

Kansas Department of Agriculture
Division of Water Resources
CLOSURE OF NEW APPLICATION WORKSHEET

1. File Number: 49,539	2. Status Change Date: 9/20/2016	3. Field Office: 02	4. GMD: 02
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5. Status: Approved Denied by DWR/GMD Dismiss by Request/Failure to Return

6. Enclosures: Check Valve N of C Form Water Tube Driller Copy Meter

7a. Applicant(s)
New to system Person ID 29037
Add Seq# 1

VERLE D & PHYLLIS HOLDEMAN
12927 W 1ST ST
HALSTEAD KS 67056-9216

7c. Landowner(s)
New to system Person ID _____
Add Seq# _____

7d. Misc.
New to system Person ID _____
Add Seq# _____

7b. Landowner(s)
New to system Person ID _____
Add Seq# _____

8. WUR Correspondent
New to system Person ID _____
Add Seq# _____
Overlap File (s) WUC Notarized WUC Form
Agree Yes No
7a

9. Use of Water: Changing? Yes No

Groundwater Surface Water

IRR REC DEW MUN

STK SED DOM CON

HYD DRG WTR PWR ART RECHRG

IND SIC: _____ OTHER: _____

10. Completion Date: _____ 11. Perfection Date: _____ 12. Exp Date: _____

13. Conservation Plan Required? Yes No Date Required: _____ Date Approved: _____ Date to Comply: _____

14. Water Level Measuring Device? Yes No Date to Comply: _____ Date WLMD Installed: _____

Date Prepared: **8/16/16** By: **AJW**
Date Entered: **9/21/2016** By: **UM**

File No. **49539** 15. Formation Code: Drainage Basin: County: Special Use: Stream:

16. Points of Diversion											
T	MOD	DEL	ENT	PDIV	Qualifier	S	T	R	ID	'N	'W

17. Rate and Quantity				
Authorized		Additional		
Rate gpm/cfs	Quantity af/mgy	Rate gpm/cfs	Quantity af/mgy	Overlap PD Files

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

19. Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

20. Meter Required? Yes No To be installed by _____ Date Acceptable Meter Installed _____

21. Place of Use										NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
T	MOD	DEL	ENT	PUSE	S	T	R	ID		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				

Comments:

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files

DATE: September 5, 2016

FROM: Alex Whitesell

RE: Application, File No. 49,539

Verle Holdeman has filed the above referenced application for a permit to appropriate water for beneficial use, proposing the appropriation of 117 acre-feet of groundwater from one (1) well, for irrigation use in Harvey County.

On March 11, 2016, a copy of the application was sent to GMD No. 2 for recommendation. An extension was granted to the GMD giving until May 31, 2016 to provide a recommendation.

In a letter dated June 23, 2016, the GMD recommended denial of the application due to the application being down gradient of the salt water plume of the Burrton IGUCA. Several other applications have recently been denied in the area.

No additional information has been received from the applicant.

Based on the above discussion and the available information, it is recommended that the referenced application be dismissed.



Alex Whitesell
Environmental Scientist
Water Appropriation Program

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

September 21, 2016

FILE COPY

VERLE HOLDEMAN
12927 W 1ST ST
HALSTEAD KS 67056

RE: Appropriation of Water
File No. 49,539

Dear Mr. Holdeman:

Enclosed is the Findings and Order by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, dismissing Application, File No. 49,539 for failure to comply with K.A.R. 5-23-4a & K.A.R. 5-23-4b .

This Order shall become a final agency action, as defined by K.S.A. 77-607(b), without further notice to the parties, if a request for hearing or a petition for administrative review is not filed as set forth below.

Request for Hearing. According to K.A.R. 5-14-3(c), any party who desires a hearing must submit a request within 15 days after the date shown on the Certificate of Service attached to this Order. Filing a request for a hearing will give you the opportunity to submit additional facts for consideration, contest any findings made by the Chief Engineer, or present any other information you believe should be considered in this matter. A timely-filed request for hearing will stay the deadline for requesting administrative review of this Order pending the outcome of the hearing.

Petition for Review. The applicant, if aggrieved by this Order, may petition for administrative review, pursuant to K.S.A. 82a-71 1(c) and K.S.A. 82a-1 90 1(a). The petition must be filed within 30 days after the date shown on the Certificate of Service attached to this Order and must set forth the basis for the review, unless stayed by the timely filing of a request for hearing. Any request for 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.

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 A. Turney, P.G.
Change Application Unit Supervisor
Division of Water Resources

BAT:ajw

Enclosures

pc: Stafford Field Office
Groundwater Management District 2

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

**FINDINGS AND ORDER
IN THE MATTER OF THE
DISMISSAL OF APPLICATION
FILE NO. 49,539**

FILE COPY

After due consideration, the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture (hereinafter referred to as the "Chief Engineer"), makes the following findings and order:

FINDINGS

1. That on January 19, 2016 the Chief Engineer received an application from Verle Holdeman for a permit to appropriate water for beneficial use, assigned File No. 49,539, proposing the appropriation of 117 acre-feet of groundwater for irrigation use. Information submitted with the application provided the specific location for one (1) well which would be located in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 18, more particularly described as being near a point 2,787 feet North and 1,470 feet West of the Southeast corner of said section, in Township 23 South, Range 3 West, Harvey County, Kansas, within the Little Arkansas River drainage basin. The proposed point of diversion is located within the boundaries of the Burrton Intensive Groundwater Use Control Area (IGUCA) in Equus Beds Groundwater Management District No. 2 (GMD No. 2).
2. That on March 11, 2016, a copy of the application was submitted to GMD No. 2. An extension was granted on April 18, 2016, giving until May 31, 2016, to provide additional information.
3. That in a letter dated June 23, 2016, GMD #2 recommended denial of the application. That based on an approved motion from the District Board on April 13, 2004, all applications with a proposed point of diversion located in the Burrton IGUCA down gradient of maximum contamination areas of the salt water plumes would be denied, which was the case with 49,539.
4. That on August 16, 2016, a letter was mailed to the applicant stating that the application did not comply with the conditions of the Burrton IGUCA order, and that the application would be submitted to the Chief Engineer with a recommendation that the pending application be denied and dismissed. The applicant was provided 15 days, until August 31, 2016 to either submit additional information to our office or request additional time prior to final action on the application.
5. That no response of any kind has been received from the applicant as of the August 31, 2016 deadline.
6. That the application should be denied and dismissed and its priority forfeited based on the recommendation of GMD No. 2 and for failure to meet the requirements of the Burrton IGUCA order dated June 1, 1984.

ORDER

NOW, THEREFORE, It is the decision and order of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, that effective the date of this order, in accordance with the law, Application, File No. 49,539, is herewith dismissed and the priority assigned to it is considered to be forfeited.

This Order shall become a final agency action, as defined by K.S.A. 77-607(b), without further notice to the parties, if a request for hearing or a petition for administrative review is not filed as set forth below.

Request for Hearing. According to K.A.R. 5-14-3(c), any party who desires a hearing must submit a request within 15 days after the date shown on the Certificate of Service attached to this Order. Filing a request for a hearing will give you the opportunity to submit additional facts for consideration, contest any findings made by the Chief Engineer, or present any other information you believe should be considered in this matter. A timely-filed request for hearing will stay the deadline for requesting administrative review of this Order pending the outcome of the hearing.

Petition for Review. The applicant, if aggrieved by this Order, may petition for administrative review, pursuant to K.S.A. 82a-711(c) and K.S.A. 82a-1901(a). The petition must be filed within 30 days after the date shown on the Certificate of Service attached to this Order and must set forth the basis for the review, unless stayed by the timely filing of a request for hearing.

Any request for 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.

Ordered this 20th day of September, 2016, in Topeka, Shawnee County, Kansas.

Lane P. Letourneau, P.G.
Program Manager
Water Appropriation Program
Division of Water Resources
Kansas Department of Agriculture

State of Kansas)
) SS
County of Shawnee)

The foregoing instrument was acknowledged before me this 20th day of September, 2016, by Lane P. Letourneau, P.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.



Notary Public

CERTIFICATE OF SERVICE

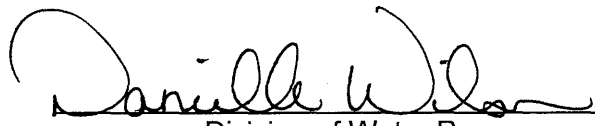
On this 21st day of September, 2016, I hereby certify that the foregoing Dismissal of Application, File No. 49,539, dated September 20, 2016, was mailed postage prepaid, first class, US mail to the following:

VERLE HOLDEMAN
12927 W 1ST ST
HALSTEAD KS 67056

With photocopies to:

Division of Water Resources Stafford Field Office

Groundwater Management District No. 2



Division of Water Resources

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number 49,539
This item to be completed by the Division of Water Resources.

WATER RESOURCES
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**APPLICATION FOR PERMIT TO
APPROPRIATE WATER FOR BENEFICIAL USE**

Filing Fee Must Accompany the Application
(Please refer to Fee Schedule attached to this application form.)

JAN 19 2016

1:03
KS DEPT OF AGRICULTURE

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture,
1320 Research Park Drive, Manhattan, Kansas 66502:

1. Name of Applicant (Please Print): Verle Holdeman
Address: 12927 W 1st St.
City: Halstead State KS Zip Code 67056
Telephone Number: (620) 345-6803

2. The source of water is: surface water in _____ (stream)
OR groundwater in Little Arkansas River Basin - Equus Beds Aquifer (drainage basin)

Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources.

3. The maximum quantity of water desired is 117 acre-feet OR _____ gallons per calendar year, to be diverted at a maximum rate of 1000 gallons per minute OR _____ cubic feet per second.

Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements.

4. The water is intended to be appropriated for (Check use intended):
(a) Artificial Recharge (b) Irrigation (c) Recreational (d) Water Power
(e) Industrial (f) Municipal (g) Stockwatering (h) Sediment Control
(i) Domestic (j) Dewatering (k) Hydraulic Dredging (l) Fire Protection
(m) Thermal Exchange (n) Contamination Remediation

YOU **MUST** COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

For Office Use Only:							
F.O. <u>2</u>	GMD <u>2</u>	Meets K.A.R. 5-3-1 (YES/NO) <u>(YES)</u>	Use <u>IRR</u>	Source <u>(G) S</u>	County <u>HV</u>	By <u>AJW</u>	Date <u>1/19/16</u>
Code <u>REZ</u>	Fee \$ <u>300</u>	TR # <u>16024760</u>	Receipt Date <u>1/19/16</u>	Check # <u>12094</u>			

SCANNED
1/25/2016 LLM

5. The location of the proposed wells, pump sites or other works for diversion of water is:

Note: For the application to be accepted, the point of diversion location must be described to at least a 10 acre tract, unless you specifically request a 60 day period of time in which to locate the site within a specifically described, minimal legal quarter section of land.

(A) One in the SE quarter of the SW quarter of the NE quarter of Section 18, more particularly described as being near a point 2787 feet North and 1470 feet West of the Southeast corner of said section, in Township 23 South, Range 3W East/West (circle one), Harvey County, Kansas.

(B) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.

(C) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.

(D) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (1/4) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300 foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800 gallons per minute and which supply water to a common distribution system.

6. The owner of the point of diversion, if other than the applicant is (please print):

Verle and Phyllis Holdeman, 12927 W 1st St. Halstead, KS 67056

(name, address and telephone number)

(name, address and telephone number)

You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with this application. In lieu thereof, you may sign the following sworn statement:

I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct.

Executed on 1-15, 2016.



Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

7. The proposed project for diversion of water will consist of 1 (one) Well

(number of wells, pumps or dams, etc.)

and (was)(will be) completed (by) 5/1/2016

(Month/Day/Year - each was or will be completed)

8. The first actual application of water for the proposed beneficial use was or is estimated to be 6/1/2016

(Mo/Day/Year)

9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?
 Yes No If "yes", a check valve shall be required.

All chemigation safety requirements must be met including a chemigation permit and reporting requirements.

10. If you are planning to impound water, please contact the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water Resources? Yes No

- If yes, show the Water Structures permit number here NA
 - If no, explain here why a Water Structures permit is not required NA
-
-

11. The application must be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers. Also, please show the following information:

- (a) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) should be plotted as described in Paragraph No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section.
- (b) If the application is for groundwater, please show the location of any existing water wells of any kind within 1/2 mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please advise us.
- (c) If the application is for surface water, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.
- (d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.
- (e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.

A 7.5 minute U.S.G.S. topographic map may be obtained by providing the section, township and range numbers to: Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence, Kansas 66047.

12. List any application, appropriation of water, water right, or vested right file number that covers the same diversion points or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.

none

**WATER RESOURCES
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JAN 19 2016

13. Furnish the following well information if the proposed appropriation is for the use of groundwater. If the well has not been completed, give information obtained from test holes, if available.

Information below is from: Test holes Well as completed Drillers log attached

Well location as shown in paragraph No.	(A)	(B)	(C)	(D)
Date Drilled	6/23/15	_____	_____	_____
Total depth of well	120'	_____	_____	_____
Depth to water bearing formation	80'	_____	_____	_____
Depth to static water level	30'	_____	_____	_____
Depth to bottom of pump intake pipe	_____	_____	_____	_____

14. The relationship of the applicant to the proposed place where the water will be used is that of

Owner

(owner, tenant, agent or otherwise)

15. The owner(s) of the property where the water is used, if other than the applicant, is (please print):

Verle and Phyllis Holdeman, 12927 W 1st St. Halstead, KS 67056

(name, address and telephone number)

(name, address and telephone number)

16. The undersigned states that the information set forth above is true to the best of his/her knowledge and that this application is submitted in good faith.

Dated at Halstead, Kansas, this 15 day of January, 2016.
(month) (year)

[Signature]
(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by Steve Flaherty GMD2 hydrogeologist Date: June 26, 2015
(office/title)

IRRIGATION USE SUPPLEMENTAL SHEET

File No. 49,539

Name of Applicant (Please Print): Verle Holdeman

1. Please supply the name and address of each landowner, the legal description of the lands to be irrigated, and designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Landowner of Record NAME: Verle D. and Phyllis A. Holdeman

ADDRESS: 12927 W 1st St. Halstead, KS 67056

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18	23S	3W			32	20									15	23			90

Landowner of Record NAME: _____

ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Landowner of Record NAME: _____

ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

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2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
<u>Lady Smith Silt Clay Loam</u>	<u>26</u>	<u>0.0-0.06</u>	<u> </u>
<u>Carwile fine sandy loam</u>	<u>74</u>	<u>0.06-0.2</u>	<u> </u>

Total: 100 %

b. Estimate the average land slope in the field(s): 0-2 %

Estimate the maximum land slope in the field(s): 2 %

c. Type of irrigation system you propose to use (check one):

- Center pivot Center pivot - LEPA "Big gun" sprinkler
 Gravity system (furrows) Gravity system (borders) Sideroll sprinkler

Other, please describe: _____

d. System design features:

i. Describe how you will control tailwater: Will schedule and apply irrigation to eliminate run-off

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: Not yet available psi

(2) What is the sprinkler package design rate? Not yet available gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? Not yet available feet

(4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations: Corn, Soy, Wheat, Milo

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation). Crop Consultant

You may attach any additional information you believe will assist in informing the Division of the need for your request.

1-15-2016
(Date)

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

Re: Application File No. 49,539

Minimum Desirable Streamflow

Dear Sir:

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. I realize that this could affect the economics of my decision to appropriate water.

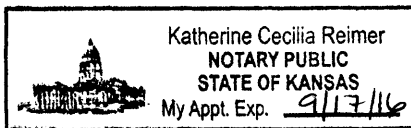
I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

[Signature]
Signature of Applicant

State of Kansas)
County of Harvey) ss

Verle Holdeman
(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 15th day of January, 2016.



