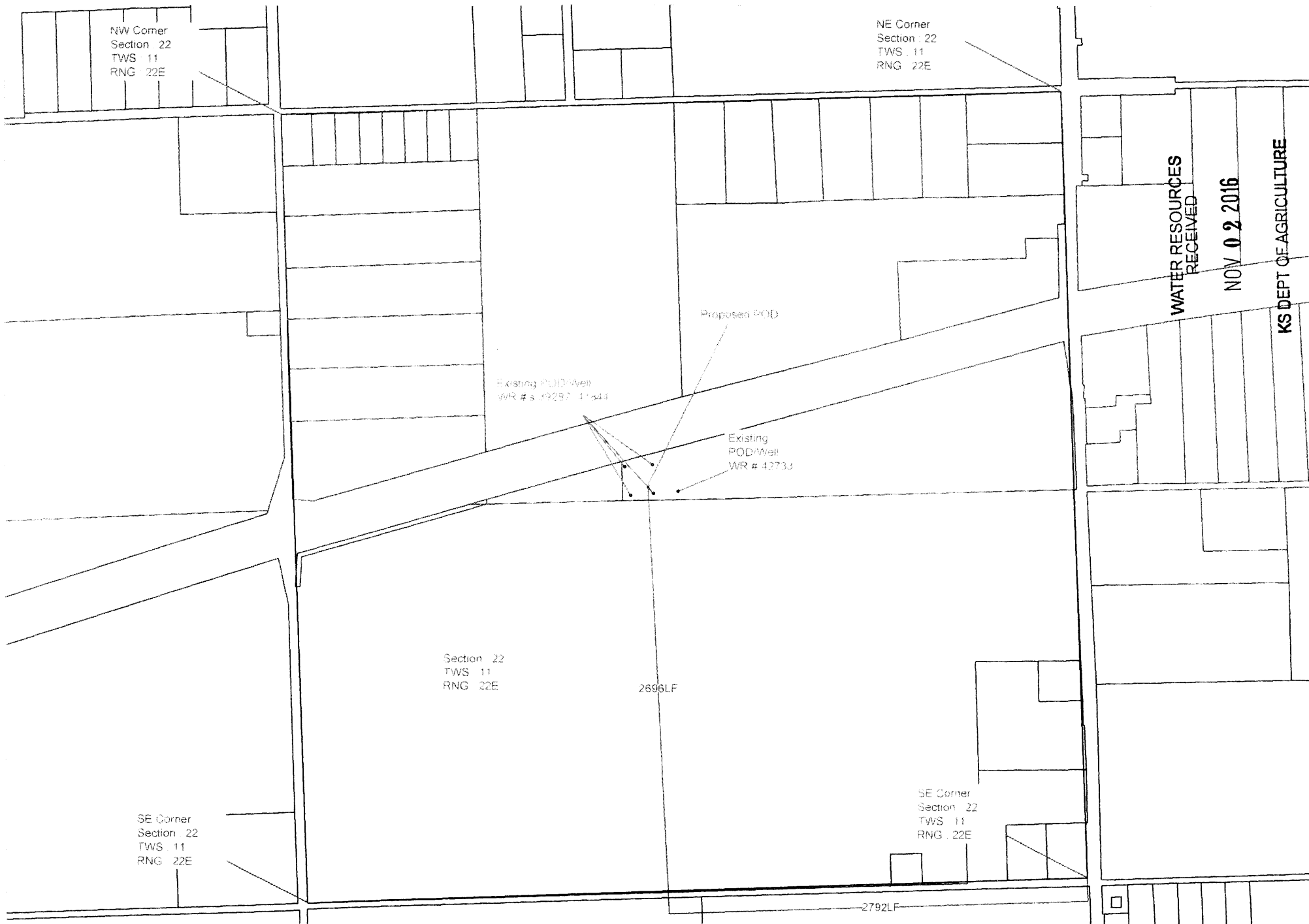
Kansas Department of Agriculture
6531 SE Forbes Ave Ste B
Topeka, KS 66619
katie.tietsort@ks.gov
Phone 785-296-5733

From: Turney, Brent
Sent: Wednesday, February 15, 2017 9:32 AM
To: Tietsort, Katie <Katie.Tietsort@ks.gov>
Subject: 39287 chg pd

Katie,

Need recommendation. Suburban has updated these applications to only move 1 well in the battery 50 feet closer to the existing geo center. The resulting change will only move the existing geo center of 4 wells a few feet. They have asked that the pending change under File No. 42,733 be held pending the out come of the new well and their new well field.

Thanks,
Brent



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



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

Jackie McClaskey, Secretary

March 8, 2017

Governor Sam Brownback

SUBURBAN WATER INC
ATTN TRAVIS MILES
PO BOX 588
BASEHOR KS 66007

FILE COPY

RE: Appropriation of Water
File Nos. 39,287 and 41,844

Dear Mr. Miles:

After reviewing your above referenced applications for Approval to Change the Authorized Point of Diversion, received in the office of the Chief Engineer on November 2, 2016, we find they cannot be approved as proposed.

The applications as proposed, are requesting to relocate only one well in the currently authorized battery of four wells. An initial review of the applications indicated that replacing the single well while maintaining a battery of four wells would have little effect on nearby wells, which are located in a known impairment area. However, we have received correspondence from the Kansas Department of Health and Environment that indicates the proposed replacement well will be constructed in a manner that will cause a significant physical enlargement of the capacity of the original well to divert water. Furthermore, we have also been informed that the remaining three wells of the battery of four wells have been ordered to be plugged. This change would allow the full rate of diversion and quantity of water to be diverted from a significantly larger single well.

