

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

1. File Number: 49,466	2. Status Change Date: 7/23/2019	3. Field Office: 02	4. GMD:
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5. Status: Approved Denied by DWR/GMD Dismiss by Request/Failure to Return

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

7a. Applicant(s) Person ID 66808
New to system Add Seq# 1

**CHENEY KANSAS SCHOOL
DISTRICT USD 268
100 WEST 6TH ST
CHENEY, KS 67025**

7c. Landowner(s) Person ID 2758
New to system Add Seq# _____

**CITY OF CHENEY
131 N MAIN ST
CHENEY, KS 67025**

7b. Landowner(s) Person ID 66808
New to system Add Seq# 1

7A

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

8. WUR Correspondent Person ID 66808
New to system Add Seq# _____
Overlap File (s) WUC Notarized WUC Form
Agree Yes No

7a

9. Use of Water: Changing? Yes No

Groundwater Surface Water

IRR REC DEW MUN

STK SED DOM CON

HYD DRG WTR PWR ART RECHRG

IND SIC: _____ OTHER: _____

10. Completion Date: 12/31/2020 11. Perfection Date: 12/31/2024 12. Exp Date: _____

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

14. Water Level Measuring Device? Yes No Date to Comply: 12/31/2020 Date WLMD Installed: _____

Date Prepared: **7/9/19** By: **BAT**
Date Entered: **7/24/2019** By: **UN**

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

TO: Files

DATE: July 16, 2019

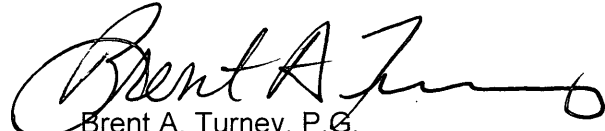
FROM: Brent A. Turney

RE: New Application,
File No. 49,466

This addendum is to Matt Meier's Memorandum to File, dated August 8, 2016.

The new Application, File No. 49,466, proposes to appropriate 21.07 acre-feet of water to irrigate 16.22 acres of ballfields within the city limits of Cheney. Notification of the application generated a large number of comments from nearby well owners and many people from the town. As a result of the concerns of the nearby well owners, a public meeting was held on September 12, 2016, to discuss the applications and the nearby wells in the area. As a result of this meeting, the decision was made to add an observation well so that observations could be made and if needed it could be used for an aquifer pump test.

Jeff Lanterman, Water Commissioner, Stafford Field Office, has no objections to approval. The application now appears to be in proper form and should be approved.



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

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

MEMORANDUM

TO: Files

DATE: August 8, 2016

FROM: Matt Meier

RE: Application, File No. 49,466

Cheney School District USD 268 has filed the referenced application to appropriate groundwater for irrigation use, requesting one (1) well, a quantity of 21.07 acre-feet, and a diversion rate of 120 gallons per minute. The proposed well is to be located in the Southwest Quarter of the Southwest Quarter of the Southeast Quarter (SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 8, Township 28 South, Range 4 West, Sedgwick County, within the drainage basin of the South Fork of the Ninnescah River. There are no other water rights overlapping the proposed point of diversion or place of use. The proposed place of use is owned by Cheney School District USD 268, the Cheney Recreation Commission, and the Melvin R Woolf Revocable Trust. The original applicant was the City of Cheney, but the Cheney School District USD 268 took over the application during processing. It should be noted that the well has already been completed and in use. The current water use is/has been covered by two different temporary applications (20150341 & 20160047).

MKEC (an Engineering firm hired by the applicant) identified 22 domestic wells within one-half mile of the proposed well and 2 non-domestic (which belonged to the City of Cheney), which WRIS verified. Nearby well notification letters were sent out on April 18, 2016. Phone calls were received from Paul Gallaway and Linda Roder to get more information on application (but not to object at that time). Terry Kohler, Russ Harrison, Darlene Weir, David Woodard, Troy Pressley, Dan Quiny, and Shelly Miller also called in to say that they were against approval of the application. Multiple additional phone calls were received from the several of the nearby well owners during the processing of the application to check on the status and reiterate that they were still against its approval. A letter (from Russ Harrison) and petition against the approval of the application signed by members of approximately 14 households (multiple of whom appeared to be outside of $\frac{1}{2}$ mile) were received. The letter listed that they were concerned the application would run their wells dry, however, no supporting evidence was received and almost all those who called in stated they hadn't had any issues with their wells. A letter was also received from Terry Kohler, as a representative of the local Farmers Coop Elevator, stating that they were concerned with the proposed wells possible impact on their remediation work. Russ England, the member of KDHE in charge of coordinating the remediation work, was contacted via phone and email to discuss the site. An email was received from Russ on May 2, 2016 stating that the KDHE did not anticipate any issues regarding the operation of the proposed well.

According to the WRIS database, the next nearest non-domestic point of diversion (File 9204 #5) is approximately 1,989 feet away. Based on the map submitted with the application the nearest domestic well is approximately 700 feet away and is owned by the Cheney Recreation Commission (one of the P.U. owners). The next closest domestic well appears to be approximately 1,000 feet away. The proposed point of diversion meets minimum well spacing to all existing wells. Per the requirements in K.A.R. 5-4-4 for all other aquifers, the minimum well spacing should be one-quarter mile to all other non-domestic wells and 660 feet to domestic wells.

A well log from the existing well was submitted with the application and the source appears to be from the Ninnescah Shale (Permian system). The well log shows top soil located at 0 to 2 feet, clay at 2 to 14 feet, medium to fine sands at 14 to 32 feet, green shale from 32 to 39 feet, blue shale from 39 to 44 feet, and red shale 44 to 100 feet below ground. Static water level was at 25 feet and the perforated portion of the well runs from 34 to 100 feet. This provides a saturated thickness of approximately 66 feet. Based on the well log, it appears that the aquifer is hydraulically confined. Per K.A.R. 5-3-14, safe yield for a confined aquifer is processed on a case by case basis using the best available information. No specific criteria have been developed for safe yield evaluation of this confined aquifer, it appears that the pending application can be reviewed using the safe yield criteria in K.A.R. 5-3-11 as a guideline, which is consistent with other applications in similar sources of supply.

To maintain consistency with senior files in the area, the area of consideration is the extent of the bedrock aquifer in the two-mile circle, which was determined to be the entire 8,042 acres. Based on a potential recharge of 2.16 inches, with 75% available for appropriation, safe yield was determined to be 1,085.67 acre-feet. Existing water rights have appropriated 755.15 acre-feet, providing a difference of 330.52 acre-feet available for appropriation, and the application requesting 21.07 acre-feet complies with safe yield. Note, that using the value of 75% of the safe yield available instead of 100% is a more conservative approach and provides for the possibility that this aquifer could contribute to baseflow in a stream.

Please note, that this safe yield value per K.A.R. 5-3-11 provides the **maximum allowable recharge** (2.16 inches) for the area of consideration, since a deeper confined aquifer would receive only a portion of the recharge that a shallow, unconfined aquifer would receive. If there is a significant quantity of water still remaining as determined by K.A.R. 5-3-11, then even with a considerable reduction in the amount of recharge reaching the confined aquifer there would still be sufficient water available. For this application the maximum recharge could be reduced to less than 0.05 inches of recharge (2.31% of the maximum) and there would still be sufficient water available. Additionally, it appears that a sizable portion of the appropriated safe yield (approximately 459.05 acre-feet) is allocated to wells owned by the City of Cheney, the majority of which seem to be no longer in active use based on reported water use. This should further reduce any strain on the local aquifer and limit the chance of the application impacting the water table. Finally, it should also be noted that well be has been used since September 2015 and no complaints had been received until nearby notification letters were sent out.

Long term recorded water level measurements were not available near the proposed point of diversion. In an attempt to obtain information on the status of the water table in the area, information (in the form of static water levels from domestic wells in the area) was collected from the Kansas Geological Survey Website. A review of the information showed average static water level depths, over an area approximately 1 mile in diameter from the proposed well, varying from 13 to 30 feet. These wells were drilled from approximately 1987 to 2015. Some of the most recently drilled wells showed a shallower static water levels than the older wells and vice versa. Based on this very general information, there did not appear to be any significant discernable trends showing a long term lowering of water levels in the area.

The requested quantity of water, 21.07 acre-feet, is reasonable to irrigate the proposed 16.22 acres identified in the application. This is the maximum allowable of 1.3 acre-feet per acre for Sedgwick County, Kansas. There are multiple pending applications in this general area of the state, and they are being worked in priority order to ensure that senior applications are provided the available water.

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. A water level measurement tube is required because this is a proposed new well exceeding 100 gpm.

The proposed application is subject to minimum desirable streamflow requirements. The applicant signed, notarized, and returned the required form to our office.

Jeff Lanterman, Water Commissioner, Stafford Field Office, recommended approval of the referenced application on August 3, 2016. Based on the above discussion, well spacing and safe yield criteria are met, 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.

Matthew J. Meier
Environmental Scientist
Water Appropriations Program

1320 Research Park Drive
Manhattan, KS 66502
785-564-6700
www. agriculture.ks.gov



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

Mike Beam, Secretary

Laura Kelly, Governor

July 29, 2019

CHENEY KANSAS SCHOOL
DISTRICT USD 268
ATTN DAVID GROVER
100 WEST 6TH ST
CHENEY, KS 67025

FILE COPY

RE: Appropriation of Water
File No. 49,466

Dear Mr. Grover:

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 this permit. A water meter is required 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.

All wells with a diversion rate of 100 gallons per minute or more shall have a tube or other device installed in a manner acceptable to, and in accordance with specifications adopted by, the Chief Engineer. If a water level measurement tube has not been properly installed on the diversion works, then a separate observation well within 25 feet of the production well must be installed.

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.

CHENEY KANSAS SCHOOL
DISTRICT USD 268
Page No. 2

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,

A handwritten signature in black ink, appearing to read "Brent A. Turney". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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

Enclosures
pc: Stafford Field Office

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Mike Beam, 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. 49,466 of the applicant

Cheney Kansas School District USD 268
100 W. 6th St
Cheney, KS 67025

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 **September 21, 2015**.
2. That the water sought to be appropriated shall be used for irrigation use on land described in the application, as follows:

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼				
8	28S	4W											2.45				9.92		0.58	3.27		16.22

3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of one (1) well, which is to located in the Southwest Quarter of the Southwest Quarter of the Southeast Quarter (SW¼SW¼SE¼) of Section 8, more particularly described as being near a point 469 feet North and 2,503 feet West of the Southeast corner of said section, in Township 28 South, Range 4 West, Sedgwick County, 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 **120 gallons per minute (0.267 c.f.s.)** and to a quantity not to exceed **21.07 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, 2020** 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, 2024**, 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 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 all wells with a diversion rate of 100 gallons per minute or more drilled under the authority of this permit shall have a tube or other device installed in a manner acceptable to, and in accordance with specifications adopted by, the Chief Engineer. If a water level measurement tube has not been properly installed on the diversion works, then a separate observation well within 25 feet of the production well must be installed. This tube or device shall be suitable for making water level measurements and shall be maintained in a condition satisfactory to the Chief Engineer.

14. 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.

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

16. 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.

17. 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.

18. That the water right owner shall install and maintain a groundwater monitoring well at a location specified and approved by the Chief Engineer. Such observation well shall be installed and equipped to allow monitoring of water levels. Installation of the groundwater monitoring well and the associated equipment shall be at the expense of the water right owner. That the groundwater monitoring well shall be located at a distance of 100 feet of the following point:

one (1) well, which is to be located in the Southwest Quarter of the Southwest Quarter of the Southeast Quarter (SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 8, more particularly described as being near a point 150 feet North and 2,600 feet West of the Southeast corner of said section, in Township 28 South, Range 4 West, Sedgwick County, Kansas,

located substantially as shown on the aerial photograph accompanying the application to change the point of diversion.

19. That in addition to the specifications and conditions adopted by the Chief Engineer and set forth in K.A.R. 5-6-13 Section IV for the construction of observation wells; the observation well shall be constructed with PVC SCHED-40 casing having a minimum nominal diameter of 2 inches, that is protected by a steel 6 X 6 inch square well protector that is of 5 feet minimum length and has a lockable lid. The monitoring well and square well protector shall be seated in a standard concrete well pad. The top of the 2 inch observation well shall be approximately 9 inches below the top of the square well protector.

20. That the monitoring well shall be constructed and developed to ensure that it is hydraulically connected to the same aquifer as the well authorized by this water right and the well must be advanced to the bedrock surface. The observation well required herein shall be maintained, by the water right owner, in a condition that is satisfactory to the Chief Engineer.

RIGHT TO A HEARING AND TO ADMINISTRATIVE REVIEW

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

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

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

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

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

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

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

Dated at Manhattan, Kansas, this 23rd day of July, 2019.

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

State of Kansas)
) SS
County of Riley)

The foregoing instrument was acknowledged before me this 23rd day of July, 2019, by Lane P. Letourneau, P.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.



Danielle Wilson
Notary Public

CERTIFICATE OF SERVICE

On this 29th day of July, 2019, I hereby certify that the foregoing Approval of Application and Permit to Proceed, File No. 49,466, dated July 23rd, 2019 was mailed postage prepaid, first class, US mail to the following:

CHENEY KANSAS SCHOOL
ATTN DAVID GROVER
DISTRICT USD 268
100 WEST 6TH ST
CHENEY, KS 67025

With photocopies to:

CHENEY RECREATION COMMISSION
100 W. 6TH AVE.
CHENEY, KS 67025

Stafford Field Office

Danielle Wilson
Division of Water Resources

THE STATE OF KANSAS



8-30-17
APPLICATION COMPLETE
10/1/15
Reviewer MJM

KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number 49466
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.)

SEP 21 2015

12:45

KS DEPT OF AGRICULTURE

* MJM/SFFO applicant changed
to school during processing of
application.

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

1. Name of Applicant (Please Print): City of Cheney, Kansas (Randall Oliver, City Administrator) Cheney Kansas School District WSP 268
Address: 131 N. Main 100 W 6th St
City: Cheney State Kansas Zip Code 67025
Telephone Number: (316) 542-3622

2. The source of water is: surface water in _____ (stream)
OR groundwater in Lower Arkansas SF NINNESCAH RIVER * LI/DOWN (drainage basin) 9/21/15

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 21.07 acre-feet OR 6,866,667 gallons per calendar year, to be diverted at a maximum rate of 120 gallons per minute OR 0.27 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. 2 GMD 0 Meets K.A.R. 5-3-1 (YES/NO) Use IRR Source G S County KM By LI Date 9/21/15
Code REG Fee \$ 200 TR # 16008900 Receipt Date 9/21/15 Check # 035753

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 SW quarter of the SE quarter of the _____ quarter of Section 8, more particularly described as being near a point 469 feet North and 2503 feet West of the Southeast corner of said section, in Township 28 South, Range 4 East West (circle one), Sedgwick 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):

~~Melvin R. Woolf-Revocable Trust-20159 Valhalla Sq., Asburn, VA 20147~~

(name, address and telephone number)

Cheney Kansas School District USD 268 100 west 6th St Cheney, KS 67025.

(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 September 14, 2015.

Rubell Oliver

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

and (was)(will be) completed (by) October 1, 2015 _____ (Month/Day/Year - each was or will be completed)

8. The first actual application of water for the proposed beneficial use was or is estimated to be October 1, 2015 _____ (Mo/Day/Year)

WATER RESOURCES RECEIVED

SEP 21 2015

KS DEPT OF AGRICULTURE

* online parcel data list well actually located * on ground owned by USD 268.

- 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:

- (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 ½ 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 ½ mile, please advise us.
- (c) If the application is for surface water, the names and addresses of the landowner(s) ½ mile downstream and ½ 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.

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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	_____	_____	_____	_____
Total depth of well	_____	_____	_____	_____
Depth to water bearing formation	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____
Depth to bottom of pump intake pipe	_____	_____	_____	_____

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

Government Entities/Sports Fields

(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):

Cheney Recreation Commission, 100 W. 6th Ave., Cheney, KS 67025

(name, address and telephone number)

Melvin R. Woolf Revocable Trust 20159 Valhalla Sq., Ashburn, VA 20147

(name, address and telephone number)

*MJM/SEFO
Partial owner P.U.
Based on S.G.
County online
IP ArcGIS data.*

* Cheney KS school district USD 268 100 W 6th St Cheney, KS 67025

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 Cheney, Kansas, this _____ day of September, 2015
(month) (year)

Randall Oliver

(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by _____ Date: _____
(office/title)

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IRRIGATION USE SUPPLEMENTAL SHEET

File No. _____

Name of Applicant (Please Print): City of Cheney, Randall Oliver, City Administrator

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

Landowner of Record NAME: Cheney Recreation Commission/Melvin R. Woolf Revocable Trust

ADDRESS: City of Cheney, 131 N. Main, Cheney, Kansas 67025

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
8	28S	4W											2.45			9.92		0.58	3.27	16.22

Landowner of Record NAME: _____

ADDRESS: _____

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

Landowner of Record NAME: _____

ADDRESS: _____

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

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

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

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
Nalim Loam	100	0.2-0.6	
Total:	100 %		

b. Estimate the average land slope in the field(s): <1.0 %

Estimate the maximum land slope in the field(s): <1.0 %

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

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

Other, please describe: A sprinkler system for sports fields

d. System design features:

i. Describe how you will control tailwater:

This is a designed system therefore there will be no tailwater.

ii. For sprinkler systems:

- Estimate the operating pressure at the distribution system: 110 psi
- What is the sprinkler package design rate? 120 gpm
- What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? 134 feet
- Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

Grass.

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

Will irrigate when rainfall is not adequate to maintain grass.

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

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Well Number	CONTROLT	Owner	Address	City	State	Zip
1	282647	DEVORE STACY BOLINGER	2377 SE 170TH AVE	CHENEY	KS	67025-8567
2	282645	HARRISON RUSSELL W & JACQUELYN L REV TR	38727 W 39TH ST. S.	CHENEY	KS	67025-8899
3	282643	KOHLER TERRY & SUSAN L	PO BOX 43	CHENEY	KS	67025-0043
4	527576	ROEDER LINDA K ETAL	38407 W 39TH ST S	CHENEY	KS	67025-8793
5	282637	GROVER PHYLLIS J ETAL	4427 E EAGLES LANDING CT	WICHITA	KS	67220-5518
6	30001204	DITGEN BRANDT & SHAWNAE	4033 S 375TH ST W	CHENEY	KS	67025-8987
7	30001204	DITGEN BRANDT & SHAWNAE	4033 S 375TH ST W	CHENEY	KS	67025-8987
8	30003009	DUVALL JANE A & DONALD E	6508 NW VALLEY VIEW ST	KANSAS CITY	MO	64152-3051
9	282887	NICKLAUS GARY ETAL	195 BEARDSLY CR DR	BLUE EYE	MO	65611-7202
10	443856	CHENEY RECREATION COMMISSION	100 W 6TH AVE	CHENEY	KS	67025-8997
11	493644	GALLOWAY NORMAN P & LARAE	429 S MAIN ST	CHENEY	KS	67025-8979
12	282900	FOOS MUSCLE CARS LLC	3000 S 231ST ST W	GODDARD	KS	67052-9219
13	282874	WEIR DARLENE CATHERINE REV TR	1408 E GUMLOG RD	RUSSELLVILLE	AR	72802-8239
14	282899	SEDG COUNTY FAIR ASSN	BOX 460	CHENEY	KS	67025-0460
15	282899	SEDG COUNTY FAIR ASSN	BOX 460	CHENEY	KS	67025-0460
16	282878	CHENEY CITY OF	P.O.BOX I	CHENEY	KS	67025-0997
17	283353	HOPPER MARTIN A & TAMA E	219 S MARSHALL	CHENEY	KS	67025-8661
18	282880	LEHNER ROBERT L & JOYCE E REV TR	604 LEIGHTY DR	CHENEY	KS	67025-8940
19	282880	LEHNER ROBERT L & JOYCE E REV TR	604 LEIGHTY DR	CHENEY	KS	67025-8940
20	283046	CHENEY COOP ELEV ASSOC	PO BOX 340	CHENEY	KS	67025-0340
21	282875	SEDG COUNTY ELEC COOP ASSOC INC	PO BOX 220	CHENEY	KS	67025-0220
22	283954	YOUNG ALLEN Q & JEFF L	644 SE 140TH AVE	CHENEY	KS	67025-8420
23	283953	CHENEY COOPERATIVE ELEVATOR ASSOC	BOX 340	CHENEY	KS	67025-0340

LETTER OF TRANSMITTAL



DATE: September 18, 2015
 PROJECT: USD 268 Cheney Design
 SUBJECT: 1402010757

TO: Kansas Dept of Agriculture
 Division of Water Resources
 1320 Research Park Drive
 Manhattan, KS 66502

We are sending you the items below:
 (Check Boxes)

- Attached
- Under Separate Cover
- Via Fed Ex

COPY TO:

ITEMS TRANSMITTED:

Date	Code	Doc #	Qty.	Description of Items	Dwgs	Specs	CD	Petition	Legal Desc.	Prints	Corresp.	Submittals	Other
9-18-15	1		1	Application for Permit to Appropriate Water									✓
				w/ supporting documents/maps									
			1	Check for \$200.00 - Application Fee									✓

ACTION CODES:

- 1. For Your Approval
- 2. For Your Use
- 3. Approved As Noted
- 4. As Requested
- 5. For Your Files
- 6. For Review
- 7. No Action Required
- 8. See Remarks

Should you have any questions or additional comments, please contact the undersigned.