[Signature]
Notary Public

My Commission Expires: 9/17/2016

WATER RESOURCES
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JAN 19 2016
SCANNED

KS DEPT OF AGRICULTURE

**MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN
APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT
TO APPROPRIATE WATER FOR BENEFICIAL USE**

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)
Neosho River

Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River

Wells Within ½ mile

#1 Domestic well
Ginger and Brian Bauer
PO Box 181
Burrton, KS 67020-0181

#2 Domestic well
Albert and Pamela Polk
826 N Wheat State Road
Burrton, KS 67020

#3 Domestic well
Calvin and Earline Polk Trust
7 8th Edgemore
Hutchinson, KS 67502-5644

#4 Domestic well
Jerome & Patricia Bruce
715 N. Wheat State Road
Burrton, KS 67020

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JAN 19 2016

SCANNED
KS DEPT OF AGRICULTURE

49,539

IRRIGATION TEST WELL

Driller & Assistant: Logan and Tyler Date: 6/29/2015

CUSTOMER: Verle Holdeman 620-345-6803 12927 W. 1st HALSTEAD, KS 67056

LOCATION: 1 mile west and 1 mile north of Burrton, KS

- Screen 2-1/2" Holeplug Gas & Oil - W.T. 6" or 5" Liner if needed
- Casing 2-1/2" Quarters 3/4" Polyethylene Solvent & Glue
- Couplings, 2-1/2" Water 2-1/2" PVC Tee Water Sample Bottle
- End Caps, 2-1/2" Lime 5" & 6" Bits Inspection Sheet
- Gravel Pack Drilling Mud Packing

Depth:	Formation:	Well Information:
0-3'	top soil	Static Water Level: <u>38' approx</u>
3-4'	clay sandy	Est. production: <u>300-600 gpm</u>
4-21'	SAND coarse	Casing depth: <u>0-90'</u>
21-31'	clay tan	Screen depth: <u>90-110'</u>
31-36'	SAND fine-medium	Slot size: <u>SAN cut</u>
36-71'	clay Grey w/ small ^{layers} of fine sand	Grouting depth: <u>0-20'</u>
71-75'	SAND FINE	Number of bags: <u>2</u>
75-80'	clay Grey	Nearest Contamination: <u>none</u>
80-114'	SAND fine to med.	<u>within 1/4 mile</u>
114-125'	clay Browns	Maintenance & Safety:
		Notes:

Directions:

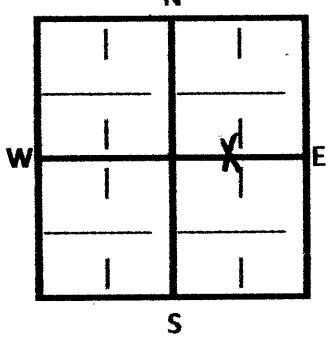
Latitude: 38.0510061 N decimal degrees (ex. 38.881796)

Longitude: -97.68912435 W decimal degrees (ex. 95.373889)

Datum: NAD27 NAD83 WGS84

1461

SE 1/4	SE 1/4	SW 1/4	NE 1/4
Sec. 18	T 23	R 3	<u>X</u>
County <u>HARVEY</u>			



\$8⁰⁰ x 120' /ft. Well

\$50⁰⁰ /Grout

\$ none /Test Pumping

\$75⁰⁰ /Water Sample

\$ none /Mobilization/Travel

Contract Received: 6/17/15

Invoice #: 1137

Date Mailed: _____

Well Data: _____ Access: _____

Materials: _____ Incent: N/A

WATER RESOURCES
RECEIVED

JAN 19 2016
SCANNED
KS DEPT OF AGRICULTURE



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

49,539

Sample # 3233.15
 Sample: Water Verle Holdeman well
 Other ID: 6/24/2015

Date Received: 06/26/2015
 Date Reported: 07/01/2015
 Total Fee: 35.00

PETERSON MCNETT DRILLING
 PO BOX 207
 LINDSBORG, KS 67456

ANALYSIS

	Dry Basis	As Received	
++pH - SM 4500-H+ B		7.79	s.u.
++Chloride - SM 4500-Cl B		9.99	mg/L
++Total Hardness - SM 2340B		178	mg/L
++Nitrate-Nitrogen - SM 4500-NO3 D		Less than 1.0	mg/L
++Calcium - SM 3111B		59.50	mg/L
++Magnesium - SM 3111B		7.13	mg/L
++Sodium - SM 3111B		22.10	mg/L
++Sulfate - SM 4500 SO4 E		50.00	mg/L
% Sodium		25.00	%
SAR-Sodium Absorption Ratio		0.719	s.u.
++Electrical Conductivity - SM 2510B		364	umhos/cm
TDS-Total Dissolved Solids - Calculated		258	mg/L
Irrigation Quality Rating		AS FOLLOWS	
Light Soil -Salinity Hazard		Low	
Light Soil - Sodium Hazard		Low	
Medium Soil -Salinity Hazard		Low	
Medium Soil -Sodium Hazard		Low	
Heavy Soil -Salinity Hazard		Low	
Heavy Soil -Sodium Hazard		Low	
General Comment:		Excellent to Good	

**WATER RESOURCES
 RECEIVED
 JAN 19 2016**

**Sample receipt temperature = 22.4 degrees C.
 **Sample beyond hold time for pH.
 **No sample time listed.

KS DEPT OF AGRICULTURE

Water Rights and Points of Diversion Within 2.00 miles of point defined as:

2787 ft N and 1470 ft W of the SE Corner of Section 18, T 23S, R 3W

Located at: 97.688760 West Longitude and 38.050851 North Latitude

GROUNDWATER ONLY

File Number	Use	ST	SR	Dist	(ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit
A__ 17756	00	MUN	NK	G	7236	--	NW	NW	NW	5211	5223	16	23	3W	4		139.50	139.50	AF
A__ 24585	00	IRR	NK	G	9469	--	NC	E2	SW	1322	2660	16	23	3W	5		233.00	233.00	AF
A__ 28063	00	IRR	NK	G	6813	--	--	--	--	3850	50	17	23	3W	1		27.00	27.00	AF
A__ 31654	00	IRR	NK	G	8964	--	SW	SE	SW	324	3524	9	23	3W	3		4.50	4.50	AF
A__ 37108	00	MUN	LR	G	7236	--	NW	NW	NW	5211	5223	16	23	3W	4		66.90	66.90	AF
A__ 44110	00	IRR	NK	G	4716	--	NW	SE	NW	3875	3576	19	23	3W	3		133.00	133.00	AF
A__ 44110	00	REC	NK	G	4716	--	NW	SE	NW	3875	3576	19	23	3W	3		31.00	31.00	AF
A__ 45629	00	IRR	NK	G	4605	--	NW	SW	NW	3730	5241	20	23	3W	2 G	2	153.00	153.00	AF
Same					4353	--	SW	NW	NW	4000	5235	20	23	3W	3 B	2			
Same					4858	--	NW	SW	NW	3461	5247	20	23	3W	4 B	2			
A__ 46774	00	IND	HK	G	8663	--	NC	NE	SE	1915	660	20	23	3W	5		84.33	84.33	AF
A__ 49117	00	IRR	GY	G	6134	--	NE	NE	SE	2500	650	17	23	3W	3		31.20	31.20	AF
A__ 49539	00	IRR	AY	G	0	--	SE	SW	NE	2787	1470	18	23	3W	2		117.00	117.00	AF
T__ 20079061	00	HYD	GY	G	8663	--	NC	NE	SE	1915	660	20	23	3W	5		220.00	220.00	AF

903-43
total incr
appropriations

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	117.00	.00
Total Permitted Amount (AF) =	335.53	.00
Total Inspected Amount (AF) =	66.90	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	721.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	1240.44	.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 2.00 miles of point defined as:

97.688760 West Longitude and 38.050851 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
A__ 17756	00	MUN	NK G
> CITY OF BURRTON			
> SUPERINTENDENT			
> 203 N BURRTON AVE BOX 100			
> BURRTON KS 67020			
>-----			
A__ 24585	00	IRR	NK G
> CRC CONSTRUCTORS INC			
>			
> 1302 E MORGAN AVE			
> HUTCHINSON KS 67501			
>-----			

A__ 28063 00 IRR NK G
> TRAVIS G & KRISTY A SCOTT
>
> 3424 PRAIRIE HILLS DR
> HUTCHINSON KS 67502

A__ 31654 00 IRR NK G
> LARRY G & RUTH A SMITH
>
> 21124 NW 12TH ST
> BURRTON KS 67020

A__ 37108 00 MUN LR G
> CITY OF BURRTON
> SUPERINTENDENT
> 203 N BURRTON AVE BOX 100
> BURRTON KS 67020

A__ 44110 00 IRR NK G
> MARC A BOESE
>
> 218 S WHEATSTATE RD
> BURRTON KS 67020

A__ 44110 00 REC NK G
> MARC A BOESE
>
> 218 S WHEATSTATE RD
> BURRTON KS 67020

A__ 45629 00 IRR NK G
> MARC A BOESE
>
> 218 S WHEATSTATE RD
> BURRTON KS 67020

A__ 46774 00 IND HK G
> JERROLD L UNRUH
> FLORENCE ROCK COMPANY
> 13707 NW DIAMOND RD
> NEWTON KS 67114

A__ 49117 00 IRR GY G
> ROGER & DONNA ORPIN
>
> 531 N BURMAC RD
> BURRTON KS 67020

A__ 49539 00 IRR AY G
> VERLE D & PHYLLIS HOLDEMAN
>
> 12927 W 1ST ST

> HALSTEAD KS 67056

T__20079061 00 HYD GY G
> JERROLD L UNRUH
> FLORENCE ROCK COMPANY
> 13707 NW DIAMOND RD
> NEWTON KS 67114

=====

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

August 16, 2016

VERLE HOLDEMAN
12927 W 1ST STREET
HALSTEAD KS 67056

FILE COPY

Re: Application
File No. 49,539

Dear Mr. Holdeman:

We have received a recommendation from the Equus Beds Groundwater Management District No. 2 that the referenced Application for Permit to Appropriate Water for Beneficial Use be denied. This recommendation has been based upon the groundwater management program adopted by the District and approved by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture.

You must show cause **in writing** why the referenced application should not be dismissed. If a written response establishing good cause is not received by this office on or before August 31, 2016, 2016, the above referenced appropriations will be dismissed and their priorities forfeited.

If you have any questions, please contact me at (785) 564-6631 or alex.whitesell@ks.gov. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,

Alex Whitesell
Environmental Scientist
Water Appropriation Program

pc: Stafford Field Office
GMD No. 2

SCANNED

FRED SEILER, PRESIDENT
VIN KISSICK, VICE PRESIDENT
JEFF WINTER, SECRETARY
MIKE MCGINN, TREASURER
TIM BOESE, MANAGER
THOMAS A. ADRIAN, ATTORNEY



DIRECTORS:
DAVID BOGNER
ALAN BURGHART
JOE PAJOR
BOB SEILER
DAVID STROBERG

EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2

313 SPRUCE STREET • HALSTEAD, KANSAS 67056-1925 • PHONE (316) 835-2224 • FAX (316) 835-2225 • equusbeds@gmd2.org • www.gmd2.org

June 9, 2016

Verle Holdeman
12927 W. 1st Street
Halstead, KS 67056

WATER RESOURCES
RECEIVED

JUN 13 2016

KS DEPT OF AGRICULTURE

Re: Water Appropriation Application No. 49539

Dear Mr. Holdeman:

The purpose of this correspondence is to advise you that the referenced water appropriation application is scheduled for review at the **June 21, 2016**, Board of Directors meeting of the Equus Beds Groundwater Management District. Please note that this meeting date is a change from the District Board of Directors' normally scheduled meeting date of June 14, 2016. Due to a lack of available Board members able to attend, the meeting has been rescheduled to June 21, 2016.

The public meeting begins at 1:00 p.m. and will be held in the Equus Beds Groundwater Management District's conference room at 313 Spruce Street, Halstead, Kansas. A copy of the meeting agenda is enclosed for your information.

Please contact the District if you have any questions or need additional information.

Sincerely,
EQUUS BEDS GROUNDWATER
MANAGEMENT DISTRICT NO. 2

Tim Boese
Manager

TDB/db

Enclosure: Agenda

Pc: ~~Erin McGrogan~~, Division of Water Resources, Manhattan
Jeff Lanterman, Division of Water Resources, Stafford
Jerome T & Patricia A Bruce, nearby well owners
Keith & Ginger Bauer, nearby well owners
Albert & Pamela Polk, nearby well owners
Calvin & Earline Polk Trust, nearby well owners

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

April 18, 2016

VERLE D & PHYLLIS HOLDEMAN
12927 W 1ST ST
HALSTEAD KS 67056-9216

Re: Application
File No. 49,539

Dear Mr. Holdeman:

This will acknowledge receipt of an email dated April 8, 2016, from Stephen Flaherty, Hydrogeologist, Equus Beds GMD No. 2, in which he stated that the Board of Directors tabled making a decision on your applications. Mr. Flaherty further requested an extension of time until May 31, 2016, to make a recommendation on your applications.

Based upon the request of Mr. Flaherty, the Chief Engineer has extended until May 31, 2016, the time in which to submit a recommendation before final action will be taken on your application.

If additional information is not supplied by the deadline, or any authorized extension of time thereof, the application will be submitted to the Chief Engineer for final action. According to the law, default in supplying the requested information, within the time allowed, shall constitute forfeiture of the priority date and dismissal of the application.

If you wish to request additional time, you must do so in writing, before the period expires. Such a request should state what steps are being taken to supply the requested information.

If you have any questions, please contact our office at, (785) 564-6631. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

A handwritten signature in black ink, appearing to read "Alex Whitesell".

Alex Whitesell
Environmental Scientist
Water Appropriation Program

Enclosure(s)

pc: Stafford Field Office
GMD 2

SCANNED

Whitesell, Alex

From: Stephen Flaherty <sflaherty@gmd2.org>
Sent: Friday, April 08, 2016 11:50 AM
To: Whitesell, Alex
Subject: 49539 extension

Alex,

Could we have an extension on new app #49539?

This one is in the Burrton IGUCA and will need to go before our board of directors.

I will need to do an investigation on this one and present the findings to our board of directors.

Additionally, we only have board meetings once every month so I will probably need a 60 day extension on this one to be safe.

Thank you,

Stephen Flaherty, Hydrogeologist

Equus Beds GMD No. 2

313 Spruce Street * Halstead, KS 67056

P: (316) 835-2224 * F: (316) 835-2225

www.gmd2.org

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

March 11, 2016

EQUUS BEDS GMD NO 2
313 SPRUCE STREET
HALSTEAD KS 67056-1925

Re: Application
File No. 49,539

Dear Sir or Madam:

We are enclosing a copy of the application referred to above which appears to be in proper form.

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 recommendations within the allotted time, or any authorized extension of time thereof.

If you have any questions, please contact me a 785-564-6631. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Alex Whitesell
Environmental Scientist
Water Appropriation Program

Enclosure(s)
pc: Stafford Field Office

SCANNED

Keith and Ginger Bauer
931 N Wheatstate Road Box 181
Burrton, Ks. 67020

Alex,

This letter is to inform you of our desire for you not to grant the application 49,539 in which Verle Holdeman wishes to install an irrigation system. Our reasons to oppose this are:

1. We built our house 3 years ago with the intent to live there the rest of our lives. The outside is made of brick and stone. We have to have them sprayed every 5 years to help preserve the stone for years to come. With summer winds from the south the rust water from the overspray getting onto these stones will shorten their lifespan and/or cause us to treat them more often to protect them. This comes at a cost to us of \$5000 per treatment.
2. We have outdoor playsets, grills, patio furniture, and pool equipment that will be affected by the overspray as well. This will shorten these items lifespan as well.
3. The recent drought has caused our concern over the falling water table. If approved, the irrigation system will undoubtedly lower the water table even further.

We want to be friendly neighbors and hope there is a resolution that is fair to all involved. If you have any questions you can reach us at 620.463.2830 or my cell number is 620.727.3792.

Sincerely,



Keith Bauer

Keith and Ginger Bauer
931 N Wheatstate Road Box 181
Burrton, Ks. 67020

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We want to be friendly neighbors and hope there is a resolution that is fair to all involved. If you have any questions you can reach us at 620.463.2830 or my cell number is 620.727.3792.

Sincerely,


Keith Bauer

WATER RESOURCES
RECEIVED

MAR 07 2016

KS DEPT OF AGRICULTURE

SCANNED

2-24-16

Dear Mr. Whitesell

In regards to File No. 49,539 asking for a permit to put in an irrigation well.

We have farmed our piece of ground since 1978. We are dryland and grow vegetables & have an orchard that we planted. We do not want our farm, our livelihood put in jeopardy by this massive amount of water taken from the area. Set alone putting our domestic well in danger.

I have always wondered why big irrigators have the right to use everyone's water.

This is the second time a new owner of this piece has asked for this permit. Once again we have to fight for our survival. We were here first!

I protest and I protest loudly!

WATER RESOURCES
RECEIVED

FEB 29 2016

KS DEPT OF AGRICULTURE

SCANNED

Pam Palk
826 North Wheat State
Burlington, Kansas

FEB 25 2016

KS DEPT OF AGRICULTURE

ATTN Alex Whitesell

Reasons opposing 49-539

1 Over Spray

with prevailing West + Southwest wind in the summer we would be a direct target

2 Hard water

Rust in all overspray stain house + everything it gets on

3 Dry laundry on clothes lines

4 Both House entrances on

South Side - Do not want to

be sprayed just to go outside

5 Concern over long term

drought + falling water table with extra water use. had lower water table last year

Jerome T + Patricia A Bruce

715 N Wheatstate Rd Burrton, Ks

620-727-8328

67020

Thank you for concedering J Bruce

SCANNED

Alex Whitesell File # 49,539

It was a pleasure to talk to you on the phone Feb. 22 2016. I voiced my concerns then + you said send a letter. So here it is.

We went thru this everytime there is a new land owner acquires that section of land.

I have farmed for 57 years except for the 3 years I served in the Army Infantry 1967, 1968, 1969. My Grandmother was full blooded Shawnee. She always said those who irrigate do not trust in the Creator to provide rain.