K.S.A. 82a-708b states in part that any owner of a water right may change the place of use, the point of diversion or the use made of water, without losing priority of right, provided such owner shall:

“ . . . demonstrate to the Chief Engineer that any proposed change is reasonable and will not impair existing rights . . . ”

Furthermore, K.S.A. 82a-711 states in part:

“ . . . (b) in ascertaining whether a proposed use will prejudicially and unreasonably affect the public interest, the chief engineer shall take into consideration : . . . (3) the priority of existing claims of all persons to use the water of the appropriate water supply; (4) the amount of each claim to use water from the appropriate water supply; and (5) all other matters pertaining to such question. . . . ” and

“ . . . (c) With regard to whether a proposed use will impair a use under an existing water right, impairment shall include the unreasonable raising or lowering of the static water level . . . ”

SCANNED

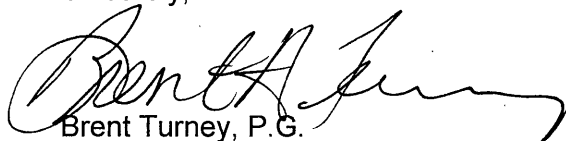
As submitted, the applications to change the point of diversion do not provide information to show that the significant enlargement of the capacity of the diversion works will not impair neighboring wells by the unreasonable lowering of the static water level. For the reason given above, it will be recommended to the Chief Engineer that the Applications to Change the Authorized Point of Diversion under Appropriation of Water, File Nos. 39,287 and 41,844, be denied and dismissed due to the failure to comply with K.S.A. 82a-708 and 82a-711.

We are advising you of this recommendation in order to allow you an opportunity to submit additional information (such as hydrologic analysis) to show why our evaluation should be reconsidered. You have **a period of 15 days (until March 23, 2017)** to either (1) submit additional information to our office or (2) to request additional time beyond the 15 days to submit additional information. If you wish to request additional time, you must do so in writing, before the 15 day period expires. Such a request should state what steps are being taken to obtain the information and the amount of time you will need to supply the information to our office.

If you do not request more time within the 15 day period, or if your request is not granted, the above-referenced application will be submitted to the Chief Engineer for final decision based on the recommendation stated above. If you do submit additional information within the 15 day period (or any authorized extension), that information will be given due consideration prior to final action on the application.

If you have any questions, please contact our office. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,



Brent Turney, P.G.
Change Unit Supervisor
Environmental Scientist
Water Appropriation Program

BAT
pc: Topeka Field Office

Turney, Brent

From: Tietsort, Katie
Sent: Tuesday, June 20, 2017 9:01 AM
To: Turney, Brent
Subject: RE: 39287 Suburban chg pd 2

Brent,

I agree with your recommendation for approval as the pending application has been sufficiently vetted to consider nearby concerns from LV RWD 07 and as conditioned to make sure we can monitor the situation. As we just discussed, the language of the well condition should be adjusted to reflect appropriate conditions. Thanks for all of your efforts on this change application, it was a considerably difficult package.

Have a great day, Katie

Katie Tietsort

Kansas Department of Agriculture
6531 SE Forbes Ave Ste B
Topeka, KS 66619
katie.tietsort@ks.gov
Phone 785-296-5733

From: Turney, Brent
Sent: Tuesday, June 20, 2017 8:18 AM
To: Tietsort, Katie <Katie.Tietsort@ks.gov>
Subject: 39287 Suburban chg pd 2

Katie,
Can you give me a recommendation?
Brent

Turney, Brent

From: Tietsort, Katie
Sent: Thursday, June 15, 2017 12:25 PM
To: Turney, Brent
Cc: Munson, John
Subject: Suburban

OK, I talked to Travis this AM, the transducer is installed in the monitoring well now, so we are ready to proceed, how about these for the Suburban conditioning:

#xx1. That the applicant shall maintain, at the applicant's expense, the observation well located in the Southeast Quarter of the Southeast Quarter of the Northwest Quarter (SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$) of Section 22, more particularly described as being near a point 2,794 feet North and 2,929 feet West of the Southeast corner of said section in Township 11 South, Range 22 East, Leavenworth County, Kansas, in a condition that is satisfactory to the Chief Engineer.

#xx2. That the applicant shall provide access for representatives of the Chief Engineer, to the observation well for measurements as may be necessary to document aquifer conditions.

#xx3. That the applicant shall take and maintain readings from an installed transducer, owned and maintained at the expense of the applicant, on an hourly basis and shall keep those records available to the representatives of the Chief Engineer, permanently.

#xx4. That the applicant shall provide the Division of Water Resources with an overview/summary of the data and/or a graph of the data monthly, by the 15th day of the following month.

Katie

Katie Tietsort

Kansas Department of Agriculture
6531 SE Forbes Ave Ste B
Topeka, KS 66619
katie.tietsort@ks.gov
Phone 785-296-5733

Technical Evaluation Proposed Change in Points of Diversion Suburban Water Company File Nos. 39,287; 41,844; and 42,733

November 2, 2016 the Suburban Water Company filed changes in points of diversion to combine their three water rights from the Moran well field from 5 wells and propose to pump all of the water from these three water rights from only one new larger capacity well. The new larger capacity well is to be located 50 feet northwest of existing Well No. 3 and they plan to plug all of the five existing old small capacity Well Nos, 1, 2, 3, 4 and 5.

Nearby Rural Water District No. 7 complained about the proposed new well in this area of limited water availability. RWD 7 obtained LEGGETTE, BRASHEARS & GRAHAM, INC., Professional Groundwater and Environmental Engineering Services, to review the proposal and concluded that an increase in withdrawal from the Suburban Moran well field would negatively impact water levels and production of the RWD 7 supply well.