Gene Rath
 Gene Rath, P.E. *by [signature]* WATER RESOURCES RECEIVED

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FEE SCHEDULE

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic use, shall be (see paragraph No. 2 below if requesting storage):

ACRE-FEET	FEE
0-100	\$200.00
101-320	\$300.00
More than 320	\$300.00 plus \$20.00 for each additional 100 acre-feet or any part thereof.

2. The fee for an application in which storage is requested, except for domestic use, shall be:

ACRE-FEET	FEE
0-250	\$200.00
More than 250	\$200.00 plus \$20.00 for each additional 250 acre-feet of storage or any part thereof.

Note: If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for a permit to appropriate water for water power or dewatering purposes shall be \$100.00 plus \$200.00 for each 100 cubic feet per second, or part thereof, of the diversion rate requested.

Note: The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works for diversion has been completed, except that for applications filed on or after July 1, 2009, for works constructed for sediment control use and for evaporation from a groundwater pit for industrial use shall be accompanied by a field inspection fee of \$200.00.

MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE

ATTENTION

A Water Conservation Plan may be required per K.S.A. 82a-733. A statement that your application for permit to appropriate water may be subject to the minimum desirable streamflow requirements per K.S.A. 82a-703a, b, and c may also be required from you. After the Division of Water Resources has had the opportunity to review your application, you will be notified whether or not you will need to submit a Water Conservation Plan. You also may be required to install a water flow meter or water stage measuring device on your diversion works prior to diverting water. There may be other special conditions or Groundwater Management District regulations that you will need to comply with if this application is approved.

CONVERSION FACTORS

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet

**WATER RESOURCES
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SEP 21 2015

KS DEPT OF AGRICULTURE

Turney, Brent

From: David Grover <dgrover@usd268.org>
Sent: Wednesday, August 30, 2017 2:26 PM
To: Turney, Brent
Subject: monitoring well
Attachments: 20170830135542283.pdf

Brent, attached is a mark (star) for the well that was started today. The existing well is yellow. We do not have the exact longitude/latitude.

I have also attached the permit that we were charged for by the city to do the well.

Statement of Confidentiality

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Turney, Brent

From: Conant, Cameron
Sent: Wednesday, August 30, 2017 2:18 PM
To: Baum, Kristen; Turney, Brent; Lanterman, Jeff; Meier, Matt
Subject: RE: 49466 (City of Cheney)

Well. I spoke to Russ again and quite frankly my conversations with him are not going in a positive direction. I told him they were drilling the OBS well that we required which is beneficial to him and any other nearby wells who had past concerns.

I asked if the driller had stopped drilling and he said yes. He said he talked to them in person but they certainly didn't shut down because of him. I told him they shut down for someone and they didn't really need to shut down. I told him they are required by us to drill an OBS well south of the production well...the exact location had not been pinned down yet.

Russ distanced himself from the driller shutting down. Russ wondered if Terry Koehler had contacted them to shut down.

Jeff, Russ wants you to call him. I told him that he likely misunderstood something said at the meeting, "there will never ever be a well drilled in this area again". I told Russ that is crazy and we didn't say that. He said I wasn't at the meeting so I wouldn't know. I told him we wouldn't say that. I told him they can drill test holes to their hearts content and never notify us or nearby people. I also told him they can file a change with us and re-drill the well a short distance away and we would approve that and never notify nearby wells. He said I wasn't at the meeting and he wants to talk to someone who was. Oh my. His number is (316) 772-6331

I again explained this was an OBS well that is intended to ultimately protect his interests.

Cameron

From: Conant, Cameron
Sent: Wednesday, August 30, 2017 12:46 PM
To: Baum, Kristen <Kristen.Baum@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>; Lanterman, Jeff <Jeff.Lanterman@ks.gov>; Meier, Matt <Matt.Meier@ks.gov>
Subject: 49466 (City of Cheney)

Has this been approved? If I recall correctly the well was drilled before the app was filed. So the actual irrigation well for ballfields is in existence right now.

Russ Harrison called the office b/c someone is drilling another well out there. He was told at the public meeting (Matt, Jeff, Brent attended) that another well would never ever be drilled here and if anything was going to happen all the nearby well owners would be notified. He said Matt Meier lied to them at the meeting b/c another well was being drilled. He said the drillers didn't have hard hats on and were close to the road and the power line and they needed to be shut down. He said they didn't have permits (he was onsite and asked to see their permit for drilling this well). The driller told Russ it was a "test" well. This "test" well is located about 100 yards south of the existing new application well. I told Russ they don't need permits if it is a test well, we don't govern test drilling. He was mad as a hornet cause he was lied to at the meeting about a well never ever being drilled in this area again.

Last I see in the file is a letter from Brent about an OBS well. Would you guess they are drilling the OBS well right now? Have we had any recent contact with them? When will the new app be approved?

I will call Russ back if I can confirm (from you guys or the city) that they are drilling what appears to be the required OBS well.

Cameron R. Conant

Assistant Water Commissioner
Kansas Department of Agriculture-DWR
Stafford Field Office
(620) 234-5311

Turney, Brent

From: Turney, Brent
Sent: Wednesday, August 30, 2017 2:29 PM
To: 'David Grover'; Marty Hopper
Cc: Lanterman, Jeff; Conant, Cameron; Meier, Matt; Baum, Kristen
Subject: RE: monitoring well

David,

This is a follow up to our telephone conversation regarding your email below. I have been in contact with our Field Office in Stafford about the well driller. No one from their office or headquarters contacted Chase Drilling to cease drilling of the observation well. That doesn't mean that the driller did not receive a phone call from the Kansas Department of Health and Environment.

No rule or regulation from Kansas Department of Agriculture would stop you from drilling an observation well. I am sorry for any misunderstanding that we may have caused you about this matter. If you can get me the location of the observation well we can proceed with permitting the proposed irrigation well. Once the permit is issued, any appeal of that permit will be handled by our legal section. The parties that appeal must be able to show that our review of the application is incorrect and that the approval of your application will impair their existing water right.

I will look forward to hearing from you regarding the location of the observation well. Please don't hesitate to contact me or Jeff Lanterman, Water Commissioner, Stafford Field Office, (620) 234-5311. If you have any questions or concerns.
Brent

Brent A. Turney, P.G.
Kansas Department of Agriculture
Division of Water Resources
1320 Research Park Drive
Manhattan Kansas 66502
(785) 564-6645
Brent.Turney@ks.gov
www.agriculture.ks.gov

From: David Grover [mailto:dgrover@usd268.org]
Sent: Wednesday, August 30, 2017 12:42 PM
To: Turney, Brent <Brent.Turney@ks.gov>; Marty Hopper <mhopper@usd268.org>
Subject: Re: monitoring well

Brent,

I am sure you have heard by now, we had the driller out first thing this morning and a few of the same crowd showed up now protesting that we were drilling for a monitoring well (at their request). Someone from the state called Chase Drilling and told them to shut down for further review. Now they are off-site again when it took us almost a year to get them out here.

This is a colossal waste of taxpayer dollars.

On Fri, Aug 11, 2017 at 11:42 AM, David Grover <dgrover@usd268.org> wrote:

Brent,

Marty Hopper had a driller on site yesterday and they want to do a survey next week before they drill and then we will send you the spot on the photo.

Thanks for your patience with us.

David Grover
Superintendent of Schools
USD 268 Cheney

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



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

Jackie McClaskey, Secretary

Governor Sam Brownback

December 13, 2016

USD 268 CHENEY
C/O DAVID GROVER
100 W 6TH STREET
CHENEY KS 67025

FILE COPY

RE: Application,
File No. 49,466

Dear Mr. Grover:

Reference is made to the application for approval of the Chief Engineer to change the point of diversion under the referenced file number which was received in this office on September 21, 2015.

Because of the unusually high number of complaints from nearby domestic water right owners, the Chief Engineer is requesting that a groundwater observation well be installed between your well and the domestic wells located south of 39th Street. It is recommended that the groundwater observation well be located near the south of the property along 39th Street near the intersection of 383rd Street. Because there will be further development of this property, we would prefer that you identify the exact location. I have enclosed a copy of an aerial photograph to assist you. You should also provide the feet distances North and West from the southeast corner of Section 8.

The observation well and the equipment required to maintain the well shall be at your expense. Following are the additional draft approval requirements described as follows:

That the water right owner shall install and maintain a groundwater observation well at a location specified and approved by the Chief Engineer. Such observation well shall be installed and equipped to allow monitoring of water levels. Installation of the groundwater monitoring well and the associated equipment shall be at the expense of the water right owner.

That in addition to the specifications and conditions adopted by the Chief Engineer and set forth in K.A.R. 5-6-13 Section IV for the construction of observation wells; the observation well shall be constructed with PVC SCHED-40 casing having a minimum nominal diameter of 2 inches, that is protected by a steel 6 X 6 inch square well protector that is of 5 feet minimum length and has a lockable lid. The monitoring well and square well protector shall be seated in a standard concrete well pad. The top of the 2 inch observation well shall be approximately 9 inches below the top of the square well protector.

That the observation well shall be constructed and developed to ensure that it is hydraulically connected to the same aquifer as the well authorized by this water right and the well must be advanced to the bedrock surface. The observation well required herein shall be maintained, by the water right owner, in a condition that is satisfactory to the Chief Engineer.

SCANNED

USD 268 Cheney
File No. 49,466
December 13, 2016
Page No. 2

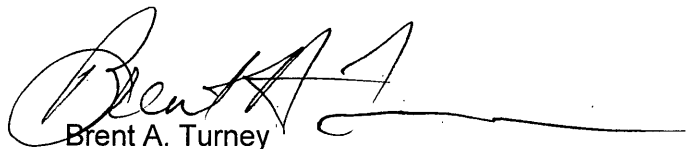
That the water right owner shall provide access by the chief engineer, or an authorized representative of the chief engineer, to the observation well for the collection of information regarding aquifer conditions.

Please provide the desired well location as well as written comments regarding any modifications you wish to suggest to these above referenced conditions. If you find these permit conditions to be acceptable, please inform us so that we may continue with processing your application.

Please return the aerial photograph identifying the location of the proposed observation well to this office at your earliest convenience.

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 to that we may help you more efficiently.

Sincerely,

A handwritten signature in black ink, appearing to read "Brent A. Turney", with a long horizontal flourish extending to the right.

Brent A. Turney
Change Application Unit Supervisor
Water Appropriation Program

BAT
Enclosures
pc: Stafford Field Office

Turney, Brent

To: Terry Kohler; Lanterman, Jeff
Cc: terresco@yahoo.com; 'Eric Steinle'
Subject: RE: hearing request

Terry,

After referring your request for hearing to our attorneys, Wendee Grady, Chief Legal Counsel, stated that the law does not allow any party, other than the applicant, to request a hearing on an application prior to issuance of an order. You may, however, request Secretary review following the issuance of the order. (See KAR 5-14-3(c) that allows 82a-1901 Secretary review for any person who has a property interest that could be adversely affected by an action.) All of the regulation language regarding hearing requests, before and after the issuance of an order, relate to the person to whom the order is issued. Based upon this finding, you may not request a hearing prior to approval of the application, we will however, notify you once Application, File No. 49,466 is approved.

Since you have advised us that you have contacted your attorney regarding this action, Ms. Grady recommends that any contact from this point on be made from your attorney to directly to her. She may be reached at (785) 564-6717 or at Wendee.grady@ks.gov.

Thank you,
Brent Turney

Brent A. Turney, P.G.
Kansas Department of Agriculture
Division of Water Resources
1320 Research Park Drive
Manhattan Kansas 66502
(785) 564-6645
Brent.Turney@ks.gov
www.agriculture.ks.gov

From: Terry Kohler [mailto:terrykohler@gardenplaincoop.com]
Sent: Tuesday, September 20, 2016 6:12 AM
To: Turney, Brent <Brent.Turney@ks.gov>; Lanterman, Jeff <Jeff.Lanterman@ks.gov>
Cc: terresco@yahoo.com; 'Eric Steinle' <Eric.Steinle@martindell.com>
Subject: hearing request

Brent,

The Farmers Coop would request a hearing with the Chief Engineer prior to the water well permit being approved. If we need this in written form please inform us.

We will also contact KDHE this morning if the person we need to visit with is in. On that note, who is your contact person that you have visited with at KDHE?

We have copied in our consultants, Ned and our attorney Eric Steinle.

Respectfully Yours,
Terry Kohler

Water information Meeting

8-17-16 @ 6:00p.m. At the CoMark Meeting room

- I. Opening comments- Terry.
- II. City of Cheney- Randy Oliver- City Administrator.
Brent Peintner- Recreation Commission Director.
Permit process, current and future needs.
- III. USD 268 Superintendent – David Grover.
Permit process, current and future needs.
- IV. KDA of Water Resources- Jeff Lanterman- Water Commissioner-
Stafford Field Office.
- V. KDA Water Appropriation – Brent Turney, P.G.- Permit and Unit
Supervisor- Manhattan.
- VI. Remediation Project- Farmers Coop – Don A. Breit, P.G., Allied
Environmental consultants- Project Manager- Wichita.
- VII. Independent consultant – Edward “Ned” T. Marks. PG, Terrane
Resources Co.- Stafford. Remediation project advisor.
- VIII. Comments and Discussion.

Terrane Resources Co.

P.O. Box 173 Stafford, KS 67578 620-234-5200

KANSAS GROUND WATER: STRAIGHT UP FROM THE ROCKS!

Comments and Data Presented re: Application #49,466

Report of Progress 17 October, 2008. MW-18 Aquifer Pumping Test,
Cheney Ground Water Site.

This report outline and documents the results of an aquifer test performed on MW-18. The data shows the impact of a small production well installed to abate contamination.

The data shows MW-18 impacts the site and reaches to and affects MW-08 which is 600 feet away. MW-18 was pumped at 22.5 gpm for 270 minutes.

The wells are completed in the bedrock and are subject to fracture flow/secondary porosity features in the aquifer.

The Site has historically been impacted by the City of Cheney's PWS #6, which resulted in PWS #6 being taken out of service due to Carbon-Tetrachloride(CCL4) contamination. This well is approximately 1950 feet East Southeast of the site.

It is important to understand the impact of taking PWS out of service. Once this well stopped pumping it only took a few years for the CCL4 plume to concentrate on the west end of the Coop site. It appears, based on the data, unless impacted by pumping the regional ground water flow is limited.

We did not include the water quality lab reports. We can submit them if need be.

Figure #3 is a graphic that was not included in the original report but does show the impact of the pumping well (MW-18)

Figure #2 from the AEC report of Sept. 16, 2015 has been modified to show the distances from MW-08 to MW-18 and PWS #6. Additionally the regional ground water flow is how for this sampling interval.

Figure #4 from the same AEC report show the CCL4 plum near the west end of the Coop property. The trend line of the plume is more towards the SE than the ESE regional ground water flow trends.

This may be a result of fracture flow following a path of least resistance or possibly facies/texture change within the aquifer.

The Google Map figure shows the locations of the wells PWS #6, MW-18 and File #49,466. These wells are shown in relationship to MW-08.

Water Well Record for the well installed for File #49,466. This well has been identified as withdrawing water from the Ninnescah Shale Fm. Based on the actual well design and construction listed on the form as modified by TRC this well will withdraw water from two different aquifers. KDHE rules and regs require these two separate aquifers be isolated from each other by installing grout a minimum of 5 feet into the shale.

From: KDHE Article 30:

28-30-6. Construction regulations for all water wells not included under K.A.R. 28-30-5.

(a) Each water well shall be constructed to minimize the potential for contamination of the delivered or obtained groundwater and to protect groundwater aquifers from pollution and contamination.

(b) The following requirements for grouting shall be met:

- (1) Each constructed water well and each reconstructed water well shall be sealed by grouting the annulus between the casing and the boring from ground level to at least 20 feet or to at least five feet into the first clay or shale layer if one is present, whichever is greater. If a pitless well adapter or unit is being installed, the grouting shall start below the point at which the pitless well adapter or unit attaches to the casing and shall continue at least 20 feet below this point or to at least five feet into the first clay or shale layer, whichever is greater.
- (3) Water from two or more separate aquifers shall be separated from each other in the boring by sealing the annulus between the aquifers with grout.

Until observation wells are installed to monitor the two different aquifers separately the impacts on the two aquifers will not be known.

Major concerns with respects to this well:

The potential impairment issues will be quantity and/or quality

Will this well impact the aquifer at the Coop site? We do not expect large scale de-watering at the Coop site.

Will it impact the plume at the site?

Will it impact/impair existing domestic wells by changing the water quality?

Since the well for File #49,466 hydraulically communicates the upper aquifer with the lower aquifer it is possible there will be nitrate contamination of this well. Assuming it is not already over the limits. Has this well been tested?

Is this well allowing shallow aquifer water to drain down hole?

Is it allowing deep aquifer waters to migrate up hole?

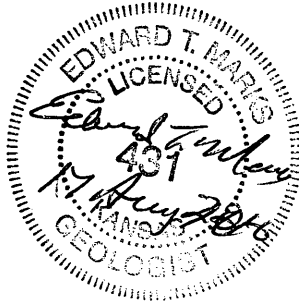
Is the bulk of the water produced from the upper aquifer?

Does the bore hole pathway allow the upper aquifer to be drained?

Are there plans to minimize contamination with a nutrient management plan?

The construction of the new well adds a complete new set of variables to the questions

Respectfully Submitted,
Edward T. Marks
Edward "Ned" T. Marks, LG
Terrane Resources Co.





Servi-Tech Laboratories
1816 East Wyatt Earp
Dodge City, Kansas 67801

Report of Progress:

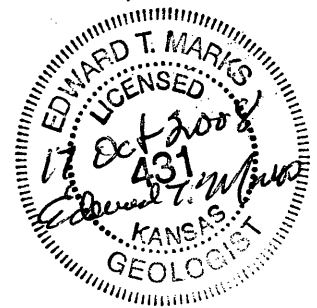


**MW-18 Aquifer Pumping Test,
Cheney Ground Water Site**

**VCPRP Contract #98VCP0017
KDHE Project Code #C2-087-70068**

**Submitted on behalf of: Farmers Cooperative Elevator Co.,
Garden Plain, Kansas**

**Prepared by: Servi-Tech, Inc.,
Dodge City, Kansas**



Date: 17 October 2008

Project number: 08-019b

Report distribution:

- Original: Jerry Lineback, Voluntary Cooperative Unit, KDHE-BER, Topeka
- Copy #1: Terry Kohler, Farmers Coop Elev., Garden Plain
- Copy #2: Ned Marks, Terrane Resources, Stafford
- File Copy: Servi-Tech, Dodge City, Kansas 67801



Report of Progress¹:
MW-18 Aquifer Pumping Test,
Cheney Ground Water Site
VCPRP Contract #98VCP0017
KDHE Project Code #C2-087-70068

1 Introduction

1.1 Background

Previous KDHE investigations identified carbon tetrachloride and nitrate detections in the City of Cheney Public Water Supply Well No. 6 (PWS-06). This well was taken out of service in February 1988. A ground water investigation was initiated in 1996 by installing monitoring wells. The current investigation is in partial fulfillment of an agreement between the Farmers Cooperative Elevator Association (originally the "Cheney Cooperative Elevator Association") and KDHE to participate in the Voluntary Cleanup and Property Redevelopment Plan (#98VCP0017), executed in July 1998.