I dont irrigate, we raise Fruits + Vegetables. There is a Salt water plume just south of us. Pumping 60,000 gal/hr will bring that Salt water closer causing our personal water in jeopardy. If this landowner would use drip irrigation it would ~~not~~ ^{be} a whole lot ^{more} sensible!

Already there is a Circle Irrigation one mile south of us. When he is using it, you can see my farm Pond drop. Why would anyone take my Grandchildren + Great Grandchildrens water just to have a fast fix to raise a Crop of Corn. We need to get back to raising crops

WATER RESOURCES
RECEIVED

FEB 25 2016

KS DEPT OF AGRICULTURE

SCANNED

that is right for this area without
using water (Wheat + Grain Sorghum)

If this well is permitted to be drilled
I see a lot of problems in our
personal wells in the near future.

Albert & Pamela Polk phone 620-899-8904
Earline & Calvin Polk
826 N. Wheat State Road
Burton Kansas 67020

WATER RESOURCES
RECEIVED

FEB 25 2016

KS DEPT OF AGRICULTURE

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

February 16, 2016

CALVIN & EARLINE POLK TRUST
78TH EDGEMORE
HUTCHINSON KS 67502

Re: Application
File No. 49,539

Dear Sir or Madam:

This is to advise you that Verle Holdeman has filed the application referred to above for permit to appropriate 117 acre-feet of water per calendar year for irrigation use to be diverted at a maximum rate of 1000 gallons per minute from a well or wells located as follows:

one (1) well located in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 18, more particularly described as being near a point 2,787 feet North and 1,470 feet West of the Southeast corner of said section, in Township 23 South, Range 3 West, Harvey County, Kansas.

A copy of an aerial photograph depicting the location of the proposed point of diversion is also enclosed. Records in this office indicate that you may have a well or wells in this vicinity and you are notified of receipt of this application in order that you may be fully informed of the proposed location(s) of the applicant's point(s) of diversion and proposed use of water. Consideration will be given to comments or other information which you desire to submit to this office within 15 days from the date of this letter.

If you have any questions, please contact me at (785) 564-6631. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Alex Whitesell
Environmental Scientist
Water Appropriation Program

AJW:

Enclosure(s)

pc: Stafford Field Office
Groundwater Management District No. 2

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

February 16, 2016

JEROME & PATRICIA BRUCE
715 N WHEAT STATE ROAD
BURRTON KS 67020

Re: Application
File No. 49,539

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If you have any questions, please contact me at (785) 564-6631. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Alex Whitesell
Environmental Scientist
Water Appropriation Program

AJW:

Enclosure(s)

pc: Stafford Field Office
Groundwater Management District No. 2

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

February 16, 2016

GINGER & BRIAN BAUER
PO BOX 181
BURRTON KS 67020-0181

Re: Application
File No. 49,539

Dear Sir or Madam:

This is to advise you that Verle Holdeman has filed the application referred to above for permit to appropriate 117 acre-feet of water per calendar year for irrigation use to be diverted at a maximum rate of 1000 gallons per minute from a well or wells located as follows:

one (1) well located in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 18, more particularly described as being near a point 2,787 feet North and 1,470 feet West of the Southeast corner of said section, in Township 23 South, Range 3 West, Harvey County, Kansas.

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If you have any questions, please contact me at (785) 564-6631. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Alex Whitesell
Environmental Scientist
Water Appropriation Program

AJW:

Enclosure(s)

pc: Stafford Field Office
Groundwater Management District No. 2

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

February 16, 2016

ALBERT & PAMELA POLK
826 N WHEAT STATE ROAD
BURRTON KS 67020

Re: Application
File No. 49,539

Dear Sir or Madam:

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Sincerely,

Alex Whitesell
Environmental Scientist
Water Appropriation Program

AJW:

Enclosure(s)

pc: Stafford Field Office

Groundwater Management District No. 2

SCANNED



1320 Research Park Drive
Manhattan, Kansas 66502

Jackie McClaskey, Secretary

Phone: (785) 564-6700
Fax: (785) 564-6777
Email: ksag@kda.ks.gov
www.agriculture.ks.gov
Sam Brownback, Governor

January 20, 2016

VERLE HOLDEMAN
12927 W 1ST
HALSTEAD KS 67056

RE: Application
File No. 49539

Dear Sir or Madam:

Your application for permit to appropriate water in 18-23S-3W in Harvey County, was received and has been assigned the file number noted above.

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. Once review of your application has begun, we will contact you, if additional information is required.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water as proposed prior to approval of the application is unlawful. 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) 564-6634. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Kenneth A. Kopp, P.G.
New Application Unit Supervisor
Water Appropriation Program

KAK: DLW
pc: STAFFORDField Office
GMD 2

SCANNED

FRED SEILER, PRESIDENT
VIN KISSICK, VICE PRESIDENT
JEFF WINTER, SECRETARY
MIKE MCGINN, TREASURER
TIM BOESE, MANAGER
THOMAS A. ADRIAN, ATTORNEY



DIRECTORS:
DAVID BOGNER
ALAN BURGHART
JOE PAJOR
BOB SEILER
DAVID STROBERG

EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2

313 SPRUCE STREET • HALSTEAD, KANSAS 67056-1925 • PHONE (316) 835-2224 • FAX (316) 835-2225 • equusbeds@gmd2.org • www.gmd2.org

June 23, 2016

Chief Engineer, Division of Water Resources
Attn: Alex Whitesell
1320 Research Park Drive
Manhattan, KS 66502

Re: Application No. 49539 – Verle Holdeman

Dear Mr. Whitesell:

The referenced application was reviewed by the Equus Beds Groundwater Management District No. 2, Board of Directors at the June 21, 2016, meeting. District staff and the applicant presented information regarding the application. A copy of the District's Application Review Information report is enclosed for your information.

Upon review of the information presented and discussed at the meeting, and based on findings that:

1. Application no. 49539 proposes the withdrawal of 117 acre-feet at a maximum rate of 1000 gallons per minute for the irrigation of 90 acres from a single well located 2787 ft north and 1470 ft west of the southeast corner of Section 18, Township 23 south, Range 3 west.
2. The application complies with the District's well spacing rule and regulation K.A.R. 5-22-2(a).
3. The application complies with safe yield Rule and Regulation K.A.R. 5-22-7.
4. Four nearby well owners responded with written concerns about application no. 49539. Several phone calls were also received.
5. The competency of the uppermost clay layer is unknown and the distribution of underlying clay units are unknown, the test well was not drilled to bedrock.
6. Groundwater and the contaminant plume are moving east in the shallow zone of the aquifer and are potentially downgradient of a 600ppm chloride zone.
7. Groundwater and the contaminant plume are moving east-northeast in the middle/lower zone of the aquifer. The proposed PD is downgradient of a maximum contamination zone.
8. Upconing may affect the plume migration in the middle/lower zone depending upon the competency of the uppermost clay unit identified in the drillers log. The proposed point of diversion also has potential to adversely affect domestic wells downgradient.
9. Four houses are within ~800 feet to as close as ~200 ft of the edge of the proposed irrigation pivot and are worried about overspray and negative impacts to water quality and quantity.

It was the decision of the Board of Directors to recommend the application for denial. A District decision may be appealed to the District Board of Directors by submitting a written petition to the District office within 30 days from date of this notification, pursuant to K.A.R. 5-22-12. An appeal petition must state the basis for the appeal and must include information/documentation supporting the appeal.

Please contact the District if you have any questions regarding the District's findings or recommendation.

Sincerely,
EQUUS BEDS GROUNDWATER
MANAGEMENT DISTRICT NO. 2

Tim Boese
Manager

TDB/db

Enclosure

pc: Verle Holdeman, Applicant, with copy of K.A.R. 5-22-12
Jerome T & Patricia A Bruce, nearby well owners
Keith & Ginger Bauer, nearby well owners
Albert & Pamela Polk, nearby well owners
Calvin & Earline Polk Trust, nearby well owners
Jeff Lanterman, Division of Water Resources, Stafford

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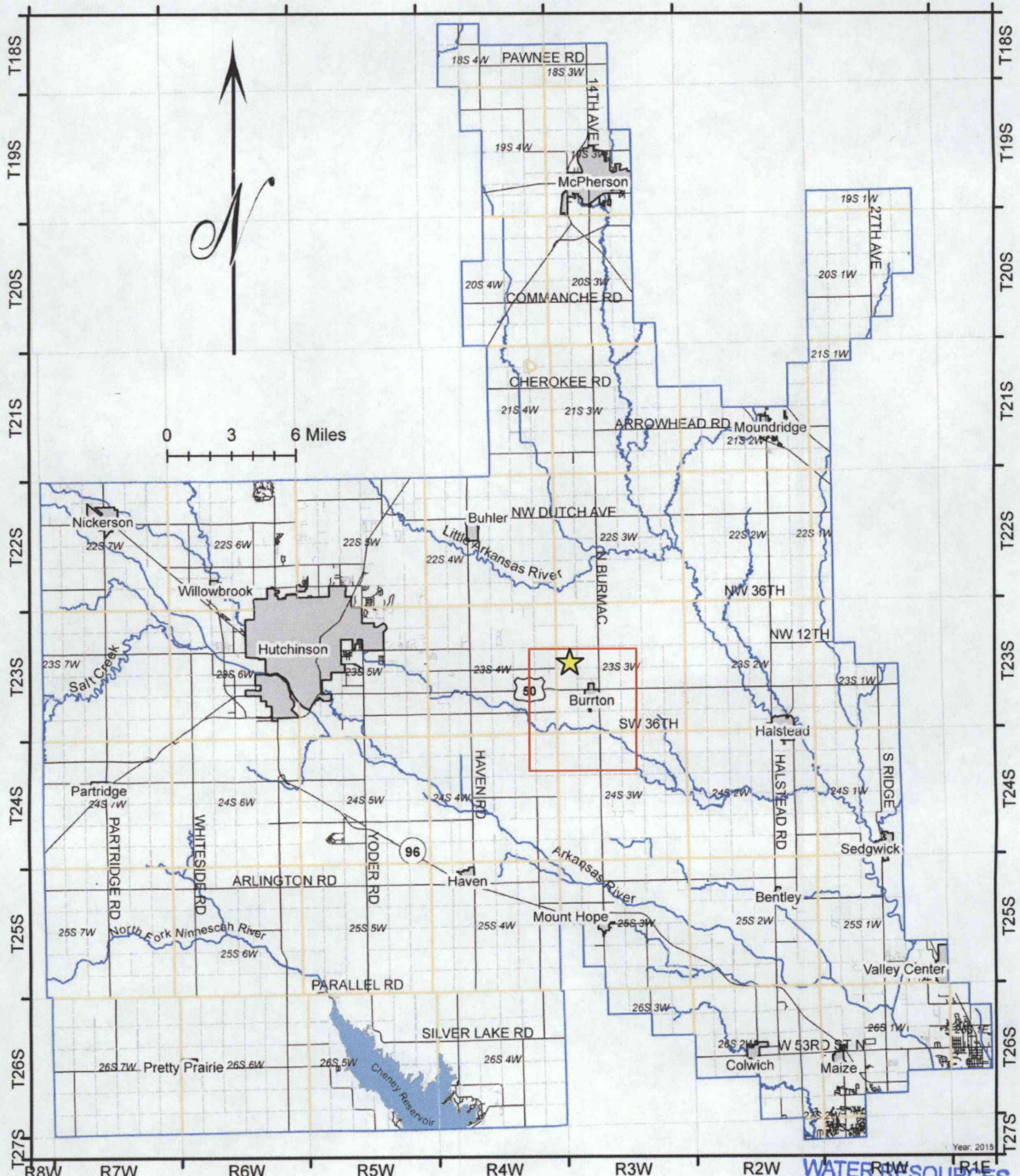
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APPLICATION REVIEW INFORMATION

NAME: Verle Holdeman
ADDRESS: 12927 W 1st. St.
Halstead, KS 67056

APPLICATION NO. 49539
NEW APPL. X
COUNTY Harvey TRACT SE-SW-NE
WELL LOCATION S 18 T 23S R 3W
QUANT 117 AF/Y RATE 1000 GPM
WELL SPACING D>660', ND>1320'



Year: 2015
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Burrton Chloride Plume Samples Collected below 120 ft of Land Surface Samples Collected During 2015 Irrigation Season

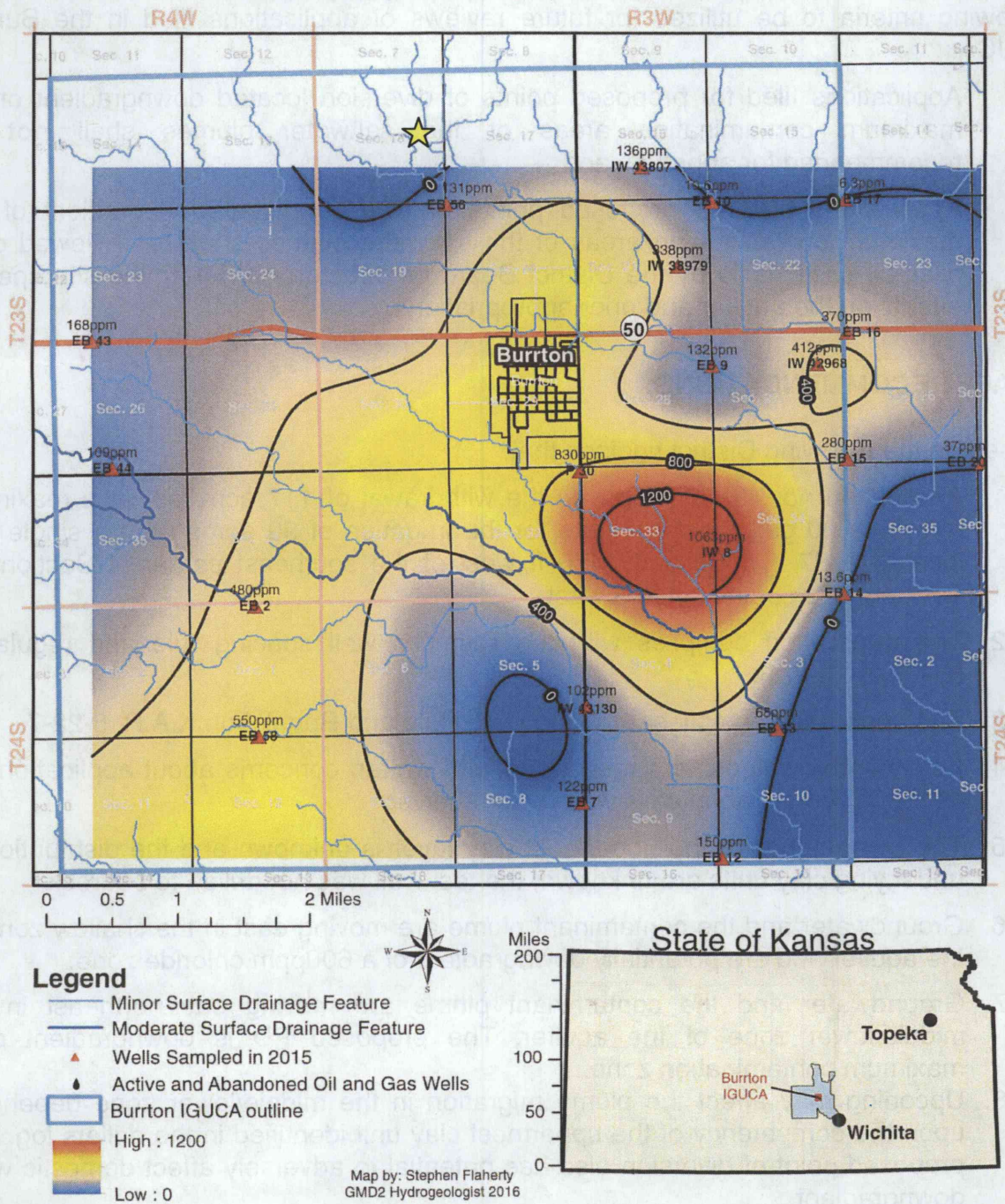


Figure 8. Chloride concentration map showing the spatial distribution of the deep zone of the Burrton Chloride plume. No samples are available for collection in the deep zone near the proposed point of diversion.

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PREVIOUS BOARD ACTION:

On April 10, 2004, the Board of Directors, by approved motion, implemented the following criteria to be utilized for future reviews of applications filed in the Burrton IGUCA:

Applications filed for proposed points of diversion located downgradient of the maximum contamination areas of the saltwater plumes shall **not** be recommended for approval; and

Applications filed for proposed points of diversion located upgradient of the maximum contamination areas of the saltwater plumes shall be reviewed on a case-by-case basis by the District Board of Directors to determine site specific effects on the aquifer and prior appropriations.

