

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

1. File Number: <p style="text-align: center; font-size: 1.2em;">49,858</p>	2. Status Change Date: <p style="text-align: center; font-size: 1.2em;">3/5/2018</p>	3. Field Office: <p style="text-align: center; font-size: 1.2em;">01</p>	4. GMD: <p style="text-align: center; font-size: 1.2em;">0</p>
5. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return			
6. Enclosures: <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N of C Form <input checked="" type="checkbox"/> Water Tube <input checked="" type="checkbox"/> Driller Copy <input checked="" type="checkbox"/> Meter			
<p>7a. Applicant(s) New to system <input type="checkbox"/></p> <p style="text-align: right;">Person ID 17028 Add Seq# _____</p> <p>CITY OF SAINT GEORGE PO BOX 33 SAINT GEORGE KS 66535</p>	<p>7c. Landowner(s) New to system <input type="checkbox"/></p> <p style="text-align: right;">Person ID _____ Add Seq# _____</p>		
<p>7b. Landowner(s) New to system <input type="checkbox"/></p> <p>7a.</p>	<p>7d. Misc. New to system <input type="checkbox"/></p> <p style="text-align: right;">Person ID _____ Add Seq# _____</p> <p>BG CONSULTANTS % BRIAN FOSTER PE 4806 VUE DU LAC PLACE MANHATTAN KS 66503</p>		
<p>8. WUR Correspondent New to system <input type="checkbox"/> Overlap File (s) WUC Agree <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;">Person ID _____ Add Seq# _____ Notarized WUC Form <input type="checkbox"/></p> <p>7a.</p>	<p>9. Use of Water: Changing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water</p> <p><input type="checkbox"/> IRR <input type="checkbox"/> REC <input type="checkbox"/> DEW <input checked="" type="checkbox"/> MUN</p> <p><input type="checkbox"/> STK <input type="checkbox"/> SED <input type="checkbox"/> DOM <input type="checkbox"/> CON</p> <p><input type="checkbox"/> HYD DRG <input type="checkbox"/> WTR PWR <input type="checkbox"/> ART RECHRG</p> <p><input type="checkbox"/> IND SIC: _____ <input type="checkbox"/> OTHER: _____</p>		
10. Completion Date: <u>12/31/2019</u> 11. Perfection Date: <u>12/31/2038</u> 12. Exp Date: _____			
13. Conservation Plan Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date Required: _____ Date Approved: _____ Date to Comply: _____			
14. Water Level Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date to Comply: _____ Date WLMD Installed: _____			
Date Prepared: 2/19/2018 By: DWS Date Entered: 3/7/2018 By: UM			

File No. **49,858** 15. Formation Code: 100 **Drainage Basin: VERMILLION CREEK** County: PT Special Use: Stream:

16. Points of Diversion										17. Rate and Quantity					
MOD	DEL	ENT	PDIV	Qualifier	S	T	R	ID	'N	'W	Authorized		Additional		Overlap PD Files
											Rate gpm	Quantity mgy	Rate gpm	Quantity mgy	
MOD			86184	NW SW NE	3	10	9E	2	3955	2525	250	32.585	250	32.585	NONE

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 **12/31/2019** Date Acceptable Meter Installed _____

21. Place of Use							NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg? NO	Overlap Files					
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								
√			15167	9	10	9E	1	CITY OF ST GEORGE & IMMEDIATE VICINITY																					7a.	No	*See Below

Comments: *PU overlap with File Nos. 38,090; 45,523; 45,524; 47,215; 47,218; 49,858; 49,859; 49,882 and 49,910.

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources
M E M O R A N D U M

TO: Files

DATE: February 19, 2018

FROM: Doug Schemm

RE: Application, File No. 49,858

The City of St. George has filed the above referenced application proposing to appropriate 32.585 million gallons of groundwater for municipal use. Please note that the applicant has also filed additional applications, File Nos. 49,859; 49,882; and 49,910 that are still pending. These applications were designed to allow the applicant to test hole drill in multiple areas to determine the most favorable well locations, and multiple supply wells will add flexibility in sources of supply. At this point, the applicant has requested the processing and approval of only the most senior file, Application, File No. 49,858, while they continue to review other options. The application form was signed by a representative of the applicant, stating the City has access to the point of diversion. The City has multiple senior overlapping files in place of use, as follows: File Nos. 38,090; 45,523; 45,524; 47,215; and 47,218.

Application, File No. 49,858 is requesting 32.585 million gallons (100 acre-feet) at a diversion rate of 250 gallons per minute, from a well located in the Northeast Quarter of Section 3, Township 10 South, Range 9 East, within the Vermillion Creek Basin in Pottawatomie County. The applicant identified three domestic wells within one-half mile of the proposed point of diversion, and nearby well owner letters were sent out on October 19, 2017. No responses of any kind were received. There are four other permitted groundwater wells within a two-mile radius according to the WRIS database, with the nearest of these being over 4,400 feet away. Per the requirements in K.A.R. 5-4-4 for all other aquifers, the minimum well spacing should be 1,320 feet to non-domestic wells and 660 feet to domestic wells, and spacing is met to existing wells. Please NOTE that a nearby domestic well (Chris Fox/Jessica Clarke) was completed approximately 455 feet from the proposed well. However, **the domestic well was completed on July 21, 2017 (see attached well log), while Application, File No. 49,858 has a priority date of June 15, 2017.** Therefore, this pending application is senior to this domestic well completion. A pump test was conducted on the City's supply well and a transducer was installed in the Fox domestic well. The largest drawdown detected at the domestic well was 0.06 feet.

As noted above, the City has five senior water rights, File Nos. 38,090; 45,523; 45,524; 47,215; and 47,218 which overlap in place of use. File No. 38,090 is authorized 9 million gallons, File No. 45,523 is authorized 10.95 million gallons, File No. 45,524 is authorized 10.95 million gallons (only 0.992 million additional), File No. 47,215 is authorized 32.585 million gallons (only 13.405 million additional), and File No. 47,218 is authorized 32.585 million gallons (with 0 additional). File No. 47,218 is limited to 45.99 million gallons with all senior files combined.

The applicant has supplied supporting data to document population growth and has projected a water demand of 116 million gallons by 2040. Rapid population growth is expected to continue at 4% per year and reach 2,100 by the year 2040. The applicant states that the KDOT US-24 Corridor Management Plan indicates this area could more than double in population by 2030, and nearby Manhattan grew at a rate of 6.5%. The applicant is also anticipating several housing developments near the City, which could significantly increase population growth and water needs.

The applicant estimated current use at 85 gpcd, while the average for medium users in this region is 102 gpcd according to the Kansas Municipal Water Use report. Therefore, an estimated quantity of water (20 year projection) can be determined as follows:

2,100 population x 102 gpcd x 365 days/year	=	78.2 million gallons
Potential development (Residential Housing)	=	<u>37.8 million gallons</u>
		Total = 116 million gallons

As noted above, the applicant's current water rights have a total authorized quantity of 45.99 million gallons. Mr. Brad Vincent who has assisted the City with test hole drilling and pump tests, on behalf of the applicant noted the justified quantity of 116 million gallons in his April 17, 2017 cover letter, and stated that the pending applications should be limited to this justified quantity. Therefore, Application, File No. 49,858 will provide for 32.585 million gallons of water (all additional) increasing the total authorized to 78.575 million gallons (45.99 mgd + 32.585 mgd). In addition, this new proposed well will provide the applicant with greater flexibility in their water supply sources, and assist in addressing potential water quality issues.

Based on the geographical location of the well, and test hole lithology, it appears that the source of supply is groundwater from glacial drift deposits. This is also consistent with the source of water for other area wells. The test hole shows a sand layer beginning at 80 feet below ground surface and continuing to 215 feet below ground surface where limestone bedrock was encountered. Static water level was 115.7 feet. As typical for these types of deposits, there is a layer of coarser sand and gravel just above the bedrock formation. The test hole log indicates a saturated thickness of over 100 feet. There is no county geologic bulletin for Pottawatomie County, and the Cenozoic deposits map does not indicate that there is a buried glacial valley in this specific area. However, area well logs depict a glacial valley that generally trends northeast to southwest through this local area. This review of area wells allows for an accurate determine of the extent of the local aquifer, which is a critical component of safe yield assessment in glacial aquifers. Please note that the glacial deposits are not present in the Southeast portion of the 2-mile circle, where wells are completed in bedrock.

Per the requirements in K.A.R. 5-3-11, safe yield is determined by the extent of the unconfined aquifer (glacial deposits), within a two-mile circle radius of the point of diversion, which establishes the area of consideration. For File No. 49,858 this evaluation provided an area of consideration of 6,799 acres (truncating out bedrock in the Southeast portion), a potential recharge of 3.6 inches, and 100% of recharge available for appropriation, resulting in a safe yield of 2,074.5 acre-feet. Existing water rights have appropriated 325.14 acre-feet, providing a difference of 1,714.56 acre-feet available for appropriation, and the application requesting 100 acre-feet complies with safe yield.

In accordance with K.S.A. 82a-706c, the Chief Engineer retains full authority to require any water user to install meters, gages, or other measuring devices, which devices he or she or his or her agents may read at any time. Water flowmeter requirements are further described in K.A.R. 5-1-4 through K.A.R. 5-1-12. If any chemical or foreign substance is injected into the water pumped under this permit, a check valve will also need to be installed.

Katie Tietsort, Water Commissioner of the Topeka Field Office, recommended approval of the referenced application in a February 16, 2018 e-mail. Based on the above discussion, the additional quantity of water will help the applicant meet future water demands, provide flexibility in pumping points, and approval of the application will not impair senior water rights nor prejudicially or unreasonably affect the public interest, it is recommended that the referenced application be approved.

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

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



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

Secretary Jackie McClaskey

Governor Jeff Colyer, M.D.

March 8, 2018

CITY OF SAINT GEORGE
% TIMOTHY CALMES MAYOR
PO BOX 33
SAINT GEORGE KS 66535-0033

FILE COPY

Re: Appropriation of Water, File No. 49,858

Dear Mr. Calmes:

There is enclosed a permit to appropriate water authorizing you to proceed with construction of the proposed diversion works (except those dams and stream obstructions regulated by K.S.A. 82a-301 through 305a), to divert such unappropriated water as may be available from the source and at the location specified in the permit, and to use it for the purpose and at the location described in the permit.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approval documents. A water meter is required on the proposed diversion works and you must install it prior to water being put to beneficial use in order for you to maintain accurate records of water use. The meter should be used to provide the information required on the annual water use report.

Failure to notify the Chief Engineer of the Division of Water Resources of the completion of the diversion works within the time allowed, or within any authorized extension of time thereof, will result in the dismissal of this permit. Enclosed is a form which may be used to notify the Chief Engineer that the proposed diversion works have been completed. All requests for extensions of time to complete diversion works, or to perfect appropriations, must be submitted to the Chief Engineer before the expiration of time originally set forth in the permit to complete diversion works or to perfect an appropriation. If for any reason, you require an extension of time, you must request it before the expiration of time set forth in this permit. Failure to comply with this regulation will result in the dismissal of your permit or your water right. Any request for an extension of time shall be accompanied by the required statutory fee, which is currently \$100.00. There is also enclosed an information sheet setting forth the procedure to obtain a Certificate of Appropriation which will establish the extent of your water right. If you have any questions, please contact our office. If you wish to discuss this specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Kristen A. Baum
New Application Unit Supervisor
Water Appropriation Program

KAB:dws
Enclosures

pc: Topeka Field Office
Brian Foster - BG Consultants



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

**APPROVAL OF APPLICATION
and
PERMIT TO PROCEED**

(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application, **File No. 49,858** of the applicant

**CITY OF SAINT GEORGE
PO BOX 33
SAINT GEORGE KS 66535-0033**

for a permit to appropriate water for beneficial use, together with the maps, plans and other submitted data, and that the application is hereby approved and the applicant is hereby authorized, subject to vested rights and prior appropriations, to proceed with the construction of the proposed diversion works (except those dams and stream obstructions regulated by K.S.A. 82a-301 through 305a, as amended), and to proceed with all steps necessary for the application of the water to the approved and proposed beneficial use and otherwise perfect the proposed appropriation subject to the following terms, conditions and limitations:

1. That the priority date assigned to such application is **June 15, 2017**.
2. That the water sought to be appropriated shall be used for municipal use within the City of St George and immediate vicinity.
3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of one (1) well located in the Northwest Quarter of the Southwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 3, more particularly described as being near a point 3,955 feet North and 2,525 feet West of the Southeast corner of said section, in Township 10 South, Range 9 East, Pottawatomie County, Kansas, located substantially as shown on the topographic map accompanying the application.
4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of **250 gallons per minute** (0.56 c.f.s.) and to a quantity not to exceed **32.585 million gallons** (100 acre-feet) of water for any calendar year.
5. That installation of works for diversion of water shall be completed on or before **December 31, 2019** or within any authorized extension thereof. The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works has been completed. Failure to timely submit the notice and the fee will result in revocation of the permit. Any request for an extension of time shall be submitted prior to the expiration of the deadline and shall be accompanied by the required statutory fee of \$100.00.
6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before **December 31, 2038** or any authorized extension thereof. Any request for an extension of time shall be submitted prior to the expiration of the deadline and shall be accompanied by the required statutory fee of \$100.00.

7. That the applicant shall not be deemed to have acquired a water appropriation for a quantity in excess of the amount approved herein nor in excess of the amount found by the Chief Engineer to have been actually used for the approved purpose during one calendar year subsequent to approval of the application and within the time specified for perfection or any authorized extension thereof.

8. That the use of water herein authorized shall not be made so as to impair any use under existing water rights nor prejudicially and unreasonably affect the public interest.

9. That the right of the appropriator shall relate to a specific quantity of water and such right must allow for a reasonable raising or lowering of the static water level and for the reasonable increase or decrease of the streamflow at the appropriator's point of diversion.

10. That this permit does not constitute authority under K.S.A. 82a-301 through 305a to construct any dam or other obstruction; nor does it grant any right-of-way, or authorize entry upon or injury to, public or private property.

11. That all diversion works constructed under the authority of this permit into which any type of chemical or other foreign substance will be injected into the water pumped from the diversion works shall be equipped with an in-line, automatic quick-closing, check valve capable of preventing pollution of the source of the water supply. The type of valve installed shall meet specifications adopted by the Chief Engineer and shall be maintained in an operating condition satisfactory to the Chief Engineer.

12. That an acceptable water flow meter shall be installed and maintained on the diversion works authorized by this permit in accordance with the Kansas Administrative Regulations 5-1-4 through 5-1-12 adopted by the Chief Engineer. This water flow meter shall be used to provide an accurate quantity of water diverted as required for the annual water use report (including the meter reading at the beginning and end of the report year).

13. That the applicant shall maintain accurate and complete records from which the quantity of water diverted during each calendar year may be readily determined and the applicant shall file an annual water use report with the Chief Engineer by March 1 following the end of each calendar year. Failure to file the annual water use report by the due date shall cause the applicant to be subject to a civil penalty.

14. That no water user shall engage in nor allow the waste of any water diverted under the authority of this permit.

15. That failure without cause to comply with provisions of the permit and its terms, conditions and limitations will result in the forfeiture of the priority date, revocation of the permit and dismissal of the application.

16. That the right to appropriate water under authority of this permit is subject to any minimum desirable streamflow requirements identified and established pursuant to K.S.A. 82a-703c for the source of supply to which this water right applies.

17. That the permit holder shall submit a progress report to the office of the Chief Engineer by March 1, following the tenth full calendar year after the permit was issued. The progress report must be submitted on a form prescribed by the Chief Engineer, and shall compare annual water use projected in the original application with the actual annual water use for the prior 10 years. The progress report must document compliance with the approved conservation plan, contain sufficient details to determine the extent of perfection of the water right during the previous ten years, and demonstrate how the water right, in association with other water rights, meets the municipal use need.