Figure 1 shows the five Suburban Water Company wells in the Moran well field and the observation well located in the center of the field. The proposed location of the new well 50 feet northwest of Well No. 3 is shown on the map. Pumping rates in gallons per minute for each well are 48 gpm for Well 1, 76 gpm for Well 2, 68 gpm for Well 3 and 67 gpm for Well 4. The maximum yield of the well field is 290 gallons per minute when all wells are pumping at the same time.

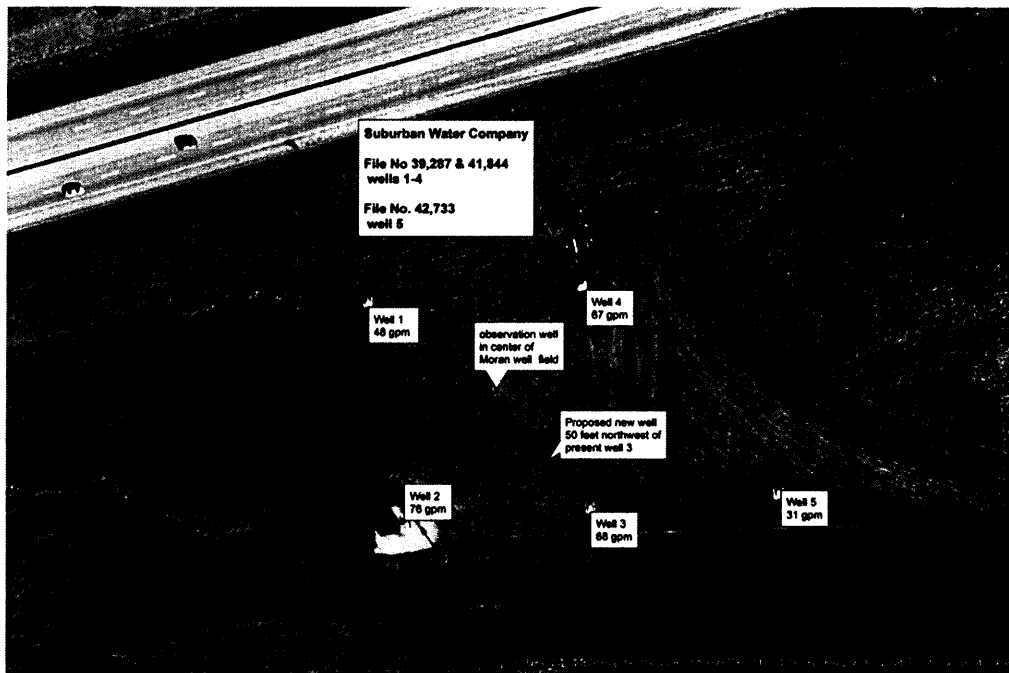


Figure 1 - Present locations and pumping rates of the five Suburban Water Company wells, the location of the observation well in the Moran well field and the proposed location of the new large capacity well 50 feet northwest of Well No. 3.

In January of 2006 DWR conducted a 30-hour aquifer test pumping all five of the Suburban wells and measuring drawdown in the observation well. All wells were pumped at their maximum rates and the total yield was 290 gallons per minute. The saturated thickness of the aquifer was 19 feet. The theoretical cone of depression generated by the wells based on the aquifer properties only extended a few feet deep into the limited saturated thickness of 19 feet at the end of the 30-hour test. **Figure 2**

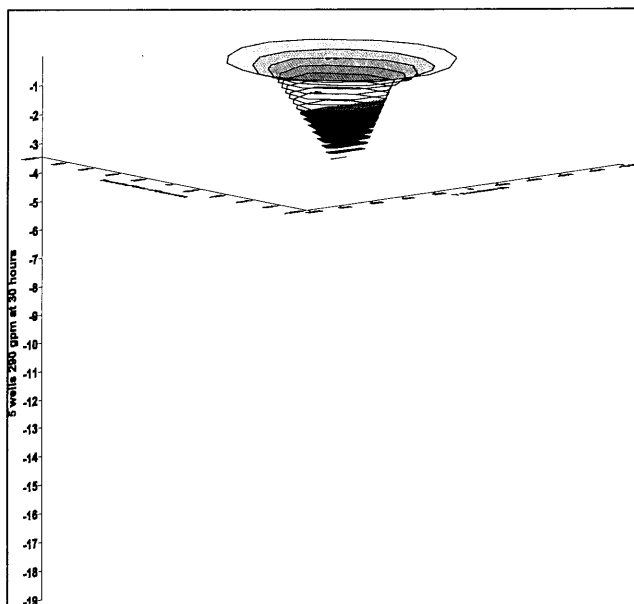


Figure 2 – Depth of theoretical cone of depression due to aquifer properties at end of the 30-hour aquifer test relative to measured saturated total thickness of the aquifer.

From May 2009 to March 2011 DWR had a water level transducer and data logger installed in the observation well recording water level measurements every 30 minutes. During this period depths to water were between 46 and 55 feet below ground level. **Figure 3** The supply wells are about 70 feet deep so measured saturated thickness of the aquifer ranged from about 15 to 24 feet for an average saturated thickness of about 19 feet.