STAFF RECOMMENDATIONS:

Based on the following District findings that:

1. Application no. 49539 proposes the withdrawal of 117 acre-feet at a maximum rate of 1000 gallons per minute for the irrigation of 90 acres from a single well located 2787 ft north and 1470 ft west of the southeast corner of Section 18, Township 23 south Range 3 west.
2. The application complies with the District's well spacing rule and regulation K.A.R. 5-22-2(a).
3. The application complies with safe yield Rule and Regulation K.A.R. 5-22-7.
4. Four nearby well owners responded with written concerns about application no. 49539. Several phone calls were also received.
5. The competency of the uppermost clay layer is unknown and the distribution of underlying clay units are unknown, the test well was not drilled to bedrock.
6. Groundwater and the contaminant plume are moving east in the shallow zone of the aquifer and are potentially downgradient of a 600ppm chloride zone.
7. Groundwater and the contaminant plume are moving east-northeast in the middle/lower zone of the aquifer. The proposed PD is downgradient of a maximum contamination zone.
8. Upconing may affect the plume migration in the middle/lower zone depending upon the competency of the uppermost clay unit identified in the drillers log. The proposed point of diversion also has potential to adversely affect domestic wells downgradient.
9. Four houses are within ~800 feet to as close as ~200 ft of the edge of the proposed irrigation pivot and are worried about overspray and negative impacts to water quality and quantity.

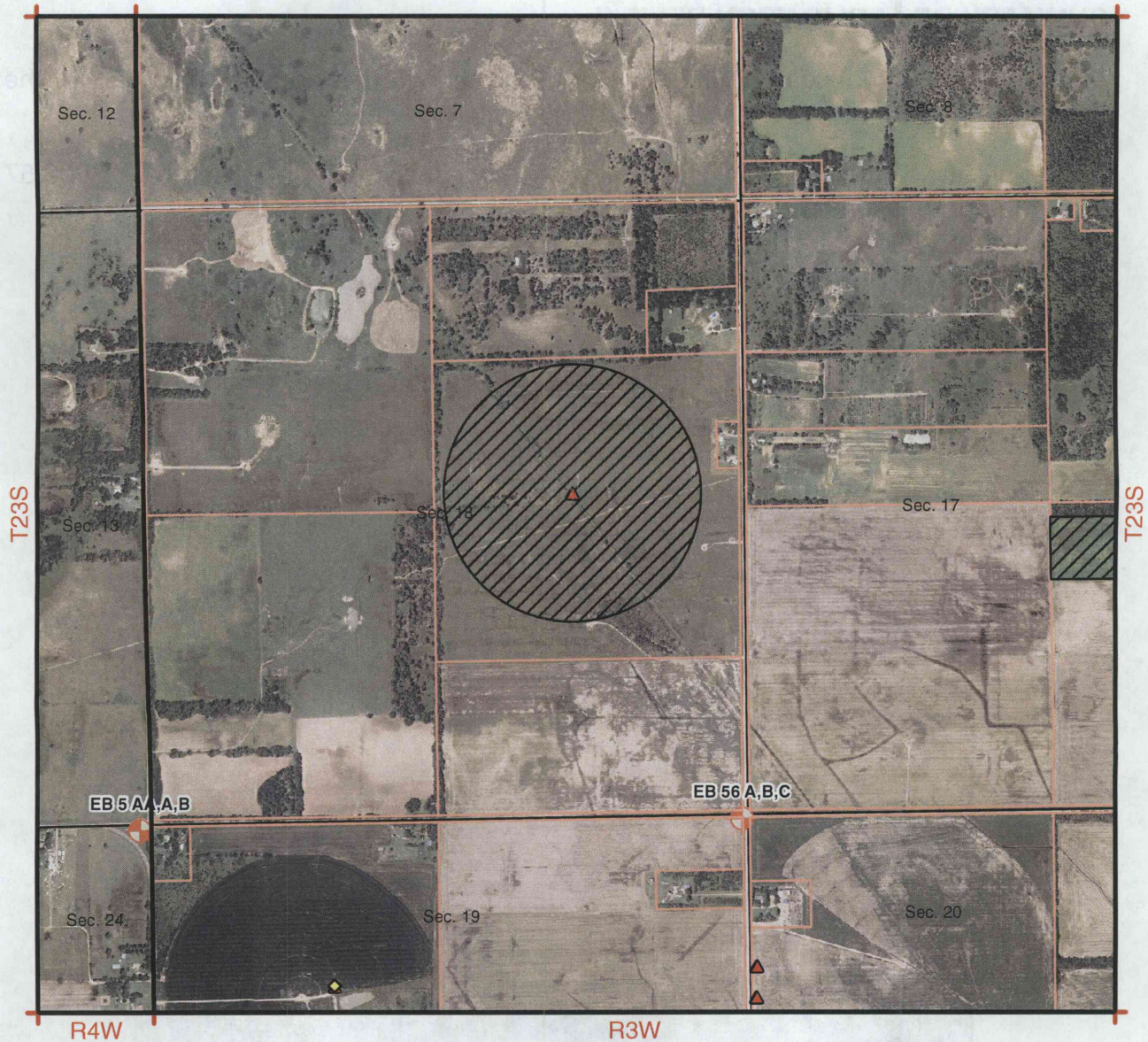
Staff recommends that the application be recommend for denial.

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Place of Use Image: Proposed place of use outlined and filled with black angled lines.

ISSUE: Board Review of a new application submitted in the Burrton IGUCA.

TIMELINE OF EVENTS:

- Jan 19, 2016** The applicant filed a new application to irrigate 90 acres in the North Half of the Southeast Quarter and the South Half of the Northeast Quarter in Section 18, Township 23 South, Range 3 West for 117 AF/yr within the Burrton IGUCA (Place of Use Image).
- May 3, 2016** The applicant was notified by mail that application no. 49539 would be heard at the May 10, 2016 board meeting.
- May 6, 2016** The applicant was notified by mail that the application would not be heard at the May 10, 2016 board meeting and will be tentatively re scheduled for the June 14th board meeting to collect more information on the groundwater gradient in the area of interest.
- Jun 9, 2016** The applicant was notified by mail that the application will be heard at the June 21, 2016 Board Meeting.

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SUMMARY OF APPLICATION REVIEW:

The application proposes one irrigation well located near the northern boundary of the Burrton IGUCA (Figure 1).

The application complies with the safe yield regulation 5-22-7(a). There are 3000.57 AF/Y of appropriations available under the current safe yield regulation.

Equus Beds Groundwater Management District No. 2

Safe Yield Evaluation #49539
 SESWNE (2787'N & 1470'W) 18-23S-03W, Harvey County
 Prepared By: Stephen Flaherty □ Date: 4/8/2016

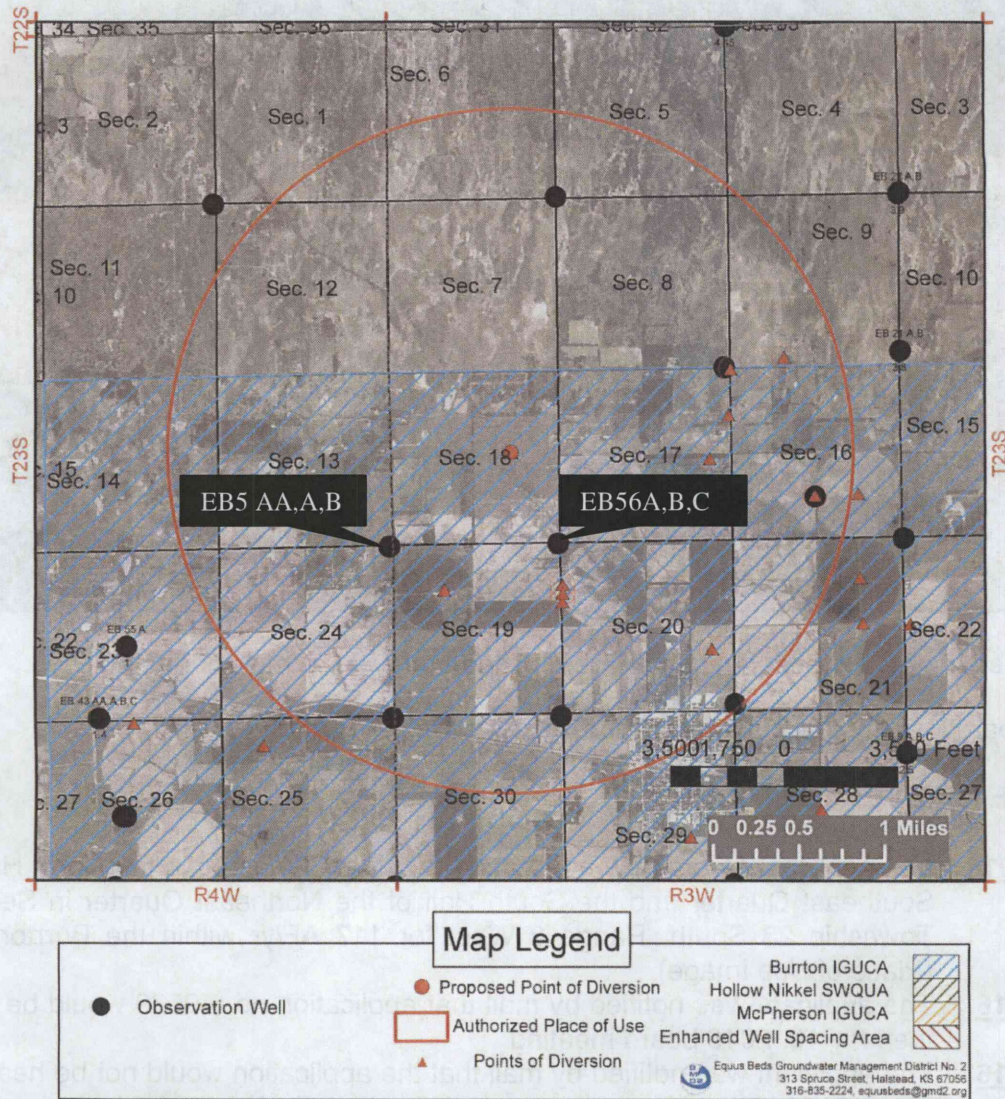


Figure 1. Proposed point of diversion and safe yield. Safe yield prepared on April 8, 2016.

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PRELIMINARY SAFEYIELD EVALUATION #49539 Holdeman							
LOCATION: SESWNE (2787'N & 1470'W) 18-23S-03W, Harvey County							
SPECIAL USE AREA: BURRTON IGUCA							
EVALUATION DATE:- 4/8/2016							
Total Areas: 8,042 acres; Area in 3 inch discharge zone: 0 acres; Area in 6 inch discharge zone: 8,042 acres							
FILE_ID	WELL_ID	TOWNSHIP	RANGE	SECTION	QUALIFIER	USE	AUTHQUANTITY
A01775600	878	23S	03W	16	52115223	MUN	139.5
A02458500	1536	23S	03W	16	13222660	IRR	233
A02806300	454	23S	03W	17	38500050	IRR	27
A03165400	948	23S	03W	9	3243524	IRR	4.5
A03710800	573	23S	03W	16	52115223	MUN	66.9
A044110IR	2760	23S	03W	19	38753576	IRR	133
A044110RE	2761	23S	03W	19	38753576	REC	31
A04562900	3192	23S	03W	20	40005235	IRR	0
A04562900	3193	23S	03W	20	34615247	IRR	0
A04562900	3094	23S	03W	20	37305241	IRR	153
A04677400	3455	23S	03W	20	19150660	IND	84.33
A04911700	4221	23S	03W	17	25000650	IRR	31.2
A04953900P	4684	23S	03W	18	27871470	IRR	117
A20079061	3463	23S	03W	20	19150660	HYD	220
Allowable Appropriations		4,021.00		Total Existing Appropriation		1,240.43	
Small User Quantity		0		Non Consumptive Appropriations		220	
Remaining SUQ		45		Consumptive Appropriations		1,020.43	
<i>Note- Values are in acre-feet</i>				Available Appropriations		3,000.57	

Table 1. Safe yield results indicate 3000.57 acre-feet of available appropriations at this location.

The application complies with the minimum spacing requirement to non-domestic and domestic points of diversion as specified by the Well Spacing Regulation 5-22-2(a) (Figure 2). DWR received 4 letters and several phone calls from nearby domestic well owner(s) in response to the application (Attachment A).

Nearby Well owners addressed the follow points in their letters:

1. Concerned about effects of overspray
 - a. Overspray will hit the houses and yards
 - b. Overspray will negatively affect masonry treatment on house.
 - c. Outdoor playsets, furniture, and pool will be affected by overspray
2. Concerned about a falling water table with extra water use.

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Equus Beds Groundwater Management District No. 2

Spacing Evaluation #49539
SESWNE (2787'N & 1470'W) 18-23S-03W, Harvey County

Prepared By: Stephen Flaherty □ Date: 4/8/2016

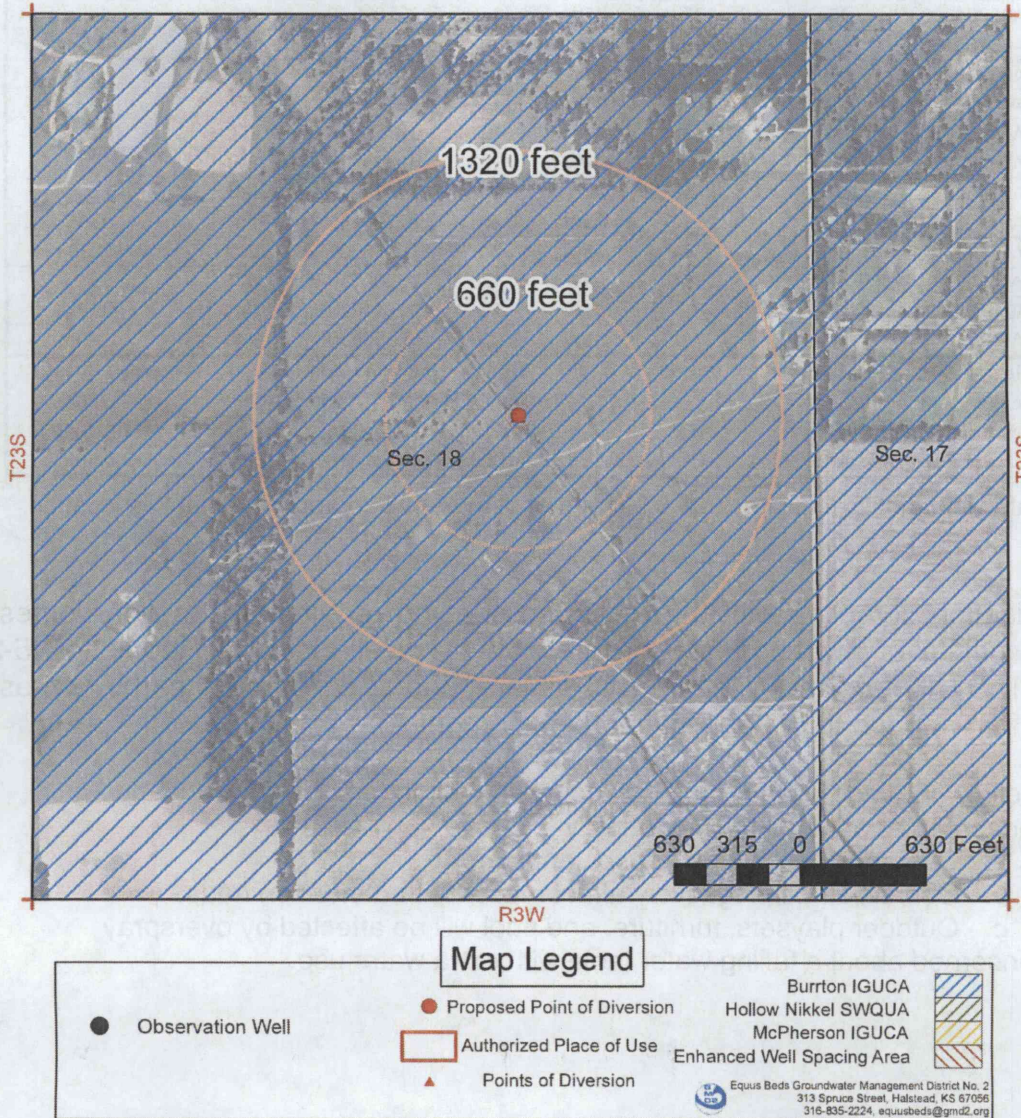


Figure 2. Spacing evaluation at the proposed point of diversion. No non-domestic points of diversion are within 1320 feet of the proposed PD and no domestic wells are located within 660 feet.

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HYDROGEOLOGIC INVESTIGATION:

The application is located in an area where oilfield waste product was disposed in pits at land surface with little to no protective measures in the 1940's. According to local accounts, the dark colored brine would channelize in drainage features. Through time, the waste brine slowly infiltrated through the soils and intersected the groundwater table. Today, the contaminant plume is largely a conglomeration of these brines.

The contaminant plume has been outlined by the IGUCA (Intensive Groundwater Use Area) boundary, a 36 square mile geopolitical boundary centered at the intersection of E Illinois Ave. and S Wheat State Rd. (Figure 4). This geopolitical boundary encompasses most of the contaminant plume to date.