CERTIFICATE OF SERVICE

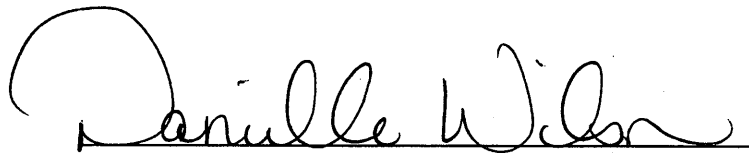
On this ~~7th~~ day of March, 2018, I hereby certify that the foregoing Approval of Application and Permit to Proceed, File No. 49,858, dated March 5th 2018 was mailed postage prepaid, first class, US mail to the following:

CITY OF SAINT GEORGE
PO BOX 33
SAINT GEORGE KS 66535

With photocopies to:

BG CONSULTANTS
% BRIAN FOSTER PE
4806 VUE DU LAC PLACE
MANHATTAN KS 66503

Topeka Field Office

A handwritten signature in black ink that reads "Danielle Wilson". The signature is written in a cursive style with a large, looping initial "D".

Division of Water Resources

APPLICATION COMPLETE

11/6/2017

Reviewer DWS

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number 49858

This item to be completed by the Division of Water Resources.

WATER RESOURCES RECEIVED

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.)

JUN 15 2017

2:30

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:

SEP 22 2017

1. Name of Applicant (Please Print): City of St. George
Address: 220 First St, PO Box 33
City: St George State KS Zip Code 66535-0033
Telephone Number: () _____

2. The source of water is: surface water in _____
OR groundwater in Vermillion Creek (stream)
Kansas River Basin DWS/pwr (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 100 acre-feet OR 32.585 million gallons per calendar year, to be diverted at a maximum rate of 250 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. 1 GMD REG Meets K.A.R. 5-3-1 (YES/NO) Use MUN Source G/S County PT By ASW Date 6/15/17
Code _____ Fee \$ 200 TR # _____ Receipt Date 6/15/17 Check # 82514

SCANNED
6/16/17 DWS

*Per Site Map. DWS/DWR 11/6/2017.

File No. 49858

Woodruff Property in the NE 1/4 Sec 3, T10S, R9E. Test Holes to be drilled to locate well sites

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 NW quarter of the SW quarter of the NE quarter of Section 3, more particularly described as being near a point 3955 feet North and 2525 feet West of the Southeast corner of said section, in Township 10 South, Range 9 (East) West (circle one), Pottawatomie 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):

Timothy Woodruff Trust and Thomas Woodruff 4850 Flint Rock Wamego, KS 66547 785-456-4915
(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 _____, 20____ Timothy D Calmes
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 well * Per call to consultant.
(number of wells, pumps or dams, etc.) pws/dwr

and (was)(will be) completed (by) December 31, 2018
(Month/Day/Year - each was or will be completed) 2/12/18

8. The first actual application of water for the proposed beneficial use was or is estimated to be January 1, 2019
(Mo/Day/Year)

WATER RESOURCES
RECEIVED

WATER RESOURCES
RECEIVED

SEP 22 2017

JUN 15 2017

SCANNED

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 _____
- If no, explain here why a Water Structures permit is not required _____

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:

- Will be completed when test holes are drilled
- (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.

47215, 47218, 38090, 45523, 45524

WATER RESOURCES RECEIVED

SEP 22 2017

KS DEPT OF AGRICULTURE

WATER RESOURCES RECEIVED

JUN 15 2017

KS DEPT OF AGRICULTURE
SCANNED

Test Holes to be Drilled

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	<u>9 Aug 2017</u>	_____	_____	_____
Total depth of well	<u>215</u>	_____	_____	_____
Depth to water bearing formation	<u>80</u>	_____	_____	_____
Depth to static water level	<u>115.70</u>	_____	_____	_____
Depth to bottom of pump intake pipe	<u>214</u>	_____	_____	_____

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

(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 St George, Kansas, this _____ day of _____, _____
(month) (year)


(Applicant Signature)

By _____
(Agent or Officer Signature)

Timothy Calmes, Mayor
(Agent or Officer - Please Print)

Assisted by Brian Foster BG Consultants Date: 5-12-17
(office/title)

WATER RESOURCES RECEIVED
SEP 22 2017
KS DEPT OF AGRICULTURE

WATER RESOURCES RECEIVED
JUN 15 2017
SCANNED
KS DEPT OF AGRICULTURE

Applicant's Name City of St George
(Please Print)

**MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION
SUPPLEMENTAL INFORMATION SHEET**

Application File Number
49,858
(assigned by DWR)

**SECTION 1: PRESENT WATER USE SUMMARY (IF NO PREVIOUS MUNICIPAL WATER USE HAS BEEN UTILIZED, PROCEED TO SECTION 3)
NOTE: WORKSHEET FOR WATER PUMPED, PURCHASED, AND SOLD BY YOUR WATER DISTRIBUTION SYSTEM.**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Below Explanation)
20,786,000				17,033,000		3,753,000
TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

- Column 1: The amount of raw water diverted from all of your points of diversion.
- Column 2: The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office.
- Column 3: The amount of water sold wholesale to all other public water supply systems.
- Column 4: The amount of water sold retail to all industrial, pasture, stockwater, feedlot, and bulk water service connections. Include the amount of water sold to all farmsteads using at least 200,000 gallons of water per year.
- Column 5: The amount of water sold retail to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year.
- Column 6: The amount of water used that is metered at individual service connections and supplied free, such as for public service, treatment processes, and connections receiving free water.
- Column 7: The amount of remaining water used. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6.

UNACCOUNTED FOR WATER

Use the following to calculate your distribution system's Unaccounted For Water:
Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Columns 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

Use the following to calculate the percent Unaccounted For Water versus the Total Water of your system:
Percent Unaccounted For Water = $\frac{\text{Unaccounted For Water}}{\text{Total Water (Columns 1,2)}} \times 100$
If this number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it.

**WATER RESOURCES
RECEIVED**

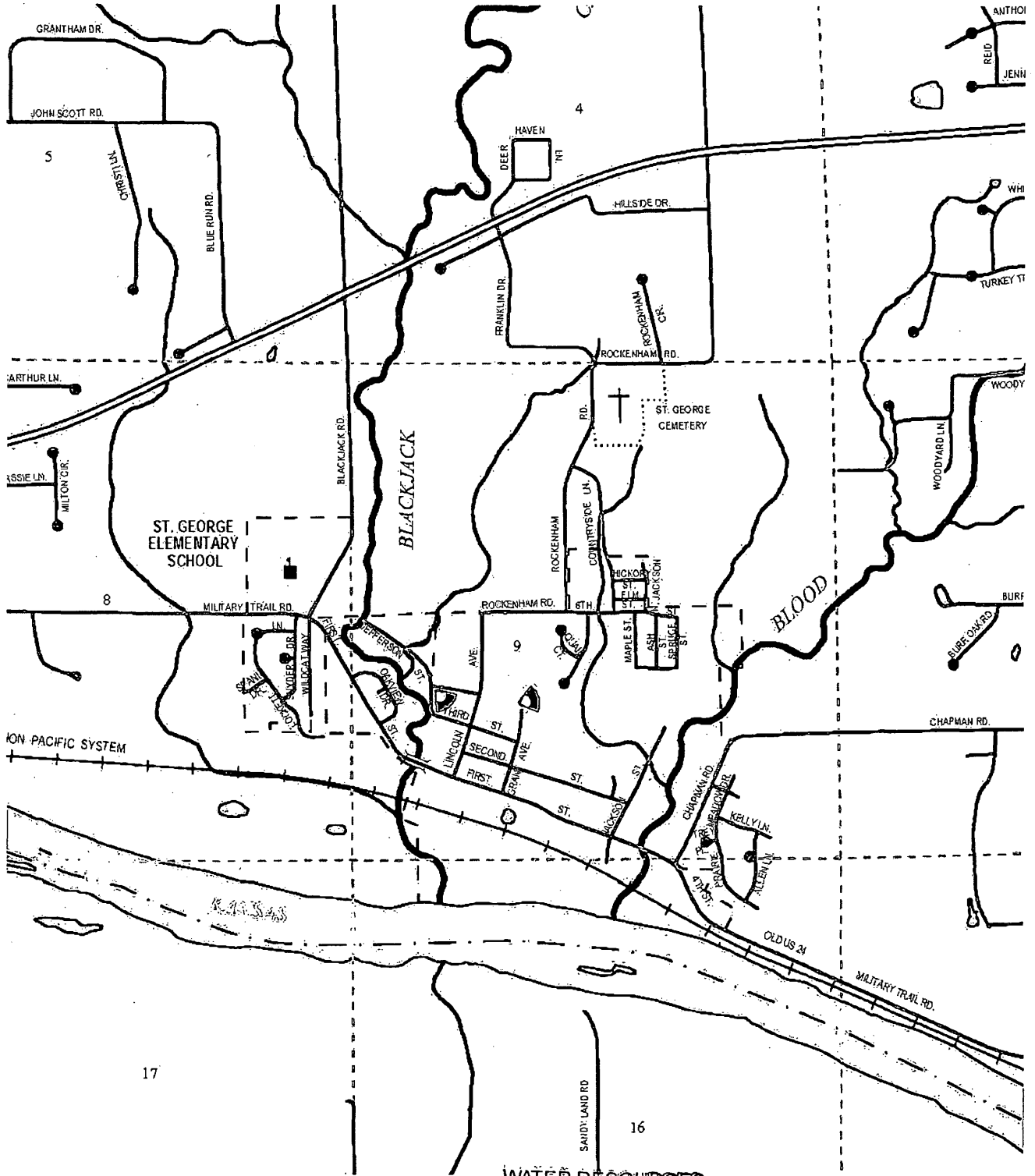
MAY 15 2017

**SECTION 2: PAST WATER USE
COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.**

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	KS DEPT OF AGRICULTURE Column 7
	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Above Explanation)
20 years ago							
15 years ago							
10 years ago							
5 years ago	17,403,000				14,434,000		2,969,000
	TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

49840

ST. GEORGE, KANSAS PLACE OF USE



WATER RESOURCES
RECEIVED

MAY 15 2017

BG CONSULTANTS
ENGINEERS · ARCHITECTS · SURVEYORS

KANSAS DEPT OF AGRICULTURE

MANHATTAN, KANSAS
4806 Vue Du Lac Place
Manhattan, Kansas 66503
785-537-7448

HUTCHINSON, KANSAS
LAWRENCE, KANSAS
EMPORIA, KANSAS

Schemm, Doug [KDA]

From: Tietsort, Katie [KDA]
Sent: Friday, February 16, 2018 8:32 AM
To: Schemm, Doug [KDA]
Subject: RE: City of St. George 49,858

Hi Doug,

This application appears to meet all the requirements of the KWAA for approval. I agree that it can move forward although the City has other files pending, since they requested such and because this application for a single well isn't tied to the other proposals other than by place of use. The justification is reasonable in the Highway 24 corridor and will ultimately work for the package. One thing Doug- can you be sure to correct all the documents including the application, the memo, the permit, the worksheet, etc to show this as being in the Vermillion Creek Basin please? Some items say Kansas River (WRIS, original app) and some say Vermillion River (app now, memo). The file is located within the DWR identified Vermillion Creek Basin. Thanks.

This should proceed forward for signature, 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

Achiever~Responsibility~Input~Relator~Arranger

From: Schemm, Doug [KDA]
Sent: Monday, February 12, 2018 8:04 AM
To: Tietsort, Katie [KDA] <Katie.Tietsort@ks.gov>
Subject: City of St. George 49,858

Processing only their most senior file at this point.
All additional water.



Topeka Field Office
6531 SE Forbes Ave., Suite B
Topeka, Kansas 66619

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Katherine A. Tietsort, Water Commissioner

Phone: (785) 296-5733
Fax: (785) 862-2460
www.agriculture.ks.gov
Sam Brownback, Governor

October 19, 2017

CHURCH OF JESUS CHRIST
OF LATTER-DAY SAINTS
12TH FLOOR E 50 EN TEMPLE
SALT LAKE CITY UT 84150

Re: Pending New Applications, File Nos. 49,858 and 49,910

Dear Sir or Madam:

This is to advise you that the City of St. George has filed the applications referred to above for permits to appropriate groundwater for municipal use. Application, File No. 49,858 is requesting 32.585 million gallons (100 acre-feet) to be diverted at a maximum rate of 250 gallons per minute, from a well located in the Northwest Quarter of the Southwest Quarter of the Northeast Quarter of Section 3, and

Application, File No. 49,910 is requesting 65.17 million gallons (200 acre-feet) to be diverted at a maximum rate of 300 gallons per minute, from a well located in the Northeast Quarter of the Northwest Quarter of the Northeast Quarter of Section 3, both in Township 10 South, Range 9 East, Pottawatomie County, Kansas.

Enclosed is a site map for your review. Records in this office indicate that you may have a well or wells in this vicinity and you are being notified of receipt of these applications in order that you may be fully informed of the proposed location of the applicant's points 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 or comments, you may also contact me at (785) 296-3495. If you call, please reference the file number so I can help you more efficiently.

Sincerely,

A handwritten signature in cursive script that reads "Doug Schemm".

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

Enclosure

pc: City of St. George
Brian J. Foster, P.E. – BG Consultants



Topeka Field Office
6531 SE Forbes Ave., Suite B
Topeka, Kansas 66619

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Katherine A. Tietsort, Water Commissioner

Phone: (785) 296-5733
Fax: (785) 862-2460
www.agriculture.ks.gov
Sam Brownback, Governor

October 19, 2017

LWN PROPERTIES
PO BOX 1285
MANHATTAN KS 66505

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Sincerely,

A handwritten signature in cursive script, appearing to read "Doug Schemm".

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

Enclosure

pc: City of St. George
Brian J. Foster, P.E. – BG Consultants


Kansas
Department of Agriculture
Division of Water Resources

Topeka Field Office
6531 SE Forbes Ave., Suite B
Topeka, Kansas 66619

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Katherine A. Tietsort, Water Commissioner

Phone: (785) 296-5733
Fax: (785) 862-2460
www.agriculture.ks.gov
Sam Brownback, Governor

October 19, 2017

CHRISTOPHER J FOX
JESSICA A CLARKE
13548 MEGAN LANE
WAMEGO KS 66547

Re: Pending New Applications, File Nos. 49,858 and 49,910

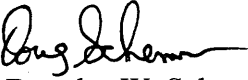
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Sincerely,


Douglas W. Schemm
Environmental Scientist
Topeka Field Office

Enclosure

pc: City of St. George
Brian J. Foster, P.E. – BG Consultants



Nearby Domestic Well

WATER WELL RECORD Form WWC-5 1361228

Division of Water Resources App. No.

Well ID

Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Pottawatomie Fraction SE 1/4 SE 1/4 NE 1/4 NW 1/4 Section Number 3 Township Number T 10 S Range Number R 9 E W

2 WELL OWNER: Last Name: FOX First: CHRIS Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: [X]

3 LOCATE WELL WITH 'X' IN SECTION BOX: [Diagram] 4 DEPTH OF COMPLETED WELL: 188 ft. 5 Latitude: 39.2140920 Longitude: 96.3996250 6 Elevation: 1198 ft.

7 WELL WATER TO BE USED AS: 1. Domestic: [X] Lawn & Garden 5. Public Water Supply: well ID 10. Oil Field Water Supply: lease 11. Test Hole: well ID 12. Geothermal: how many bores? 13. Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? [X] No If yes, date sample was submitted: Water well disinfected? [X] Yes [] No

8 TYPE OF CASING USED: [X] PVC CASING JOINTS: [X] Glued [] Clamped [] Welded [] Threaded Casing diameter 6 in. to 188 ft. TYPE OF SCREEN OR PERFORATION MATERIAL: [X] PVC SCREEN OR PERFORATION OPENINGS ARE: [X] Mill Slot SCREEN-PERFORATED INTERVALS: From 166 ft. to 188 ft. GRAVEL PACK INTERVALS: From 25 ft. to 188 ft.