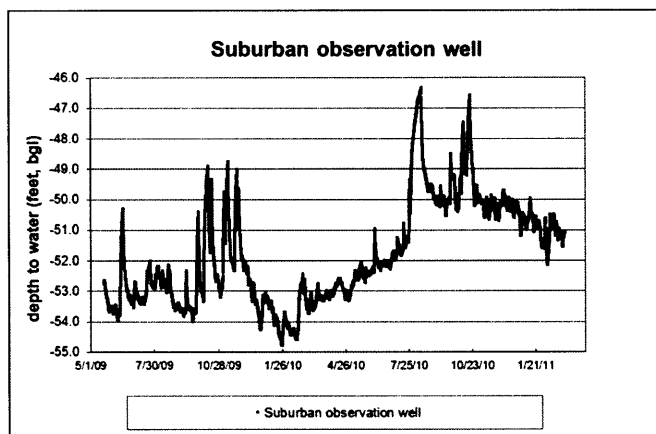


Figure 3 - Depths to water measured at the Suburban observation well during May of 2009 to March of 2011.

The monitoring period of 2010 was the second largest water use year over the last 10 years. The reported water use for Suburban in 2010 was 67.5 million gallons. **Figure 4** During 2010 the average daily use was about 185,000 gallons per day or 128 gallons per minute.

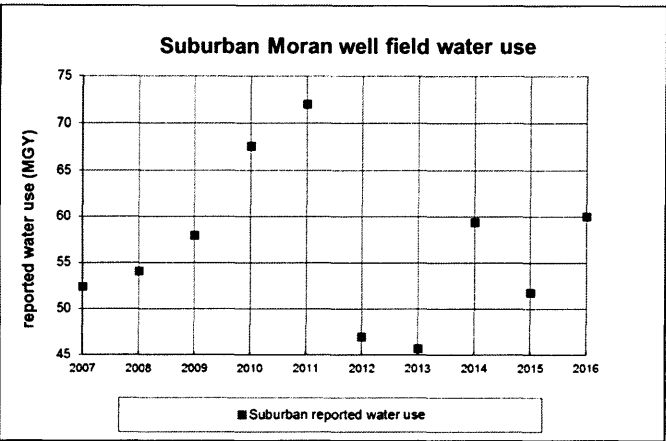


Figure 4 - Reported water use for the Suburban wells over the last 10 years.

The theoretical cone of depression produced by pumping Well No. 1 at 48 gpm and Well No. 2 at 76 gpm continuously at 124 gallons per minute for 365 days and 65 million gallons still only reaches a theoretical depth of about 31 percent of the total saturated thickness. **Figure 5**

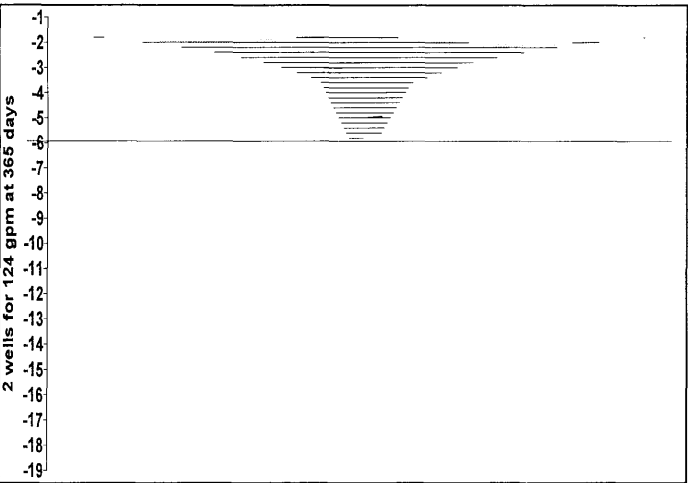


Figure 5 – Depth of theoretical cone of depression relative to total saturated thickness due to Suburban well field aquifer properties at the end of year pumping 124 gallons per minute continuously for 65 million gallons.

What the Theis simulated drawdown does not provide is the component of total drawdown due to well loss or drawdown at the wells due to factors other than simulated aquifer properties. The total drawdown at each Suburban well could not be measured during the aquifer test because of the way the wells were constructed without water level monitoring equipment. The supply wells at RWD 7 however have monitoring equipment installed to record the water levels at both Well No. 1 and Well No. 3. A six-hour pumping period on January 13, 2017 was chosen to analyze the data for aquifer properties and observed drawdown for well loss. **Figure 6**

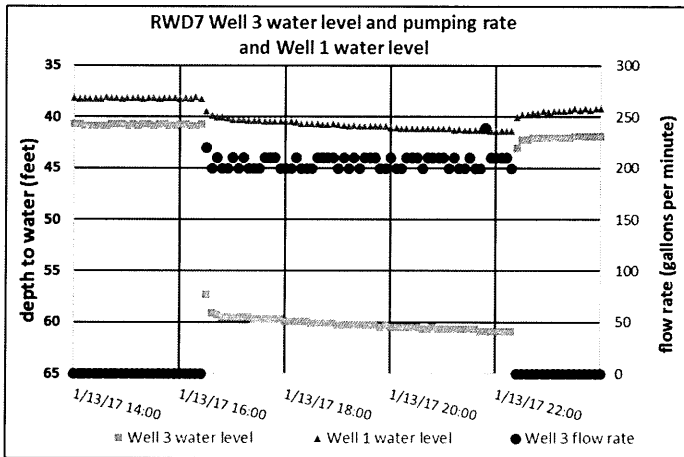


Figure 6 – RWD 7 Well No. 3 water level and pumping rate and Well No. 1 water level data that was analyzed for aquifer properties and observed drawdown.