The plume is often referred to as the 'Burton chloride plume'. However, while the 'chloride plume' contains mostly chlorides, there are also other chemicals found in oil field brines which are more harmful to human health and the environment. Other elements found in oil field brines include calcium, barium, iron, and strontium. In this report, it is assumed that where the chloride concentration is high, other petroleum related substances will also be found.

As a result of the 20th century oil field activity, some crude oil was lost at land surface and from poor well construction. These contaminants are often called Total Petroleum Hydrocarbons (TPH). Near EB8 (Figure 4), TPH are four times higher than the KDHE Tier 2 standard of 500 ppb in a 2014 quarterly report by APEX Companies, LLC. Groundwater consumers are wise to avoid these harmful contaminants.

Benzene, chromium, mercury, and sulfur intersected the water table from other oil spills. Some contaminants from oil field activity are less dense than water and some are more dense than water. These contaminants will naturally separate into the upper and lower portions of the aquifer. Some liquids do not mix well with water and are called Light Non Aqueous Phase Liquids (LNAPL's) and Dense Non Aqueous Phase Liquids (DNAPL's).

Migration of the plume is advective which means that it generally follows groundwater flow directions. However, the salt rich brines are more dense than the groundwater and will preferentially fall to the lowest confining unit. Interbedded clay lenses and less permeable sediments restrict or retard the vertical and horizontal movement of the chloride plume. Therefore, chloride concentrations change with depth and location. The aquifer in the IGUCA has been divided into three general levels; upper, middle, and lower.

Chloride concentrations in the upper, middle, and lower sand intervals of the aquifer were evaluated around the applicants proposed point of diversion. Identifying the concentration and location of the plume in each sand interval will assist in making wise management decisions to comply with the Goals of the Districts Aquifer Management Program.

Shallow Zone

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Water Levels

District staff have measured water levels in the uppermost zone of the aquifer within 1 mile of the area at two observation wells since 1986. Well EB 56A is approximately 3200 feet downgradient of the proposed point of diversion (Figure 3). Well EB5A is approximately 4700 feet upgradient of the proposed point of diversion.

GMD2 staff collected depth to groundwater measurements in the immediate vicinity of the proposed point of diversion in May 2016. All measurements were collected in the same afternoon.

Groundwater Flow Direction and Potentiometric Surface Contours of the Shallow Aquifer North of Burton, KS

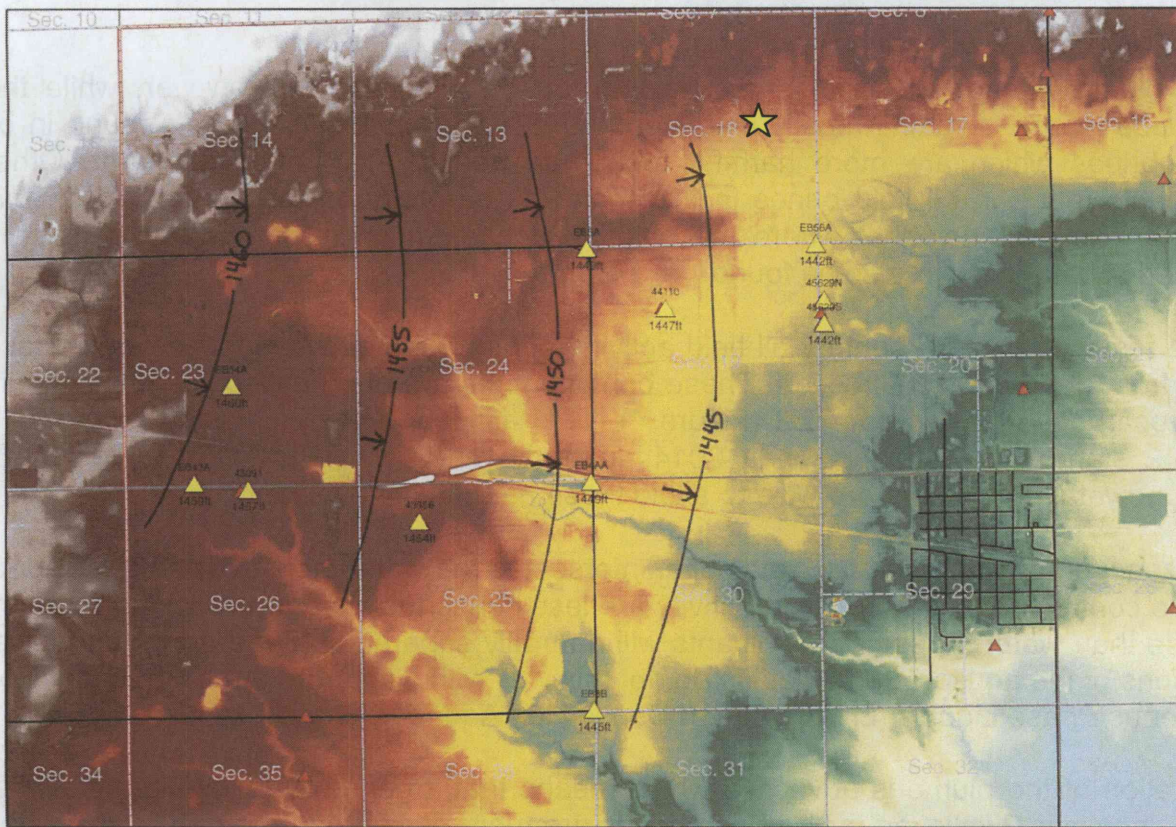
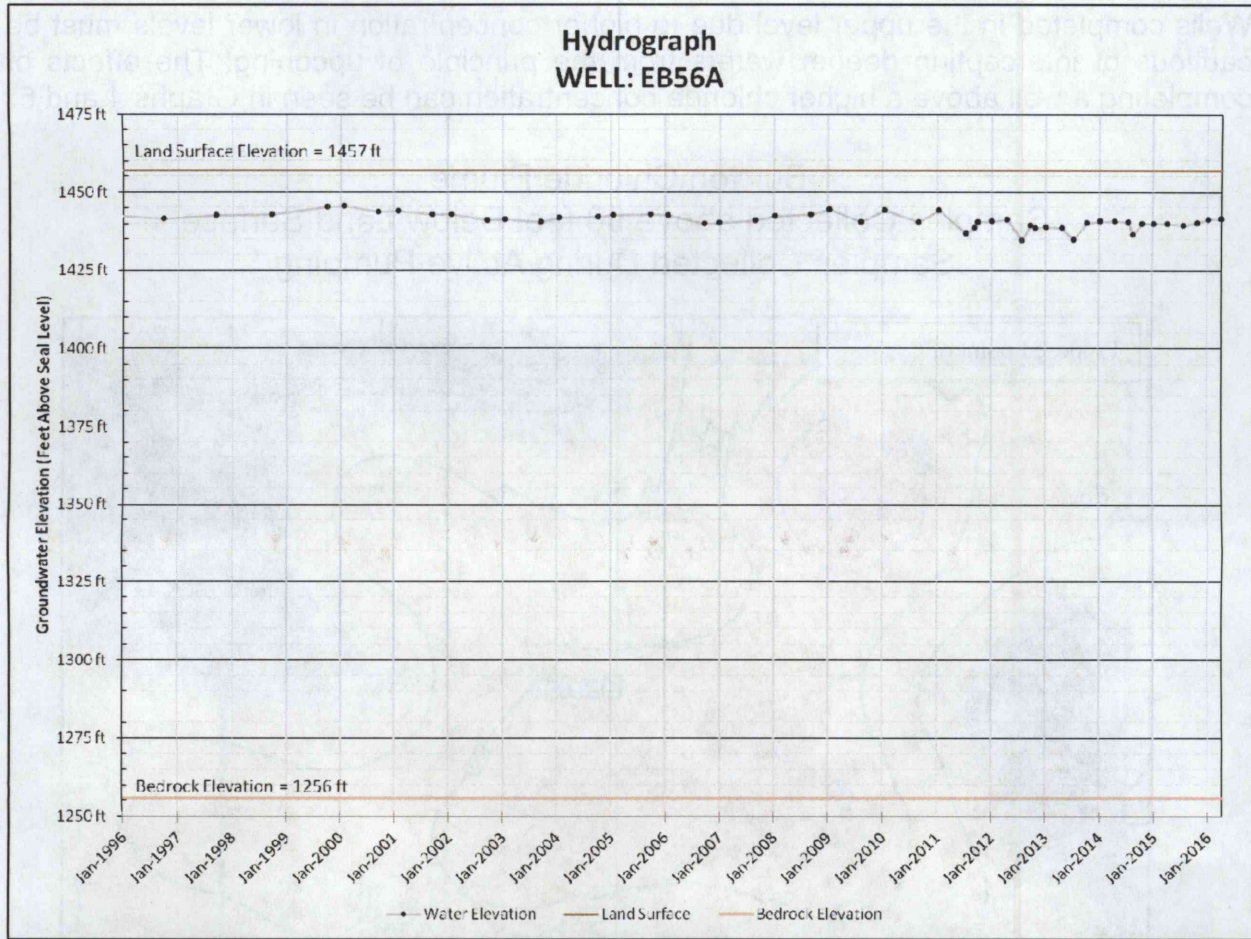


Figure 3. May 2016 groundwater gradient and flow direction. Sampled wells shown by yellow triangles. Groundwater Elevation labeled beside point. Black arrows indicate groundwater flow direction. The groundwater gradient is approximately 14 feet per mile to the east southeast.

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Graph 1. Hydrograph representing the water levels through time show no significant uniform change from pumping season to non pumping season. Additionally, the depth to water measurements show no significant increase or decreasing trend through time.

Theoretical drawdown was calculated using the Theis method. The following numbers were used:

- Saturated Thickness – 228 ft
- Hydraulic Conductivity – 40ft/d
- Transmissivity – 9120 ft²/d
- Pumping rate – 1000 GPM
- Radial distance to nearest domestic well: 1300 ft
- Storativity - .13
- Time – 26.47 days (time to pump 117 AF at 1000GPM non-stop)

The theoretical calculation resulted in 1.9 ft of drawdown at day 26

Water Quality

Down to 90 feet below land surface, chlorides in the contaminant plume range from 9 ppm at IW37108 to 610 ppm at EB5A. Average concentration in 2015 in the upper portion of the aquifer in the IGUCA is approximately 200 ppm (Figure 4).

Chloride concentrations within 1.3 miles of the proposed point of diversion range from 8.5 ppm at well P32 to 610 ppm at well EB5A (Graphs 2 and 3). Chloride concentrations have been decreasing since 1980.

Wells completed in the upper level due to higher concentration in lower levels must be cautious of intercepting deeper waters from the principle of upconing. The effects of completing a well above a higher chloride concentration can be seen in Graphs 4 and 5.

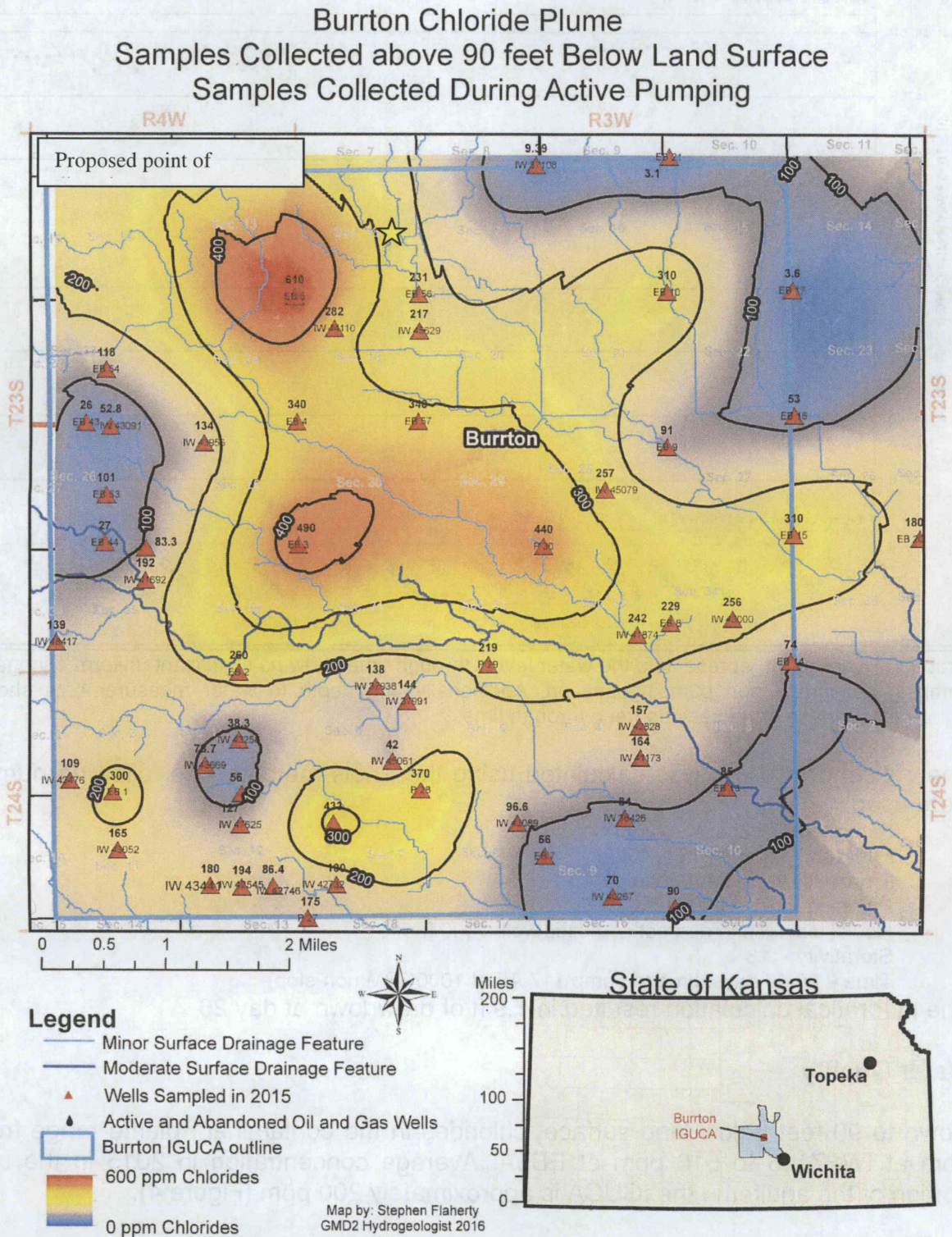
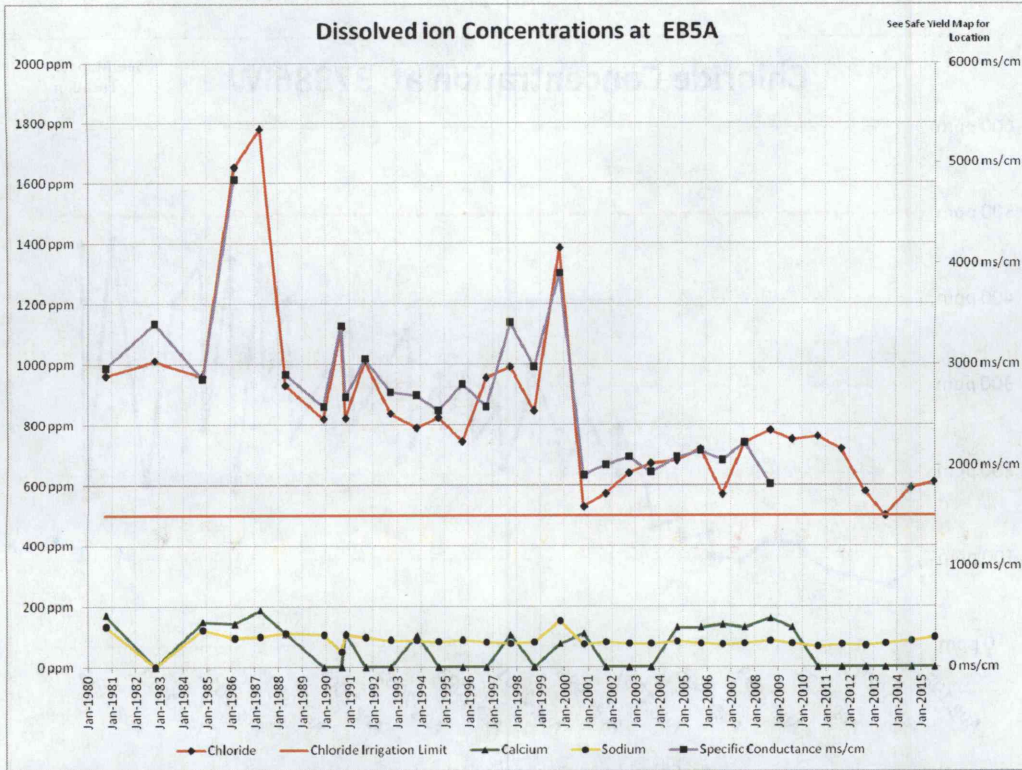


Figure 4. Outline of Burrton IGUCA in light blue and chloride contamination area from the water table to 90 feet below land surface. This map was created from 2015 data.