Ground water nitrate concentrations over the EPA maximum contaminant level (MCL) have been identified under the Site. A 2003 soil investigation identified elevated soil nitrate concentrations around the fertilizer storage and handling facilities. The soil nitrate accumulations have likely resulted from small spills and drips occurring during normal facility operations. A contaminant plume was characterized and is being monitored using samples collected from a ground water monitoring well network.

1.2 Site Description

The Cheney PWS-06 site is located in Section 08 T25S-R04W, Sedgwick County, Kansas. The municipal water supply is obtained from PWS wells that are generally located north and west of Cheney.

A monitoring well network was initially installed in 1996, consisting of five monitoring wells. Today, a total of 21 monitoring wells have been installed to characterize ground water under and around the Coop property. Well MW-18 was installed in July 2004 to serve as both a monitoring point and as a potential ground water extraction well.

1.2.1 Site Hydrogeology

The Ninescah shale is the uppermost bedrock under the investigation site, consisting of alternating beds of silty shale and siltstone. Wells in the area are typically developed in the upper portion of this siltstone/shale aquifer. Lithologic logs for the area show about 2 to 5 feet of the bedrock surface is fractured or weathered.

Colluvial deposits of sands and sandy clays overlay the bedrock. They are highly permeable, but typically do not contain water or may be seasonally dewatered.

The colluvial deposits range from 15 to 20 feet thick in the west portion of the Coop property to 10 to 12 feet thick under the east portion. The Ninescah shale surface may only be 5 to 6 feet below land surface in some places (e.g., MW-13).

The porosity of the Permian Red Beds bedrock is typically secondary, caused by fracturing and channeling in the bedrock. The ground water entering the Site wells moves through the aquifer as fracture flow. It is not uncommon for these aquifers to have preferential fractures and flow patterns. If the wells do not intersect major flow structures, then production can be limited.

¹Report reviewed and approved by Project Geologist before submission to KDHE

1.2.2 MW-18 Description

MW-18 is 38 feet deep with a 5-inch PVC casing. It is completed in the Permian Red Beds bedrock. The Permian Red Beds in this area consist of very fine grained sandstones, siltstones, and shale. The bedrock at the MW-18 location consists of red-brown weathered shale from 10 to 17 feet and a fissile, red-brown shale with green layers from 17 to 41½ feet.

1.2.3 2005 Aquifer Pumping Test

We conducted an aquifer pumping test on MW-18 in July 2005. The test was supervised by Ned Marks, LG, Project Geologist. The test results were not ideal, but yielded important information. The measured drawdown radius was 220 feet that seemed to cover the area inside the 100 mg/l NO₃-N isocontour and much of the soil nitrate source area under the fertilizer handling facilities.

MW-18 was operated at 12 gallons per minute (gpm), reaching 90% of drawdown after 8 minutes and 95% after 25 minutes. Recovery was very quick, 95% complete by 7 minutes. The ground water nitrate concentration was 93% of the initial value after 8 minutes and about 75% of the initial value after 25 minutes.

The results suggest that MW-18 is well placed as a recovery well. Operating the pump at higher rates for shorter times could provide a "flushing" effect to the aquifer, thus improving ground water nitrate recovery. The results also suggested that water movement and recharge from the area under the fertilizer facilities is slow.

1.3 Objectives and Tasks

The objectives of this aquifer pumping test were:

- to better determine the aquifer characteristics under the Coop property,
- to determine the ground water and nitrate extraction efficiency of MW-18 under the conditions expected during routine operation, and
- to develop information allowing the Farmers Coop to better use ground water removal as an effective remedial strategy.

The aquifer testing was conducted on 18 September 2007 under supervision of Ned Marks, Project Geologist. Testing consisted of monitoring a series of step-drawdowns and recoveries and collecting ground water samples.

2 Field Activities

2.1 Preliminary Activities

A dedicated, 1 horsepower submersible pump was installed in MW-18 on 06 September 2007 by personnel from Pratt Well Service and supervised by the Project Geologist. The well seal and fittings were also installed. The pump was wired and connected to a portable generator to test the equipment and prove the flow. The pump was later permanently wired into an AC power supply.

The pumping test was conducted on 18 September 2007. Monitoring wells MW-08, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-20 were used as observation wells. The observation wells were opened and allowed to equilibrate before collecting initial static water measurements. These wells are in all directions from MW-18 and ranged from 86 to 598 feet in distance. Their respective locations are shown in Figure 1.

The investigative derived waste (IDW) consisted of the water discharged from MW-18. The discharge water was collected in portable tanks, then later land applied by spraying at rates of 5 to 10 gallons per acre to nearby agricultural land. No land application plan was prepared due to the low "per-acre" nitrogen application rate. A nitrogen concentration of 200 mg/l applied at 10 gallons per acre (gal/acre) is equivalent to about 0.01 pound of nitrogen per acre (1/100th lb N/ac).

2.2 Test Methodology

The static water level (SWL) in MW-18 was 19.98 feet below the measuring point (BMP) before pumping began. The initial pumping rate was 12 gallons per minute (gpm), then increased to 18 gpm after 11 minutes, and to 22.5 gpm after 22 minutes. The rate was determined by timing the collection of a known amount of discharge water in a graduated container.

The 22.5 gpm pumping rate was maintained until pumping ceased at 270 minutes (2½ hours). The SWL was 30.54 ft BMP when pumping ceased.

Recovery was measured for 11 minutes after pumping ceased. The SWL was 19.80 ft BMP at 11 minutes of recovery.

2.3 Ground Water Sampling

Ground water samples were collected from the pump discharge before the start of the pumping test, then at 20, 60, 90, 150, 210, and 270 minutes after pumping began. Samples were stored on ice and transported to the Servi-Tech Laboratory for analysis

Nitrate, sulfate, and chloride were analyzed by EPA method 300.0, for electrical conductivity by method SM 2510 B, and for bicarbonate by method SM2320 B. Copies of the laboratory reports are found in the Appendix.

3 Results and Discussion

3.1 Data Compilation

The field notes, lab reports, and other raw data relating to the pumping test are found in the Appendix section. The various time series including static water levels and laboratory analysis are presented graphically in the Figures section.

Table 1 contains the distance and orientation of the various observation wells. It also contains the drawdown (in feet BMP) for the respective time (in minutes) after pumping began. Ground water quality data is found in Table 2.

3.2 Data Interpretation

The data was analyzed by the Project Geologist using standard methods to calculate the transmissivity, specific capacity, and distance drawdown. The calculations and results are illustrated in the Appendix.

3.3 Data Limitations

The quality of data collected was protected by using equipment and protocols typical for this type of investigation. Sampling equipment was decontaminated between samples and sites. Well construction was designed to prevent sample contamination and to protect individual aquifers. Wells were installed by a Kansas licensed water well contractor. The equipment installation and aquifer pumping test was supervised by a Licensed Geologist.

We used KDHE approved sampling procedures and sampling handling methods. Field observations were recorded in a dedicated field book. Samples were analyzed by approved methods in a KDHE certified laboratory. This included the proper quality assurance/quality control procedures utilized by the laboratory. We are not aware of any issues in the data or sample collection process that would significantly affect the results or data interpretation.

4 Conclusions and Recommendations

4.1 Conclusions

The normal operation of MW-18 will be intermittent and seasonal. Ground water will be removed during the spraying season which primarily includes spring and late summer. No ground water pumping is expected during fall, winter, or mid-summer. Pump operation will not be continuous, but will cycle according to the operational water requirements. MW-18 will be equipped to pump ground water to a storage tank when it is empty and stop pumping when the tank is full. Normal pumping intervals are not expected to exceed a few hours.

The drawdown and recovery plots indicate there is fairly rapid drawdown and recovery. MW-18 reached 91% of drawdown after the first ten (10) minutes of operation, assuming 100% drawdown at 4½ hours (270 minutes). Drawdown was 96% of maximum after one hour of operation. Recovery was nearly complete at ten minutes after pumping ceased.

The results of the current test suggest a transmissivity (T) value ranging from 2,000 to 3,000 gallons per day per foot. MW-18 had 18.06 ft of saturated thickness at the time of testing.

The distance drawdown was determined from the locations of the monitoring wells and respective water levels. Transmissivity values calculated from the distance drawdown plots provided more realistic values. The best fit curve had a T value of 2566 gallons per day per foot.

Pumping at the 22.5 gpm rate had a positive impact on nitrate removal. The nitrate concentration in MW-18 dropped quickly during the first half-hour of pumping and reached 62% the initial value of 193 mg/l by the end of the test. It appears that the nitrate concentration of downgradient well MW-12 could be affected even by short-term pumping cycles. The chloride concentrations did not change significantly.

Fracture flow is the primary transport mechanism, so there are portions of the aquifer that may transmit water more readily than others. There are outlying wells which may be more influenced by pumping than wells nearer to MW-18. This is apparent from the plotted drawdown results. Outlying wells MW-13 and MW-08 are affected more than the nearer wells MW-10 and MW-11.

The specific capacity (SC) from the current test closely matches the SC value from the first test conducted in 2005. The average specific capacity was 2.1 gallons per minute per foot of drawdown (gal/min/ft DD). Higher static water levels observed in the 2005 test likely resulted in the higher SC values of 2.3 gal/min/ft DD. The average hydraulic conductivity (HC) was estimated at 142.1 gallons per day per square foot (gal/day/ft²).

4.2 Recommendations

The test pumping rate was 22.5 gpm. Increasing the pumping rate would increase the area of influence, but could potentially mobilize ground water on the west portion of the property, possibly impacting the carbon tetrachloride plume or the hydrocarbons identified at the underground storage tank site.

A lower pumping rate should be used if long-term pumping (greater than six hours duration) is expected. The lower pumping rate will not reach as far upgradient, so would reduce the effectiveness of ground water nitrate extraction. An additional extraction well would be needed if the MW-18 pumping rate were too low. The proposed phytoremediation installation would substitute for the additional extraction well.

Additional ground water monitoring will be needed to evaluate the effectiveness of ground water removal on nitrate concentrations. We expect the initial nitrate removal to be rapid, but for concentrations to stabilize at some lower level. We expect this may become apparent after two full seasons of pumping.

Tables

1. Pumping test data, Cheney MW-18 pumping test, 18 September 2007
2. Ground water quality, Cheney MW-18 pumping test, 18 September 2007
3. Monitoring well completion information

Table 1: Pumping test data, Cheney MW-18 pumping test, 18 September 2007

a. Well orientation		
Pumping well:		MW-18
Observation wells		
ID	from pumping well	
	distance, ft.	direction
MW-08	598	W
MW-10	195	W
MW-11	96	NW
MW-12	86	E
MW-13	265	NW
MW-14	179	E
MW-15	442	E
MW-20	432	SSE

MW-18, Pumping well	
Time*, minutes	Drawdown, feet
30	10.14
60	10.29
120	10.48
180	10.53
240	10.63
270	10.68

Observation wells

MW-08		MW-10		MW-11		MW-12	
Time*, minutes	Drawdown, feet	Time*, minutes	Drawdown, feet	Time*, minutes	Drawdown, feet	Time*, minutes	Drawdown, feet
38	0.17	29	0.06	28	0.17	32	0.06
73	0.24	65	0.09	63	0.19	68	0.06
132	0.28	123	0.10	122	0.20	126	0.13
193	0.31	184	0.12	183	0.20	188	0.15
252	0.32	241	0.07	244	0.20	246	0.14
293	0.41	280	0.17	279	0.44	281	0.39
		297	0.21	298	0.54	299	0.50
MW-13		MW-14		MW-15		MW-20	
Time*, minutes	Drawdown, feet	Time*, minutes	Drawdown, feet	Time*, minutes	Drawdown, feet	Time*, minutes	Drawdown, feet
30	0.13	33	0.02	34	0.05	36	0.03
66	0.18	69	0.05	70	0.06	71	0.04
124	0.23	127	0.08	128	0.06	130	0.04
186	0.24	189	0.12	190	0.09	191	0.07
245	0.24	247	0.09	249	0.03	250	0.05
285	1.41	287	0.19	289	0.13	291	0.12

* minutes after pumping begins

Table 2. Ground water quality, Cheney MW-18 pumping test, 18 September 2007

Elapsed time, minutes after pumping began	MW-18 (pumping well)				MW-11 (upgradient)			MW-12 (downgradient)		
	NO ₃ -N mg/l	% of max	Cl mg/l	EC µmho/cm	NO ₃ -N mg/l	Cl mg/l	EC µmho/cm	NO ₃ -N mg/l	Cl mg/l	EC µmho/cm
0	193	0	35	1900						
20	158	35	32	1700						
60	152	41	32	1650	173	48	1870	230	47	2210
90	147	46	31	1620						
150	140	53	31	1580						
210	136	57	31	1550	171	48	1870	213	46	2100
270	131	62	30	1510						

Table 3. Monitoring well completion information

Monitoring well ID:	MW-18	MW-08	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-20
	PUMPING WELL	OBSERVATION WELLS							
Construction date:	07/15/04	08/19/00	06/22/01	06/22/01	06/22/01	06/22/01	07/13/04	07/14/04	07/16/04
Contractor:	Pratt Well Svc.	Harp Well Svc.	Harp Well Svc.	Harp Well Svc.	Harp Well Svc.	Harp Well Svc.	Pratt Well Svc.	Pratt Well Svc.	Pratt Well Svc.
Plug date:	---	---	---	---	---	---	---	---	---
Elevation:									
<i>Pad, rim, ground level</i>	1385.72	1389.68	1385.89	1386.61	1385.30	1387.12	1384.99	1383.19	1384.22
<i>TOC</i>	1387.77	1391.58	1388.42	1389.09	1387.80	1389.49	1387.92	1386.28	1386.86
Total depth:									
Borehole depth:	38	36	35	35	35.5	35	35.25	36.9	37.3
Completed depth:	38	36	35	35	35.5	35	35.25	36.9	37.3
Casing diameter	5"	5"	2"	2"	2"	2"	2"	2"	2"
Screened interval <i>from:</i>	18	26	25	25	25.5	25	25.25	26.9	27.3
<i>to:</i>	38	36	35	35	35.5	35	35.25	36.9	37.3
Grouted interval									
<i>From:</i>	2	2	0	0	0	0	2	2	2
<i>to:</i>	15	22.5	21.5	22.5	22.5	22.5	23.7	25	25
Gravel pack									
<i>From:</i>	15	22.5	21.5	22.5	22.5	22.5	23.7	25	25
<i>to:</i>	38	37	35	35	35.5	35	32.25	36.9	37.3
Survey information									
<i>feet North*</i>	2641.71	2476.08	2573.42	2714.40	2620.89	2842.72	2643.27	2694.86	2308.26
<i>feet West*</i>	2761.52	3336.29	2944.11	2823.61	2678.15	2934.44	2582.50	2323.23	2487.30
<i>Latitude, D-M-S</i>	37-62-595	37-37-32	37-37-32	37-37-34	37-37-33	37-37-35	37-62-592	37-62-601	37-62-502
<i>Longitude, D-M-S</i>	97-78-126	97-46-58	97-46-53	97-46-51	97-46-50	97-46-52	97-78-064	97-77-969	97-78-039
Information source:									
<i>WWC5 record</i>	X	X	X	X	X	X	X	X	X
<i>Construction log</i>	X	X	X	X	X	X	X	X	X

Figures

1. Aerial photo, Cheney facility and wells used in aquifer pumping test.
2. Step drawdown test, Cheney MW-18, 18 September 2007
3. Aquifer pumping test, Cheney MW-18, 18 September 2007
4. Aquifer pumping test, 18 September 2007, observation wells
5. Nitrate time series and trends
6. Ground water quality trends

Figure 1. Aerial photo, Cheney facility and wells used in aquifer pumping test.