9 GROUT MATERIAL: [X] Bentonite Grout Intervals: From 0 ft. to 25 ft. Nearest source of possible contamination: [X] Lateral Lines [] Pit Privy [] Livestock Pens [] Insecticide Storage [] Fuel Storage [] Abandoned Water Well [] Fertilizer Storage [] Oil Well/Gas Well Direction from well? SOUTHWEST Distance from well? 125 ft.

Table with 6 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include BROWN CLAY, SANDY BROWN CLAY, SANDY CLAY, FINE SAND, SAND FINE CLAY LAYERS, SAND FINE, CLAY LAYERS FINE SAND, SAND FINE, SHALE GREY.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [X] constructed, [] reconstructed, or [] plugged under my jurisdiction and was completed on (mo-day-year) 07/21/2017 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 914. This Water Well Record was completed on (mo-day-year) 07/25/2017 under the business name of Flint Hills Drilling.

#49,858
meet safe yield

Analysis Results

The selected PD is in an area to new appropriations.
 The safe yield, based on the variables listed below is 2,039.70 AF.
 Total prior appropriation in the circle is 789.54 AF. $-500 \text{ AF} = 289.54 \text{ AF} + 35.6 \text{ AF} = 325.14 \text{ AF}$
 Total quantity of water available for appropriation is 1,250.16 AF.

1,714.56 AF

Safe Yield Variables

The area used for the analysis is set at 6799 acres.
 Potential annual recharge of the area is estimated to be 3.6 inches.
 The percent of recharge available for appropriation is 100%.

Authorized Quantity values are as of 26-OCT-2017 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 10 water right(s) and 8 point(s) of diversion within the circle.

File Number	Use	ST	SR	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Qind	Auth_Quant	Add_Quant	Tacres	Nacres
A 38090	00 MUN NK	G			SE	SE	NW	3200	2920	09	10	09E	3	WR	27.62	27.62		
A 45523	00 MUN LO	G			NE	NW	NE	5122	1671	04	10	09E	2	WR	33.60	33.60		
A *45524	00 MUN LO	G			NW	NW	NE	5278	2360	04	10	09E	3	WR	33.60	3.04		
A 46443	00 MUN LO	G			SW	SW	NE	3100	2575	27	09	09E	2	WR	184.13	184.13		
A 47215	00 MUN LO	G			NE	NW	NE	5122	1671	04	10	09E	2	WR	100.00	41.14		
A 47218	00 MUN LO	G			NW	NW	NE	5278	2360	04	10	09E	3	WR	100.00	0.00		
A 49858	00 MUN AY	G					NE	3960	1320	03	10	09E	2	WR	100.00	100.00		
A 49859	00 MUN AY	G					NW	3960	3960	02	10	09E	1	WR	100.00	100.00		
A 49882	00 MUN AY	G					NE	3960	1320	02	10	09E	2	WR	100.00	100.00		
A 49910	00 MUN AY	G			NE	NW	NE	5230	1645	03	10	09E	3	WR	200.00	200.00		

500 AF

9157; 36,782 + 38,383
 Dismissed Dismissed
 outside of 2 mile circle - 1.3mgd

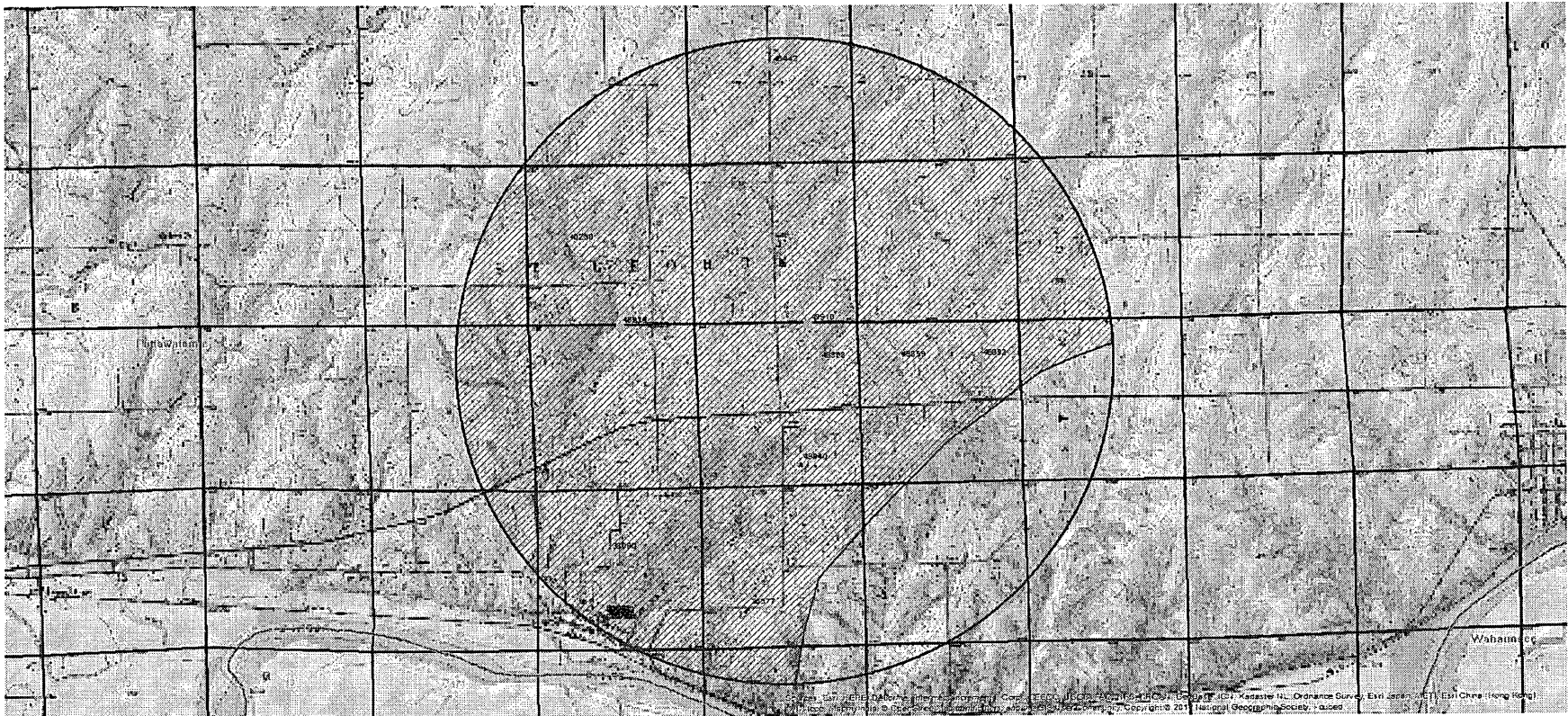
* 45,524 - could pump all quantity within limitation
 47,215 Limited to 141.14 AF with 3 senior files in circle

5.04
 + 9.36 AF (141.14 + 27.62 - 336 - ~~336~~ 33.6 = 46.18)

+ 30.56
 o/l 45,523, 38,090 + 45,524
 o/l 45,524

#49,858

Safe Yield Report Sheet
Proposed Water Right Application
Point of Diversion in SWSWNWNE 03-10S-09E
3955'N + 2525'W



#49,858

Report Date Thursday, October 26 2017

All wells > 1/4 mile
meets spacing

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

3955 ft N and 2525 ft W of the SE Corner of Section 3, T 10S, R 9E

Located at: 96.397766 West Longitude and 39.213740 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__ 38090	00	MUN	NK	G	8298	--	SE	SE	NW	3200	2920	9	10	9E	3		27.62	27.62	AF
A__ 45523	00	MUN	LO	G	4498	--	NE	NW	NE	5122	1671	4	10	9E	2		33.60	33.60	AF
A__ 45524	00	MUN	LO	G	5204	--	NW	NW	NE	5278	2360	4	10	9E	3		33.60	3.04	AF
A__ 46443	00	MUN	LO	G	9722	--	SW	SW	NE	3100	2575	27	9	9E	2		184.13	184.13	AF
A__ 47215	00	MUN	LO	G	4498	--	NE	NW	NE	5122	1671	4	10	9E	2		100.00	41.14	AF
A__ 47218	00	MUN	LO	G	5204	--	NW	NW	NE	5278	2360	4	10	9E	3		100.00	.00	AF
A__ 49858	00	MUN	AY	G	1205	--	--	--	NE	3960	1320	3	10	9E	2		100.00	100.00	AF
A__ 49859	00	MUN	AY	G	3801	--	--	--	NW	3960	3960	2	10	9E	1		100.00	100.00	AF
A__ 49882	00	MUN	AY	G	6441	--	--	--	NE	3960	1320	2	10	9E	2		100.00	100.00	AF
A__ 49910	00	MUN	AY	G	1549	--	NE	NW	NE	5230	1645	3	10	9E	3		200.00	200.00	AF

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	500.00	.00
Total Permitted Amount (AF) =	.00	.00
Total Inspected Amount (AF) =	261.92	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	27.62	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	789.54	.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:

96.397766 West Longitude and 39.213740 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number Use ST SR

A__ 38090 00 MUN NK G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

A__ 45523 00 MUN LO G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

A__ 45524 00 MUN LO G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

>-----

A__ 46443 00 MUN LO G

> POTTAWATOMIE RWD 01

>

> PO BOX 233

> WAMEGO KS 66547

>-----

A__ 47215 00 MUN LO G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

>-----

A__ 47218 00 MUN LO G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

>-----

A__ 49858 00 MUN AY G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

>-----

A__ 49859 00 MUN AY G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

>-----

A__ 49882 00 MUN AY G

> CITY OF SAINT GEORGE

>

> PO BOX 33

> SAINT GEORGE KS 66535

>-----

A__ 49910 00 MUN AY G

> CITY OF SAINT GEORGE

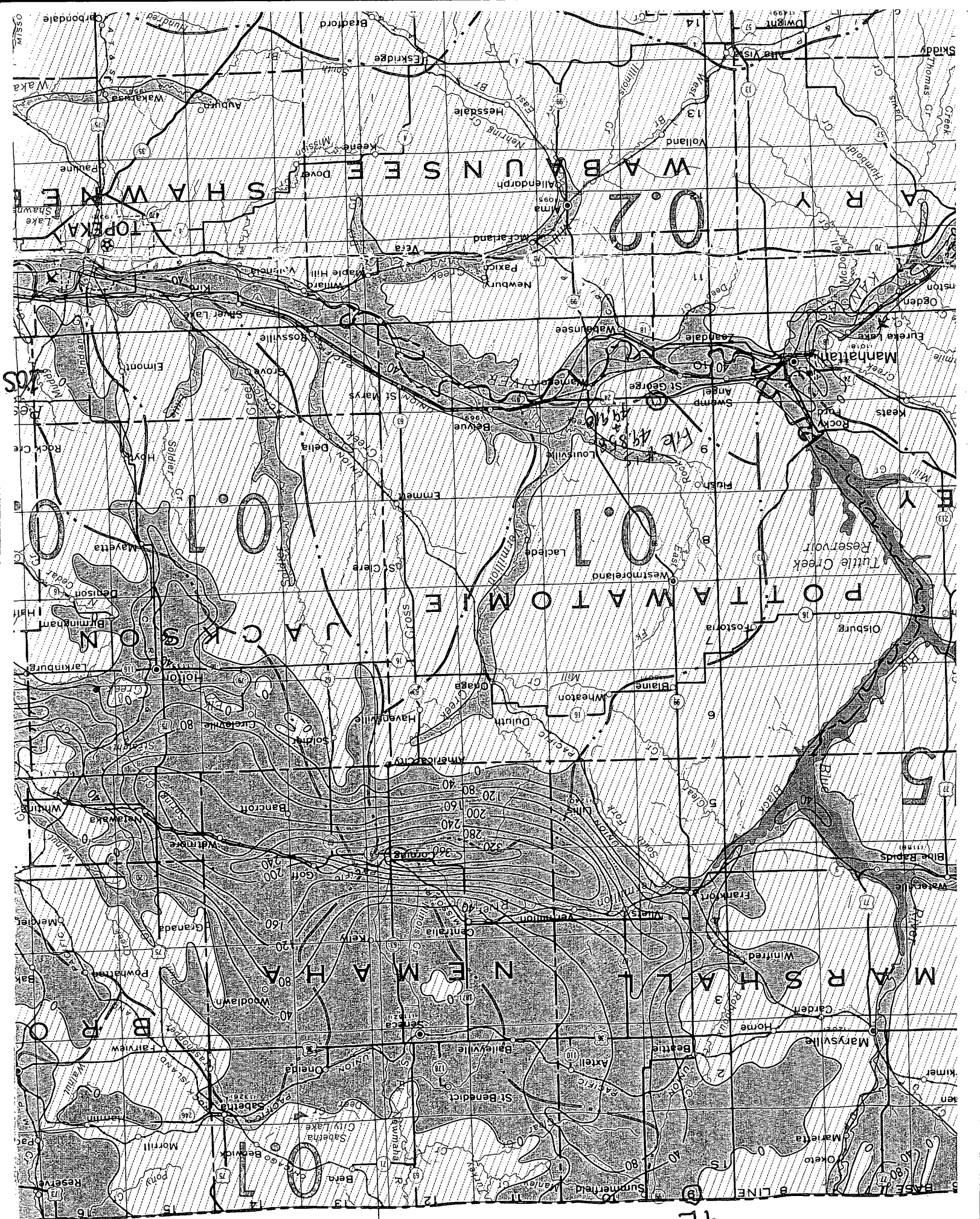
>

> PO BOX 33

> SAINT GEORGE KS 66535

>-----

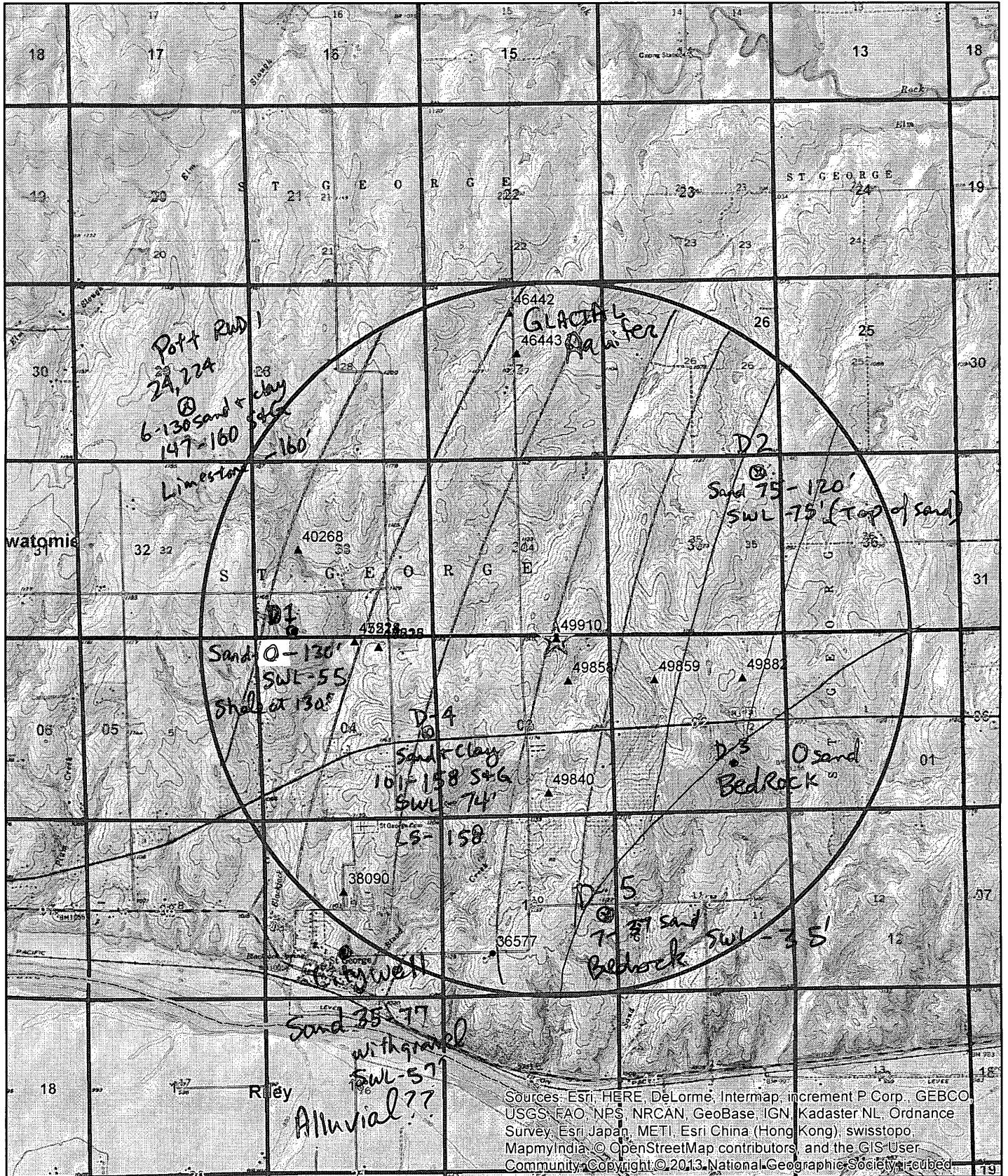
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9E