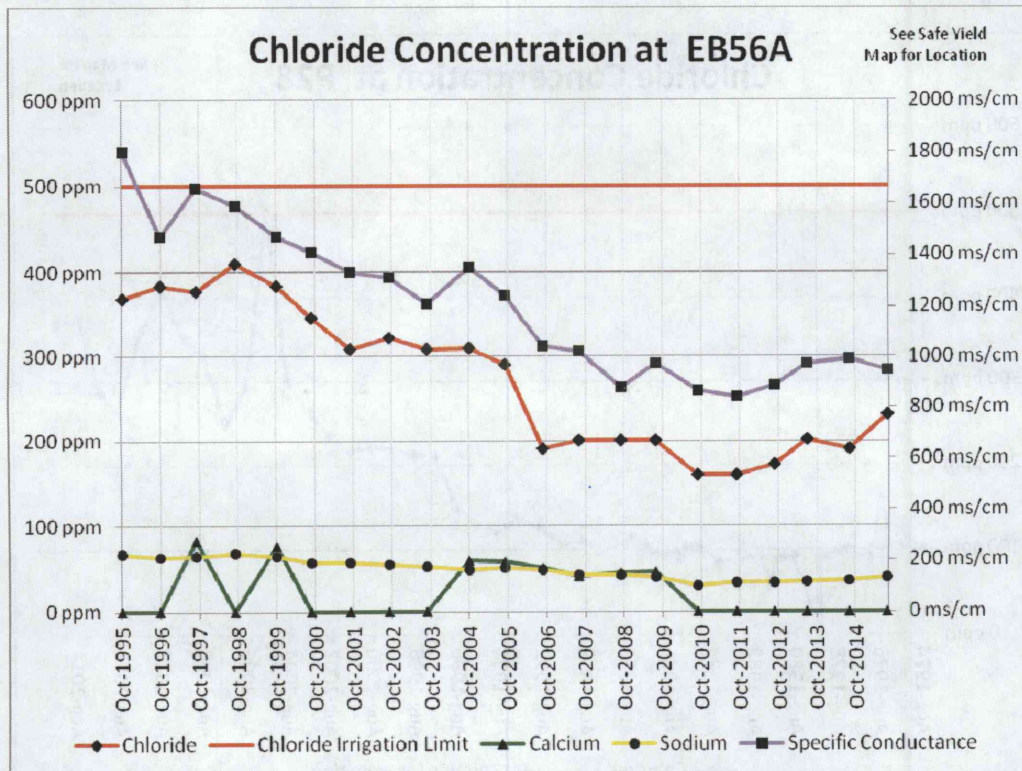
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Graph 2. Chloride concentration at well EB5A. The samples are collected from a depth of 55 feet. The decreasing chloride concentration indicates that this observation well is upgradient of the plume. A higher chloride concentration would likely be found down gradient from EB5A.



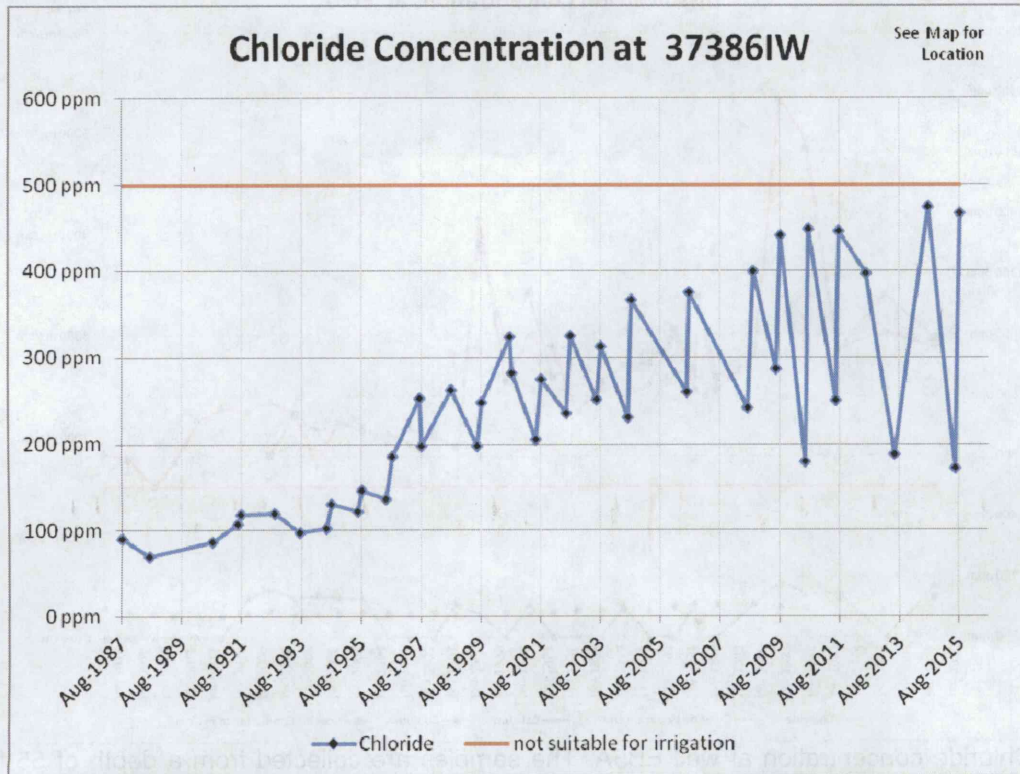
Graph 3. Chloride concentration at well EB56A. The sample was collected from a depth of 70 feet. The declining trend suggests that the chloride plume is moving away from the sampling point and therefore may be upgradient.

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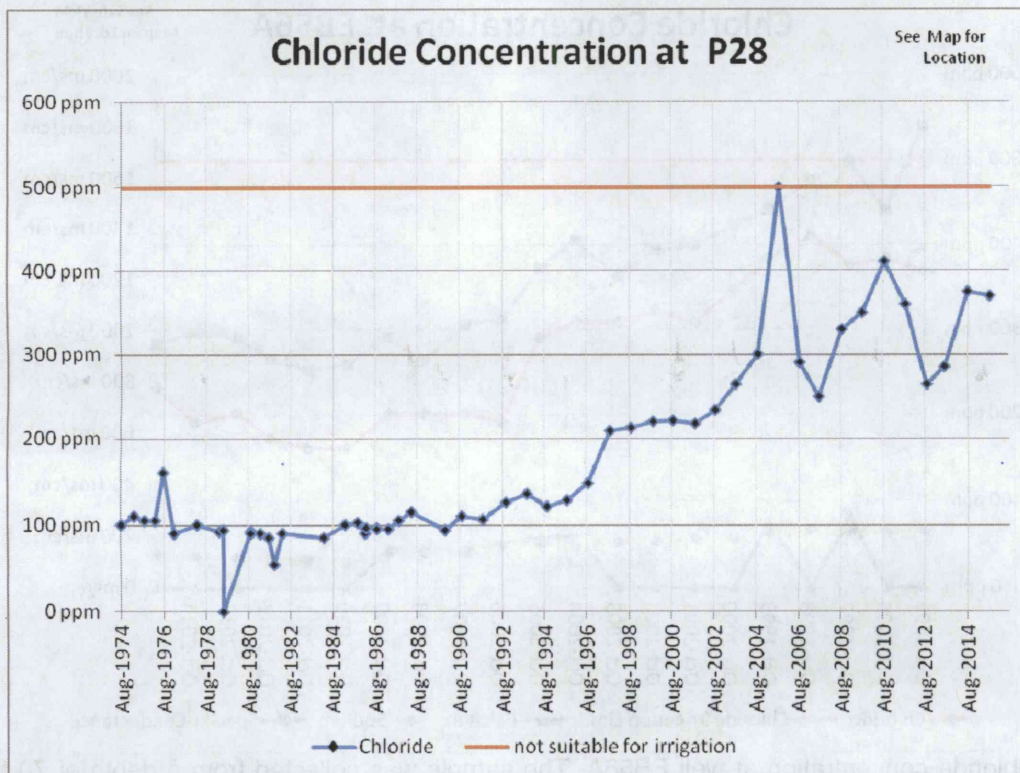
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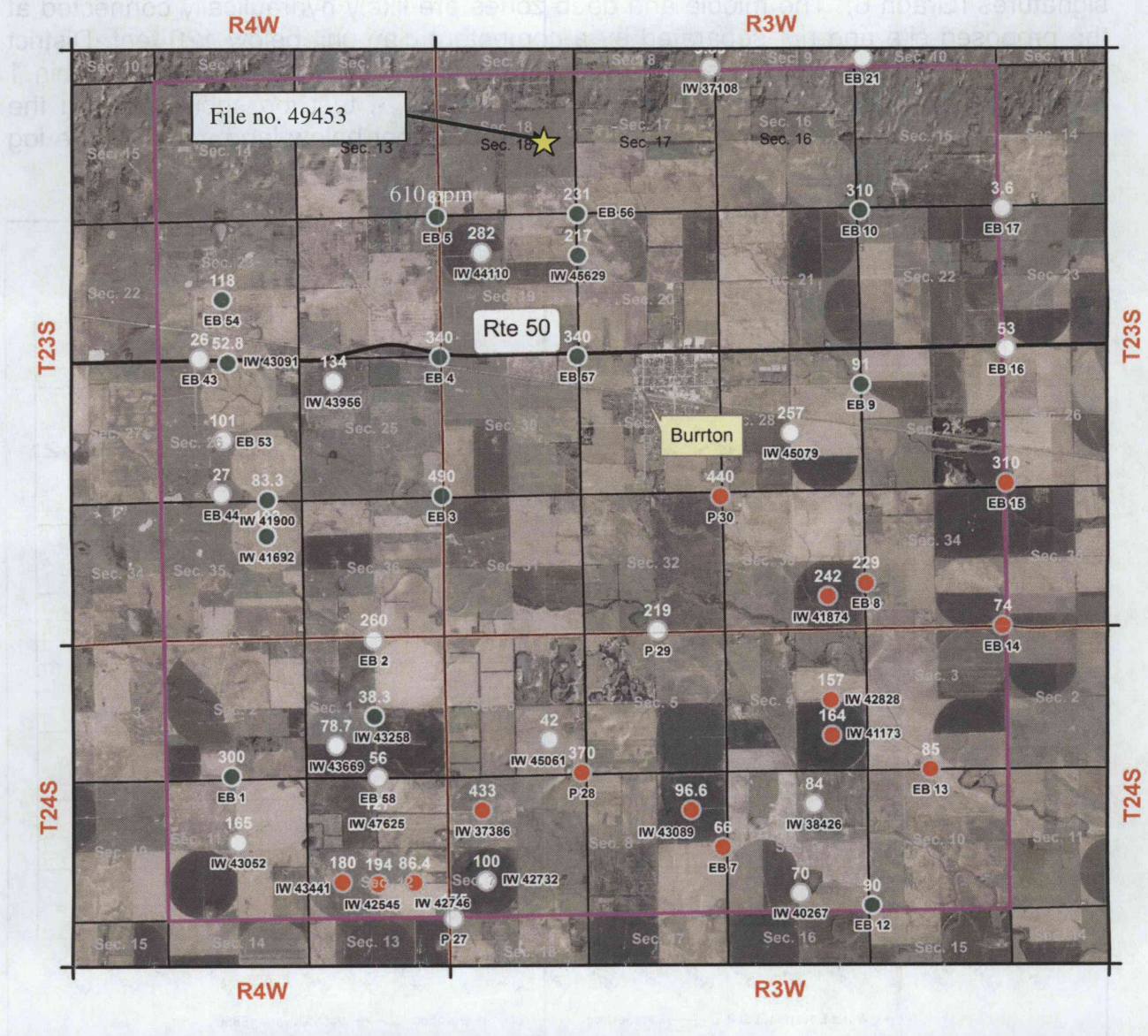
Graph 4. Chloride concentration at well 37386IW. The sample was collected from a depth of 52 feet. Large swings in concentration are likely due to upconing underlying higher salinity waters. The increasing chloride concentration indicates that this observation well is downgradient of the plume.



Graph 5. Chloride concentration at well P28. The samples are collected from a depth of 63 feet. The increasing chloride concentration is likely a result of 37386 pumping.

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Burrton IGUCA Chloride Concentrations in Upper 90 Feet (top label indicates 2015 reading in PPM)



Chloride Concentrations Through Time

- Decreasing
- Increasing
- No change

Map by: Stephen Flaherty

The author of this map makes no guarantee regarding the accuracy of interpretations of this map. These interpretations are based off of field observations and samples collected by GMD staff. The author of this map cannot be held accountable for others' decisions based on this map.

Figure 5. Outline of Burrton IGUCA and location and chloride trends of wells completed in the upper 90 feet of the aquifer.

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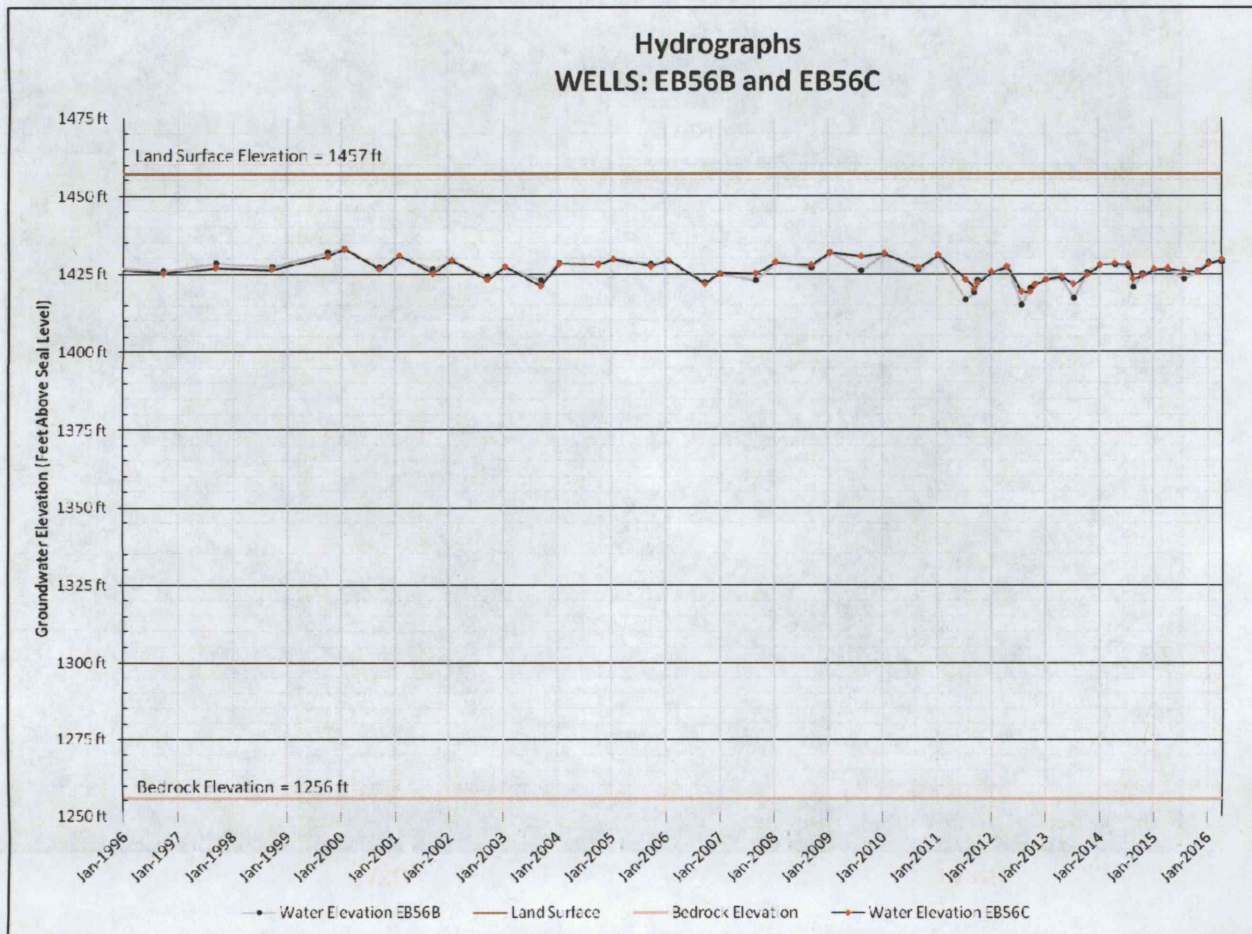
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Middle/Deep Zone

Water Levels

Water level records in the middle and deep zones at this location have similar signatures (Graph 6). The middle and deep zones are likely hydraulically connected at the proposed site and not separated by a competent clay unit below 120 feet. District staff have measured water levels in the middle and deep zone of the aquifer within 1 mile of the area at two observation wells since 1986. A test log submitted with the application indicates a 35 foot clay unit starting at 36 feet below land surface. The log stops in a 5 foot clay interval at 114 feet below land surface.