Aquifer test analysis based on pumping RWD 7 Well No. 3 and water level change observed at Well No. 1 provides aquifer parameters to simulate theoretical drawdown at pumping Well No. 3. **Figure 7**

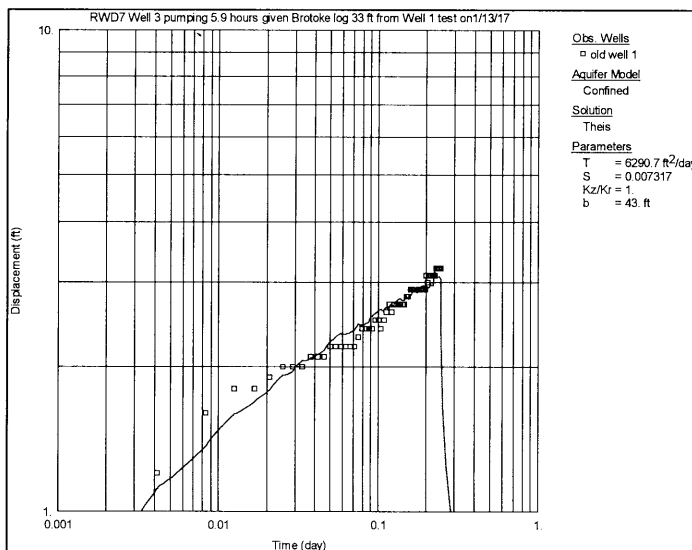


Figure 7 – Aquifer test analysis of pumping RWD 7 Well No. 3 and measured water levels at Well No. 1.

Measured water levels at RWD 7 Well No. 1 were used to determine aquifer properties for the aquifer test with the Theis solution by pumping nearby Well No. 3. While the maximum measured drawdown at Well No. 1 was 3.2 feet at the end of the test period the Theis theoretical maximum drawdown due to aquifer properties at pumping Well No. 3 at the end of the test period is only about 6.6 feet. **Figure 8**

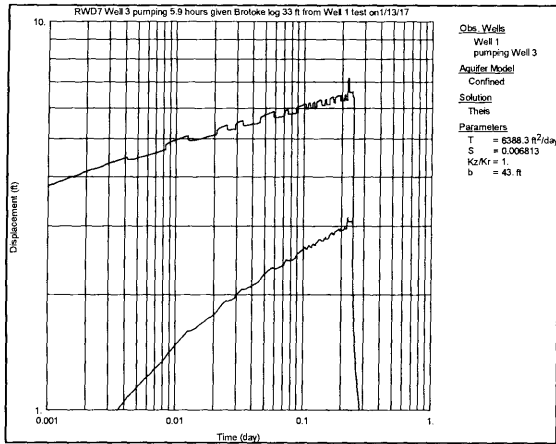


Figure 8 – RWD 7 aquifer test parameters simulated to show theoretical drawdown at pumping Well No. 3.

At the beginning of the aquifer test the depth to water at pumping Well No. 3 was 41 feet and by the end of the test the depth to water was 61 feet for a maximum drawdown of 20 feet. The theoretical drawdown of 6.6 feet at the end of the test is only about 33 percent of the actual measured drawdown of 20 feet. The difference between the Theis simulated drawdown due to aquifer properties and the total measured drawdown is viewed as well loss. This was unknown in the Suburban wells because water levels could not be measured at the pumping wells. The observed well loss at RWD 7 Well No. 3 is about 67 percent of the total measured drawdown. Adding well loss to the theoretical drawdown at the Suburban wells in their well field of limited saturated thickness essentially consumes the entire saturated thickness. The observed total drawdown of 20 feet at the RWD 7 well pumping only 6 hours at about 200 gallons per minute exceeds the saturated thickness of 19 feet at the Suburban well field.

Using the aquifer parameters determined in the aquifer test at the Suburban well field in 2006 the theoretical drawdown by pumping one well at 290 gallons per minute is about 78 percent of the total saturated thickness. **Figure 9** There does not appear to be enough saturated thickness to pump one well 290 gpm when addition drawdown due to well loss is considered.

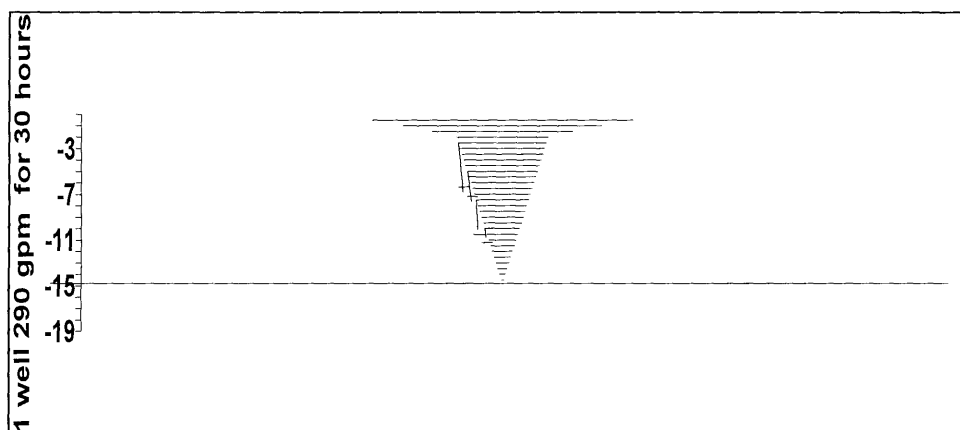


Figure 9 – Depth of theoretical cone of depression relative to total saturated thickness due to Suburban well field aquifer properties at the end of 30 hours pumping only one well 290 gallons per minute. Well loss is not shown here.