CITY OF ST. GEORGE
 FILE NOS. 49,858 & 49,910

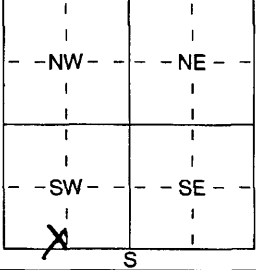
1:48,000



D-1

1 LOCATION OF WATER WELL: Fraction SW 1/4 SW 1/4 SW 1/4 Section Number 33 Township Number T 9 S Range Number R 9 EW
 County: POTAWATOMIE
 Distance and direction from nearest town or city street address of well if located within city?
5165 ROCKENHAM RD.

2 WATER WELL OWNER: GLENNA OSBOURN
 RR#, St. Address, Box # : 5165 ROCKENHAM RD
 City, State, ZIP Code : ST GEORGE, KS 66535
 Board of Agriculture, Division of Water Resources
 Application Number: _____

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

 4 DEPTH OF COMPLETED WELL 137 ft. ELEVATION: _____
 Depth(s) Groundwater Encountered 1 57 ft. 2 _____ ft. 3 _____ ft.
 WELL'S STATIC WATER LEVEL 55 ft. below land surface measured on mo/day/yr 5/28/05
 Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm
 Est. Yield 100 gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well _____
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No X; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes _____ No X

5 TYPE OF BLANK CASING USED: 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued X Clamped _____
 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded _____
2 PVC 4 ABS 7 Fiberglass Threaded _____
 Blank casing diameter 5 in. to 117 ft. Dia _____ in. to _____ ft. Dia _____ in. to _____ ft.
 Casing height above land surface 24 in., weight _____ lbs./ft. Wall thickness or gauge No. SDR21
 TYPE OF SCREEN OR PERFORATION MATERIAL: 7 PVC 10 Asbestos-Cement
 1 Steel 3 Stainless Steel 5 Fiberglass 8 RMP (SR) 11 Other (Specify) _____
 2 Brass 4 Galvanized Steel 6 Concrete tile 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 1 Continuous slot 4 Mill slot 10 1/2 SLOT 6 Wire wrapped 9 Drilled holes
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) _____ ft.
 SCREEN-PERFORATED INTERVALS: From 117 ft. to 137 ft., From _____ ft. to _____ ft.
 GRAVEL PACK INTERVALS: From 25 ft. to 137 ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other _____
 Grout Intervals: From 3 ft. to 25 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below) _____
HOUSE
 Direction from well? WEST How many feet? 60

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	31	SAND, FINE			
31	33	BOULDERS, COBBLES			
33	71	SAND, FINE			
71	72	CLAY, GRAY			
72	108	SAND, FINE			
108	130	SAND, COARSE TRANS CARBONEL			
130	137	SHALE, GRAY			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 5/28/05 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No 760 This Water Well Record was completed on (mo/day/yr) 6/13/05 under the business name of ASSOCIATED DRILLING INC by (signature) _____

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

To BWS 3-28-80

1 LOCATION OF WATER WELL
 County: Pottawatomie Fraction SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section Number 29 Township Number T 9 S Range Number R 9 E/W
 Distance and direction from nearest town or city? 2.5 N. St. Geo., Ks. Street address of well if located within city?

2 WATER WELL OWNER: Pottawatomie CO. RWD No. 1
 RR#, St. Address, Box #: P.O. Box 101 WELL # 3 Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: Louisville, Ks. 66450 Application Number: 24224

3 DEPTH OF COMPLETED WELL: 160 ft. Bore Hole Diameter: 24 in. to 160 ft., and _____ in. to _____ ft.
 Well Water to be used as:
 1 Domestic 3 Feedlot 5 Public water supply 8 Air conditioning 11 Injection well
 2 Irrigation 4 Industrial 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 7 Lawn and garden only 10 Observation well
 Well's static water level: 82'3" ft. below land surface measured on August month 9 day 1979 year
 Pump Test Data: Well water was 121'7" ft. after 5 hours pumping 250 gpm
 Est. Yield 450 gpm: Well water was _____ ft. after _____ hours pumping _____ gpm

4 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile Casing Joints: Glued _____ Clamped _____
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded X _____
 7 Fiberglass _____ Threaded _____
 Blank casing dia 10 in. to 145 ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
 Casing height above land surface: 36 in., weight 35 lbs./ft. Wall thickness or gauge No. 307
 TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement 11 Other (specify) _____
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)
 Screen or Perforation Openings Are:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify) 25 slot
 Screen-Perforation Dia 10 in. to _____ ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
 Screen-Perforated Intervals: From 145 ft. to 160 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 Gravel Pack Intervals: From 40 ft. to 160 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.

5 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other _____
 Grouted Intervals: From 0 ft. to 25 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 What is the nearest source of possible contamination: Open Pasture
 1 Septic tank 4 Cess pool 7 Sewage lagoon 10 Fuel storage 14 Abandoned water well
 2 Sewer lines 5 Seepage pit 8 Feed yard 11 Fertilizer storage 15 Oil well/Gas well
 3 Lateral lines 6 Pit privy 9 Livestock pens 12 Insecticide storage 16 Other (specify below)
 13 Watertight sewer lines
 Direction from well _____ How many feet _____? Water Well Disinfected? Yes X No _____
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No X If yes, date sample was submitted _____ month _____ day _____ year Pump Installed? Yes XX No _____
 If Yes: Pump Manufacturer's name Jacuzzi Model No. SMCA14 HP 40 Volts 460
 Depth of Pump Intake 135 ft. Pumps Capacity rated at 334 gal./min.
 Type of pump: 1 Submersible 2 Turbine 3 Jet 4 Centrifugal 5 Reciprocating 6 Other _____

6 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on October month 1 day 1979 year
 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 182
 This Water Well Record was completed on March month 10 day 1980 year under the business name of Strader Drilling Co., Inc. Holton, Ks. by (signature) Dale Ashren

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

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	6	Top Soil			
6	130	Sand & clay lenses			
130	147	Blue clay			
147	156	Fine sand			
156	160	Coarse sand & pea gravel			
160		Limestone - grey			

ELEVATION: _____
 Depth(s) Groundwater Encountered 1. 13 ft. 2. _____ ft. 3. _____ ft. 4. _____ ft. (Use a second sheet if needed)

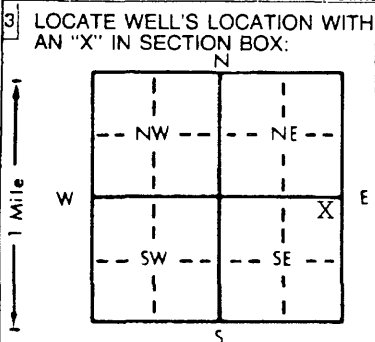
INSTRUCTIONS: Use typewriter or ball point pen, please press firmly and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Division of Environment, Water Well Contractors, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY
T
9
R
9
EW
SEC
29
SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$

D-4

1 LOCATION OF WATER WELL: Fraction NE 1/4 NE 1/4 SE 1/4 Section Number 4 Township Number T 10 S Range Number R 9E EW
 County: POTTAWATOMIE
 Distance and direction from nearest town or city street address of well if located within city?

2 WATER WELL OWNER: Mark Ebert
 RR#, St. Address, Box # : 6240 Salzer Board of Agriculture, Division of Water Resource
 City, State, ZIP Code : Wamego, KS 66547 Application Number:



4 DEPTH OF COMPLETED WELL... 156' ft. ELEVATION:
 Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL... .74' ft. below land surface measured on mo/day/yr 7/10/97
 Pump test data: Well water was ft. after hours pumping gpm
 Est. Yield .60 gpm: Well water was ft. after hours pumping gpm
 Bore Hole Diameter 12" in. to ft., and in. to ft.
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well
 Was a chemical/bacteriological sample submitted to Department? Yes No X; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes X No

5 TYPE OF BLANK CASING USED: 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued X Clamped
 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded
 2 PVC 4 ABS 7 Fiberglass Threaded
 Blank casing diameter 5" in. to 0-144 ft. Dia 5" in. to 154-156 ft. Dia in. to ft.
 Casing height above land surface 24" in. weight 2.82 lbs./ft. Wall thickness or gauge No. 258
 TYPE OF SCREEN OR PERFORATION MATERIAL: 7 PVC 10 Asbestos-cement
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify)
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify)
 SCREEN-PERFORATED INTERVALS: From 144 ft. to 154 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 24 ft. to 156 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other
 Grout Intervals: From 4 ft. to 24 ft., From ft. to ft.
 What is the nearest source of possible contamination: 10 Livestock pens 14 Abandoned water well
 1 Septic tank 4 Lateral lines 7 Pit privy 11 Fuel storage 15 Oil well/Gas well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 16 Other (specify below)
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 13 Insecticide storage
 Direction from well? North How many feet? 80'

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	11	Fine Sand-Silty-Brown			
11	27	Clay-Brown-Silty			
27-31		Fine Sand-Brown			
31	34	Clay-Brown-Silty			
34	38	Fine Sand-Brown-Silty			
38	46	Clay-Brown-Silty			
46	64	Fine Sand-Brown			
64	89	Clay-Brown-silty			
89	99	Fine Sand-Brown			
99	100	Clay-Brown			
101	151	Fine Sand-Brown			
151	154	Fine Sand-Coarse Sand-Med Gravel-Br			
154	158	FS-CS-Med-Pea Chert Gravel 1/4x3/8			
158		Limestone-Grey			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 7/10/97 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 182 This Water Well Record was completed on (mo/day/yr) 8-4-97 under the business name of STRADER DRILLING CO., INC. by (signature) Dale Eskran

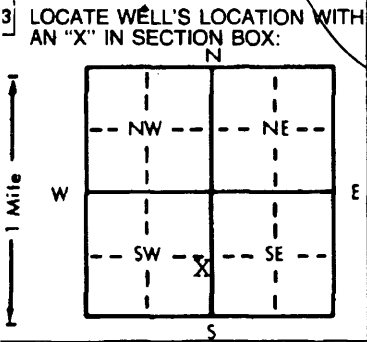
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0001. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

City

WATER WELL RECORD Form WWC-5 KSA 82a-1212

1 LOCATION OF WATER WELL: Fraction NE 1/4 SE 1/4 SW 1/4 Section Number 9 Township Number T 10 S Range Number R 9E E/W
 County: POTTAWATOMIE
 Distance and direction from nearest town or city street address of well if located within city?

2 WATER WELL OWNER: City of St. George WELL #4 Board of Agriculture, Division of Water Resources
 RR#, St. Address, Box #: City Hall
 City, State, ZIP Code: St. George, KS 66535 Application Number:



4 DEPTH OF COMPLETED WELL: 77' ft. ELEVATION:
 Depth(s) Groundwater Encountered: 1. ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL: 57'-7" ft. below land surface measured on mo/day/yr 8-04-92
 Pump test data: Well water was 62'-7 1/2" ft. after 1 hours pumping 35 gpm
 Est. Yield 54.5 gpm: Well water was 62'-7 1/2" ft. after 5 hours pumping 54.5 gpm
 Bore Hole Diameter: 24" in. to ft., and in. to ft.
 WELL WATER TO BE USED AS:
 1 Domestic 3 Feedlot 5 Public water supply 8 Air conditioning 11 Injection well
 2 Irrigation 4 Industrial 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 7 Lawn and garden only 10 Monitoring well
 Was a chemical/bacteriological sample submitted to Department? Yes No; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes X No

5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued ~~.....~~ Clamped
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded X
 7 Fiberglass 4 ABS Threaded
 Blank casing diameter: 10" in. to 0-67 ft., Dia. in. to ft., Dia. in. to ft.
 Casing height above land surface: in., weight 40 lb. lbs./ft. Wall thickness or gauge No. 365
 TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless steel Johnson Fiberglass 7 PVC 10 Asbestos-cement
 2 Brass 4 Galvanized steel .060 6 Concrete tile 8 RMP (SR) 11 Other (specify)
 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify)
 SCREEN-PERFORATED INTERVALS: From 67 ft. to 77 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 38 ft. to 77 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other
 Grout Intervals: From 5 ft. to 36' ft., From ft. to ft., From ft. to ft.
 What is the nearest source of possible contamination: City owned land
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage
 Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	28	Fine Sand-Silty-Brown			
28	35	Clay-Brown-Silty			
35	50	Fine Sand-Brown-Silty			
50	58	Fine Sand-Brown-Silty-Clay-Brown			
58	60	Clay-Brown-Silty			
60	67	Fine Sand-Silty-Brown			
67	68	Fine Sand-Coarse Sand-Med-Gravel, Brown			
68	69	Boulders			
69	71	Fine Sand-Coarse Sand-Med-Gravel-Brown			
71	72	Clay-Brown			
72	77	Fine Sand-Coarse Sand-Med-some pea gravel-Brown-dirty			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 7-31-92 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 182 This Water Well Record was completed on (mo/day/yr) 8-10-92 under the business name of STRADER DRILLING CO., INC. by (signature) Dalishken

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0001. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

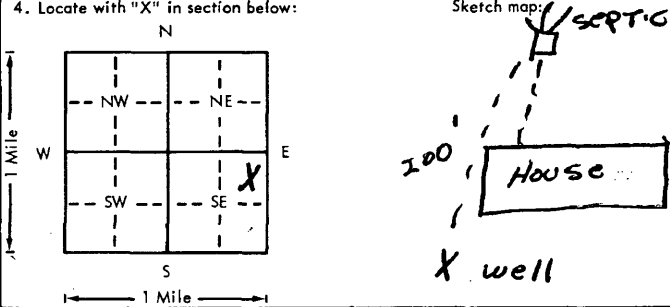
OFFICE USE ONLY
H
EW
SEC.
1/4
1/4
1/4

USE TYPEWRITER OR BALL POINT PEN—PRESS FIRMLY, PRINT CLEARLY.