Graph 6. Groundwater elevation at well EB56B and EB56C. the two hydrographs are very similar. This indicates that there is hydraulic communication between the two wells.

Water Quality

Throughout the IGUCA from approximately 90 to 120 feet below land surface, the contamination can be found in concentrations ranging from 4 ppm at EB21 to 1360 ppm at EB4. Average concentration throughout the IGUCA in the middle interval is approximately 800 ppm (Figures 6 and 7). As of 2015 chloride concentrations at well EB 56B are at 65 ppm (Graph 7) and have been increasing by 2.5 ppm/yr on average. Below 120 feet below land surface, chloride samples are limited in the area of interest.

ATTACHMENT A: Letters from applicants:

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FEB 25 2016

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Attn Alex Whitesell

Reasons opposing 49-539

1 Over Spray

with prevailing West + Southwest wind in the summer we would be a direct target

2 Hard water

Rust in all overspray stain house + everything it gets on

3 Dry laundry on clothes lines

4 Both House entrances on

South Side - Do not want to

5 be sprayed just to go outside

Concern over long term

drought + falling water table with extra water use. had lower water table last year

Jerome T + Patricia A Bruce

715 N Wheatstate Rd Burrton, Ks

620-727-8328

67020

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Keith and Ginger Bauer
931 N Wheatstate Road Box 181
Burrton, Ks. 67020

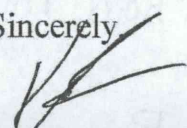
Alex,

This letter is to inform you of our desire for you not to grant the application 49,539 in which Verle Holdeman wishes to install an irrigation system. Our reasons to oppose this are:

1. We built our house 3 years ago with the intent to live there the rest of our lives. The outside is made of brick and stone. We have to have them sprayed every 5 years to help preserve the stone for years to come. With summer winds from the south the rust water from the overspray getting onto these stones will shorten their lifespan and/or cause us to treat them more often to protect them. This comes at a cost to us of \$5000 per treatment.
2. We have outdoor playsets, grills, patio furniture, and pool equipment that will be affected by the overspray as well. This will shorten these items lifespan as well.
3. The recent drought has caused our concern over the falling water table. If approved, the irrigation system will undoubtedly lower the water table even further.

We want to be friendly neighbors and hope there is a resolution that is fair to all involved. If you have any questions you can reach us at 620.463.2830 or my cell number is 620.727.3792.

Sincerely


Keith Bauer

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MAR 07 2016

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JUN 7 2016

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2-24-16

Dear Mr. Whitesell

In regards to File No. 49,539
asking for a permit to put in an irrigation
well.

We have farmed our piece of
ground since 1978. We are dryland and
grow vegetables & have an orchard that
we planted. We do not want our family,
our livelihood put in jeopardy
by this massive amount of water taken
from this area. Set alone putting our
domestic well in danger.

I have always wondered why
big irrigators have the right to use
everyones water.

This is the second time a new
owner of this piece has asked for
this permit. Once again we have to
fight for our survival. We were
here first!

I protest and I protest loudly!

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FEB 29 2016

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Ram Pole
826 North Wheat State
Burton, Kansas

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Alex Whitwell File # 49,539

It was a pleasure to talk to you on the phone Feb. 22 2016. I received my concerns then & you said send a letter. So here it is.

We went thru this everytime there is a new land owner, acquires that section of land.

I have farmed for 57 years except for the 3 years I served in the Army Jan. 1947, 1948, 1949. My grandmother was full blooded Shawnee. She always said those who irrigate do not trust in the Creator to provide rain.

I don't irrigate, we raise fruits & vegetables. There is a salt water

plume just south of us. Pumping 60,000 gal/hr will bring that salt water closer causing our personal water in jeopardy. If this landowner would use drip irrigation it would be a whole lot more doable!

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Already there is a Circle Irrigation one mile south of us. When we are using it, you can see my farm pond drop.

Why would anyone take my Granddads + Great Granddads water just to have a foot fix to raise a crop of corn? We need to get back to raising crops

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FEB 25 2016

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WATER RESOURCES

NOV 18 2015

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that is right for this area without
using water (Wheat + Grain Sorghum)

If this well is permitted to be drilled
I see a lot of problems in our
personal wells in the near future.

Albert + Pamela Polk phone 620-899-8904
Earline + Calvin Polk
826 N. Wheat State Road
Burton Kansas 67020

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FEB 25 2016

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ATTACHMENT B: Drillers log submitted with application.

49539

IRRIGATION TEST WELL

Driller & Assistant: LOGAN ANN TYLER Date: 6/29/2015

CUSTOMER: Verle Holdeman 620-345-6803 12927 W. 1st HALSTEAD, KS. 67056

LOCATION: 1 mile west and 1 mile north of Burrton, KS

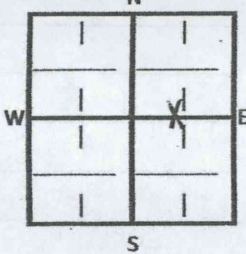
- | | | | |
|--|---------------------------------------|--|---|
| <input type="checkbox"/> Screen 2-1/2" | <input type="checkbox"/> Holeplug | <input type="checkbox"/> Gas & Oil - W.T. | <input type="checkbox"/> 6" or 5" Liner if needed |
| <input type="checkbox"/> Casing 2-1/2" | <input type="checkbox"/> Quarters | <input type="checkbox"/> 3/4" Polyethylene | <input type="checkbox"/> Solvent & Glue |
| <input type="checkbox"/> Couplings, 2-1/2" | <input type="checkbox"/> Water | <input type="checkbox"/> 2-1/2" PVC Tee | <input type="checkbox"/> Water Sample Bottle |
| <input type="checkbox"/> End Caps, 2-1/2" | <input type="checkbox"/> Lime | <input type="checkbox"/> 5" & 6" Bits | <input type="checkbox"/> Inspection Sheet |
| <input type="checkbox"/> Gravel Pack | <input type="checkbox"/> Drilling Mud | <input type="checkbox"/> Packing | |

Depth:	Formation:	Well Information:
0-3'	top soil	Static Water Level: <u>30' approx</u>
3-4'	clay sandy	Est. production: <u>300-600 gpm</u>
4'-21'	sand coarse	Casing depth: <u>0-90'</u>
21'-31'	clay tan	Screen depth: <u>90'-110'</u>
31'-36'	sand fine-medium	Slot size: <u>saw cut</u>
36'-71'	clay grey w/ small ^{layers of} fine sand	Grouting depth: <u>0-20'</u>
71'-75'	sand fine	Number of bags: <u>2</u>
75'-80'	clay grey	Nearest Contamination: <u>none</u>
80'-114'	sand fine to medium	<u>within 1/4 mile</u>
114'-125'	clay Browns	Maintenance & Safety:
		Notes:

Directions:
 Latitude: 38.0515061 N decimal degrees (ex. 38.881796)
 Longitude: -97.68912435 W decimal degrees (ex. 95.373889)
 Datum: NAD27 NAD83 WGS84

1461

SE 1/4	SE 1/4	SW 1/4	NE 1/4
Sec. 18	T 23	R 3	K10
County <u>HARVEY</u>			



\$8⁰⁰ x 120' /ft. Well
\$50⁰⁰ /Grout
\$None /Test Pumping
\$75⁰⁰ /Water Sample
\$None /Mobilization/Travel
 Contract Received: 6/17/15

Invoice #: 1137
 Date Mailed:
 Well Data: Access:
 Materials: Incent: N/A

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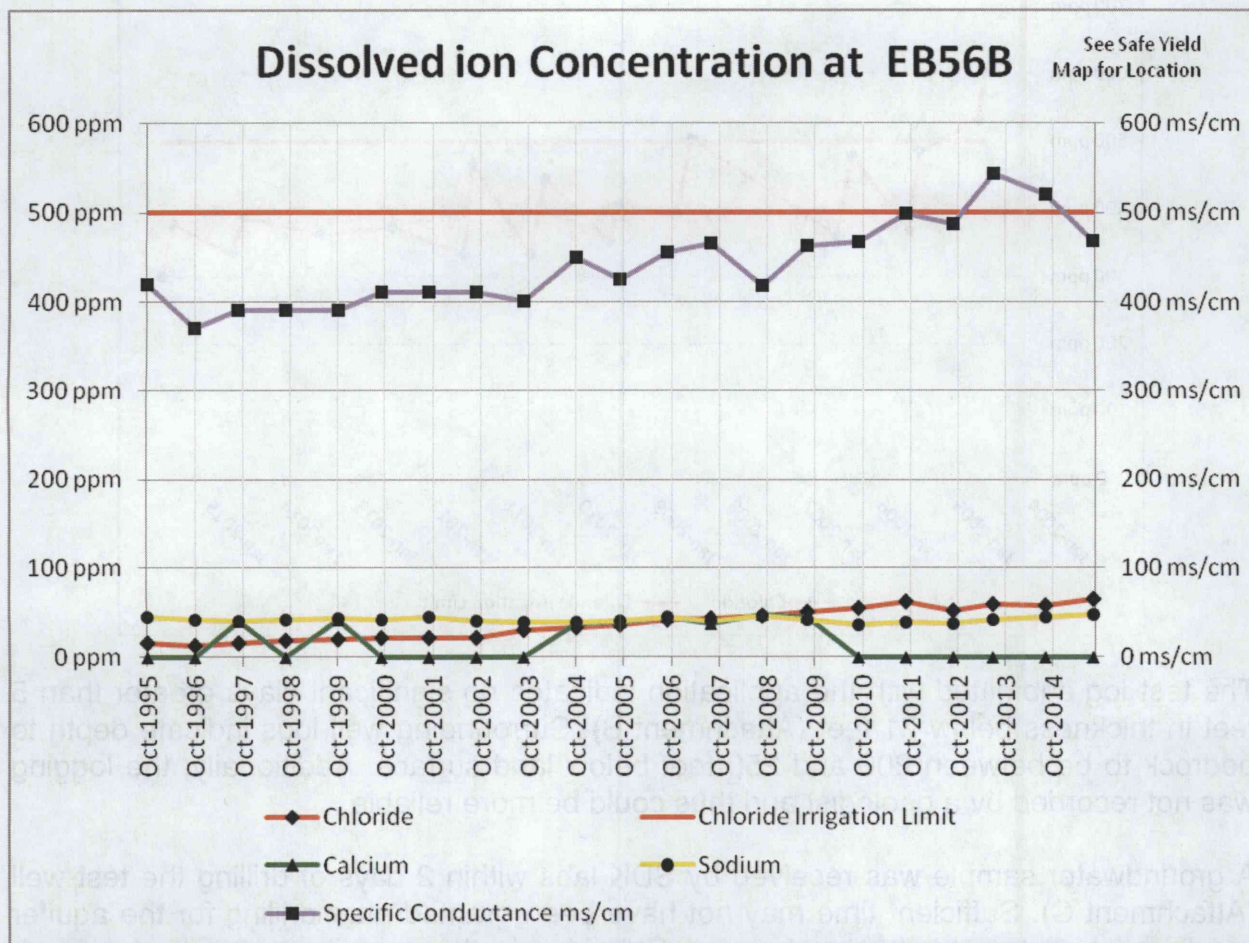
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Throughout the District, chloride concentrations have ranged from 1063 ppm at IW8 to 6.3 at EB7 in the lowermost zone. Average concentration in the lowest zone is approximately 500 ppm (Figure 8).



Graph 7. All dissolved ions are within normal range and specific conductance is within the acceptable range of 50 to 50,000 ms/cm for groundwater.

District staff have measured water levels in the middle zone of the aquifer at well EB 56B, which is within 3100 feet of the proposed point of diversion, since 1995. EB56B is not downgradient of a maximum contamination zone. The nearest maximum contamination zone is to the southwest of the proposed point of diversion.

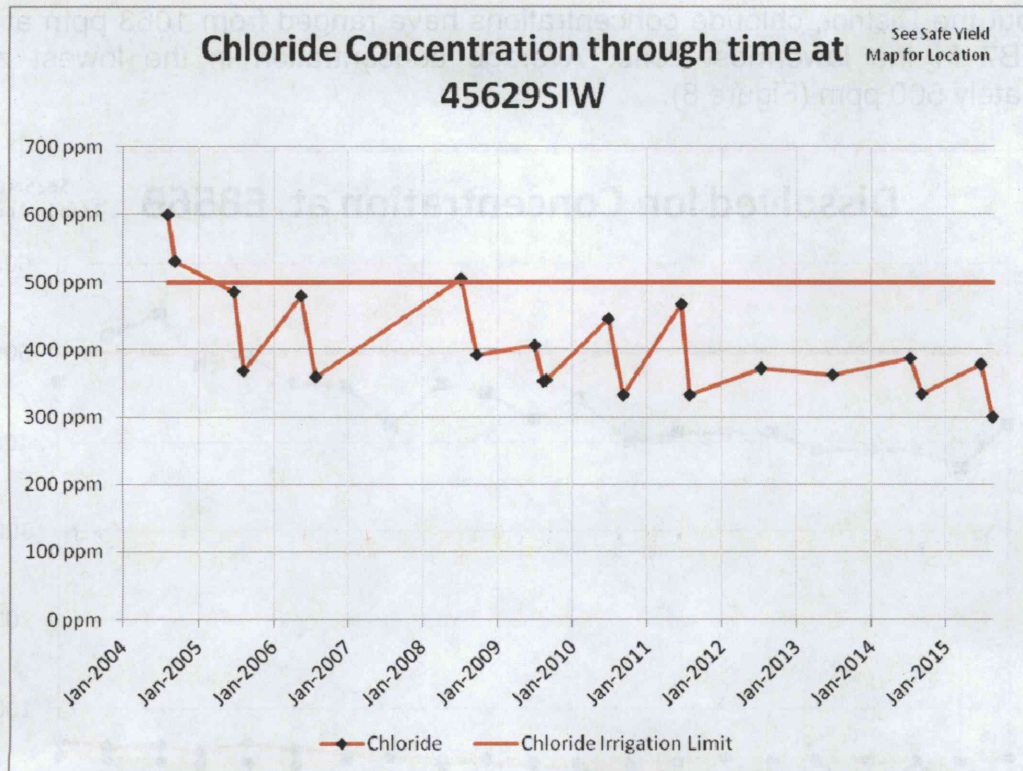
The 610 ppm plume is moving towards the proposed point of diversion. The probability of the proposed point of diversion affecting the nearby plume (Figures 6 and 7) and its migration is unclear. However, the cone of depression is assumed to have no greater impact than 1.9 feet of drawdown at 1300 feet from the pumping location according to the theoretical drawdown calculation. Nearby irrigation well 45629 appears to be affected by a nearby maximum contamination zone as demonstrated by increased chloride concentrations during extended pumping (Graph 8).

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The test log submitted with the application indicates no significant clays greater than 5 feet in thickness below 71 feet (Attachment B). Surrounding well logs indicate depth to bedrock to be between 200 and 250 feet below land surface. Additionally, the logging was not recorded by a geologist and thus could be more reliable.

A groundwater sample was received by SDK labs within 2 days of drilling the test well (Attachment C). Sufficient time may not have been granted after drilling for the aquifer conditions to return to a normal range. Chlorides in the submitted sample are much lower than nearby observation wells (Graphs 2 and 3).

Generally, the deep zone has been avoided to prevent the acceleration of downward migration of the plume. Additionally, at the proposed point of diversion, chlorides are likely at or have exceeded the 500 ppm concentration. Pumping in this zone is not advisable and will likely accelerate the downward migration of the plume.