Figure 2. Step drawdown test, Cheney MW-18, 18 September 2007

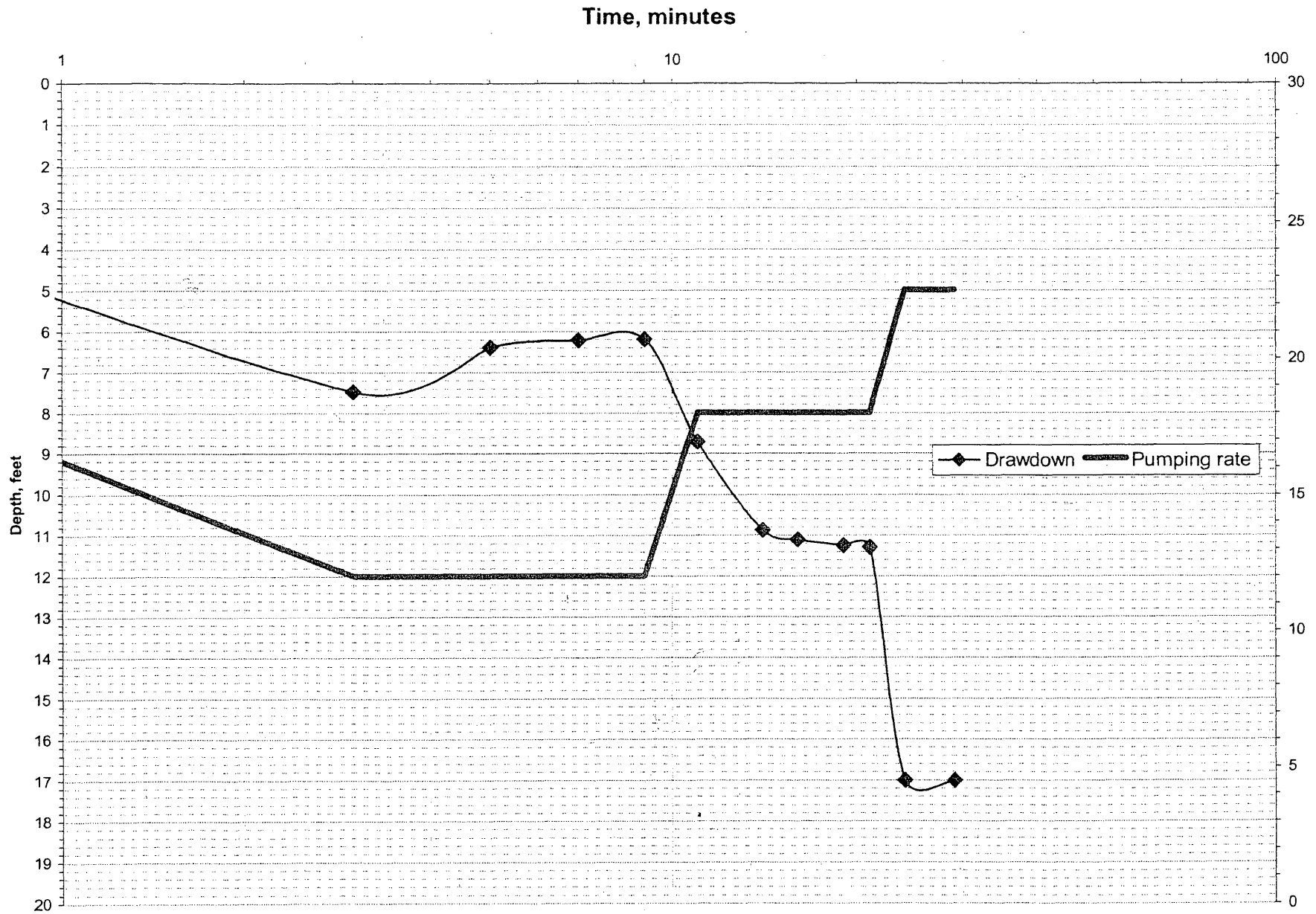


Figure 3. Aquifer pumping test, Cheney MW-18, 18 September 2007

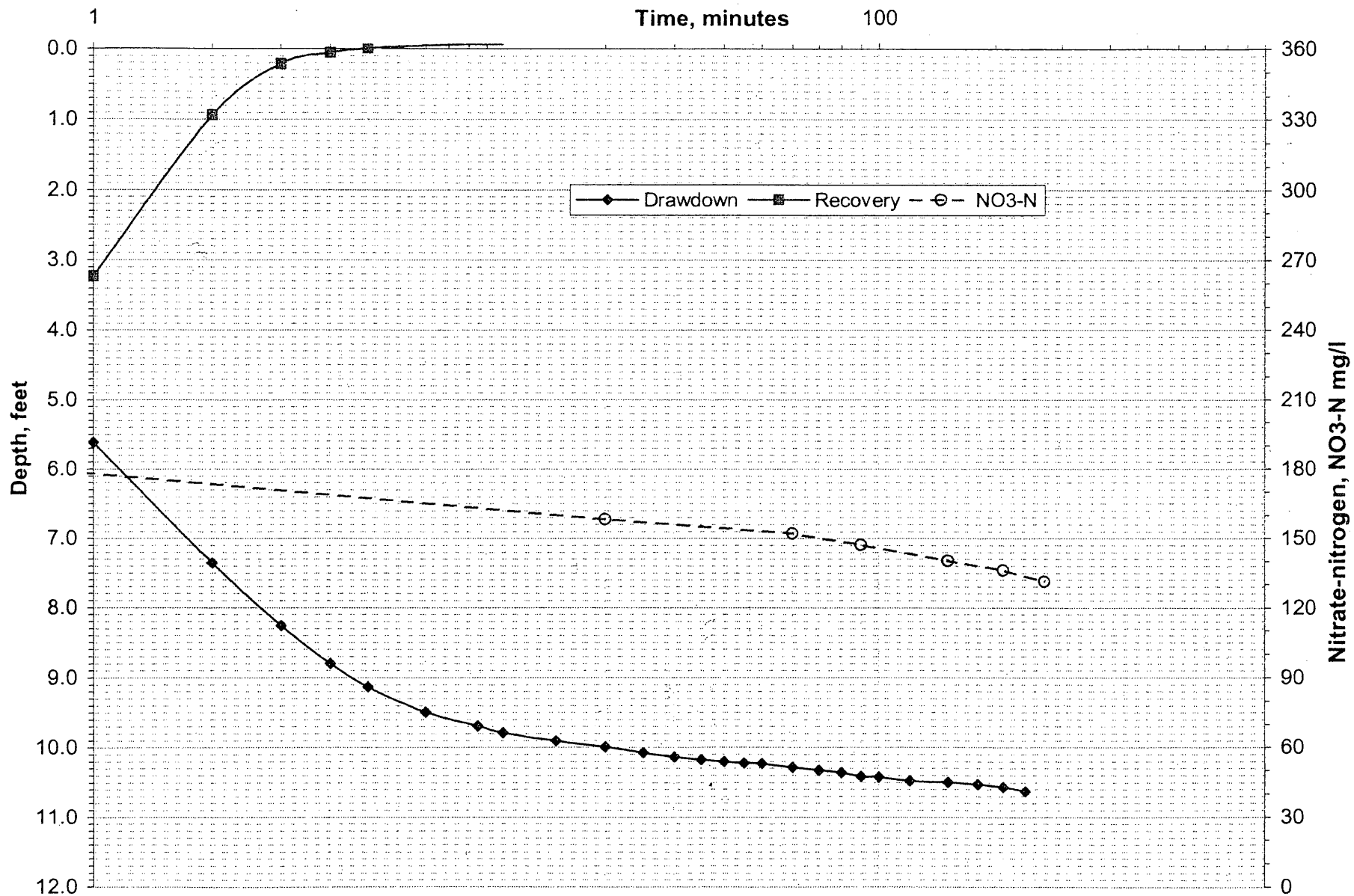


Figure 4. Aquifer pumping test, 18 September 2007, observation wells

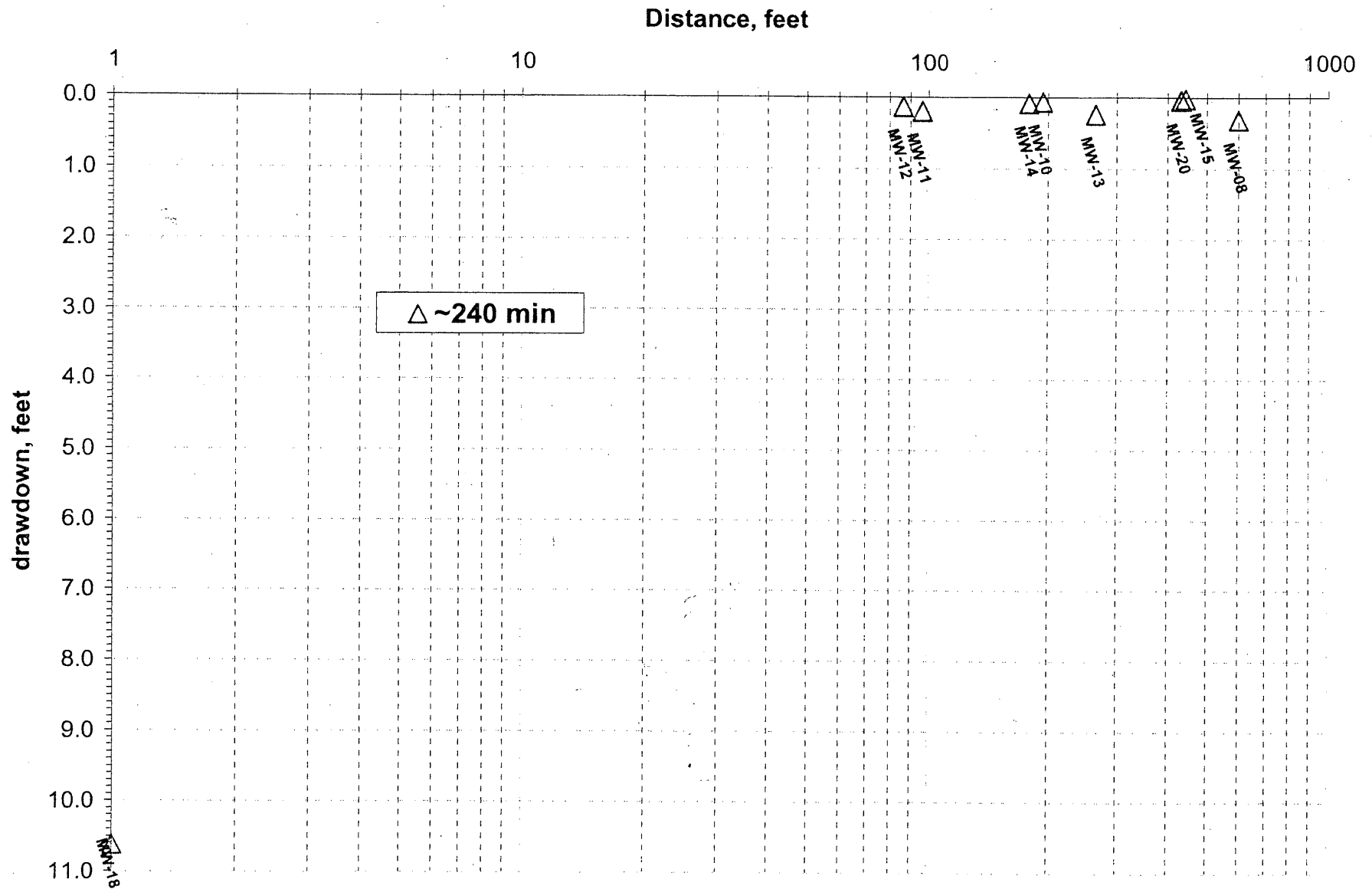
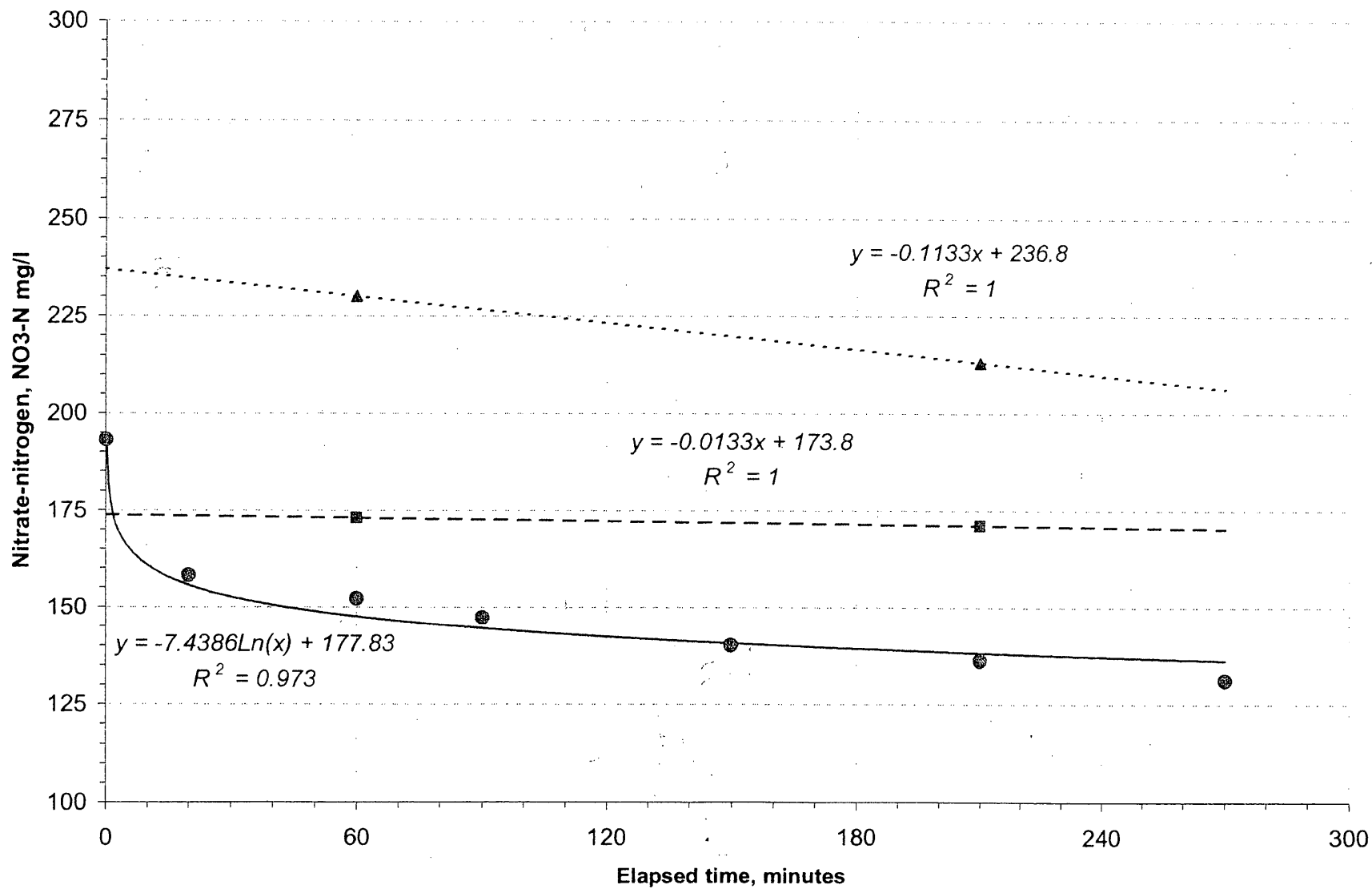
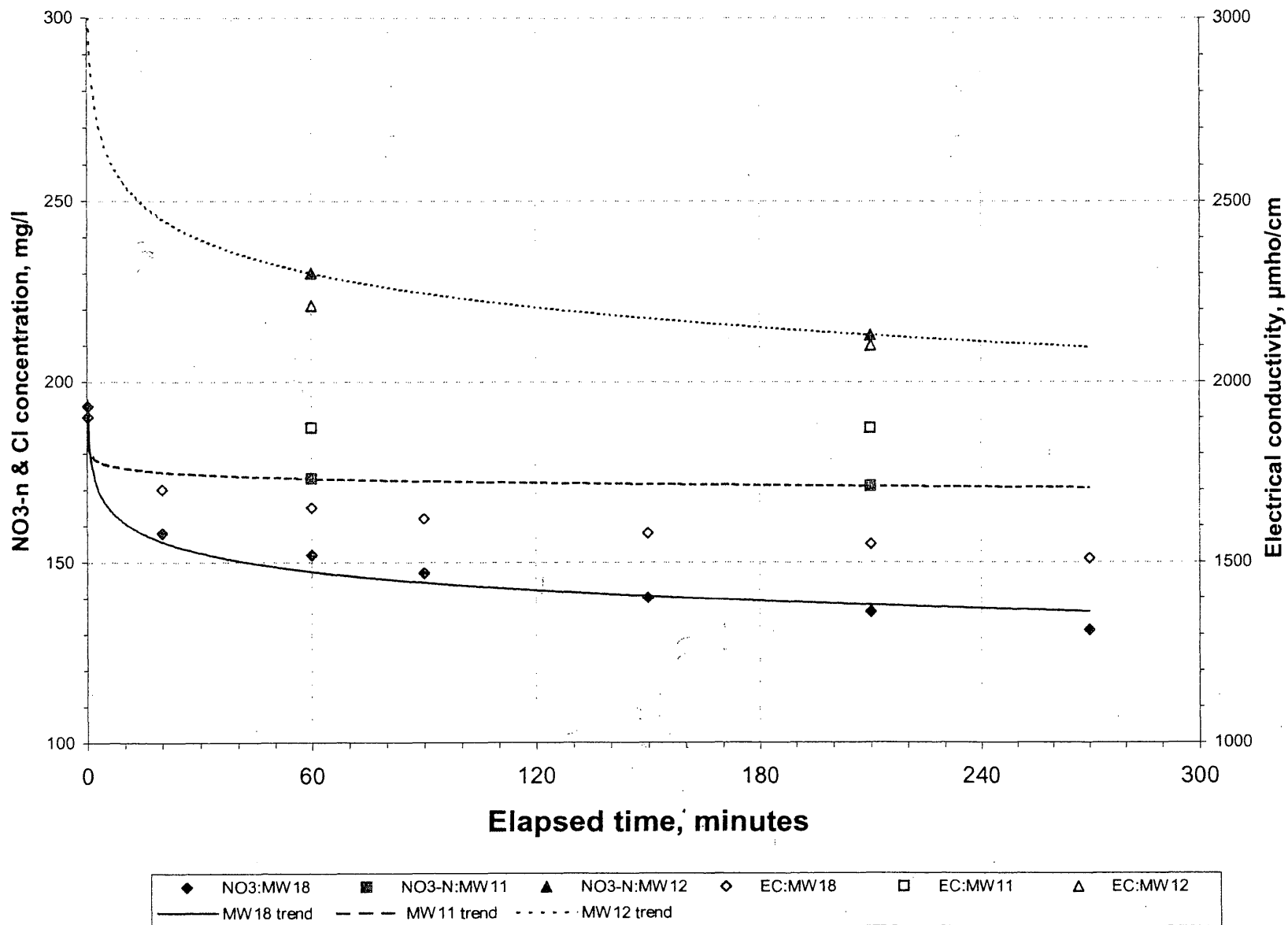


Figure 5. Nitrate time series and trends



● MW-18 ■ MW-11 upgradient ▲ MW-12 downgradient — MW18 trend - - - MW11 trend ····· MW12 trend

Figure 6. Ground water quality trends



Appendix

Field Notes

Geologists field notes, 06 Sept 2007	1 pg.
Water well contractor field notes, 06 Sept 2007	1 pg.
Geologists field notes 18 Sept 2007,	4 pg.
Servi-Tech field notes 18 Sept 2007	2 pg.
Geologists field notes, 19 Febr 2002	1 pg.
Pumping test calculations and data analysis	2 pg.
WWC5 record, MW-18	1 pg.
Ground water sampling: laboratory analytical reports, chain of custody	13 pg.

Terrane Resources Co.

P.O. Box 173 Stafford, KS 67578
(316) 234-5200

Project: Chesley Loop

Date: 06 Sept 07 (4)

MW 02 Repairs to broken well.

13:30 Drill crew on loc

1.5 hrs Bill to /md ownr.

Cutoff casing below 1st surface

Bailed 3.5 gals muddy water
Set 12 Volt pump

14:10-

14:38 pumped 21 gals Sampled from 18" 21 galls + pulled pump

14:55 SWL 23.35' BLS

Installed new casing. Left instructions w/ drill crew re:
well completion + protective piping

15:00 hrs Moved to MW 18

Oversaw installation of submersible pump

1 F+W pump w/ check valve removed
56' of wire
36' of poly pipe
well seals + fittings

Pump wired up to generator + ran to prove flow

Met w/ Don Ramsdale re: progress + schedule to test pump MW 18

17:00 hrs Ret to TRC trailer

19:00 hrs - 20:00 hrs Continued computing data

09:30 hrs Rest Chesley

07 Sept 07

FILE COPY
505

Terrane Resources Co.

P.O. Box 173 Stafford, KS 67578
(316) 234-5200

mw 18

Project: Cheney Loop

Date: 18 Sept 07

Dept motel 07:00

Arr. loc Met w/ Don Rensdale re: schedule Calls to 1 from George re: tanks

Elapsed Time	SWL / PWL	Q
08:32	19.98	
08:34	0	Pump on \approx 25 gpm reduced Q
3	27.46	12 gpm Cloudy + silty
5	26.38	
7	26.20	
9	26.18	SI Cloudy increase Q
11	28.70	18 gpm
14	30.86	
16	31.10	18 gpm
19	31.24	Clear
20		Sampled
21	31.28	increase Q
22		22.5 gpm
24	37.00	
25		open flow out of water reduced Q
29	37.00	hitting top of pump w/ sounder Set flow to 22.5 gpm

Began surging well w/ pump
pump on-off 5 times the pump to tank

1:10 after 5 sessions of surging water is SI. Cloudy + muddy

1:20 mostly clear, shut down to allow well to recover before running 2nd water test

10:00 - 13:30 hrs 1st run drawdown + recovery test on mw 18
collected water samples, Assisted w/ closing new's Met w/ Don re: progress + problems

17:00 hrs Ret to Stafford.

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108²

AQUIFER TEST

Project Cheney Camp

Date 18 Sept 07

Pumping well I.D. MW18 Measured well I.D. MW18 Meas. Pt. Top of Meas. T.C.
 Meas. tube is 0.37' higher than T.C.

TIME OF DAY	ELAPSED TIME IN MIN.	W.L. BELOW M.P.	DRAWDOWN IN FEET	PUMPING RATE	ELAPSED TIME IN MIN.	W.L. BELOW M.P.	RECOVER IN FEET
	08:11	19.94'					
MW18	0	19.86		392/8 sec	0	30.54	
	1	25.48		22.5 gpm	1	23.10	
	2	27.22			2	20.80	
	3	28.12			3	20.08	
	4	28.66		392/9 sec	4	19.92	
	5	29.00		392/8.5 sec	5	19.86	
	7	29.36			7	19.82	
	9:30	29.56			9	19.80	
mostly closed	11	29.65		392/8 sec	11	19.80	
	15	29.77			15		
	20	29.86			20		
Sprinkle	25	29.94			25		
	30	30.00			30		
	35	30.04		392/8.5 sec	35		
	40	30.07			40		
	45	30.09			45		
	50	30.10			50		
	60	30.15			60		
Pumped 60-70 min	70	30.19		392/8.5 sec	70		
	80	30.23			80		
Sprinkles	90	30.28			90		
	100	30.29			100		
	120	30.34		392/8.5 sec	120		
Sample	150	30.36			150		
	180	30.39		392/8.5 sec	180		
Sample	210	30.43			210		
	240	30.49		392/8.5 sec	240		
Sample	270	30.54			270		
	300				300		
	360				360		
	420				420		
	480				480		
	540				540		
	600				600		
			pumped 113 sec before breaking section.				

FILE COPY

Per [unclear]

Sept 10c 15:30

2 of 2

Terrane Resources Co.

P.O. Box 173 Stafford, KS 67578
(316) 234-5200

MW 18

Project: Cherry Loop

Date: 18 Sept 07

Dept MOTI 07:00

Arr. loc Met w/ Don Bunsdale re: schedule Calls to / from George re: tanks

Elapsed Time	SW/ PWT	Q
08:32	19.98	

08:34 0 Pump on \approx 25 gpm reduced Q

3 27.46 12 gpm Cloudy + silty

5 26.38

7 26.20

9 26.18

11 28.70

18 gpm

SI Cloudy increase Q

14 30.86

16 31.10

18 gpm

19 31.24

Clear

20

Sampled

21 31.28

increase Q

22

22.5 gpm

24 37.00

open flow out of water

25

reduced Q

29 37.00

hitting top of pump

w/ sounder

Set flow to 22.5 gpm

Begin surging well w/ pump

pump on-off 5 times the pump to tank

1:10 After 5 sessions of surging water is SI. Cloudy + muddy

1:20 mostly Clear, shut down to allow well to recover before running 2nd water test

10:00 - 13:30 hrs run drawdown + recovery test on MW 18
Collected water samples, Assisted w/ closing news
Met w/ Don re: progress + findings

17:00 hrs Ret to Stafford.