WATER WELL RECORD
KSA 82a-1201-1215

Kansas Department of Health and Environment—Division of Environment
(Water well Contractors)
Topeka, Kansas 66620

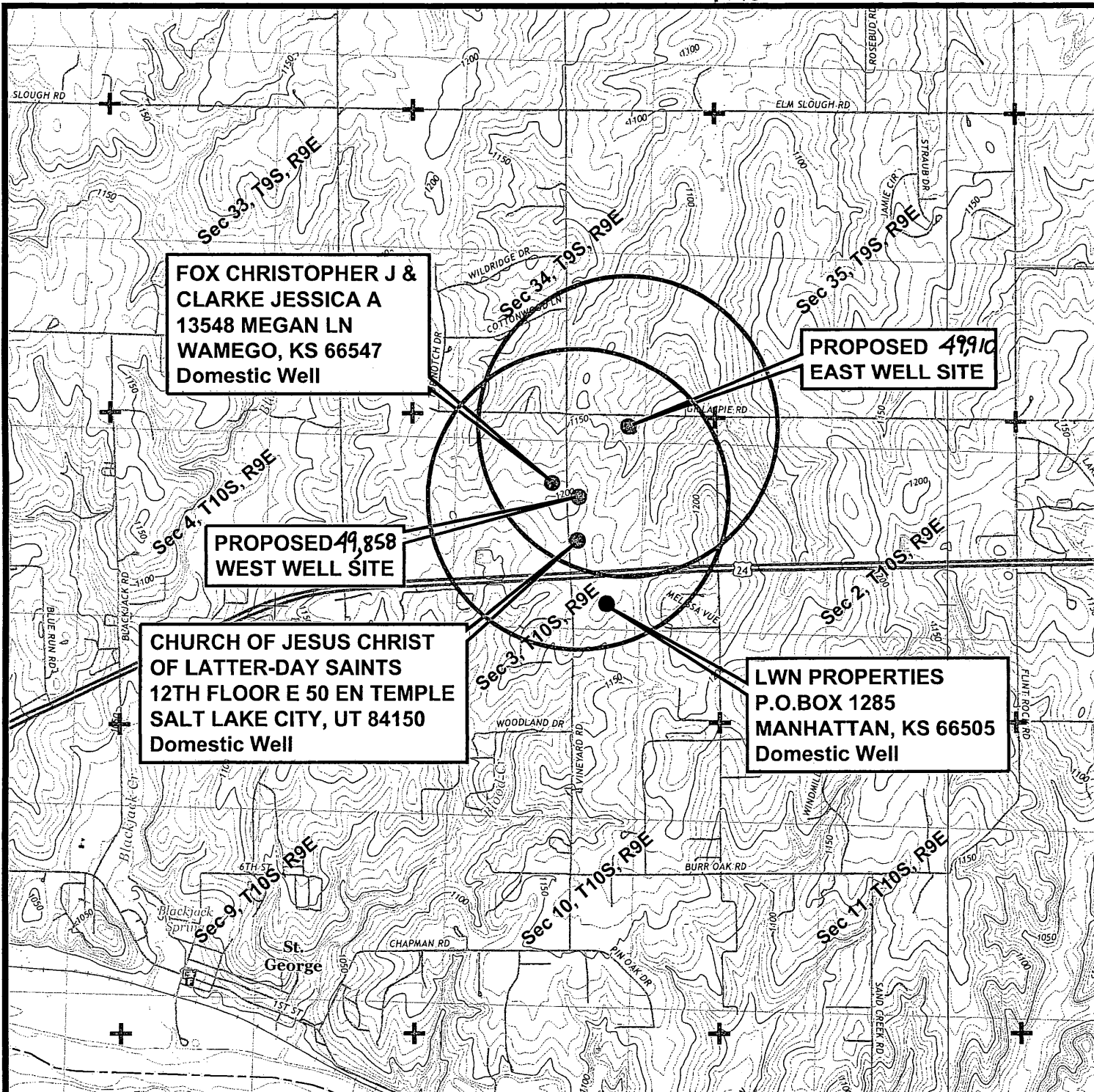
D-5

1. Location of well:		County POTAWATOMIE	Fraction NE 1/4 NE 1/4 SE 1/4	Section number 10	Township number T 10	Range number R 9
2. Distance and direction from nearest town or city: 1 E OF Street address of well location if in city: ST. GEORGE				3. Owner of well: GARY SMITH R.R. or street: R.R. City, state, zip code: RANDOLPH, KS 66554		
4. Locate with "X" in section below: 				6. Bore hole dia. 12 in. Completion date Well depth 160 ft. 9-8-70		
5. Type and color of material				7. <input checked="" type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Reverse rotary		
				8. Use: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock <input type="checkbox"/> Lawn <input type="checkbox"/> Oil field water <input type="checkbox"/> Other		
				9. Casing: Material PVC Height: Above or below Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Surface 29 in. RMP <input type="checkbox"/> PVC 96 Weight 2150 lbs./ft. Dia. 5 in. to 160 ft. depth; Wall Thickness: inches or Dia. <input type="checkbox"/> in. to <input type="checkbox"/> ft. depth; gage No. 1274		
				10. Screen: Manufacturer's name Pumpco MP5 Type PVC Dia. 5 <input checked="" type="checkbox"/> Slot gauze 1020 Length 130 Set between 30 ft. and 160 ft. ft. and <input type="checkbox"/> ft. Gravel pack? <input checked="" type="checkbox"/> Size range of material 10/20/40		
				11. Static water level: <input type="checkbox"/> mo./day/yr. 35 ft. below land surface Date 9-8-70		
				12. Pumping level below land surfaces: ____ ft. after ____ hrs. pumping ____ g.p.m. ____ ft. after ____ hrs. pumping ____ g.p.m. Estimated maximum yield ____ g.p.m.		
				13. Water sample submitted: ____ mo./day/yr. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date		
				14. Well head completion: CAP <input type="checkbox"/> Pitless adapter 28 inches above grade		
				15. Well grouted? <input checked="" type="checkbox"/> With: <input checked="" type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Concrete Depth: From 5 ft. to 15 ft.		
				16. Nearest source of possible contamination: ft. 200 Direction S Type SEPTIC Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
				17. Pump: <input checked="" type="checkbox"/> Not installed Manufacturer's name _____ Model number _____ HP _____ Volts _____ Length of drop pipe _____ ft. capacity _____ g.p.m. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal <input type="checkbox"/> Other		
				(Use a second sheet if needed)		
18. Elevation:		19. Remarks:		20. Water well contractor's certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Strader Delq Co 182 Business name License No. Address RT 1 Holton, KS Signed Dale Rubin Date 9-11-70 Authorized representative		
Topography: <input checked="" type="checkbox"/> Hill <input type="checkbox"/> Slope <input type="checkbox"/> Upland <input type="checkbox"/> Valley		OWNER TO INSTALL SLAB				

12-9-70
R
W
E
12
1/4
1/4
1/4
NE 1/4 SE

Forward the white, blue and pink copies to the Department of Health and Environment

Form WWC-5



**FOX CHRISTOPHER J &
CLARKE JESSICA A**
13548 MEGAN LN
WAMEGO, KS 66547
Domestic Well

PROPOSED 49,910
EAST WELL SITE

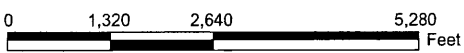
PROPOSED 49,858
WEST WELL SITE

**CHURCH OF JESUS CHRIST
OF LATTER-DAY SAINTS**
12TH FLOOR E 50 EN TEMPLE
SALT LAKE CITY, UT 84150
Domestic Well

LWN PROPERTIES
P.O. BOX 1285
MANHATTAN, KS 66505
Domestic Well

LEGEND

- Proposed Well
- Existing Well
- ⊕ Section Corners
- 1/2 Mile Buffer



City of St. George, KS

New Application Map
Sec 3, T10S, R9E Pottawatomie County

SEP 22 2017

To the best of my knowledge, all water wells including domestic within 1/2 mile of the proposed point of diversion have been shown.

Tommy Calmes
Signature Date 09 20-17

1:24000 scale

Ground Water Associates, Inc.

109 W. 1st AVENUE, P.O. BOX 792 • GODDARD, KS 67052 • 316-550-6177

Aug 17, 2017

Lane Letourneau, L.G., Water Appropriation Program Mgr.
Division of Water Resources
1320 Research Park Drive
Manhattan, Kansas 66502-5000

WATER RESOURCES
RECEIVED

SEP 22 2017

KS DEPT OF AGRICULTURE

Subject: City of St. George

Dear Lane,

This letter is written to transmit additional information on the NE ¼ of Section 3, T10S, R9E where water right application 49858 (TW 9-17 site) is pending, and a second application (TW 8-17 site) is being filed a quarter mile northeast.

To assist with these applications, we are providing additional information. Table 1 summarizes the test holes and 5" test wells drilled in Section 2 & 3, T10S, R9E for the City of St. George. From this data, current WWC5's and a previous investigation in Section 22, 27, 28, T10S, R9E, we have identified a buried glacial valley which is shown on the topographic map that is included with this letter.

Pumping tests were run on both TW 8-17 and TW 9-17 (wr appl. 49858) and we are including the data collected along with the Aquifer Test 4.0 analysis.

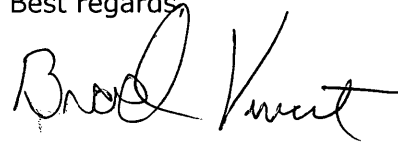
After application 49858 was filed, a domestic well (Jessica Clarke domestic well) was drilled 455 feet west of Test Well 9-17. We understand that Flint Hills Drilling of Westmoreland, Kansas drilled this well, but no WWC5 appears in the state records as of September 15, 2017. August 22, 2017, the day of the pumping test, no pump had been set in this domestic well. A transducer was installed by Clarke Drilling, and data was collected in the Jessica Clarke domestic well during the TW 9-17 test. We have included this information with the Aquifer Test data.

Brian Foster, P.E., BG Consultants of Manhattan, has completed a projection showing the City of St. George water use of 116 million gallons per year (MGY), 256 acre feet. We understand that currently the city has water rights of 46 MGY, 141
* acre feet. We understand that there will be a limiting factor on the two current and two proposed water wells at 116 MGY.

Currently the City of St. George has three other applications pending, 49840, 49859 and 49882. The city will decide if they wish to do any more drilling at these sites. If any additional information is needed or there are additional questions, please contact me at 316-550-6177.



Best regards,

A handwritten signature in black ink, appearing to read "Brad Vincent". The signature is fluid and cursive, with the first name "Brad" and the last name "Vincent" clearly distinguishable.

Brad C. Vincent, P.G.
Ground Water Associates

Pc. Brian Foster, P.E.
BG Consultants
4806 Vue Du Lac Place
Manhattan, KS 66503

WATER RESOURCES
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SEP 22 2017

KS DEPT OF AGRICULTURE



Ground Water Associates
 109 W. 1st, P.O. Box 792
 Goddard, KS 67052

Pumping Test - Water Level Data

Project: St George (West)

Number:

Client:

Location: NW 1/4 Sec 3 T10S R9E (West)

Pumping Test: Pumping Test 1

Pumping well: TW 9-17

Test conducted by: Clarke Drilling

Test date: 8/22/2017

Discharge: variable, average rate 73.996 [U.S. gal/min]

Observation well: 6" Domestic Well

Static water level [ft]: 103.50

Radial distance to PW [ft]: 455

	Time [min]	Water Level [ft]	Drawdown [ft]
1	65	103.50	0.00
2	169	103.51	0.01
3	187	103.53	0.03
4	235	103.54	0.04
5	296	103.55	0.05
6	356	103.56	0.06
7	683	103.55	0.05
8	714	103.54	0.04

RECOVERY STARTS @ 202 MN

TRANSDUCER READINGS FROM NEW
 6" DOMESTIC WELL. NO PUMP IN WELL YET.

DRILLED AFTER 49858 APPLICATION FILED

WATER RESOURCES
 RECEIVED

SEP 22 2017



Water Demand Memo

To: Kansas Department of Agriculture,
Division of Water Resources

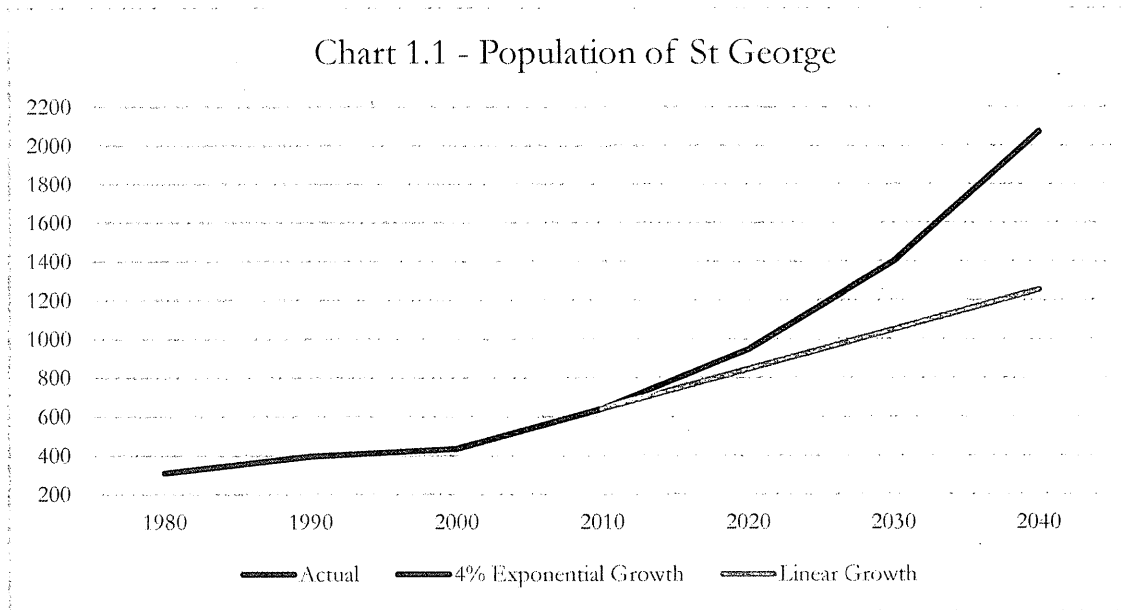
From: Brain Foster, P.E.

Date: August 31, 2017

Re: St George Water Demand Projections

The City of St. George is experiencing substantial growth and is in need of additional water allocations. The following data was compiled for planning purposes for the City.

US Census results from 1980 to 2010 shown in Chart 1.1 indicates that the population of St. George is in a period of exponential growth. From 1980 to 2010 the population increased at a rate of 2.42% per year, then from 2000 to 2010 the growth rate was 3.87%. Exponential growth is generally followed by a period of linear growth and then declining growth as an area reaches a saturation point.



Based on the City's annual water use reports from 2012, 2014 and 2015, the total raw water diverted averaged 21.5 MGY (58,934 gpd). 2012 was the highest water usage when 23.0 MGY (63,082 gpd) of water was diverted.

WATER RESOURCES
RECEIVED

SEP 22 2017

WATER RESOURCES
RECEIVED

11 Pages
SEP 22 2017



From 2010 to 2015, the City's water demand has increased at a rate of 3.55% per year. This closely parallels the rate of population growth of 3.87% per year from 2000 to 2010. The City's water demand is projected to continue to parallel the population. Assuming a 4% exponential growth rate, the average daily demand for 2040 is projected to increase to 157,000 gpd or 57.3 MGY.

	Water (1,000 Gallons)					
	2010	2011	2012	2014	2015	Average
Raw Water Diverted	17,403	18,604	23,025	20,722	20,786	20,108
Water Sold to Commercial & Residential	14,434	16,065	18,494	17,524	17,033	16,710
Metered Water Provided Free	0	0	1,252	1,212	0	493
Unaccounted for Water	2,969	2,539	3,279	1,986	3,753	2,905
Percent Water Loss	17.1%	13.6%	14.2%	9.6%	18.1%	14.5%
Max Month Raw Water Diverted	-	2,628	3,295	2,654	2,404	2,196

Table 1.2 – Summary of Municipal Water Use Reports (2010-2012 and 2014-2015).