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Burton Chloride Plume Samples Collected in Middle Zone of Aquifer Samples Collected During 2015 Irrigation Season

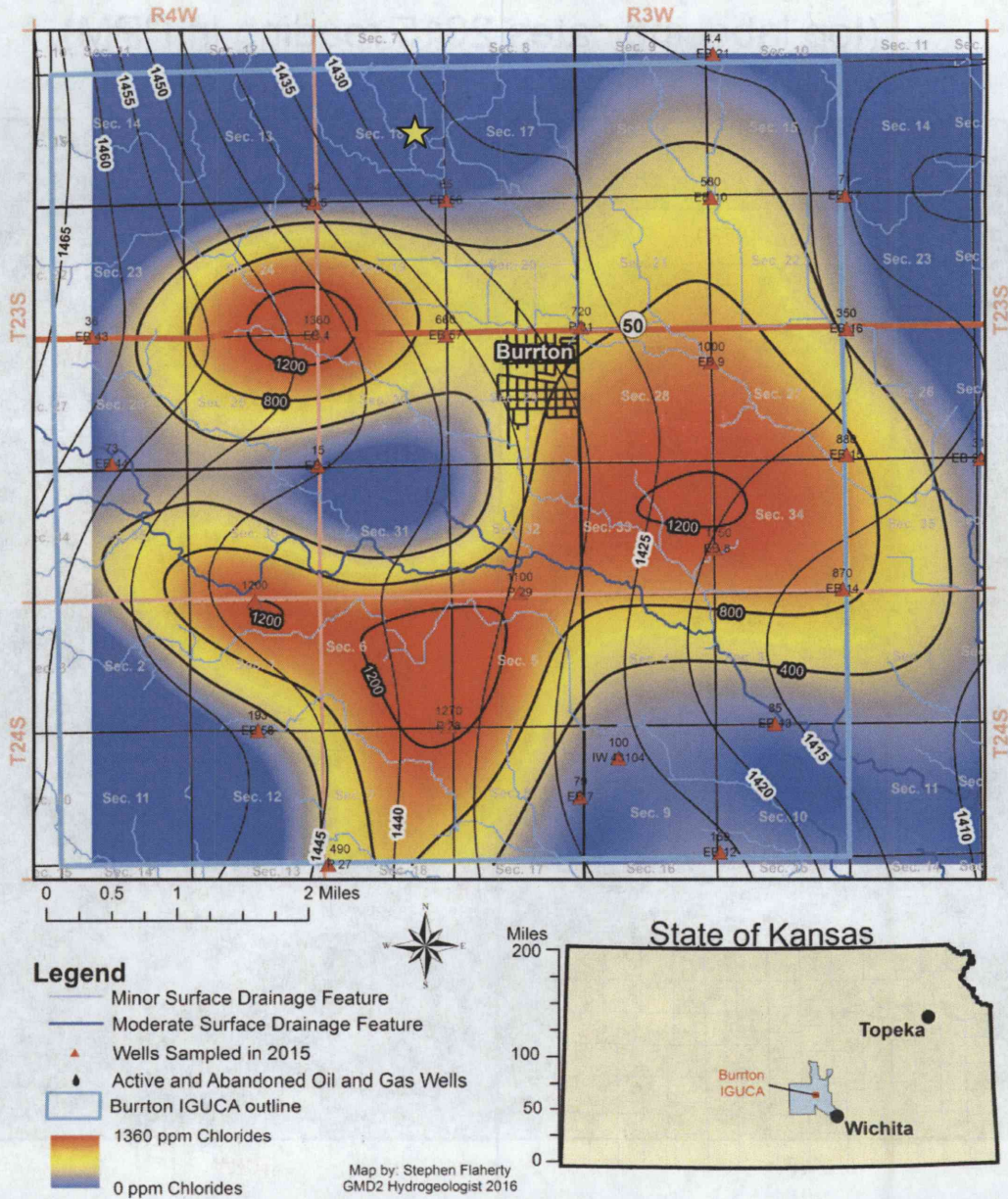


Figure 6. Chloride concentration and groundwater elevation contour map showing the spatial distribution of the middle zone of the Burton Chloride plume. A 'hotspot' is present to the southwest and upgradient of the proposed point of diversion.

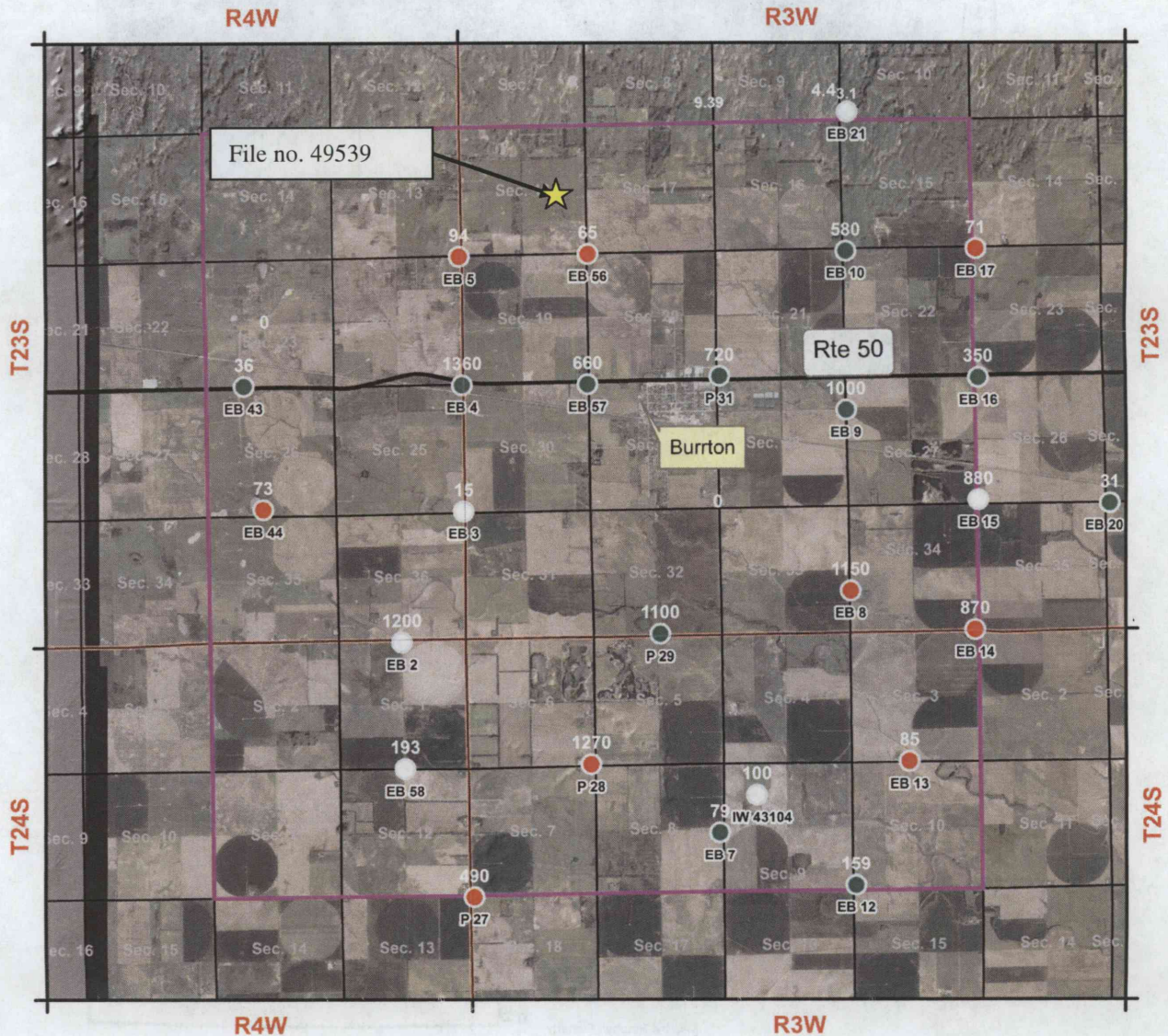
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Burrton IGUCA Chloride Concentrations in Middle Zone approximately 90 to 120 feet below land surface (top label indicates 2015 reading in PPM)



Chloride Concentrations Through Time

- Decreasing
- Increasing
- No change

Map by: Stephen Flaherty

The author of this map makes no guarantee regarding the accuracy of interpretations of this map. These interpretations are based off of field observations and samples collected by GMD staff. The author of this map cannot be held accountable for others' decisions based on this map.

Figure 7. Chloride trends within the Burrton IGUCA from samples collected up to the year 2015. The application is in an area with increasing chloride concentrations.

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

Sample # 3233.15
 Sample: Water Verle Holdeman well
 Other ID: 6/24/2015

Date Received: 06/26/2015
 Date Reported: 07/01/2015
 Total Fee: 35.00

PETERSON MCNETT DRILLING
 PO BOX 207
 LINDSBORG, KS 67456

ANALYSIS

	Dry Basis	As Received	
++pH - SM 4500-H+ B		7.79	s.u.
++Chloride - SM 4500-Cl B		9.99	mg/L
++Total Hardness - SM 2340B		178	mg/L
++Nitrate-Nitrogen - SM 4500-NO3 D		Less than 1.0	mg/L
++Calcium - SM 3111B		59.50	mg/L
++Magnesium - SM 3111B		7.13	mg/L
++Sodium - SM 3111B		22.10	mg/L
++Sulfate - SM 4500 SO4 E		50.00	mg/L
% Sodium		25.00	%
SAR-Sodium Absorption Ratio		0.719	s.u.
++Electrical Conductivity - SM 2510B		364	umhos/cm
TDS-Total Dissolved Solids - Calculated		258	mg/L
Irrigation Quality Rating		AS FOLLOWS	
Light Soil -Salinity Hazard		Low	
Light Soil - Sodium Hazard		Low	
Medium Soil -Salinity Hazard		Low	
Medium Soil -Sodium Hazard		Low	
Heavy Soil -Salinity Hazard		Low	
Heavy Soil -Sodium Hazard		Low	
General Comment:		Excellent to Good	

**Sample receipt temperature = 22.4 degrees C.
 **Sample beyond hold time for pH.
 **No sample time listed.

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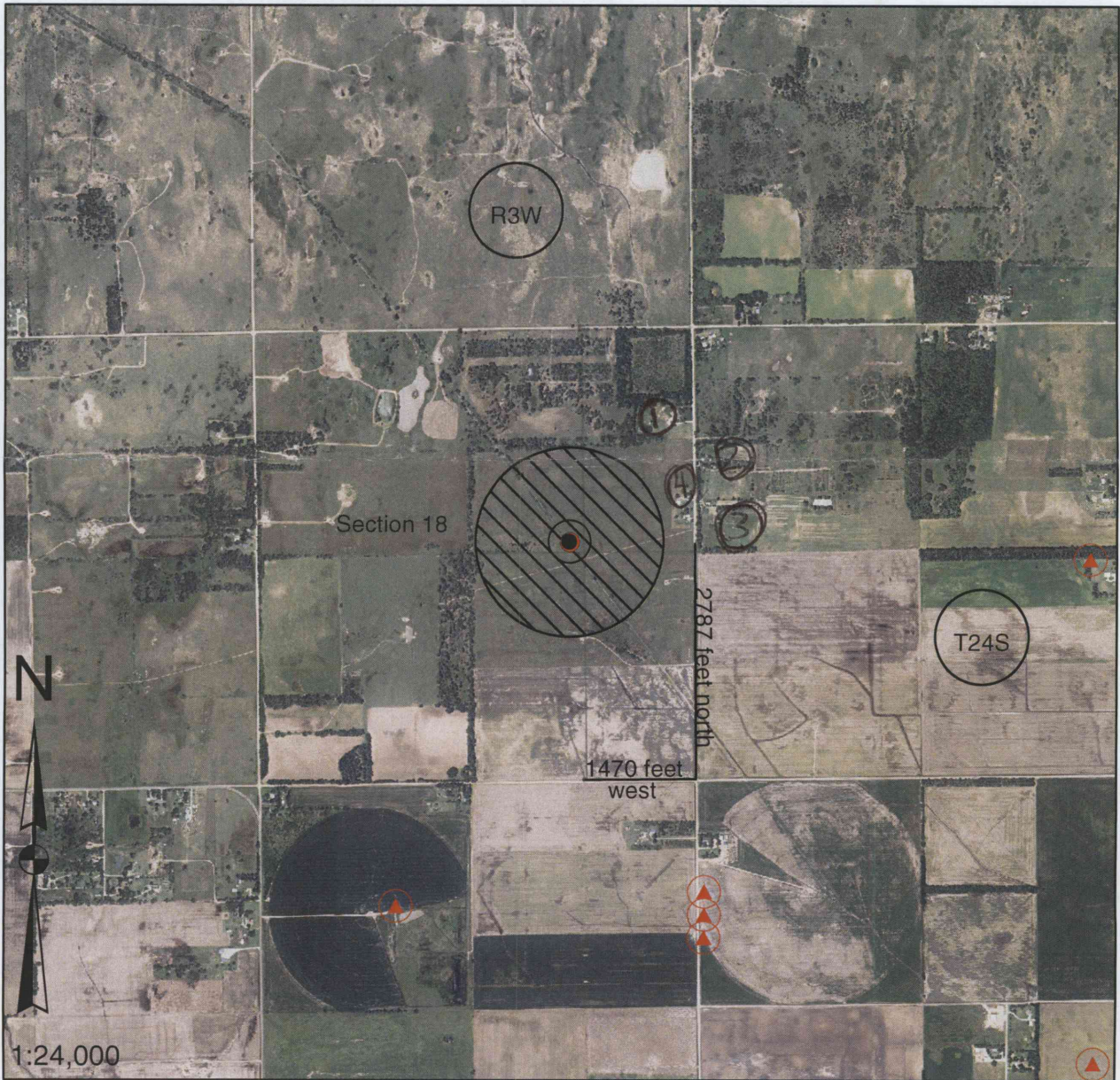
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Application Map - File No. 49,539



I declare that all water wells or diversion sites using the same source of supply and within 1/2 mile of the proposed point of diversion have been plotted on the application map.

Andy [Signature]
Signature

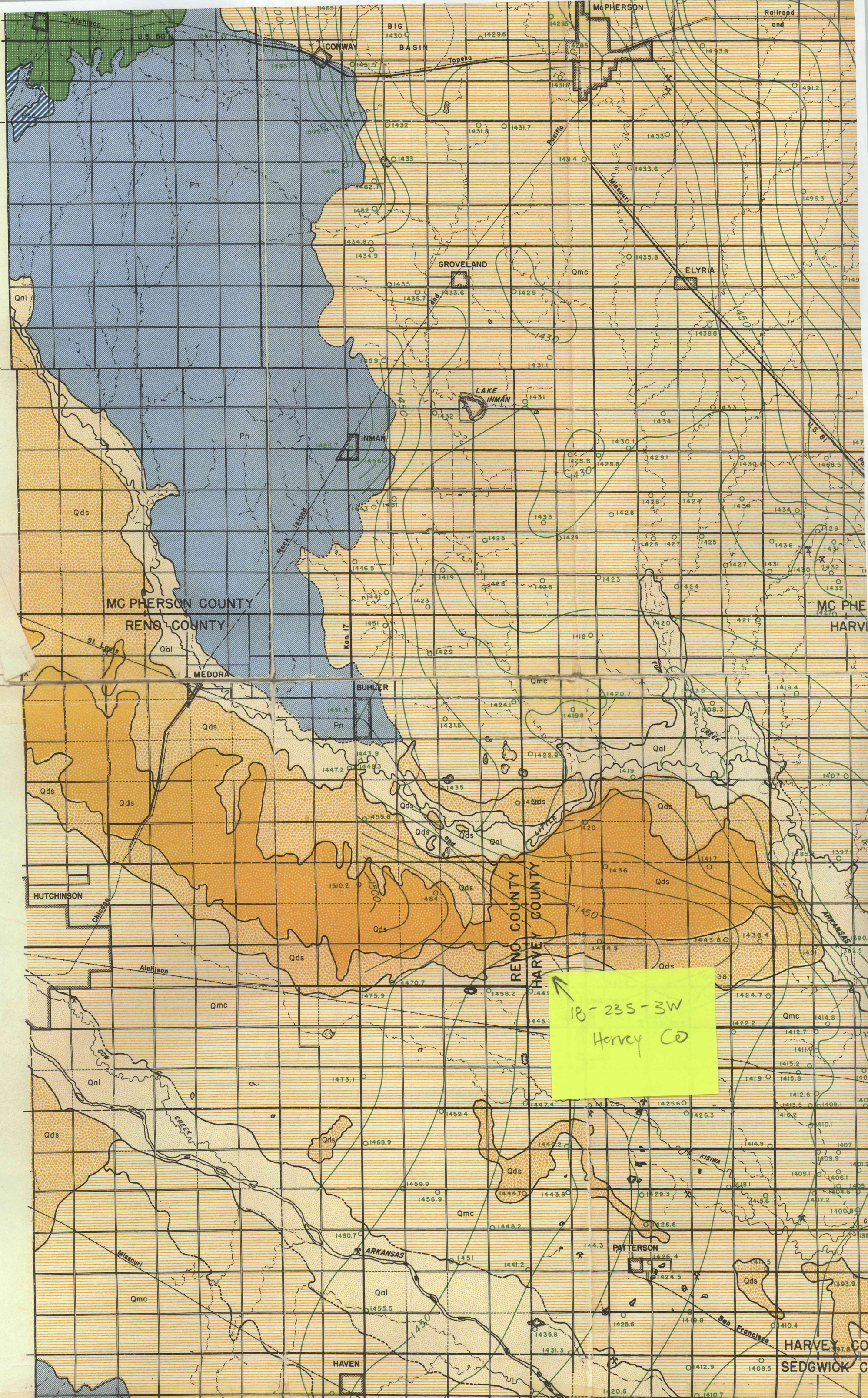
1-15-2016
Date

- New Application**
- Application No. _____ To Change:**
 - Point of Diversion
 - Place of Use
 - Use Made of Water
 - Proposed Point of Diversion
 - Existing Points of Diversion
 - Proposed Place of Use
 - Authorized Place of Use

Water wells within 1/2 mile of proposed point of diversion include: (type use, owner, address)

- 1) See Attached
- 2) **WATER RESOURCES RECEIVED**
- 3) **JAN 19 2016**
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20



18-235-3W
Harvey Co