COPY

AQUIFER TEST

Project Cheney Corp

Date 18 Sept 07

Pumping well I.D. MW18 Measured well I.D. MW18 Meas. Pt. Top of Meas. Tub
 Meas. tube is 0.37' higher than TOL

TIME OF DAY	ELAPSED TIME IN MIN.	W.L. BELOW M.P.	DRAWDOWN IN FEET	PUMPING RATE	ELAPSED TIME IN MIN.	W.L. BELOW M.P.	RECOVI IN FEET
	08:11	19.94'					
10:18	0	19.86		392/8 sec	0	30.54	
	1	25.48		22.5 gpm	1	23.10	
	2	27.22			2	20.80	
	3	28.12			3	20.08	
	4	28.66		392/9 sec	4	19.92	
	5	29.00		392/8 sec	5	19.86	
	7	29.76			7	19.82	
	9:30	29.56			9	19.80	
M. Hly M. L. 2nd	11	29.65		392/8 sec	11	19.80	
	15	29.77			15		
	20	29.86			20		
Sprinkle	25	29.94			25		
	30	30.00			30		
	35	30.04		392/8 sec	35		
	40	30.07			40		
	45	30.09			45		
	50	30.10			50		
	60	30.15			60		
Pumped 6 gal/min	70	30.19		392/8 sec	70		
	80	30.23			80		
Sprinkles	90	30.28			90		
	100	30.29			100		
	120	30.34		392/8 sec	120		
Sampled	150	30.36			150		
	180	30.39		392/8 sec	180		
Sampled	210	30.43			210		
	240	30.49		392/8 sec	240		
Sampled	270	30.54			270		
	300				300		
	360				360		
	420				420		
	480				480		
	540				540		
	600				600		
				pumped 113 sec before breaking section.			

Par 40 Rept 10c 15:30

COPY

Unit no. 65 Passenger/pickup 3/4 ton truck rental vehicle

Depart Goddard at 6:45 Mileage: 156241

Arrive Cheney at 7:00 Mileage: 156256

Depart ' at 15:30 Mileage: 156262

Arrive Goddard at 15:45 Mileage: 156277

Depart _____ at _____ Mileage: _____

Arrive _____ at _____ Mileage: _____

Probe start: _____ Probe stop: _____

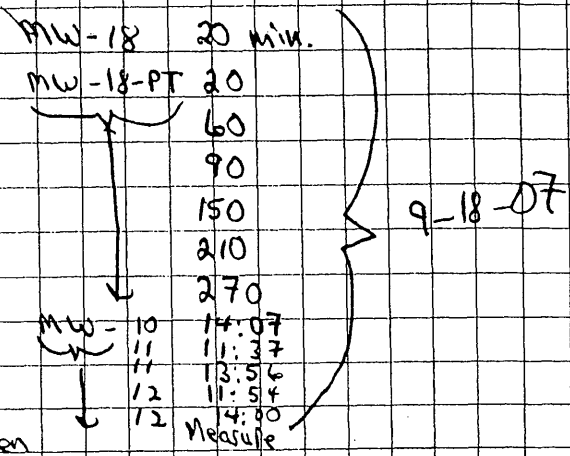
Onsite: 8:00 Offsite: _____ Tech 1 Tech 2 9-18-07

Onsite: _____ Offsite: _____ Tech 1 Tech 2

Onsite: _____ Offsite: _____ Tech 1 Tech 2

Onsite: _____ Offsite: _____ Tech 1 Tech 2

Sample Times



Onsite:	Offsite:	<input type="checkbox"/> Tech 1	<input type="checkbox"/> Tech 2	Time	SWL	Time	SWL	Time
MW-10	7770	152	7770	168	7:58	19.66	8:21	19.79 9:08
MW-11		192		167	7:57	20.92	8:19	21.19 9:06
MW-13		183		160	8:00	21.22	8:22	21.40 9:08
MW-12		184		166	8:04	19.64	8:23	19.88 9:10
MW-14		154		165	8:03	19.84	8:24	19.97 9:11
MW-15		155		164	8:05	18.56	8:26	18.58 9:12
MW-20		157		162	8:07	18.81	8:30	18.84 9:14
MW-18		None		None	8:13	19.94	8:13	
MW-08		None		None	8:33	22.79	8:34	22.81 9:16

Pump Test	Start	Time	SWL	Time	SWL	Time	SWL	Time
MW-10	19.73	10:47	19.70	11:23	19.69	12:21	19.67	13:22
	21.02	10:46	21.0	11:21	20.99	12:20	20.99	13:21
	21.27	10:48	21.22	11:24	21.17	12:22	21.16	13:24
	19.82	10:50	19.82	11:26	19.75	12:24	19.73	13:26
	19.95	10:51	19.92	11:27	19.89	12:25	19.85	13:27
	18.53	10:52	18.52	11:28	18.52	12:26	18.49	13:28
	18.81	10:54	18.80	11:29	18.80	12:28	18.77	13:29
	22.64	10:56	22.57	11:31	22.53	12:30	22.50	13:31

Continued on Page 27

Read and Understood By _____

Signed Davis Schmitt Date Sep 18-07

Signed _____ Date _____



MW	SWL	Time	SWL	Time	SWL	Time
10	20.99	14:19	19.62	14:58	19.58	15:15
11	19.72	14:22	20.75	14:57	20.65	15:16
13	21.16	14:23	19.99	15:03		
12	19.74	14:24	19.49	14:59	19.38	15:17
14	19.88	14:25	19.78	15:05		
15	18.55	14:27	18.45	15:07		
20	18.79	14:28	18.72	15:09		
08	22.49	14:30	22.40	15:11		

DISTANCE FROM ~~MW-18~~ TO:

- MW-08 598'
- MW-10 195'
- MW-11 96'
- MW-12 86'
- MW-13 265'
- MW-14 179'
- MW-15 442'
- MW-20 432'

Continued on Page

Read and Understood By



David Schutte

Sep 18 - 07

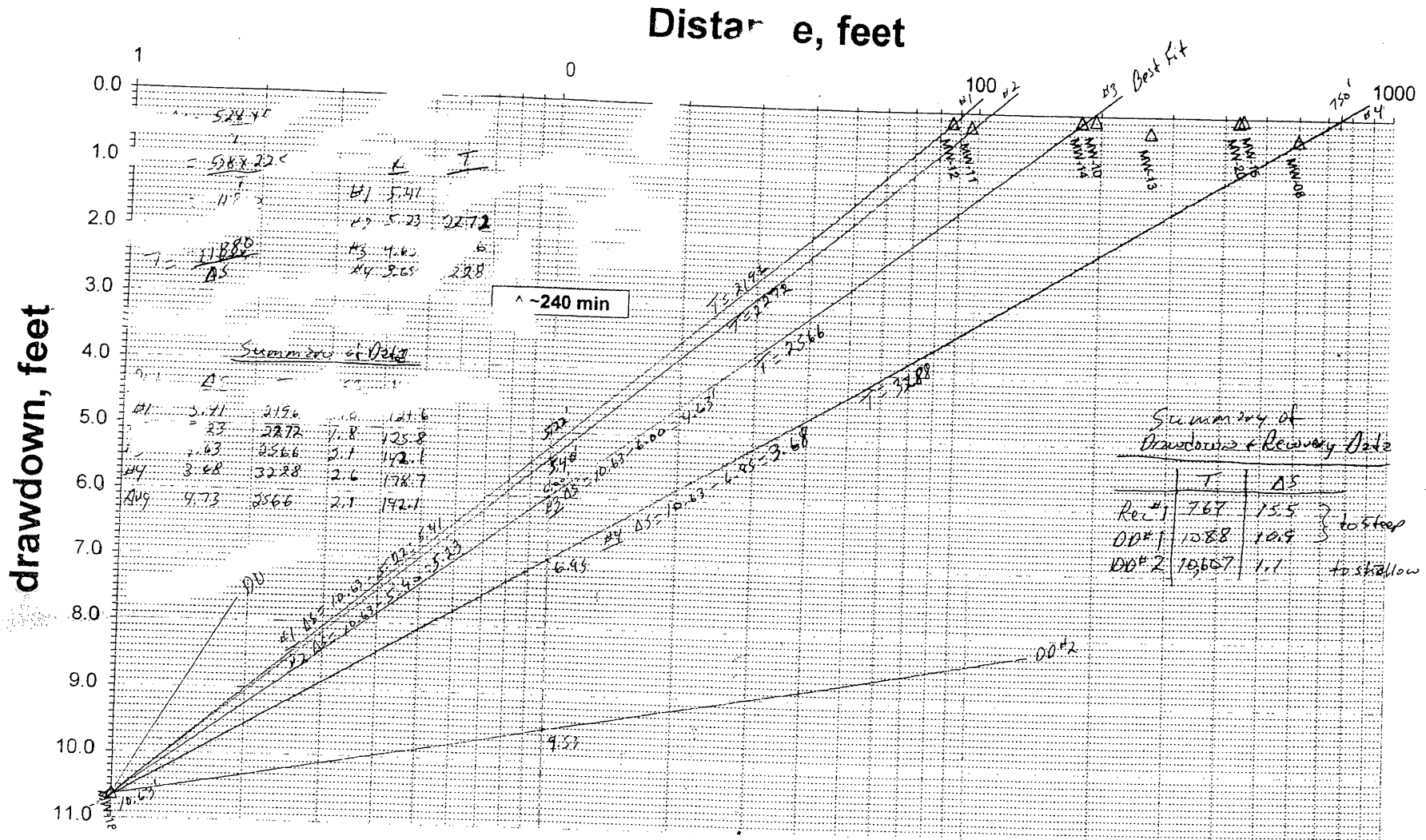
Signed

Date

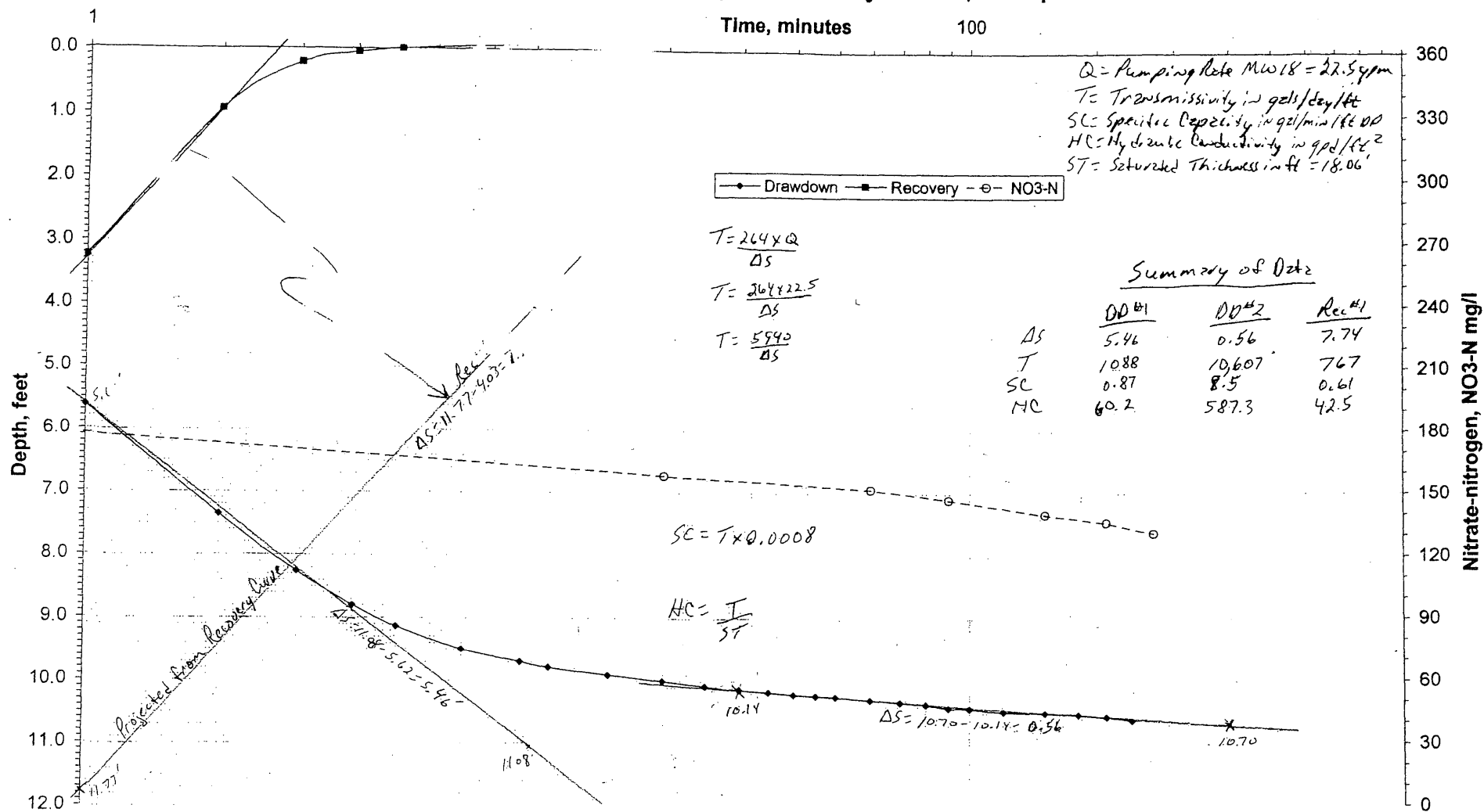
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Date

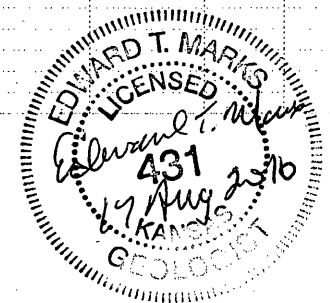
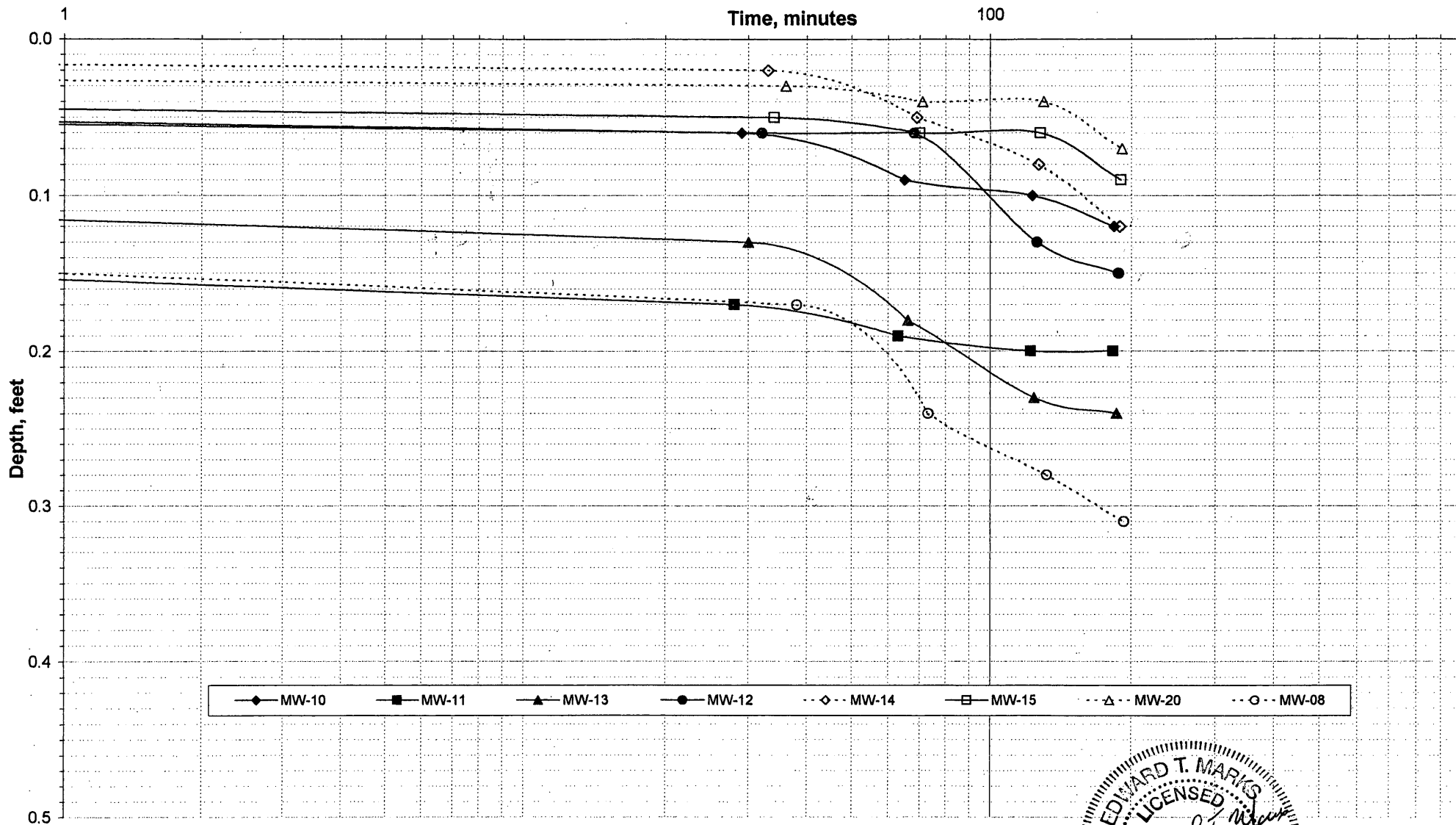
3. Aquifer pumping test, 18 September 2007, observation wells



2. Aquifer pumping test, Cheney MW-18, 18 September 2007



3. Aquifer pumping test, 18 September 2007, observation wells



FILENAME: S:\PROJECTS\FARMERS COOP ELEVATOR - 4999110129 - CHENEY VCI MONITORING REPORTING\FIGURES AND PHOTOS - 10129\CADD - 10129\FIGURES.DWG



FARMERS COOP
CHENEY KANSAS SITE



214 N ST. FRANCIS • WICHITA, KS 67202 • 316.262.6698

PROJECT: 10129:4999
DATE: 9/16/2015
DWN BY: SMB
CHKD BY: DAB

SEPTEMBER 2015
GROUNDWATER ELEVATIONS

FIGURE: 2

SHT: 2 OF 5

File #49,466 Modified 17 Aug 2016, TRC

FILENAME: PROJECTS\FARMERS COOP ELEVATOR - 46661028 - CHENEY KS MONITORING REPORTING FIGURES AND PHOTOS - 10/24/2015 - 10/24/2015.DWG



FARMERS COOP
CHENEY KANSAS SITE



PROJECT: 10129:4999
 DATE: 9/16/2015
 DWN BY: SMB
 CHKD BY: DAB

SEPTEMBER 2015
 GROUNDWATER CARBON TETRACHLORIDE (ug/L)

FIGURE: 4

SHT: 4.OF.5

File #49,466 Modified 17 Aug 2016, TRC

Google Maps 37°37'11.4"N 97°46'47.2"W

NW 08
NW 18



Imagery ©2016 Google, Map data ©2016 Google 200 ft

File #49,466

File #49,466 Modified 17 Aug 2016, TRC

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

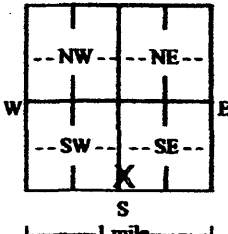
Well ID

State

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Sedgwick	Fraction NW¼ SW¼ SE¼	Section Number 8	Township Number T 28 S	Range Number R 4 E W
---	-------------------------	----------------------------	----------------------------------	--------------------------------

2 WELL OWNER: Last Name: CITY OF CHENEY Business: CITY OF CHENEY Address: 131 N MAIN Address: City: CHENEY State: KS ZIP: 67025	First: NEAR A POINT 469 FT NORTH AND 2530 FT WEST OF SOUTHEAST CORNER OF SECTION	Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input type="checkbox"/>
--	--	---

3 LOCATE WELL WITH "X" IN SECTION BOX: N  S 1 mile	4 DEPTH OF COMPLETED WELL: 100 ft. Depth(s) Groundwater Encountered: 1) 25 ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 25 ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr) <input checked="" type="checkbox"/> above land surface, measured on (mo-day-yr) 10/07/2015 Pump test data: Well water was ft. after hours pumping gpm Well water was ft. after hours pumping gpm Estimated Yield: 120 gpm Bore Hole Diameter: 12 in. to 100 ft. and in. to ft.	5 Latitude: 37.619957 (decimal degrees) Longitude: 97.780052 (decimal degrees) Datum: <input checked="" type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper:
6 Elevation: 1381 ft. <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Other KOLAR		

7 WELL WATER TO BE USED AS:

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

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

Water well disinfected? Yes No

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

Casing diameter **5** in. to **100** ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface **16** in. Weight **160** lbs./ft. Wall thickness or gauge No. **28**

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)
 Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify)
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From **34** ft. to **100** ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From **24** ft. to **100** ft., From ft. to ft., From ft. to ft.