The entire area between Manhattan and Wamego is growing at a rapid rate and most expect this growth to continue or increase. The KDOT US-24 Corridor Management Plan indicates that this area could more than double in population by 2030. From 2000 to 2010 the population of Manhattan grew at a rate of approximately 6.5%. New area is becoming limited in Manhattan and population growth is shifting to the Hwy 24 Corridor area between Manhattan and Wamego.

The potential exists for several areas located adjacent to the existing City limits to be developed into residential housing. If this were to happen, these new housing developments could potentially be supplied with water from the City of St. George. Therefore, to assist in long term planning for the City, these areas have been identified and evaluated for their potential future water demand. The enclosed Figure 1, identifies the areas that were evaluated as part of this report.

To estimate a future water demand for these areas, the total acreage for each area was determined. Using three recent housing developments within the City of St. George as a benchmark, an average of 0.3 acres per lot was used to determine the total number of lots for each area. This yielded a total of 1,326 potential lots between all of the areas identified. Using the current usage of 85 gallons per capita per day (gpcd) and an average household size of 2.7 from the 2010 census of Pottawatomie County, **the potential future annual water demand of these areas would be approximately 93 MGY in addition to the current demand of 23 MGY for a total of 116 MGY.**

This is an exciting time for St George as multiple developers are in active discussion with the City about developing some of these areas adjacent to the City. If these discussions become developments in the next 5 years, the previously mentioned population growth rate of 4% will be exceeded. The City believes there is good potential that this entire area will become fully developed in the next 20 years.

WATER RESOURCES
RECEIVED

2 | Page
SEP 22 2017



9 Aug 2017

St George

TW 9-17 1408' S & 130' E. of NW cor. of NE ¼ Section 3, T10S, R9E Elevation 1200'
N 39 12.819' W 96 23.869'

SWL 115.70' @GL

0 - 1'	Top soil
1 - 35	Sand br vf - f
35 - 48	Sand tan, vf - f
48 - 58	Clay gy, sand tan, vf - f
58 - 60	Clay gy, yel, sand, tan streaks
60 - 80	Clay tan, sandy silty
80 - 100	Sand vf, clay silty
100 - 120	Sand tan, vf
120 - 145	Sand tan, vf silty
145 - 155	Sand tan vf
155 - 168	Sand br, vf - m, so. shale gy pieces
168 - 175	Sand dk br, vf - m, so. shale gy pieces
175 - 196	Sand br/tan, vf - f, silty
196 - 215	Sand br, f - m, so. sand c to gravel to pebbles (cemented stks 206 & 210)
215	LS gy

Set 5" pvc, screen 213' - 163'.

Gravel Pack to 60' and holeplug 60' to 0.

Logged by Brad Vincent, Ground Water Associates
GPS - Garmin hand held using 1927 North American datum

WATER RESOURCES
RECEIVED

SEP 22 2017

KS DEPT OF AGRICULTURE



Ground Water Associates
109 W. 1st, P.O. Box 792
Goddard, KS 67052

Pumping Test - Water Level Data

Project: St George TW 8-17

Number:

Client:

Location: NE 1/4 Sec 3, T10S, R9E (East)

Pumping Test: Pumping Test 1

Pumping well: TW 8-17

Test conducted by: Clarke drilling

Test date: 8/21/2017

Discharge: variable, average rate 99.951 [U.S. gal/min]

Observation well: TW 8-17

Static water level [ft]: 47.91

Radial distance to PW [ft]: -

	Time [min]	Water Level [ft]	Drawdown [ft]
1	1	56.45	8.54
2	2	56.74	8.83
3	3	56.87	8.96
4	5	56.96	9.05
5	7	57.02	9.11
6	9	57.08	9.17
7	11	57.12	9.21
8	15	57.14	9.23
9	20	57.17	9.26
10	25	57.19	9.28
11	30	57.20	9.29
12	35	57.21	9.30
13	40	57.22	9.31
14	45	57.22	9.31
15	50	57.22	9.31
16	60	57.23	9.32
17	70	57.23	9.32
18	80	57.25	9.34
19	90	57.25	9.34
20	100	57.26	9.35
21	120	57.27	9.36
22	150	57.24	9.33
23	180	57.25	9.34
24	202	57.25	9.34
25	203	48.44	0.53
26	204	48.50	0.59
27	205	48.34	0.43
28	206	48.25	0.34
29	207	48.18	0.27
30	208	48.14	0.23
31	209	48.11	0.20
32	210	48.08	0.17
33	211	48.05	0.14
34	212	48.03	0.12
35	213	48.01	0.10
36	214	48.00	0.09
37	215	47.99	0.08
38	216	47.98	0.07
39	217	47.97	0.06
40	218	47.96	0.05
41	219	47.96	0.05
42	220	47.95	0.04
43	221	47.95	0.04
44	222	47.95	0.04
45	223	47.94	0.03
46	224	47.94	0.03

Recovery
↓

WATER RESOURCES RECEIVED

SEP 22 2017



Ground Water Associates
109 W. 1st, P.O. Box 792
Goddard, KS 67052

Pumping Test - Water Level Data

Page 2 of 2

Project: St George TW 8-17

Number:

Client:

	Time [min]	Water Level [ft]	Drawdown [ft]
47	225	47.94	0.03
48	226	47.93	0.02
49	237	47.92	0.01
50	250	47.91	0.00

WATER RESOURCES
RECEIVED

SEP 22 2017

KS DEPT OF AGRICULTURE



Ground Water Associates
 109 W. 1st, P.O. Box 792
 Goddard, KS 67052

Pumping Test Analysis Report

Project: St George TW 8-17

Number:

Client:

Location: NE 1/4 Sec 3, T10S, R9E (East)

Pumping Test: Pumping Test 1

Pumping well: TW 8-17

Test conducted by: Clarke drilling

Test date: 8/21/2017

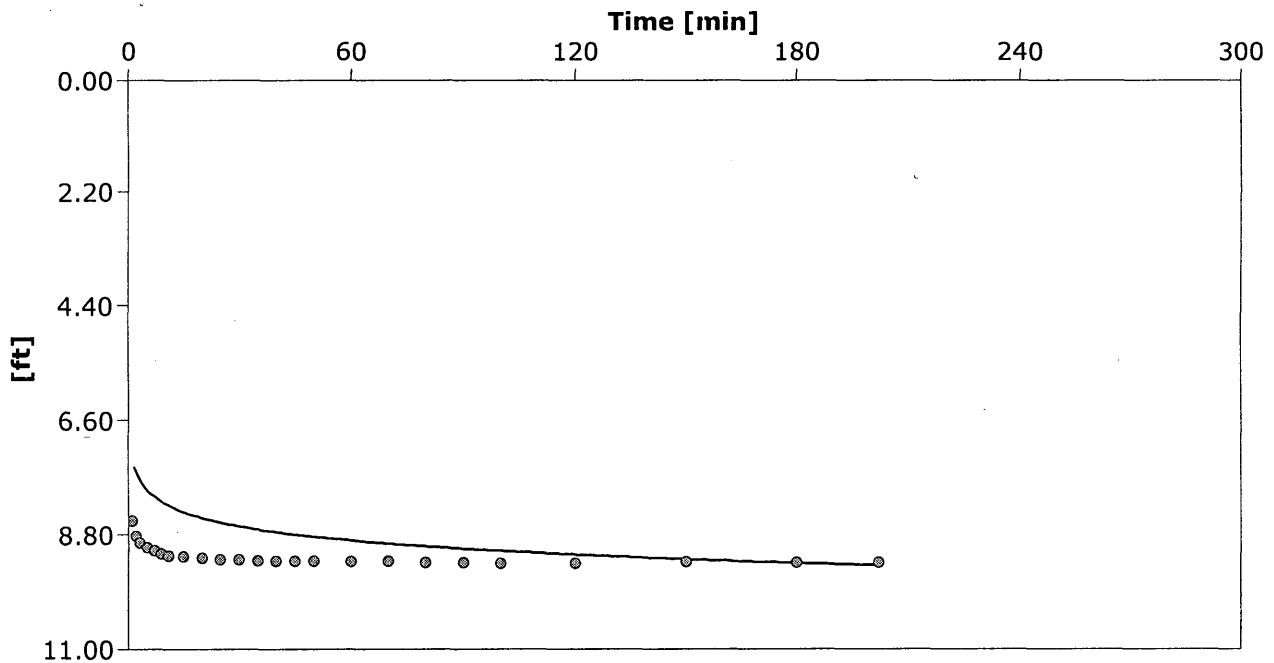
Analysis performed by: Brad Vincent

Drawdown

Date: 8/22/2017

Aquifer Thickness: 94.09 ft

Discharge: variable, average rate 99.951 [U.S. gal/min]



Calculation after Theis

Observation well	Transmissivity [U.S. gal/d-ft]	K [U.S. gal/d-ft ²]	Storage coefficient	Radial distance to PW [ft]
TW 8-17	2.90×10^4	3.08×10^2	1.30×10^{-6}	0.21

WATER RESOURCES
 RECEIVED

SEP 22 2017



Ground Water Associates
 109 W. 1st, P.O. Box 792
 Goddard, KS 67052

Pumping Test Analysis Report

Project: St George TW 8-17

Number:

Client:

Location: NE 1/4 Sec 3, T10S, R9E (East)

Pumping Test: Pumping Test 1

Pumping well: TW 8-17

Test conducted by: Clarke drilling

Test date: 8/21/2017

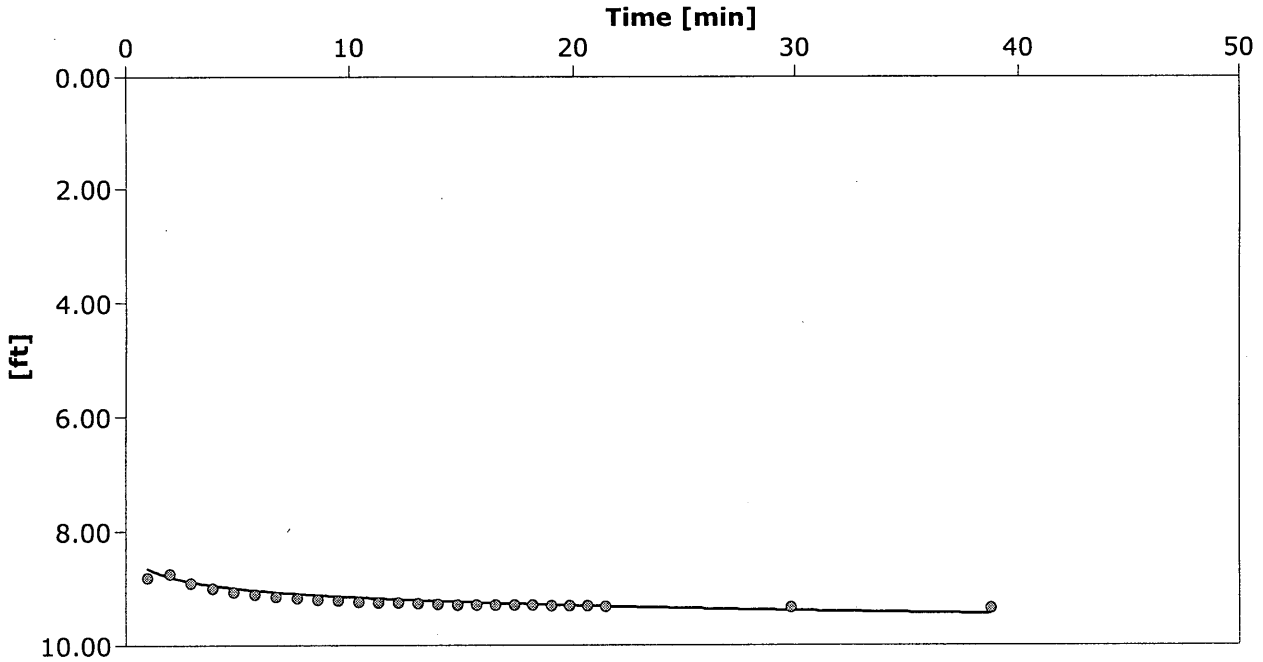
Analysis performed by: Brad Vincent

Recovery

Date: 9/15/2017

Aquifer Thickness: 94.09 ft

Discharge: variable, average rate 99.951 [U.S. gal/min]



Calculation after AGARWAL + Theis

Observation well	Transmissivity [U.S. gal/d-ft]	K [U.S. gal/d-ft ²]	Storage coefficient	Radial distance to PW [ft]
TW 8-17	5.28×10^4	5.61×10^2	1.21×10^{-15}	0.21

STORAGE COEFFICIENT INCORRECT. Pumping Well

WATER RESOURCES
 RECEIVED

SEP 22 2017



Ground Water Associates
109 W. 1st, P.O. Box 792
Goddard, KS 67052

Pumping Test - Water Level Data

Project: St George TW 8-17

Number:

Client:

Location: NE 1/4 Sec 3, T10S, R9E (East)

Pumping Test: Pumping Test 1

Pumping well: TW 8-17

Test conducted by: Clarke drilling

Test date: 8/21/2017

Discharge: variable, average rate 99.951 [U.S. gal/min]

Observation well: TH 5-17

Static water level [ft]: 47.49

Radial distance to PW [ft]: 33.15

	Time [min]	Water Level [ft]	Drawdown [ft]
1	1	48.69	1.20
2	2	49.06	1.57
3	3	49.22	1.73
4	5	49.31	1.82
5	6	49.38	1.89
6	7	49.42	1.93
7	8	49.45	1.96
8	9	49.47	1.98
9	10	49.49	2.00
10	11	49.51	2.02
11	12	49.52	2.03
12	13	49.53	2.04
13	15	49.54	2.05
14	17	49.55	2.06
15	20	49.56	2.07
16	23	49.57	2.08
17	39	49.58	2.09
18	41	49.59	2.10
19	52	49.60	2.11
20	57	49.61	2.12
21	66	49.62	2.13
22	90	49.63	2.14
23	117	49.64	2.15
24	202	49.65	2.16
25	203	48.31	0.82
26	204	48.07	0.58
27	205	47.91	0.42
28	206	47.82	0.33
29	207	47.76	0.27
30	208	47.72	0.23
31	209	47.68	0.19
32	210	47.64	0.15
33	211	47.61	0.12
34	212	47.60	0.11
35	213	47.58	0.09
36	214	47.57	0.08
37	215	47.56	0.07
38	216	47.55	0.06
39	217	47.54	0.05
40	218	47.53	0.04
41	219	47.53	0.04
42	220	47.53	0.04
43	221	47.52	0.03
44	222	47.52	0.03
45	223	47.51	0.02
46	224	47.51	0.02

_____ Recovery
 ↓

WATER RESOURCES
 RECEIVED

SEP 22 2017



Ground Water Associates
109 W. 1st, P.O. Box 792
Goddard, KS 67052

Pumping Test - Water Level Data

Project: St George TW 8-17

Number:

Client:

	Time [min]	Water Level [ft]	Drawdown [ft]
47	225	47.51	0.02
48	226	47.51	0.02
49	230	47.50	0.01
50	240	47.49	0.00

WATER RESOURCES
RECEIVED

SEP 22 2017

KS DEPT OF AGRICULTURE



Ground Water Associates
 109 W. 1st, P.O. Box 792
 Goddard, KS 67052

Pumping Test Analysis Report

Project: St George TW 8-17

Number:

Client:

Location: NE 1/4 Sec 3, T10S, R9E (East)