The total drawdown observed at the RWD 7 Well No. 3 is equal to theoretical drawdown of 6.6 feet divided by 33 percent. ($6.6 \text{ feet} / 0.33 = 20 \text{ feet}$) Assuming similar well loss the maximum theoretical drawdown at the Suburban well field at a limited saturated thickness of 19 feet would be about 6.3 feet. ($19 \text{ feet} \times 0.33 = 6.27 \text{ feet}$) Knowing the theoretical drawdown for a given pumping rate based on the aquifer test in 2006, assuming an average saturated thickness of 19 feet observed during monitoring in 2010 and measured at the aquifer test in 2006 and assuming theoretical drawdown at the Suburban well field is 33 percent of total drawdown as observed at RWD 7, the maximum pumping rate of one well pumping can be estimated. The pumping drawdown limit of 6.3 feet is reached by the end of a year pumping a rate of 84 gallons per minute. The pumping drawdown limit of 6.3 feet is reached in 21 days at a rate of 100 gallons per minute. The pumping drawdown limit of 6.3 feet is reached in 3 days at a rate of 115 gallons per minute and in 1 day at 126 gallons per minute. To pump a 6 hour period as observed at RWD 7 Well No. 3 the pumping rate would be limited to about 143 gallons per minute. **Table 1** This is likely the reason the Suburban Water Company has small wells ranging from only 31 gpm to 76 gpm in their well field.

Table 1 – Theoretical pumping rates and times a large capacity well may reach a drawdown limit in the Suburban Moran well field.

Pumping rate of new well	Pumping time to reach drawdown limit
85 gallons per minute	365 days
100 gallons per minute	21 days
115 gallons per minute	3 days
126 gallons per minute	1 day
143 gallons per minute	6 hours

The yield from the Suburban well field cannot be increased by pumping only one large capacity rather than pumping multiple small capacity wells. It appears that by reducing the well field from five small wells to one larger capacity well the potential for well interference between the senior water rights of Suburban and the junior water right of RWD 7 is reduced due to the limited saturated thickness of the aquifer at the Suburban well location.

Due to the apparent continued concern between RWD 7 and Suburban Water Company about the limited amount of water in this area, Suburban should install pressure transducers and log water levels in their new well and in their existing observation well. Depth to water readings at 30 minute intervals is an adequate frequency of data collection. Pumping rate data in gallons per minute should also be collected at the same frequency and maintained for future reference and reported each year in a data format that can be analyzed. RWD 7 monitors their supply Well No. 3 water levels and pumping rates and monitors Well No. 1 water levels in this manner and provided useful data for this analysis.

John Munson
Groundwater Impairment Investigator
Water Management Services
Division of Water Resources
Kansas Department of Agriculture

May 25, 2017

Turney, Brent

From: Tietsort, Katie
Sent: Thursday, May 18, 2017 9:24 AM
To: Turney, Brent
Cc: Bagley, Jim; Munson, John; Letourneau, Lane
Subject: Suburban

Brent- I talked to Carl this morning, he said he talked to you Tuesday and you told him to talk to me. I had called him to talk to him to let him know that where we are heading on Tuesday AM before I left after we all agreed on the trip- that assuming Jim and John's review of Martha's submitted information agrees, we would be wanting an observation well put in at a specified location and would include that requirement and monthly data submitted in order to move these changes forward. He said you said it was up to me but I told Carl that I haven't received anything from you or Jim or John related to their review of Martha's submission, if they agree, and where the well needs to be. I told him it would likely match the requirements of the LV RWD 07 monitoring well, but until I have something final in front of me I can't sign off.

Katie

Katie Tietsort

Kansas Department of Agriculture
6531 SE Forbes Ave Ste B
Topeka, KS 66619
katie.tietsort@ks.gov
Phone 785-296-5733

Carl E. Nuzman, P.E. P.Hg.
Consulting Engineer/Hydrogeologist
3314 NW Huxman Rd.
Silver Lake, KS 66539

785 224-9929

cnuzman@embarqmail.com

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

March 15, 2017

RE: Appropriation of Water
File Nos. 39,287 and 41,844

On behalf of my Client, Suburban Water, Inc. of Basehor, KS, and its CEO Travis Miles, I am enclosing my response to your letter of March 8, 2017 in regard to the request to change the point of diversion of wells under water Appropriation covered by Files 39,287 and 41,844.

The additional information requested was gleaned from State records, WWC 5's on file with the Kansas Geological Survey supplemented with appropriate calculations to answer the questions posed under K.S.A. 82a-711.

If you have further concerns in regard to this matter, I would appreciate the opportunity to come to Manhattan and sit down with you and discuss the policy and circumstances that lead to this request to change the point of diversion under these appropriations.

Sincerely,



Carl E. Nuzman. P.E
Consultant

Cc: Suburban Water Inc.
Attn: Travis Miles, CEO
P.O. Box 588
Basehor, KS 66007

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MAR 17 2017

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SCANNED

Carl E. Nuzman, P.E., P.Hg.
Consulting Engineer, Hydrogeologist

March 14, 2017

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

RE: Supplemental information supporting the change in point of diversion for Appropriation of water File Nos. 39,287 and 41,844 filed by Suburban Water, Inc.

Good hydrologic data on the performance of water supply wells of Suburban Water in their Moran well field is lacking. The wells are of small diameter casings and in-well measurements of individual well specific capacities are not possible. With the observation well in the center of the four well battery to measure static water level and the pump setting depths, the well specific capacities are estimated to be about 9 to 10 gpm/ft. of drawdown.