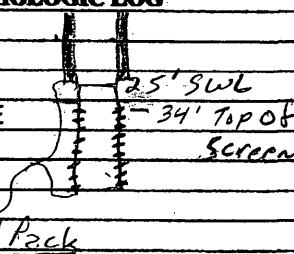
9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout Intervals: From **4** ft. to **24** ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:

<input type="checkbox"/> Septic Tank	<input type="checkbox"/> Lateral Lines	<input type="checkbox"/> Pit Privy	<input type="checkbox"/> Livestock Pens	<input type="checkbox"/> Insecticide Storage
<input type="checkbox"/> Sewer Lines	<input type="checkbox"/> Cess Pool	<input type="checkbox"/> Sewage Lagoon	<input type="checkbox"/> Fuel Storage	<input type="checkbox"/> Abandoned Water Well
<input type="checkbox"/> Watertight Sewer Lines	<input type="checkbox"/> Seepage Pit	<input type="checkbox"/> Feedyard	<input type="checkbox"/> Fertilizer Storage	<input type="checkbox"/> Oil Well/Gas Well
<input type="checkbox"/> Other (Specify)				

Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	TOP SOIL			
2	14	CLAY			
14	32	FINE SAND			
32	39	GREEN SHALE			
39	44	BLUE SHALE			
44	100	RED SHALE			
			Notes: <i>Gravel Pack</i>		

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-yr) **10/07/2015**..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **611**..... This Water Well Record was completed on (mo-day-yr) **10/16/2015**..... under the business name of **Chase Drilling**.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.
 KS Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1307. Telephone 785-296-3565.
 Visit us at <http://www.kdheks.gov/waterwell/index.html> **KSA 82a-1212**

File #49,466 Modified 17 Aug 2016, TRC

Draft

**KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources**

MEMORANDUM

TO: Files

DATE: August 2, 2016

FROM: Matt Meier

RE: Application, File No. 49,466

Cheney School District USD 268 has filed the referenced application to appropriate groundwater for irrigation use, requesting one (1) well, a quantity of 21.07 acre-feet, and a diversion rate of 120 gallons per minute. The proposed well is to be located in the Southwest Quarter of the Southwest Quarter of the Southeast Quarter (SW ¼ SW¼ SE¼) of Section 8, Township 28 South, Range 4 West, Sedgwick County, within the drainage basin of the South Fork of the Ninnescah River. There are no other water rights overlapping the proposed point of diversion or place of use. The proposed place of use is owned by Cheney School District USD 268, the Cheney Recreation Commission, and the Melvin R Woolf Revocable Trust. The original applicant was the City of Cheney, but the Cheney School District USD 268 took over the application during processing. It should be noted that the well has already been completed and in use. The current water use is/has been covered by two different temporary applications (20150341 & 20160047).

MKEC (an Engineering firm hired by the applicant) identified 22 domestic wells within one-half mile of the proposed well and 2 non-domestic (which belonged to the City of Cheney), which WRIS verified. Nearby well notification letters were sent out on April 18, 2016. Phone calls were received from Paul Gallaway and Linda Roder to get more information on application (but not to object). Terry Kohler, Russ Harrison, Darlene Weir, David Woodard, Troy Pressley, Dan Quiny, and Shelly Miller also called in to say that they were against approval of the application. A letter (from Russ Harrison) and petition against the approval of the application signed by members of approximately 14 households (multiple of whom appeared to be outside of ½ mile) were received. The letter listed that they were concerned the application would run their wells dry, however, no supporting evidence was received and almost all those who called in stated they hadn't had any issues with their wells. A letter was also received from Terry Kohler, as a representative of the local Farmers Coop Elevator, stating that they were concerned with the proposed wells possible impact on their remediation work. Russ England, the member of KDHE in charge of coordinating the remediation work, was contacted via phone and email to discuss the site. An email was received from Russ on May 2, 2016 stating that the KDHE did not anticipate any issues regarding the operation of the proposed well.

According to the WRIS database, the next nearest non-domestic point of diversion (File 9204 #5) is approximately 1,989 feet away. Based on the map submitted with the application the nearest domestic well is approximately 700 feet away and is owned by the Cheney Recreation Commission (one of the P.U. owners). The next closest domestic well appears to be approximately 1,000 feet away. The proposed point of diversion meets minimum well spacing to all existing wells. Per the requirements in K.A.R. 5-4-4 for all other aquifers, the minimum well spacing should be one-quarter mile to all other non-domestic wells and 660 feet to domestic wells.

A well log from the existing well was submitted with the application and the source appears to be from the Ninnescah Shale (Permian system). The well log shows top soil located at 0 to 2 feet, clay at 2 to 14 feet, medium to fine sands at 14 to 32 feet, green shale from 32 to 39 feet, blue shale from 39 to 44 feet, and red shale 44 to 100 feet below ground. Static water level was at 25 feet and the perforated portion of the well runs from 34 to 100 feet. This provides a saturated thickness of approximately 66 feet. Based on the well log, it appears that the aquifer is hydraulically confined. Per K.A.R. 5-3-14, safe yield for a confined aquifer is processed on a case by case basis using the best available information. No specific criteria have been developed for safe yield evaluation of this confined aquifer, it appears that the pending application can be reviewed using the safe yield criteria in K.A.R. 5-3-11 as a guideline, which is consistent with other applications in similar sources of supply.

To maintain consistency with senior files in the area, the area of consideration is the extent of the bedrock aquifer in the two-mile circle, which was determined to be the entire 8,042 acres. Based on a potential recharge of 2.16 inches, with 75% available for appropriation, safe yield was determined to be 1,085.67 acre-feet. Existing water rights have appropriated 755.15 acre-feet, providing a difference of 330.52 acre-feet available for appropriation, and the application requesting 21.07 acre-feet complies with safe yield. Note, that using the value of 75% of the safe yield available instead of 100% is a more conservative approach and provides for the possibility that this aquifer could contribute to baseflow in a stream.

Please note, that this safe yield value per K.A.R. 5-3-11 provides the **maximum allowable recharge** (2.16 inches) for the area of consideration, since a deeper confined aquifer would receive only a portion of the recharge that a shallow, unconfined aquifer would receive. If there is a significant quantity of water still remaining as determined by K.A.R. 5-3-11, then even with a considerable reduction in the amount of recharge reaching the confined aquifer there would still be sufficient water available. For this application the maximum recharge could be reduced to less than 0.05 inches of recharge (0.03% of the maximum) and there would still be sufficient water available. Additionally, it appears that a sizable portion of the appropriated safe yield (approximately 459.05 acre-feet) is allocated to wells owned by the City of Cheney, the majority of which seem to be no longer in active use based on reported water use. This should further reduce any strain on the local aquifer and limit the chance of the application impacting the water table. Finally, it should also be noted that well be has been used since September 2015 and no complaints had been received until nearby notification letters were sent out.

Long term recorded water level measurements were not available near the proposed point of diversion. In an attempt to obtain information on the status of the water table in the area, information (in the form of static water levels from domestic wells in the area) was collected from the Kansas Geological Survey Website. A review of the information showed average static water level depths, over an area approximately 1 mile in diameter from the proposed well, varying from 13 to 30 feet. These wells were drilled from approximately 1987 to 2015. Some of the most recently drilled wells showed a shallower static water levels than the older wells and vice versa. Based on this very general information, there did not appear to be any significant discernable trends showing a long term lowering of water levels in the area.

The requested quantity of water, 21.07 acre-feet, is reasonable to irrigate the proposed 16.22 acres identified in the application. This is the maximum allowable of 1.3 acre-feet per acre for Sedgwick County, Kansas. There are multiple pending applications in this general area of the state, and they are being worked in priority order to ensure that senior applications are provided the available water.

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. A water level measurement tube is required because this is a proposed new well exceeding 100 gpm.

The proposed application is subject to minimum desirable streamflow requirements. The applicant signed, notarized, and returned the required form to our office.

Based on the above discussion, well spacing and safe yield criteria are met, 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.

8/3/16

** Lower w/ Matt's Recommendation
A measurement tube should be required
to investigate low levels in a complaint.
Jeff Santora w.l.*

Matthew J. Meier
Environmental Scientist
Water Appropriations Program

=====
 Analysis Results

The selected PD is in an area to new appropriations.
 The safe yield, based on the variables listed below is 1,085.67 AF.
 Total prior appropriation in the circle is ~~755.16 AF~~ → 917.66 AF
 Total quantity of water available for appropriation is ~~330.51 AF~~

Safe Yield Variables

The area used for the analysis is set at 8,042 acres.
 Potential annual recharge of the area is estimated to be 2.16 inches.
 The percent of recharge available for appropriation is 75%.

Authorized Quantity values are as of 02-MAR-2016 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.

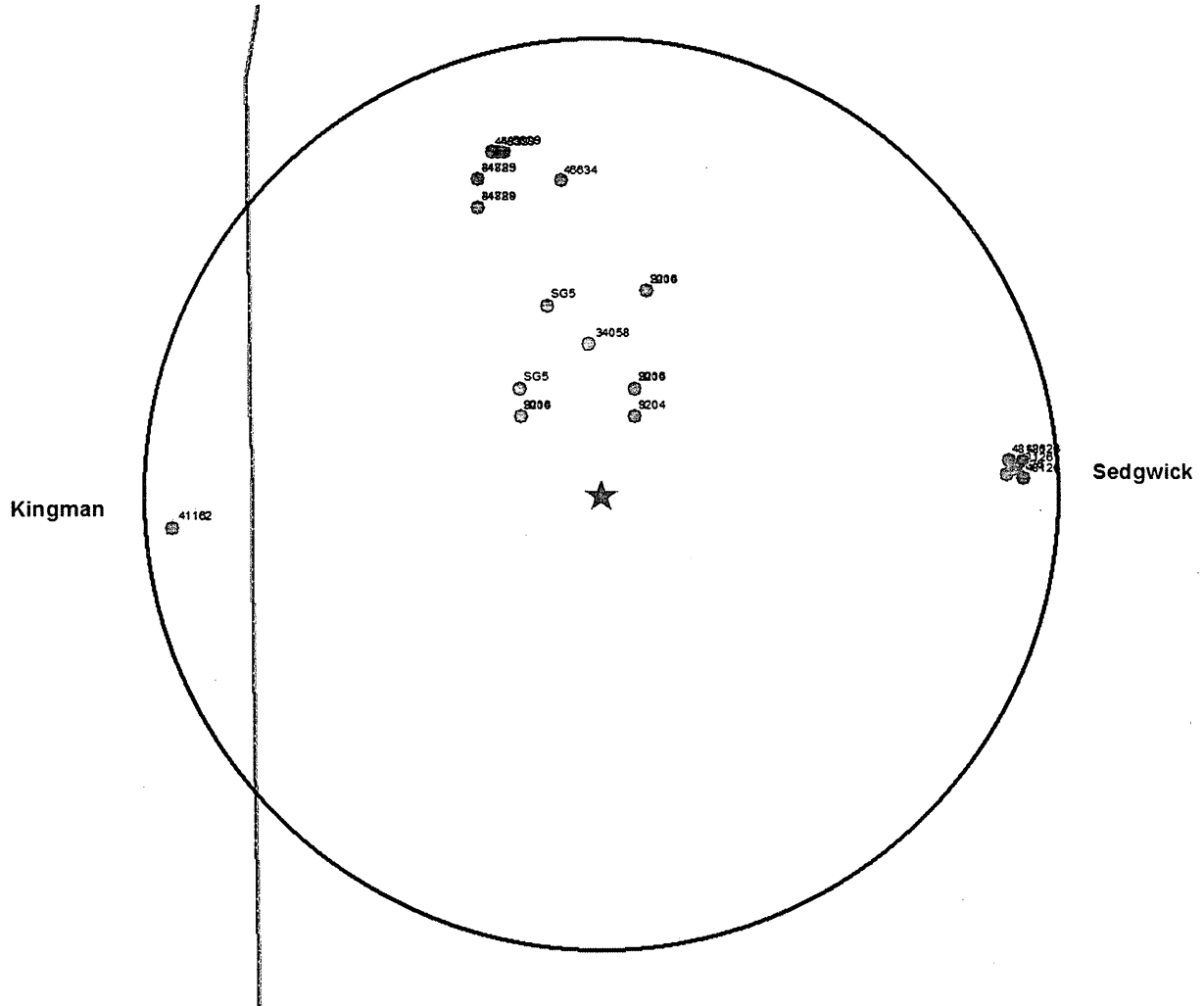
There are 11 water right(s) and 19 point(s) of diversion within the circle.

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File Number	Use	ST	SR	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Qind	Auth_Quant	Add_Quant	Tacres	Nacres
A 2016 00	MUN	NK	G		NE	NW	SW	0	0	08	28	04W	4	WR	42.00	42.00		
Same	MUN	NK	G		SE	SW	NE	0	0	08	28	04W	3	WR				
Same	MUN	NK	G	SE	CR	SW	SE	0	0	05	28	04W	1	WR				
A 9204 00	MUN	NK	G		NE	NW	SW	0	0	08	28	04W	4	WR	91.53	54.36		
Same	MUN	NK	G		SE	SW	NE	0	0	08	28	04W	3	WR				
Same	MUN	NK	G	SE	CR	SW	SE	0	0	05	28	04W	1	WR				
Same	MUN	NK	G		NE	NW	SE	0	0	08	28	04W	5	WR				
A 31729 00	MUN	NK	G		SW	NW	SW	1960	5205	05	28	04W	2	PD	49.10	0.00		
Same	MUN	NK	G		SW	SW	NW	2645	5205	05	28	04W	3	PD	49.10	0.00		
A 34058 00	THX	NK	G					3994	2775	08	28	04W	6	WR	15.27	15.27		
A 41162 00	REC	NK	G		NE	NW	NE	4911	1867	13	28	05W	1	WR	2.08	2.08		
A 44884 00	MUN	KE	G		SW	NW	SW	1960	5205	05	28	04W	2	WR	131.72	131.72		
A 44885 00	MUN	KE	G		SW	SW	NW	2645	5205	05	28	04W	3	WR	87.80	87.80		
A 45839 00	IRR	NK	G		SW	SW	NW	3263	4788	05	28	04W	6	WR	118.00	118.00	136.00	136.00
Same	IRR	NK	G		SW	SW	NW	3258	4931	05	28	04W	10	WR				
Same	IRR	NK	G		SW	SW	NW	3268	4644	05	28	04W	11	WR				
A 46634 00	IRR	NK	G		NW	NE	SW	2591	3329	05	28	04W	12	WR	39.00	39.00	136.00	0.00
A 48126 00	IRR	KE	G		NW	SE	SW	1003	3627	10	28	04W	6	WR	139.10	139.10	107.00	107.00

Safe Yield Report Sheet
Proposed Water Right Application
Point of Diversion in NWSWSWSE 08-28S-04W

=====



Same		IRR	KE	G	NW	SE	SW	570	3303	10	28	04W	7	WR		
Same		IRR	KE	G	NW	SE	SW	1009	3304	10	28	04W	9	WR		
Same		IRR	KE	G	NW	SE	SW	662	3687	10	28	04W	10	WR		
Same		IRR	KE	G	NW	SE	SW	811	3480	10	28	04W	11	WR		
V SG	5 00	MUN	AA	G	NW	NE	NW	0	0	08	28	04W	1	WR	125.82	125.82
Same		MUN	AA	G	SE	SW	NW	0	0	08	28	04W	2	WR		

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

469 ft N and 2503 ft W of the SE Corner of Section 8, T 28S, R 4W

Located at: 97.779791 West Longitude and 37.619834 North Latitude

GROUNDWATER ONLY

#49466
meets spacing

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit	
A_ 2016	00	MUN	NK	G	4870	SE	CR	SW	SE	-----	-----	5	28	4W	1	42.00	42.00	AF	
Same					2595	--	SE	SW	NE	-----	-----	8	28	4W	3				
Same					2622	--	NE	NW	SW	-----	-----	8	28	4W	4				
A_ 9204	00	MUN	NK	G	4870	SE	CR	SW	SE	-----	-----	5	28	4W	1	91.53	54.36	AF	
Same					2595	--	SE	SW	NE	-----	-----	8	28	4W	3				
Same					2622	--	NE	NW	SW	-----	-----	8	28	4W	4				
Same					1989	--	NE	NW	SE	-----	-----	8	28	4W	5				
A_ 31729	00	MUN	NK	G	7262	--	SW	NW	SW	1960	5205	5	28	4W	2	49.10	.00	AF	
Same					7899	--	SW	SW	NW	2645	5205	5	28	4W	3	49.10	.00	AF	
A_ 34058	00	THX	NK	G	3534	--	--	--	--	3994	2775	8	28	4W	6	15.27	15.27	AF	
A_ 41162	00	REC	NK	G	9994	--	NE	NW	NE	4911	1867	13	28	5W	1	2.08	2.08	AF	
A_ 44884	00	MUN	KE	G	7262	--	SW	NW	SW	1960	5205	5	28	4W	2	131.72	131.72	AF	
A_ 44885	00	MUN	KE	G	7899	--	SW	SW	NW	2645	5205	5	28	4W	3	87.80	87.80	AF	
A_ 45839	00	IRR	NK	G	8353	--	SW	SW	NW	3263	4788	5	28	4W	6 G	2	118.00	118.00	AF
Same					8390	--	SW	SW	NW	3258	4931	5	28	4W	10 B	2			
Same					8318	--	SW	SW	NW	3268	4644	5	28	4W	11 B	2			
A_ 46634	00	IRR	NK	G	7395	--	NW	NE	SW	2591	3329	5	28	4W	12	39.00	39.00	AF	
A_ 48126	00	IRR	KE	G*	9634	--	NW	SE	SW	811	3480	10	28	4W	11 G	4	139.10	139.10	AF
Same					9501	--	NW	SE	SW	1003	3627	10	28	4W	6 B	4			
Same					9800	--	NW	SE	SW	570	3303	10	28	4W	7 B	4			
Same					9823	--	NW	SE	SW	1009	3304	10	28	4W	9 B	4			
Same					9420	--	NW	SE	SW	662	3687	10	28	4W	10 B	4			
A_ 49450	00	IRR	AY	G	9634	--	NW	SE	SW	811	3480	10	28	4W	11 G	4	162.50	.00	AF
Same					9501	--	NW	SE	SW	1003	3627	10	28	4W	6 B	4			
Same					9800	--	NW	SE	SW	570	3303	10	28	4W	7 B	4			
Same					9823	--	NW	SE	SW	1009	3304	10	28	4W	9 B	4			
Same					9420	--	NW	SE	SW	662	3687	10	28	4W	10 B	4			
A_ 49466	00	IRR	AY	G	0	--	SW	SW	SE	469	2503	8	28	4W	8	21.07	21.07	AF	
A_ 49544	00	IRR	AY	G	9200	--	--	--	SW	1320	3960	10	28	4W	12	114.40	114.40	AF	
T_20089035	00	CON	GY	G	2205	--	SE	SE	NW	2660	2755	8	28	4W	7	5.00	5.00	AF	
P_20150341	00	IRR	GY	G	0	--	SW	SW	SE	469	2503	8	28	4W	8	12.28	12.28	AF	
VSG	5	00	MUN	AA	G	4590	--	NW	NE	NW	-----	-----	8	28	4W	1	125.82	125.82	AF
Same					3115	--	SE	SW	NW	-----	-----	8	28	4W	2				

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	135.47	.00
Total Permitted Amount (AF) =	375.89	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	270.72	.00
Total Vested Amount (AF) =	125.82	.00
TOTAL AMOUNT (AF) =	907.91	.00

An * after the source of supply indicates a pending application for change for the file number.

An * after the ID indicates a 15 AF exemption was granted for the file number.

A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery.

The number in the Batt column is the number of wells in the battery.