Pumping Test: Pumping Test 1

Pumping well: TW 8-17

Test conducted by: Clarke drilling

Test date: 8/21/2017

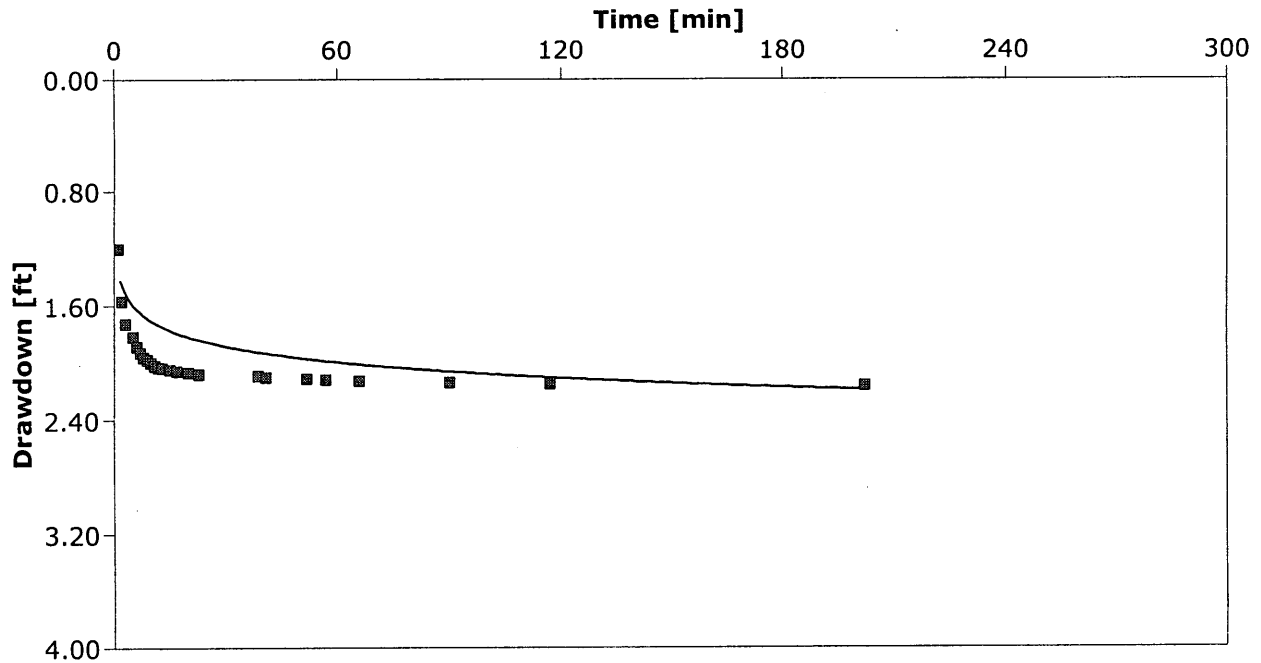
Analysis performed by: Brad Vincent

Drawdown

Date: 8/22/2017

Aquifer Thickness: 94.09 ft

Discharge: variable, average rate 99.951 [U.S. gal/min]



Calculation after Theis

Observation well	Transmissivity [U.S. gal/d-ft]	K [U.S. gal/d-ft ²]	Storage coefficient	Radial distance to PW [ft]
TH 5-17	7.12×10^4	7.57×10^2	3.35×10^{-5}	33.15

WATER RESOURCES
 RECEIVED

SEP 22 2017



Ground Water Associates
 109 W. 1st, P.O. Box 792
 Goddard, KS 67052

Pumping Test Analysis Report

Project: St George TW 8-17

Number:

Client:

Location: NE 1/4 Sec 3, T10S, R9E (East)

Pumping Test: Pumping Test 1

Pumping well: TW 8-17

Test conducted by: Clarke drilling

Test date: 8/21/2017

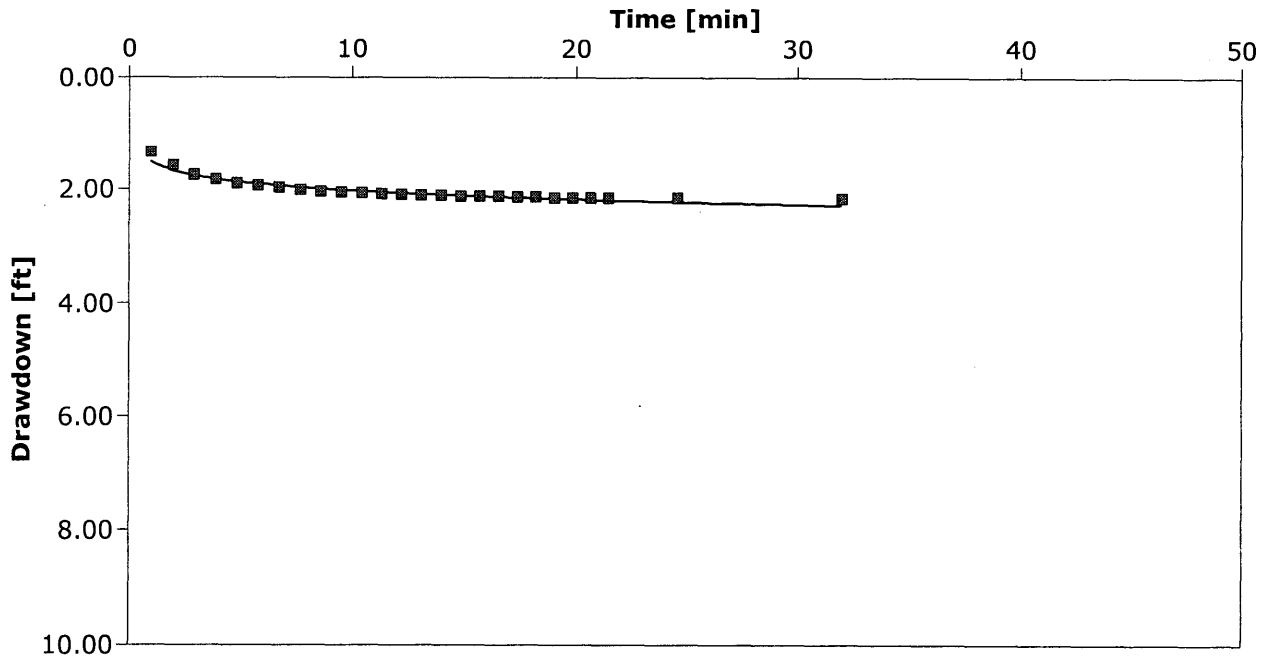
Analysis performed by: Brad Vincent

Recovery

Date: 9/15/2017

Aquifer Thickness: 94.09 ft

Discharge: variable, average rate 99.951 [U.S. gal/min]



Calculation after AGARWAL + Theis

Observation well	Transmissivity [U.S. gal/d-ft]	K [U.S. gal/d-ft ²]	Storage coefficient	Radial distance to PW [ft]
TH 5-17	5.28×10^4	5.61×10^2	8.78×10^{-6}	33.15

WATER RESOURCES
 RECEIVED

SEP 22 2017



Ground Water Associates
109 W. 1st, P.O. Box 792
Goddard, KS 67052

Pumping Test - Water Level Data

Project: St George (West)

Number:

Client:

Location: NW 1/4 Sec 3 T10S R9E (West)

Pumping Test: Pumping Test 1

Pumping well: TW 9-17

Test conducted by: Clarke Drilling

Test date: 8/22/2017

Discharge: variable, average rate 73.996 [U.S. gal/min]

Observation well: TW 9-17

Static water level [ft]: 115.70

Radial distance to PW [ft]: -

	Time [min]	Water Level [ft]	Drawdown [ft]
1	1	123.68	7.98
2	2	123.78	8.08
3	3	123.84	8.14
4	4	123.79	8.09
5	5	123.83	8.13
6	7	123.85	8.15
7	9	123.86	8.16
8	11	123.86	8.16
9	15	123.87	8.17
10	20	123.87	8.17
11	25	123.88	8.18
12	30	123.88	8.18
13	35	123.89	8.19
14	40	123.89	8.19
15	45	123.89	8.19
16	50	123.91	8.21
17	60	123.90	8.20
18	70	123.91	8.21
19	80	123.91	8.21
20	90	123.92	8.22
21	100	123.93	8.23
22	120	123.95	8.25
23	150	124.00	8.30
24	180	124.05	8.35
25	202	124.08	8.38
26	203.5	115.88	0.18
27	204.5	115.86	0.16
28	205	115.84	0.14
29	207	115.81	0.11
30	209	115.81	0.11
31	211	115.82	0.12
32	213	115.78	0.08
33	217	115.77	0.07

START RECOVERY

WATER RESOURCES
 RECEIVED

SEP 22 2017



Ground Water Associates
 109 W. 1st, P.O. Box 792
 Goddard, KS 67052

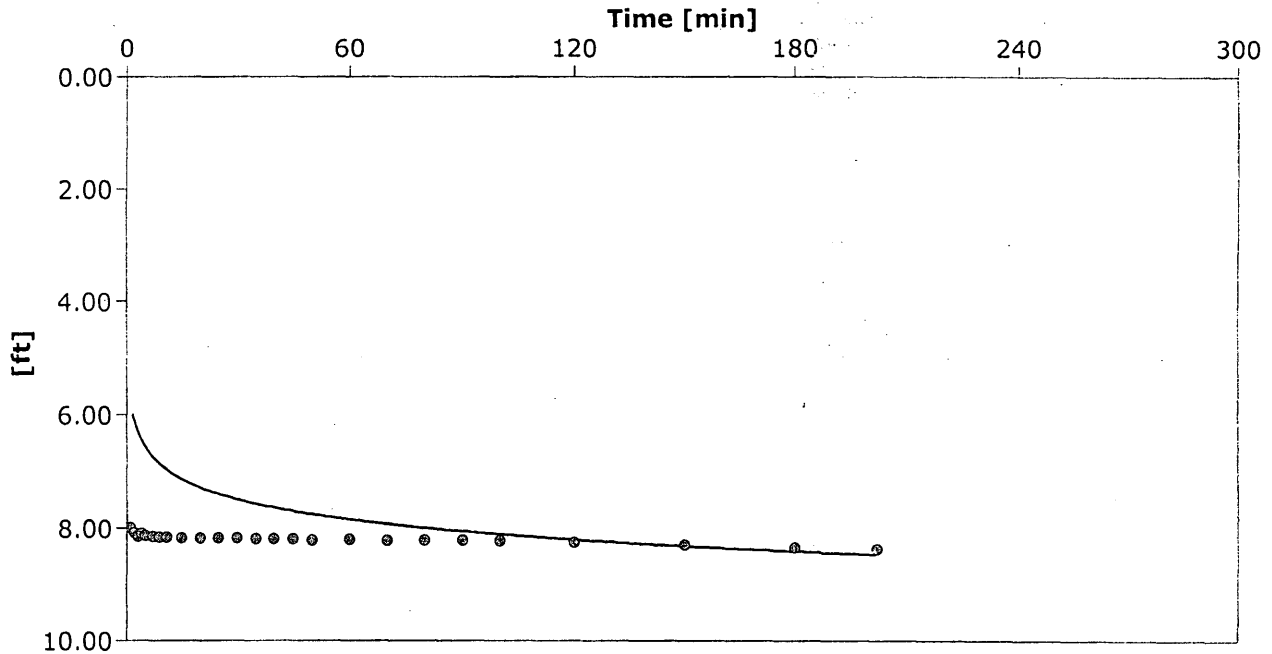
Pumping Test Analysis Report

Project: St George (West)

Number:

Client:

Location: NW 1/4 Sec 3 T10S R9E (West)	Pumping Test: Pumping Test 1	Pumping well: TW 9-17
Test conducted by: Clarke Drilling		Test date: 8/22/2017
Analysis performed by: Brad Vincent	Drawdown	Date: 8/22/2017
Aquifer Thickness: 97.30 ft	Discharge: variable, average rate 73.996 [U.S. gal/min]	



Calculation after Theis with Jacob Correction

Observation well	Transmissivity [U.S. gal/d-ft]	K [U.S. gal/d-ft ²]	Storage coefficient	Radial distance to PW [ft]
TW 9-17	1.77×10^4	1.82×10^2	7.59×10^{-4}	0.21

WATER RESOURCES
 RECEIVED

SEP 22 2017



Ground Water Associates
 109 W. 1st, P.O. Box 792
 Goddard, KS 67052

Pumping Test Analysis Report

Project: St George (West)

Number:

Client:

Location: NW 1/4 Sec 3 T10S R9E (West)

Pumping Test: Pumping Test 1

Pumping well: TW 9-17

Test conducted by: Clarke Drilling

Test date: 8/22/2017

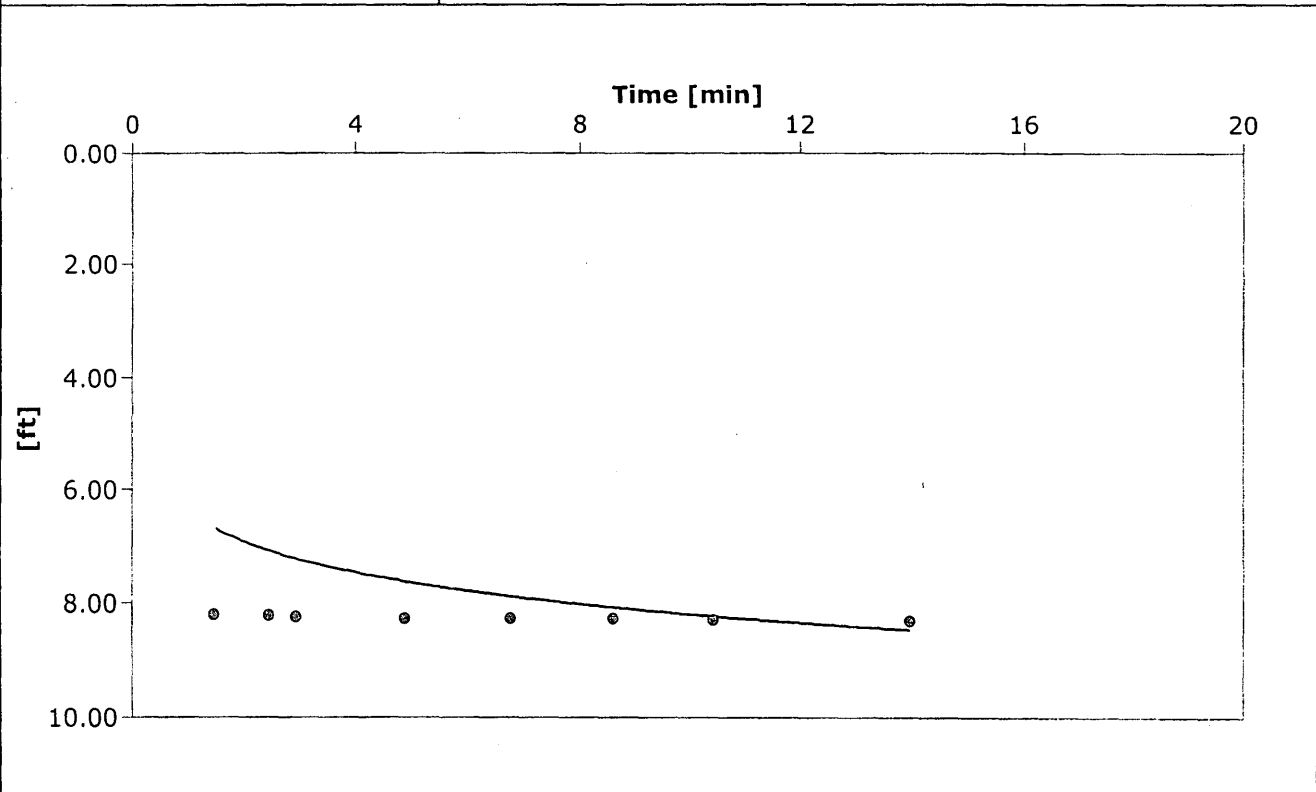
Analysis performed by: Brad Vincent

Recovery

Date: 8/24/2017

Aquifer Thickness: 97.30 ft

Discharge: variable, average rate 73.996 [U.S. gal/min]



Calculation after AGARWAL + Theis with Jacob Correction

Observation well	Transmissivity [U.S. gal/d-ft]	K [U.S. gal/d-ft ²]	Storage coefficient	Radial distance to PW [ft]
TW 9-17	1.15×10^4	1.18×10^2	1.30×10^{-2}	0.21

WATER RESOURCES
 RECEIVED

SEP 22 2017

49840



WATER RESOURCES
RECEIVED

MAY 15 2017

TRANSMITTAL

KS DEPT OF AGRICULTURE

To: Chief Engineer

Date: 5-15-17

Address: Kansas Department of Ag
Division of Water Resources
1320 Research Park Drive
Manhattan, KS 66502

Project: St George Water Appropriation
Description: Application

From: Brian J. Foster

**Transmitted
Via:**

Action: For Approval For Review For Your Use As Requested

Copies	Description
1	Application Form D-100
1	Application Fee \$200
1	Maps

Comments:

Please feel free to contact myself at 785-320-0768 or Brad Vincent at 316-550-6177 if you have any questions regarding this application


Kansas
Department of Agriculture
Division of Water Resources

Topeka Field Office
6531 SE Forbes Ave., Suite B
Topeka, Kansas 66619

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Katherine A. Tietsort, Water Commissioner

Phone: (785) 296-5733
Fax: (785) 862-2460
www.agriculture.ks.gov
Sam Brownback, Governor

September 15, 2017

CITY OF SAINT GEORGE
220 FIRST ST PO BOX 33
SAINT GEORGE KS 66535

Re: Pending Applications, File Nos. 49,858 and 49,859

Dear Sir or Madam:

The original applications referred to above were returned to you for additional information on August 17, 2017, with a required response date of October 17, 2017. The purpose of this letter is to provide a reminder that in order for you to retain your priority of filing, the original applications, and requested information, need to be returned to this office on or before **October 17, 2017**. According to the law, default in the refiling of the completed, original applications and attachments, within the time allowed, shall constitute forfeiture of priority date and dismissal of the applications.