Attention was then focused on the WWC-5's collected by KDHE and the file maintained by KGS for both geologic data and aquifer characteristic data from which to work in ascertaining whether impairment of existing right will exist as a result of a change in point of diversion as filed. The number of well logs with which to work with in Section 22, Twp 11 S, Rge 22 E is limited. The glacial drift aquifer approaches about a mile wide near the center of the section and then may narrow somewhat in the south half. Information on well performance was limited to just one well; the newest well drilled by LV RWD No. 7 in 2016 by Brotcke Well and Pump Company.

Aquifer hydrologic data obtained was as follows:

Static water level	41.5 feet below land surface
Pumping water level (in well casing)	55.15 feet depth @ 151 gpm after 2 hours
Bore hole diameter	30 inches (1.2 ft well radius)
Screen diameter	16 inches
Screen length	20 feet of formation screened

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MAR 17 2017

From the above data the following calculations and estimates were made:

Observed drawdown while pumping	13.65 feet @ 151 gpm
Well Specific Capacity	11.06 gpm/ft. of drawdown

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From the ratio of well specific capacity to transmissivity for semi-confined aquifers of 1700 the formation transmissivity is found to be $(11 \times 1700 =) 18,700$ gpd/ft
To check the validity of the calculation $(18,700 / 20 =) 935$ gpd/ft² for the field coefficient of permeability which is reasonable for clean alluvial deposited sands and gravel formation.

Using the steady-state Theim equation of $T = 528 Q / \Delta R$, then solving for ΔR , a distance vs drawdown semi-log graph can be constructed that represents the hydraulic characteristics of the aquifer in this vicinity. The attached graph was developed from these calculations for 150 gpm, 225 gpm and 300 gpm. This graph shows the radius of influence of the new LV RWD No. 7 well is 2,000 feet. It should be noted that the radius of influence is independent of rate of pumping and only dependent on the transmissivity or hydraulic conductivity of the aquifer.

Since the two wells in question are separated by 3,000 feet distance more or less, there cannot be any direct mutual interference; therefore there will not be any unreasonable lowering of the static water level as defined in K.S.A. 82a-711.

Respectfully submitted for your consideration in support of approval of the change in point of diversion for Files Nos. 39,287 and 41,844.



Carl E. Nuzman, P.E., P.Hg.
Consulting Engineer/ Hydrogeologist

Attachment: Distance vs. Drawdown graph

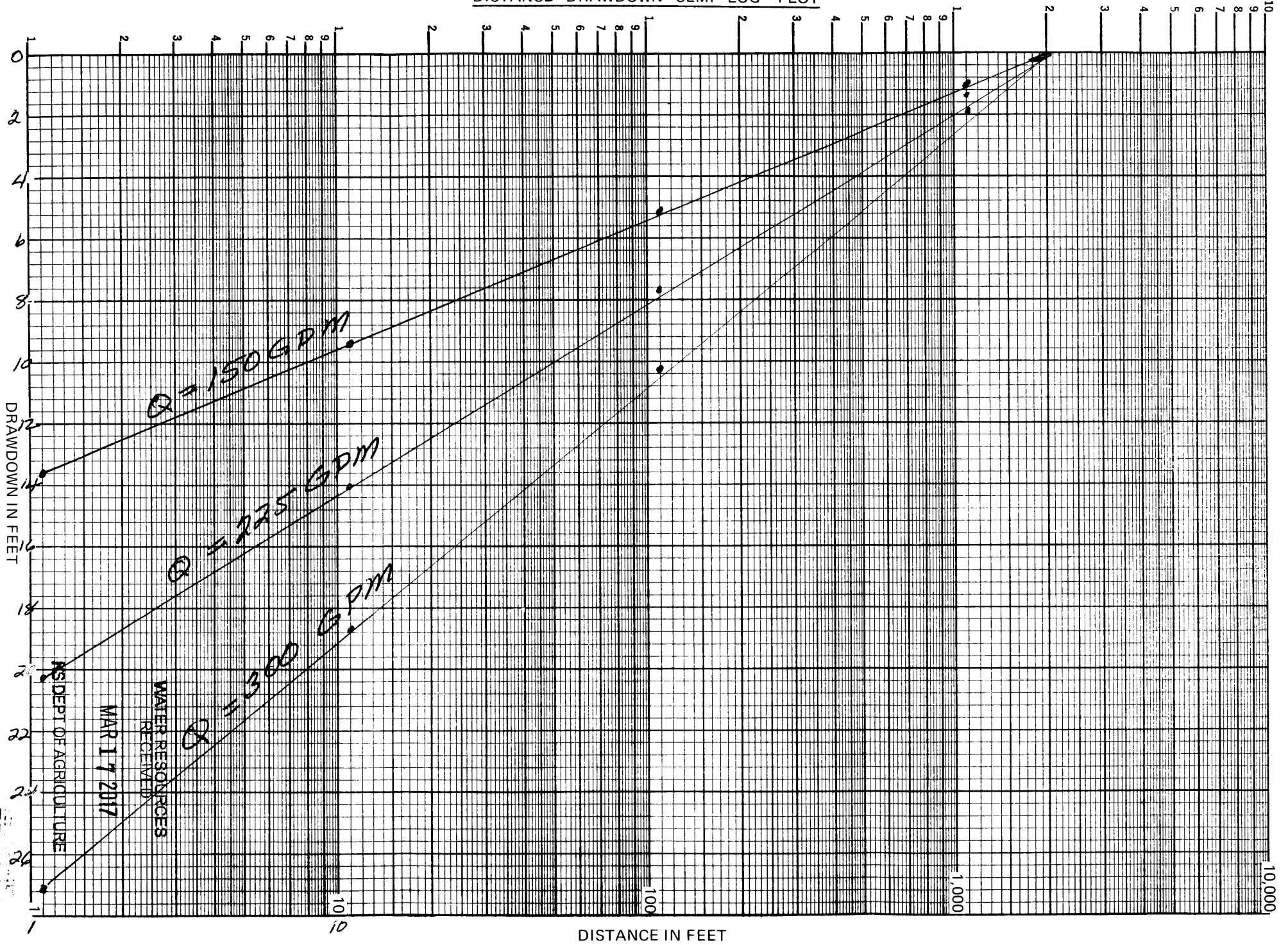
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MAR 17 2017