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

97.779791 West Longitude and 37.619834 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

=====

File Number	Use	ST	SR
-------------	-----	----	----

A__	2016 00	MUN	NK G
-----	---------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

A__	9204 00	MUN	NK G
-----	---------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

A__	31729 00	MUN	NK G
-----	----------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

A__	34058 00	THX	NK G
-----	----------	-----	------

> CITIZENS STATE BANK OF CHENEY KS INC

> ACCOUNTS PAYABLE

> PO BOX 509

> CHENEY KS 67025

A__	41162 00	REC	NK G
-----	----------	-----	------

> RECREATIONAL FILE

>

> GROUNDWATER PIT

> ALLSTATE MO 00000

A__	44884 00	MUN	KE G
-----	----------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

A__	44885 00	MUN	KE G
-----	----------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

A__	45839 00	IRR	NK G
-----	----------	-----	------

> CITY OF CHENEY

>

> PO BOX 1
> CHENEY KS 67025

A__ 46634 00 IRR NK G
> CITY OF CHENEY

>
> PO BOX 1
> CHENEY KS 67025

A__ 48126 00 IRR KE G
> MAX E WELLS
> WELLS M & M DAIRY
> 7069 S 375TH ST W
> CHENEY KS 67025

A__ 49450 00 IRR AY G
> MAX E WELLS
> WELLS M & M DAIRY
> 7069 S 375TH ST W
> CHENEY KS 67025

A__ 49466 00 IRR AY G
> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

A__ 49544 00 IRR AY G
> MAX E WELLS
> WELLS M & M DAIRY
> 7069 S 375TH ST W
> CHENEY KS 67025

T__20089035 00 CON GY G
> FARMERS COOPERATIVE ELEVATOR CO
>
> 401 N MAIN
> GARDEN PLAIN KS 67050

P__20150341 00 IRR GY G
> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

VSG 5 00 MUN AA G
> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

=====

AMOUNT STATISTICS REPORT FOR POINTS OF DIVERSION UNDER A 49466 00

#####

AMOUNT STATISTICS REPORT FOR POINTS OF DIVERSION UNDER A 49466 00 IRR

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

469 Feet North and 2503 Feet West of the Southeast Corner of Section 8 T 28S R 4W

GROUNDWATER ONLY

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Tw	Rng	ID	Batt	Auth	Quan	Add_Quan	Unit
A_ 2016	00	MUN	NK	G	4870	SE	CR	SW	SE	-----	-----	5	28	4W	1		42.00	42.00	AF
Same					2595	--	SE	SW	NE	-----	-----	8	28	4W	3				
Same					2622	--	NE	NW	SW	-----	-----	8	28	4W	4				
A_ 9204	00	MUN	NK	G	4870	SE	CR	SW	SE	-----	-----	5	28	4W	1		91.53	54.36	AF
Same					2595	--	SE	SW	NE	-----	-----	8	28	4W	3				
Same					2622	--	NE	NW	SW	-----	-----	8	28	4W	4				
Same					1989	--	NE	NW	SE	-----	-----	8	28	4W	5				
A_ 31729	00	MUN	NK	G	7262	--	SW	NW	SW	1960	5205	5	28	4W	2		49.10	.00	AF
Same					7899	--	SW	SW	NW	2645	5205	5	28	4W	3		49.10	.00	AF
A_ 34058	00	THX	NK	G	3534	--	--	--	--	3994	2775	8	28	4W	6		15.27	15.27	AF
A_ 41162	00	REC	NK	G	9994	--	NE	NW	NE	4911	1867	13	28	5W	1		2.08	2.08	AF
A_ 44884	00	MUN	KE	G	7262	--	SW	NW	SW	1960	5205	5	28	4W	2		131.72	131.72	AF
A_ 44885	00	MUN	KE	G	7899	--	SW	SW	NW	2645	5205	5	28	4W	3		87.80	87.80	AF
A_ 45839	00	IRR	NK	G	8353	--	SW	SW	NW	3263	4788	5	28	4W	6 G 2		118.00	118.00	AF
Same					8390	--	SW	SW	NW	3258	4931	5	28	4W	10 B 2				
Same					8318	--	SW	SW	NW	3268	4644	5	28	4W	11 B 2				
A_ 46634	00	IRR	NK	G	7395	--	NW	NE	SW	2591	3329	5	28	4W	12		39.00	39.00	AF
A_ 48126	00	IRR	KE	G*	9634	--	NW	SE	SW	811	3480	10	28	4W	11 G 4		139.10	139.10	AF
Same					9501	--	NW	SE	SW	1003	3627	10	28	4W	6 B 4				
Same					9800	--	NW	SE	SW	570	3303	10	28	4W	7 B 4				
Same					9823	--	NW	SE	SW	1009	3304	10	28	4W	9 B 4				
Same					9420	--	NW	SE	SW	662	3687	10	28	4W	10 B 4				
A_ 49450	00	IRR	AY	G	9634	--	NW	SE	SW	811	3480	10	28	4W	11 G 4		162.50	.00	AF
Same					9501	--	NW	SE	SW	1003	3627	10	28	4W	6 B 4				
Same					9800	--	NW	SE	SW	570	3303	10	28	4W	7 B 4				
Same					9823	--	NW	SE	SW	1009	3304	10	28	4W	9 B 4				
Same					9420	--	NW	SE	SW	662	3687	10	28	4W	10 B 4				
A_ 49466	00	IRR	AY	G	469	--	SW	SW	SE	469	2503	8	28	4W	8		21.07	21.07	AF
A_ 49544	00	IRR	AY	E	9200	--	--	--	SW	1320	3960	10	28	4W	12		114.40	114.40	AF
T 20089	35	00	CON	GY	G	2205	--	SE	SE	NW	2660	2755	8	28	4W	7	5.00	5.00	AF
P 20150	41	00	IRR	GY	G	0	--	SW	SW	SE	469	2503	8	28	4W	8	12.28	12.28	AF
VSG	5	00	MUN	AA	G	4590	--	NW	NE	NW	-----	-----	8	28	4W	1	125.82	125.82	AF
Same					3115	--	SE	SW	NW	-----	-----	8	28	4W	2				

Total Net Quantities Authorized:	Direct	Storage
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TOTAL AMOUNT (AF) =	907.91	.00

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469 Feet North and 2503 Feet West of the Southeast Corner of Section 8 T 28S R 4W

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

=====

File Number	Use	ST	SR
-------------	-----	----	----

A__	2016 00	MUN	NK G
-----	---------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

>-----

A__	9204 00	MUN	NK G
-----	---------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

>-----

A__	31729 00	MUN	NK G
-----	----------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

>-----

A__	34058 00	THX	NK G
-----	----------	-----	------

> CITIZENS STATE BANK OF CHENEY KS INC

> ACCOUNTS PAYABLE

> PO BOX 509

> CHENEY KS 67025

>-----

A__	41162 00	REC	NK G
-----	----------	-----	------

> RECREATIONAL FILE

>

> GROUNDWATER PIT

> ALLSTATE MO 00000

>-----

A__	44884 00	MUN	KE G
-----	----------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

>-----

A__	44885 00	MUN	KE G
-----	----------	-----	------

> CITY OF CHENEY

>

> PO BOX 1

> CHENEY KS 67025

>-----

A__	45839 00	IRR	NK G
-----	----------	-----	------

> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

A__ 46634 00 IRR NK G
> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

A__ 48126 00 IRR KE G
> MAX E WELLS
> WELLS M & M DAIRY
> 7069 S 375TH ST W
> CHENEY KS 67025

A__ 49450 00 IRR AY G
> MAX E WELLS
> WELLS M & M DAIRY
> 7069 S 375TH ST W
> CHENEY KS 67025

A__ 49466 00 IRR AY G
> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

A__ 49544 00 IRR AY G
> MAX E WELLS
> WELLS M & M DAIRY
> 7069 S 375TH ST W
> CHENEY KS 67025

T_20089035 00 CON GY G
> FARMERS COOPERATIVE ELEVATOR CO
>
> 401 N MAIN
> GARDEN PLAIN KS 67050

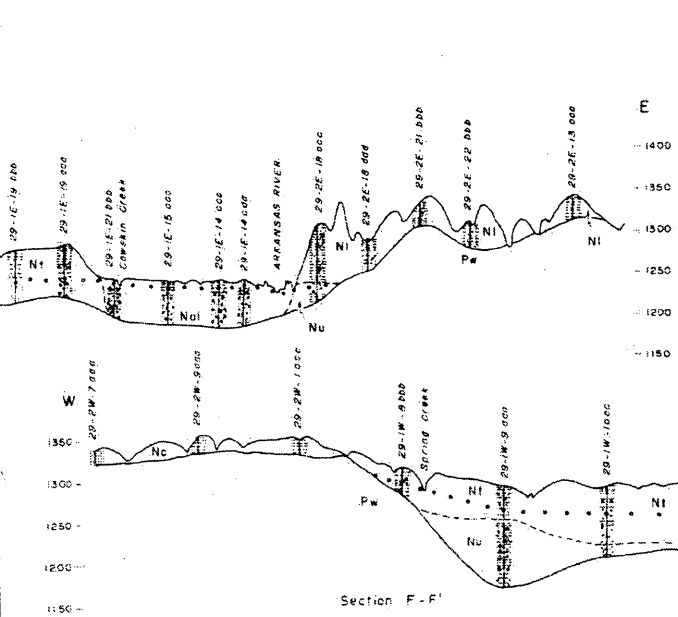
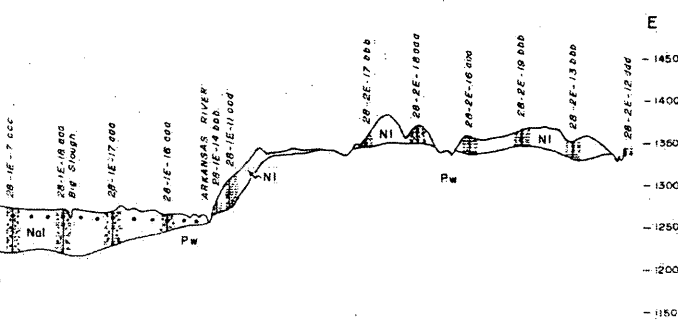
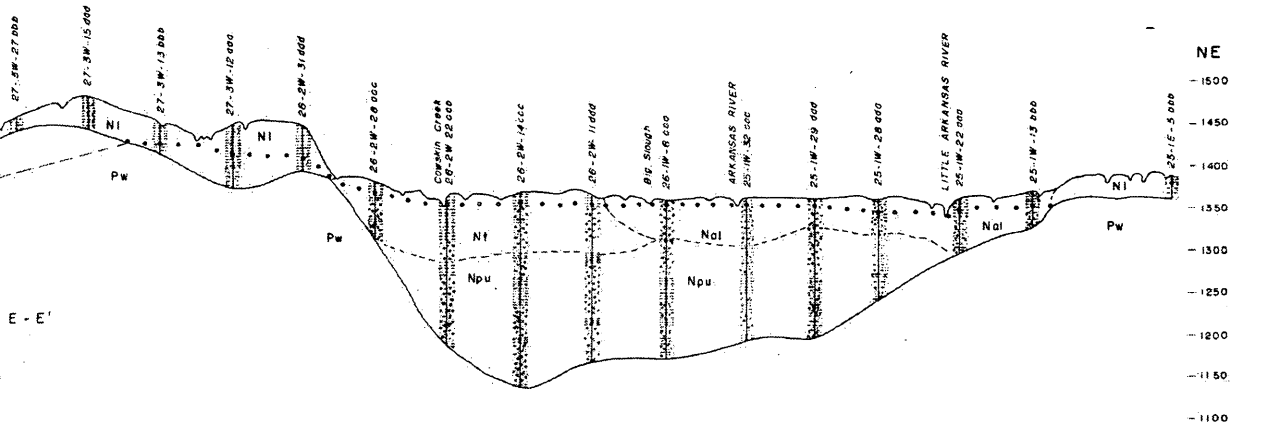
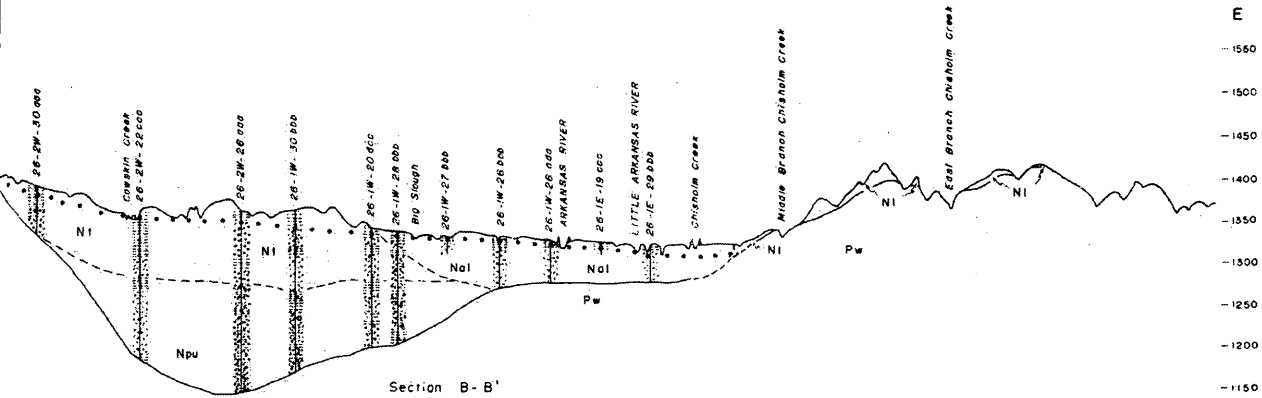
P_20150341 00 IRR GY G
> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

VSG 5 00 MUN AA G
> CITY OF CHENEY
>
> PO BOX 1
> CHENEY KS 67025

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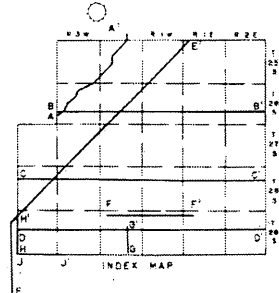
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EXPLANATION

	Silt	Nal	Recent alluvium and Wisconsinan terrace deposits
	Silt with caliche	Ni	Undifferentiated, loess deposits
	Sandy silt	Nc	Colluvium
	Sand and gravel	Nt	Illinoisian terrace deposits
	Silty sand and gravel	Nu	Lower Pleistocene deposits, undifferentiated
	Volcanic ash	Npu	Pliocene and Lower Pleistocene, undifferentiated
	Water table	Pn	Ninnesch Shale
		Pw	Wellington Formation

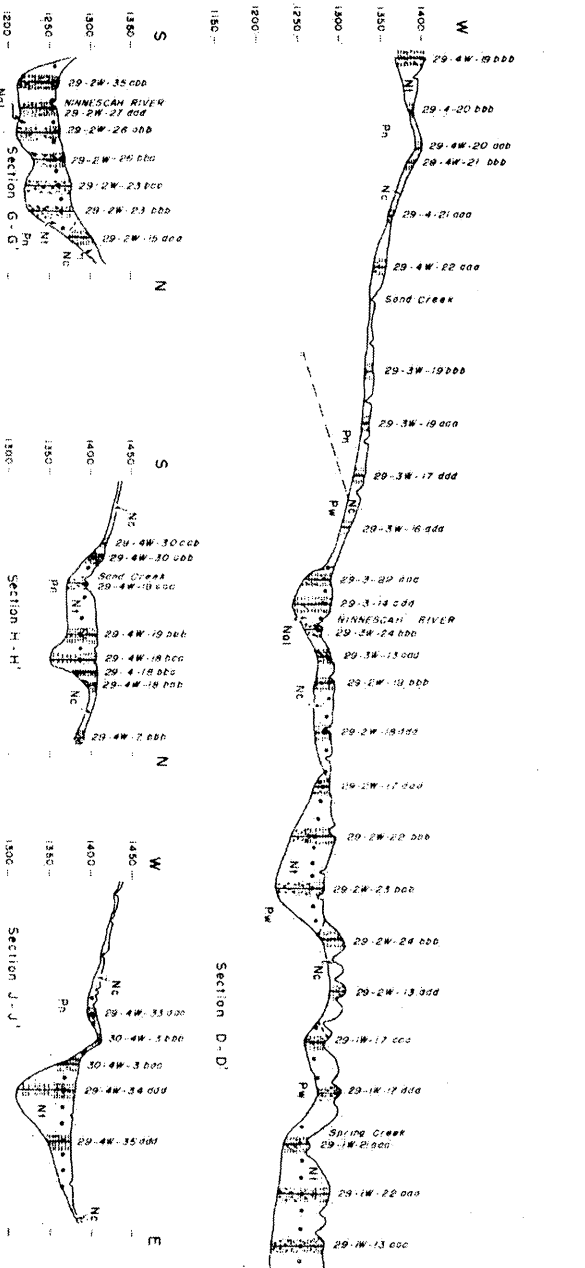
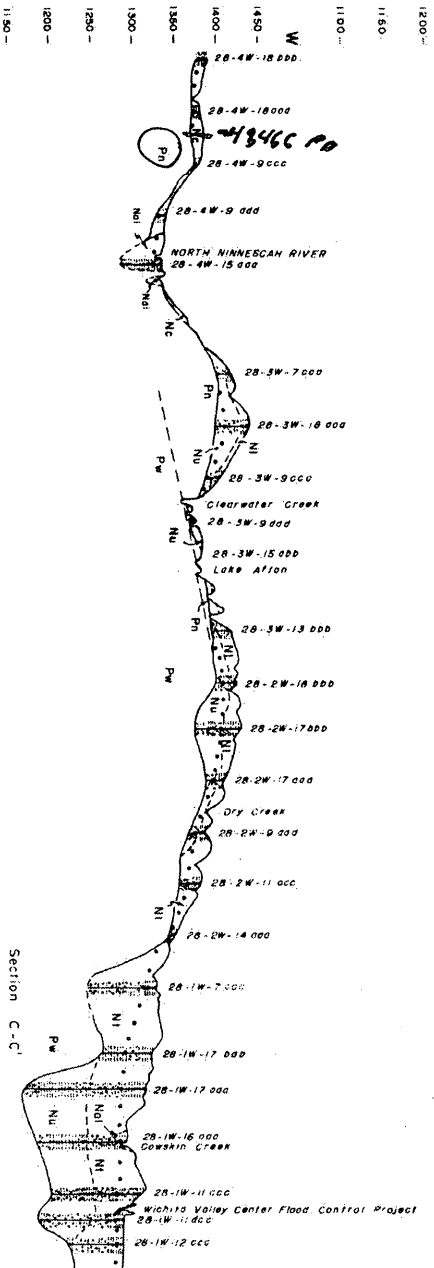
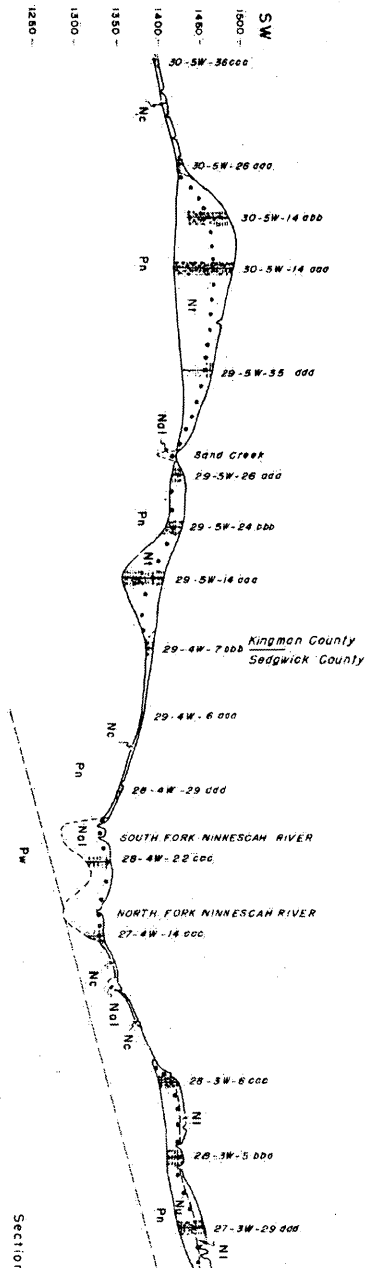
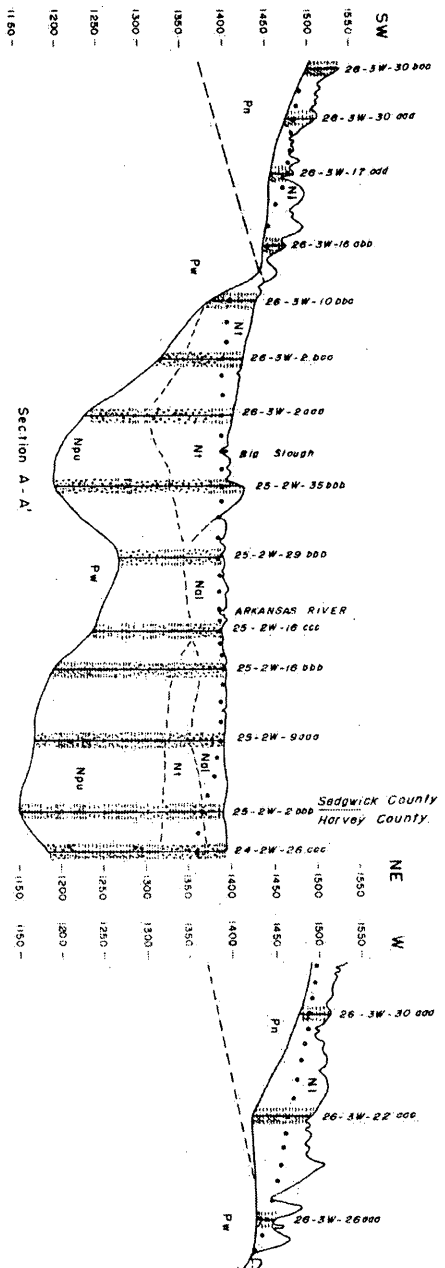
Altitude given in feet above mean sea-level



GEOLOGIC CROSS SECTIONS

State Geological Survey
of Kansas

by Charles W. Lan



Section G-G', Section H-H', Section J-J', Section D-D'

Extra Info

Not S.V.