If an extension of time is necessary to supply the requested information, please request the extension of time, in writing, before **October 17, 2017**. Provide information on why the additional time is needed and how much additional time is requested. Since there are instances when the Chief Engineer may deny your request for an extension of time, there is no guarantee that future requests for more time will be granted.

If you have any questions or comments, you may also contact me at (785) 296-3495. If you call, please reference the file number so I can help you more efficiently.

Sincerely,



Douglas W. Schemm
Environmental Scientist
Topeka Field Office

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

June 16, 2017

CITY OF ST. GEORGE
220 FIRST ST. PO BOX 33
ST GEORGE KS 66535

FILE COPY

RE: Application
File No. 49858

Dear Sir or Madam:

Your application for permit to appropriate water in 3-10S-9E in Pottawatomie 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) 564-6645. 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 "Kristen A. Baum".

Kristen A. Baum
New Applications Unit Supervisor
Water Appropriation Program

BAT: dlw
pc: TOPEKA Field Office
GMD

SCANNED

49858

GILLASPIE

AREA OF INVESTIGATION

WOODRUFF TIMOTHY C TRUST .5 INT
WOODRUFF THOMAS S .5 INT
4850 FLINT ROCK RD
WAMEGO, KS 66547
(785) 456-2657

LWN PROPERTIES
BOX 1285
MANHATTAN, KS 66505
(785) 587-0399

SHAW DONALD L &
SHIRLEY M
4125 VINEYARD RD
WAMEGO, KS 66547
(785) 456-9378

ALTWEGG DAVID E &
BARBARA C
18125 E VALLEY
WAMEGO, KS 66547
(785) 456-9992

SHULTZ JOSHUA R TRUST
4060 VINEYARD RD
WAMEGO, KS 66547
(785) 456-7718

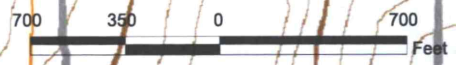
HULETT ROY D & IRMA A
4075 VINEYARD RD
WAMEGO, KS 66547
(785) 456-7821

Sec 3
T170S
R91E

WOODLAND DR

NEYARD RD

MELISSA VUE



City of St. George, KS
Area of Investigation Exhibit



Project No. 17-1083M
Engineer: B.J.F.
Drafter: LCD
Date: SEP 22 2017
June 15, 2017

WATER RESOURCES RECEIVED

JUN 15 2017

BG CONSULTANTS
ENGINEERS · ARCHITECTS · SURVEYORS

11 Aug 2017

City of St. George

Test Hole/ Test Well	Elevation	Sand (Feet)	Shale/LS (Elevation)	Water Feet	SWL (Elevation)
TH 1-17 (SE Sec 3)	1130	0' - 94'	94' (1036)	37.55'	56.45' (1073)
TH 2-17 (SE Sec 3)	1185	22 - 36	42' (1143)		
TH 3-17 (SE Sec 3)	1150	0 - 5 6 - 37 40 - 52	54 (1096)		
TH 4-17 (NE Sec3) Silty sand	1150	112 - 158 162 - 167	167 (983)		
TH 5-17 (NE Sec 3)	1130	35 - 140	140 (990)	92.2	47.90 (1082)
TH 6-17 (NW Sec 2)	1140	25 - 38	57 (1083)		
TH 7-17 (NW Sec 2)	1180	51 - 62	83 (1097)		
TW 8-17 (NE Sec 3) (TH 5-17 site)	1130	36 - 82 92 - 94 97 - 142	142 (988)	93.42	48.58 (1081)
TW 9-17 (NE Sec 3)	1200	80 - 215	215 (985)	99.00	116.00 (49858 WR) (1084)
TH 10-17 (NE Sec 3)	1153	42 - 92	92 (1061)		

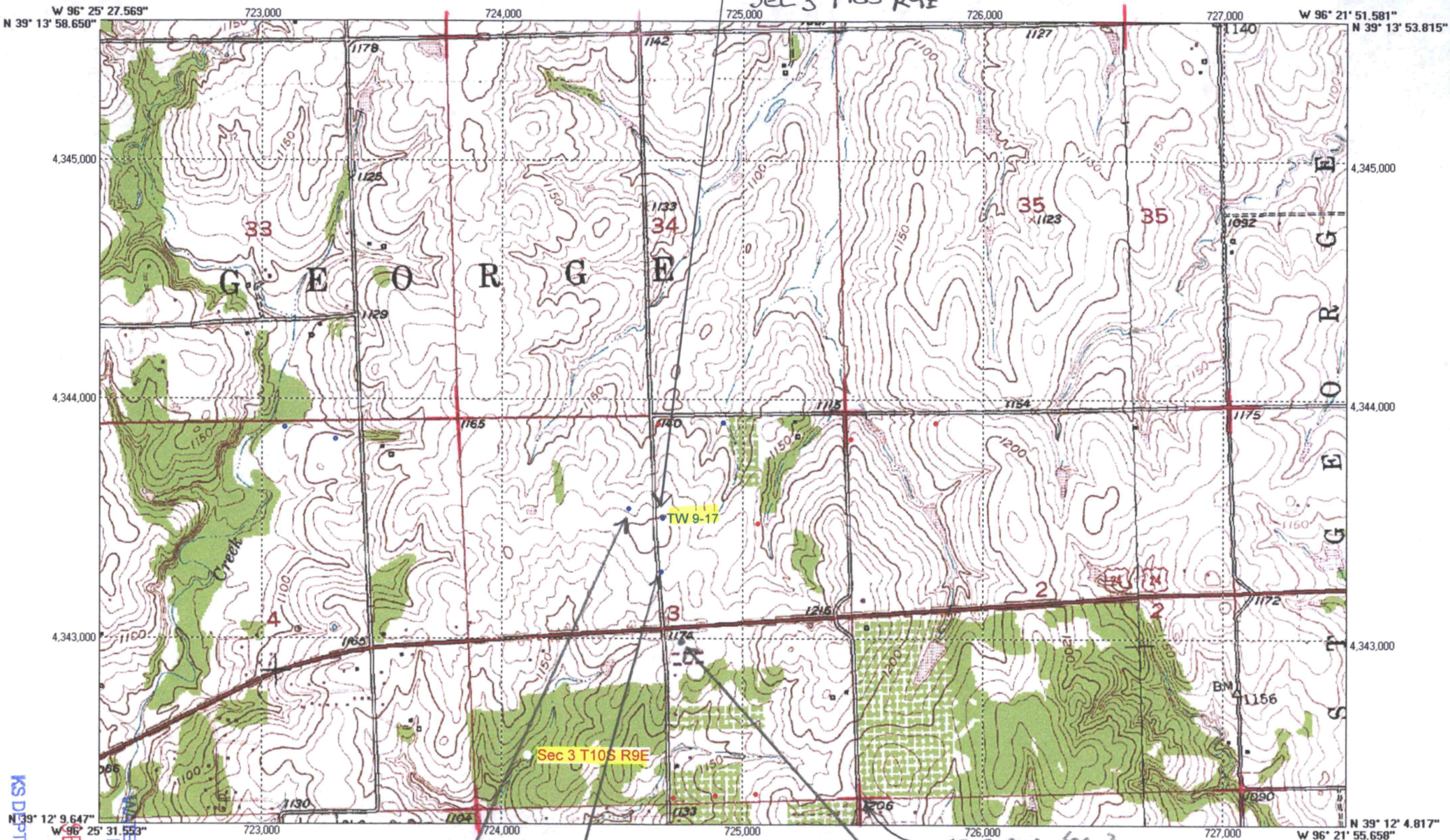
WATER RESOURCES
RECEIVED

SEP 22 2017

KS DEPT OF AGRICULTURE

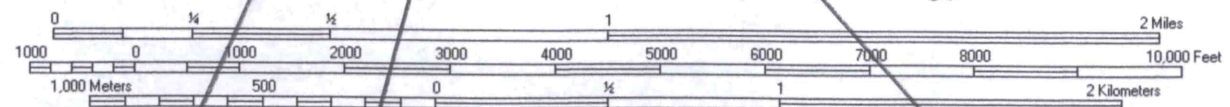
TABLE I

POINT OF DIVERSION
3955'N + 2525'W OF SE CORNER
SEC 3 T10S R9E



KSDPT
 AGRICULTURE
 RESOURCES
 REVISED
 2017

1983 North American Datum, 1000-meter UTM grid zone 14
 Generated by GeoTopo (www.geo-topo.org)
 Map compiled from USGS 0.5m maps: Sec 9, T10S R9E

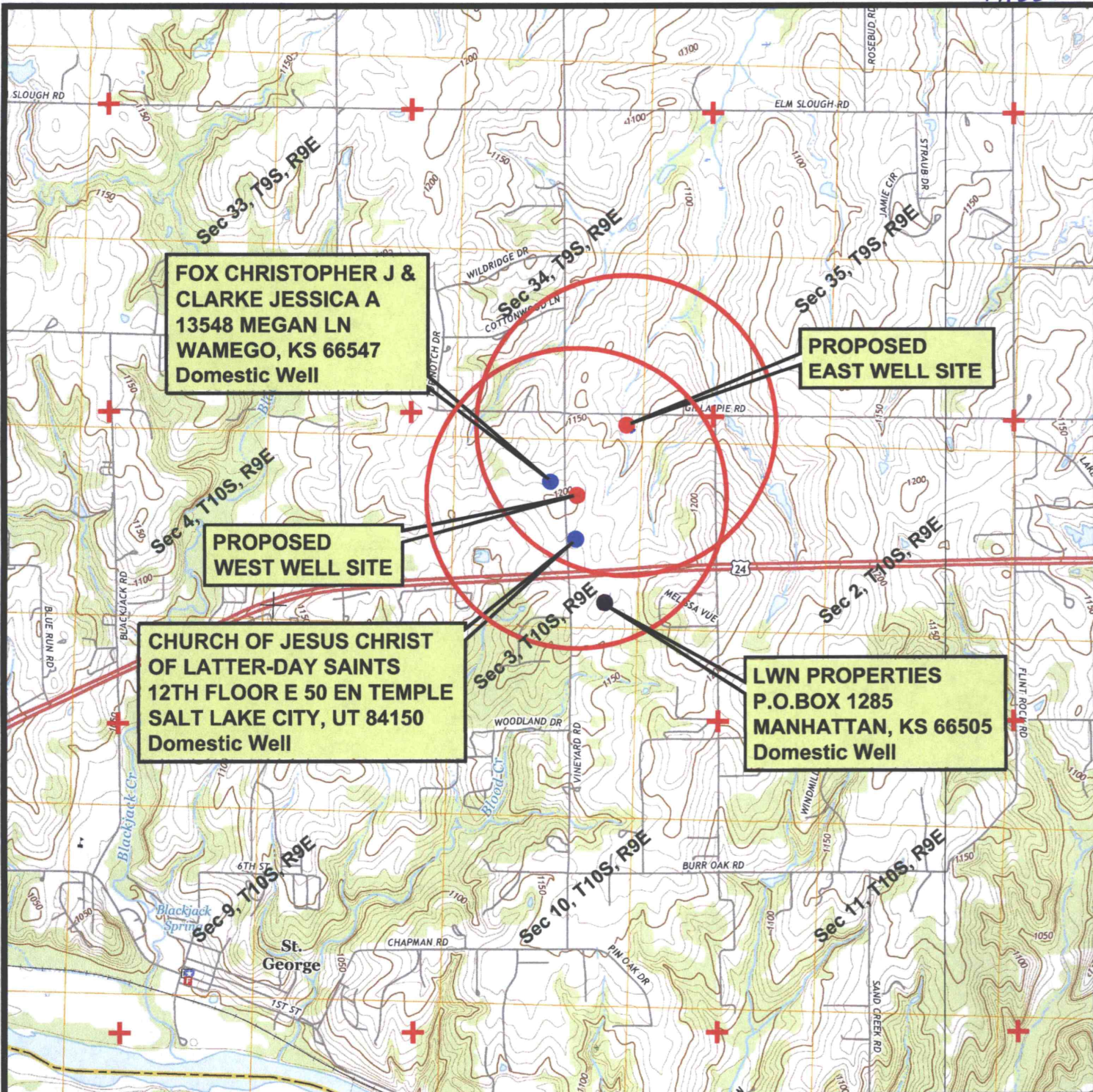


St George

DOMESTIC WELL
 CHRISTOPHER J. FOX
 JESSICA A. CLARKE
 13548 MEGAN LN
 WAMEGO, KS 66547

DOMESTIC WELL
 CHURCH OF JESUS CHRIST
 OF LATTER DAY SAINTS
 12TH FLOOR E 30 EN Temple
 SALT LAKE CITY, UT 84150

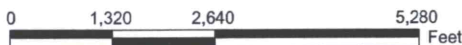
DOMESTIC WELL
 LWN PROPERTIES
 P.O. BOX 1285
 MANHATTAN KS 66505



LEGEND

- Proposed Well
- Existing Well
- + Section Corners
- 1/2 Mile Buffer

BG CONSULTANTS
ENGINEERS • ARCHITECTS • SURVEYORS



City of St. George, KS

New Application Map
Sec 3, T10S, R9E Pottawatomie County

To the best of my knowledge, all water wells including domestic within 1/2-mile of the proposed point of diversion have been shown.

Thomas J. Calmes Sep 20-17
 Signature _____ Date _____ 1:24000 scale

WATER RESOURCES RECEIVED

SEP 22 2017

KS DEPT OF AGRICULTURE