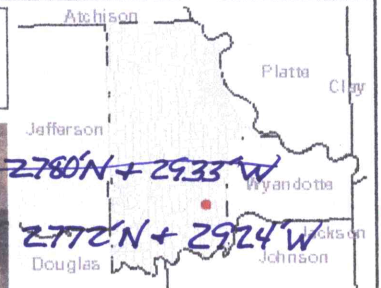
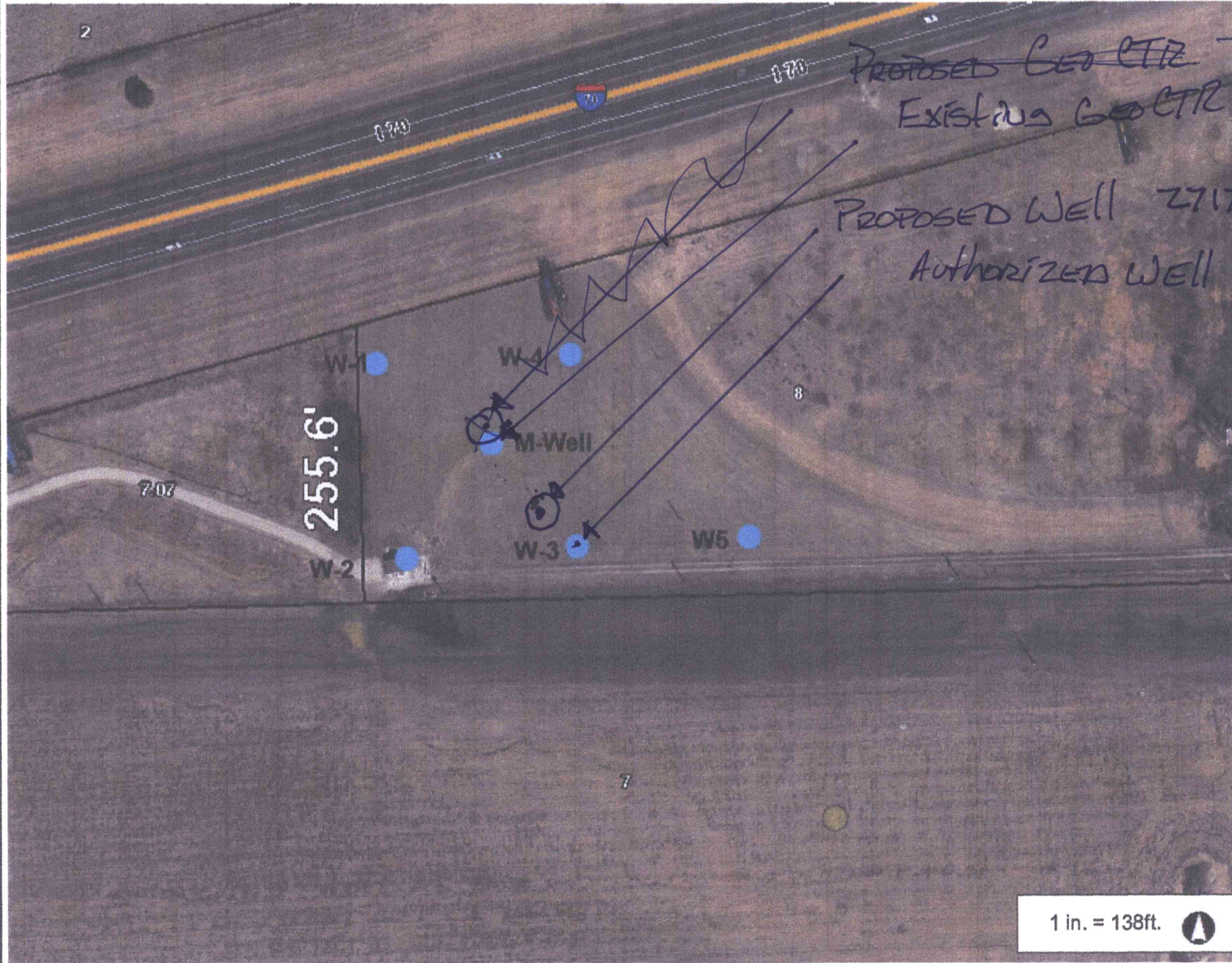
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DISTANCE-DRAWDOWN SEMI-LOG PLOT



Moran Well Field



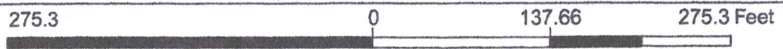
Legend

- Address Point
- Parcel
- Parcel Number
- Subdivisions
- Lot Line
- City Limit Line
- Major Road
- <all other roads>
- 70
- Road
- Railroad
- Section
- County Boundary

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 FEB 13 2017

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 KS DEPT OF AGRICULTURE

1 in. = 138ft.



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
 THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes



Legend

- pipelines
- Water Wells
- Suburban Existing Wells
- Suburban Customers
- parcels

500 0 500 1000 ft

WATER RESOURCES RECEIVED

FEB 13 2017