Water Use comparison in 2 mile area
755.16 - 354.05 = 401.11 AF appropriated
~~354.05~~

Analysis Results

The selected PD is in an area to new appropriations.
The safe yield, based on the variables listed below is 1,085.67 AF.
Total prior appropriation in the circle is 890.63 AF. - ~~135.47~~
Total quantity of water available for appropriation is 195.04 AF.

Safe Yield Variables

The area used for the analysis is set at 8,042 acres.
Potential annual recharge of the area is estimated to be 2.16 inches.
The percent of recharge available for appropriation is 75%.

354.05
459.05 AF city, does not appear most wells in 2 mile area
Active.

Authorized Quantity values are as of 17-MAY-2016 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 14 water right(s) and 21 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 2016 00	MUN	NK	G		NE	NW	SW	0	0	08	28	04W	4	WR	42.00	42.00		
Same	MUN	NK	G		SE	SW	NE	0	0	08	28	04W	3	WR				
Same	MUN	NK	G	SE	CR	SW	SE	0	0	05	28	04W	1	WR				
A 9204 00	MUN	NK	G		NE	NW	SW	0	0	08	28	04W	4	WR	91.53	54.36		
Same	MUN	NK	G		SE	SW	NE	0	0	08	28	04W	3	WR				
Same	MUN	NK	G	SE	CR	SW	SE	0	0	05	28	04W	1	WR				
Same	MUN	NK	G		NE	NW	SE	0	0	08	28	04W	5	WR				
A 31729 00	MUN	NK	G		SW	NW	SW	1960	5205	05	28	04W	2	PD	49.10	0.00		
Same	MUN	NK	G		SW	SW	NW	2645	5205	05	28	04W	3	PD	49.10	0.00		
A 34058 00	THX	NK	G					3994	2775	08	28	04W	6	WR	15.27	15.27		
A 41162 00	REC	NK	G		NE	NW	NE	4911	1867	13	28	05W	1	WR	2.08	2.08		
A 44884 00	MUN	KE	G		SW	NW	SW	1960	5205	05	28	04W	2	WR	131.72	131.72		
A 44885 00	MUN	KE	G		SW	SW	NW	2645	5205	05	28	04W	3	WR	87.80	87.80		
A 45839 00	IRR	NK	G		SW	SW	NW	3263	4788	05	28	04W	6	WR	118.00	118.00	136.00	136.00
Same	IRR	NK	G		SW	SW	NW	3258	4931	05	28	04W	10	WR				
Same	IRR	NK	G		SW	SW	NW	3268	4644	05	28	04W	11	WR				
A 46634 00	IRR	NK	G		NW	NE	SW	2591	3329	05	28	04W	12	WR	39.00	39.00	136.00	0.00
A 48126 00	IRR	KE	G		NW	SE	SW	1003	3627	10	28	04W	6	WR	139.10	139.10	107.00	107.00
Same	IRR	KE	G		NW	SE	SW	570	3303	10	28	04W	7	WR				
Same	IRR	KE	G		NW	SE	SW	1009	3304	10	28	04W	9	WR				
Same	IRR	KE	G		NW	SE	SW	662	3687	10	28	04W	10	WR				
Same	IRR	KE	G		NW	SE	SW	811	3480	10	28	04W	11	WR				
A 49450 00	IRR	AY	G		NW	SE	SW	1003	3627	10	28	04W	6	WR	162.50	0.00	125.00	0.00
Same	IRR	AY	G		NW	SE	SW	570	3303	10	28	04W	7	WR				
Same	IRR	AY	G		NW	SE	SW	1009	3304	10	28	04W	9	WR				
Same	IRR	AY	G		NW	SE	SW	662	3687	10	28	04W	10	WR				
Same	IRR	AY	G		NW	SE	SW	811	3480	10	28	04W	11	WR				
A 49466 00	IRR	AY	G		SW	SW	SE	469	2503	08	28	04W	8	WR	21.07	21.07	16.22	16.22
A 49544 00	IRR	AY	G				SW	1320	3960	10	28	04W	12	WR	114.40	114.40	88.00	69.00
V SG 5 00	MUN	AA	G		NW	NE	NW	0	0	08	28	04W	1	WR	125.82	125.82		
Same	MUN	AA	G		SE	SW	NW	0	0	08	28	04W	2	WR				

< 1 AF reported

0 AF reported

in use (on 101 AF)

20 0 AF reported

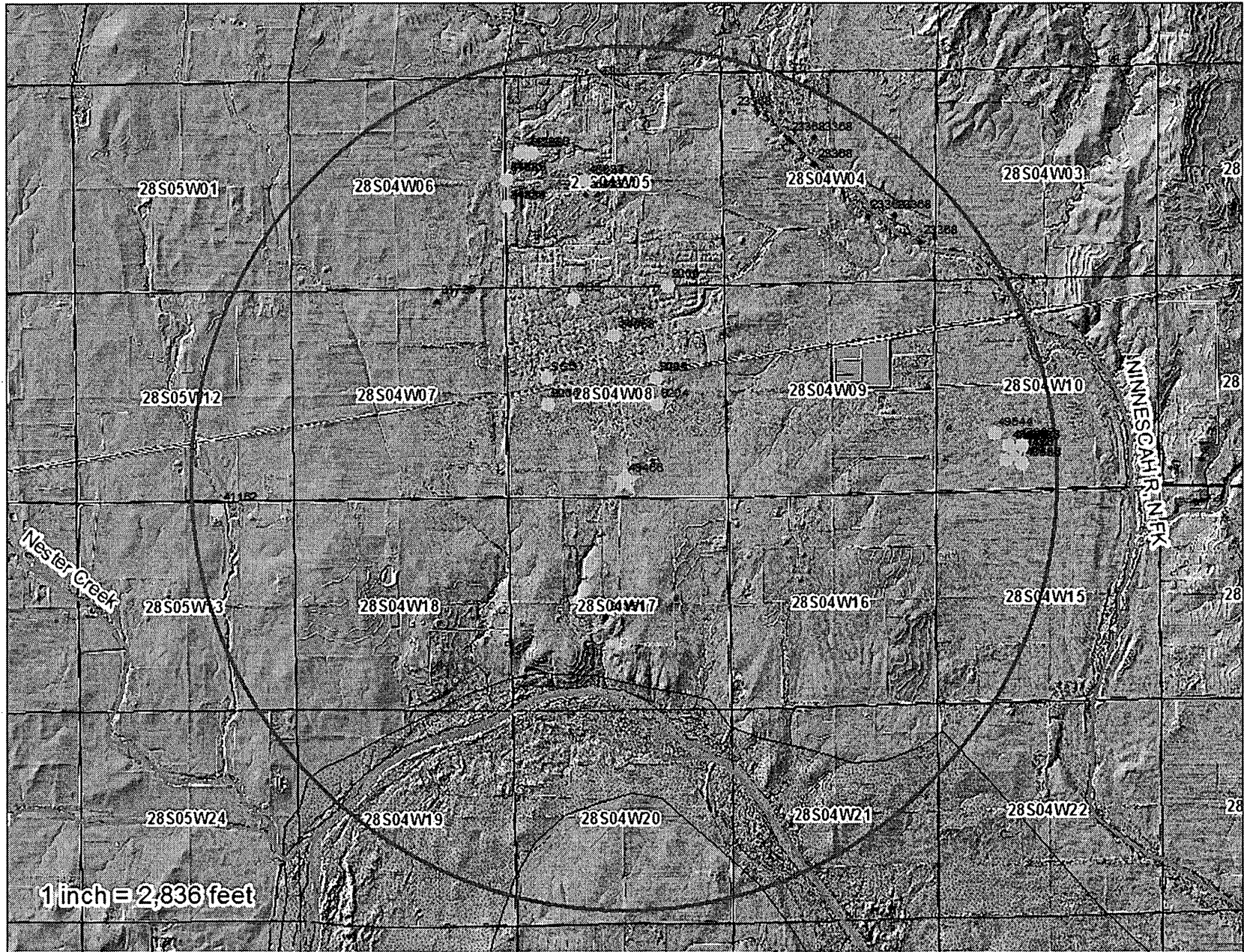
0 AF

0 AF

135.47

< 1 AF reported

Safe Yield Report Sheet
Proposed Water Right Application
Point of Diversion in NWSWSWSE 08-28S-04W





Sedgwick County
working for you

Property Information Report

Owner Name: CHENEY KANSAS SCHOOL DISTRICT USD 268
PIN Number: 30004873
AIN: 087173080340000102
Geocode: MO CH00015001A

Owner Address

Owner Name: CHENEY KANSAS SCHOOL DISTRICT USD 268
Owner Address: 100 W 6TH ST
Owner City: CHENEY
Owner State: KS
Owner ZIP: 67025-8997

Property Address

Property Address: null
Property City: null
Property State: KS
Property ZIP: null

Appraised Values

Appraised Land Value: \$107,900
Appraised Improvement Value: \$0
Appraised Total Value: \$107,900

Assessed Values

Assessed Land Value: \$0
Assessed Improvement Value: \$0
Assessed Total Value: \$0

Land Information

Total Acres: 4.94427
Total Square Feet: 215,373
Sec-Twp-Range: 08-T28S-R4W
Township: Morton

Abbreviated Legal Description:

COMM AT PT ON W LI OF MAIN ST EXTENDED INTERSECTS S LI SAID SEC 8 TH NWLY ALG SAID EXTENDED W LI 667.89 FT TO POB W 685.27 FT NWLY 262.73 FT NELY 678.16 FT TO W LI SAID MAIN ST SELY 369.15 FT TO BEG

SE 1/4 & SW 1/4 SEC 8-28-4W

Improvement Information

Year Built: null
Year Last Sold: null
Style: null
Basement Type: null
Arch Style Desc: null
Neighborhood Code: 846.4

Living Unit: null
Bedrooms: null
Bathrooms: null
Half Bath: null

Total Sq Ft: null
Ground Floor Sq Ft: null

Election Information

Precinct: MO
Polling Place: Cheney Baptist Church
 1502 N MAIN ST
 CHENEY, KS 67025

County Commissioner: Karl Peterjohn
City Council: null
Board of Education: Jim McNiece
State Senate: Dan Kerschen
State Rep: John Whitmer

Other Information

Unified School District: 268
Fire District: Cheney
Tax Unit: 53-01



Sedgwick County...
working for you

Property Information Report

Owner Name: WOOLF MELVIN R REV TR
PIN Number: 00282882
AIN: 087173080340000100
Geocode: MO CH00015

Owner Address

Owner Name: WOOLF MELVIN R REV TR
Owner Address: 20159 VALHALLA SQ
Owner City: ASHBURN
Owner State: VA
Owner ZIP: 20147-4105

Property Address

Property Address: 731 S MAIN ST
Property City: CHENEY
Property State: KS
Property ZIP: 67025

Appraised Values

Appraised Land Value: \$4,760
Appraised Improvement Value: \$0
Appraised Total Value: \$4,760

Assessed Values

Assessed Land Value: \$1,428
Assessed Improvement Value: \$0
Assessed Total Value: \$1,428

Land Information

Total Acres: 16.6579
Total Square Feet: 725,618
Sec-Twp-Range: 08-T28S-R4W
Township: Morton

Abbreviated Legal Description:

BEG SE COR SW1/4 TH W 1370.75 FT N 660 FT E 1617.21 FT TO W LI MAIN ST SLY ALG W LI MAIN ST TO S LI SE1/4 W 341.15 FT TO BEG EXC BEG SE COR SW 1/4 TH W 147.12 FT N 39.9 FT NWLY 631.51 FT E 505.42 FT TO W LI MAIN ST SELY 667.89 FT W 341.13 FT TO BEG EXC S 40 FT FOR RD & EXC TH PT TKN FOR ROW SE1/4 & SW1/4 SEC 8-28-

Improvement Information

Year Built: null
Year Last Sold: 2005
Style: null
Basement Type: null
Arch Style Desc: null
Neighborhood Code: 846.4

Living Unit: null
Bedrooms: null
Bathrooms: null
Half Bath: null

Total Sq Ft: null
Ground Floor Sq Ft: null

Election Information

Precinct: MO
Polling Place: Cheney Baptist Church
1502 N MAIN ST
CHENEY, KS 67025

County Commissioner: Karl Peterjohn
City Council: null
Board of Education: Jim McNiece
State Senate: Dan Kerschen
State Rep: John Whitmer

Other Information

Unified School District: 268
Fire District: Cheney

Tax Unit: 53-01



Sedgwick County...
working for you

Property Information Report

Owner Name: CHENEY KANSAS SCHOOL DISTRICT USD 268
PIN Number: 30004874
AIN: 087173080340000103
Geocode: MO CH000150002

Owner Address

Owner Name: CHENEY KANSAS SCHOOL DISTRICT USD 268
Owner Address: 100 W 6TH ST
Owner City: CHENEY
Owner State: KS
Owner ZIP: 67025-8997

Property Address

Property Address: null
Property City: null
Property State: KS
Property ZIP: null

Appraised Values

Appraised Land Value: \$31,500
Appraised Improvement Value: \$0
Appraised Total Value: \$31,500

Assessed Values

Assessed Land Value: \$7,875
Assessed Improvement Value: \$0
Assessed Total Value: \$7,875

Land Information

Total Acres: 7.01217
Total Square Feet: 305,450
Sec-Twp-Range: 08-T28S-R4W
Township: Morton

Abbreviated Legal Description:

BEG SE COR SW 1/4 TH W 147.12 FT N 39.9 FT NWLY 631.51 FT E
 505.42 FT TO
 W LI MAIN ST SELY 667.89 FT W 341.13 FT TO BEG
 SE 1/4 & SW 1/4 SEC 8-28-4W

Improvement Information

Year Built: null
Year Last Sold: null
Style: null
Basement Type: null
Arch Style Desc: null
Neighborhood Code: 846.4

Living Unit: null
Bedrooms: null
Bathrooms: null
Half Bath: null

Total Sq Ft: null
Ground Floor Sq Ft: null

Election Information

Precinct: MO
Polling Place: Cheney Baptist Church
 1502 N MAIN ST
 CHENEY, KS 67025

County Commissioner: Karl Peterjohn
City Council: null
Board of Education: Jim McNiece
State Senate: Dan Kerschen
State Rep: John Whitmer

Other Information

Unified School District: 268
Fire District: Cheney

Tax Unit: 53-01



Sedgwick County
working for you

Property Information Report

Owner Name: CHENEY RECREATION COMMISSION
PIN Number: 00443856
AIN: 087173080340000101
Geocode: MO CH000150001

Owner Address

Owner Name: CHENEY RECREATION COMMISSION
Owner Address: 100 W 6TH AVE
Owner City: CHENEY
Owner State: KS
Owner ZIP: 67025-8997

Property Address

Property Address: null
Property City: null
Property State: KS
Property ZIP: null

Appraised Values

Appraised Land Value: \$178,800
Appraised Improvement Value: \$0
Appraised Total Value: \$178,800

Assessed Values

Assessed Land Value: \$0
Assessed Improvement Value: \$0
Assessed Total Value: \$0

Land Information

Total Acres: 8.55914
Total Square Feet: 372,836
Sec-Twp-Range: 08-T28S-R4W
Township: Morton

Abbreviated Legal Description:

BEG AT PT ON W LI MAIN ST & 667.81 FT NLY OF S LI SE1/4 TH W 685.39 FT

NLY 814.61 FT ELY 678.54 FT TO W LI MAIN ST SLY ALG W LI 920.35 FT TO BEG EXC PART COMM AT PT ON W LI OF MAIN ST EXTENDED INTERSECTS S LI SAID SEC 8 TH NWLY ALG SAID EXTENDED W LI 667.89 FT TO POB W 685.27 FT NWLY 262.73 FT NELY 678.16 FT TO W LI SAID MAIN ST SELY 369.15 FT TO BEG

SE1/4 & SW1/4 SEC 8-28-4W

Improvement Information

Year Built: null
Year Last Sold: 1997
Style: null
Basement Type: null
Arch Style Desc: null
Neighborhood Code: 846.4

Living Unit: null
Bedrooms: null
Bathrooms: null
Half Bath: null

Total Sq Ft: null
Ground Floor Sq Ft: null

Election Information

Precinct: MO
Polling Place: Cheney Baptist Church
 1502 N MAIN ST
 CHENEY, KS 67025

County Commissioner: Karl Peterjohn
City Council: null
Board of Education: Jim McNiece
State Senate: Dan Kerschen
State Rep: John Whitmer

Other Information

Unified School District: 268
Fire District: Cheney

Tax Unit: 53-01

Meier, Matt

From: Lanterman, Jeff
Sent: Thursday, May 19, 2016 10:17 AM
To: Meier, Matt
Subject: FW: File NO. 49,466 City of Cheney temp. application

I couldn't tell if you got a copy of this.

-----Original Message-----

From: jeffroe1@att.net [<mailto:jeffroe1@att.net>]
Sent: Thursday, May 19, 2016 9:17 AM
To: Lanterman, Jeff <Jeff.Lanterman@KDA.KS.GOV>
Subject: File NO. 49,466 City of Cheney temp. application

Dear Sir:

I am very concerned that if the permit is approved for a 120 gal per minute irrigation well at the Cheney Ball Diamond development this may run us out of water.

Because of my concern and with no assurances I am opposed to the pending application file NO. 49, 466.

As rural land and home owners, please take into consideration our dependence of our water needs.

Sincerely,

Linda Roeder
39407 W 39th St S
Cheney, KS 67025

Sent from my iPad

RECEIVED
MAY 19 2016
Stafford Field Office
Division of Water Resources

Meier, Matt

From: Leonard Miller Jr. <leonardshel@sbcglobal.net>
Sent: Wednesday, May 18, 2016 10:04 AM
To: Lanterman, Jeff; Meier, Matt
Subject: regarding pending application file No.49,466

Dear Sirs,

this is a letter to continue to implore your denial of the request for the use of the well that was drilled at the Cheney ball diamond for irrigation. We are all families and/or stock owners in the rural area just out of Cheney and have no other water options than our personal wells which have served us well. Our fears as home and landowners are legitimate and require immediate consideration on your part. We have been worthy and conscientious stewards and conservators of our groundwater and our wish is that we are allowed to continue without fear of being dried out by the well that is considerably deeper and will drain our wells long before it is a problem to the city of Cheney and too late to correct.

Sincerely,

Leonard T. Jr. and Shellie Miller
39198 W. 39th S.
Cheney, Ks. 67025
(316)540-3582

RECEIVED

MAY 18 2016

RECEIVED

MAY 18 2016

Field Office
Water Resources

Meier, Matt

From: Russ Harrison <hmbison@gmail.com>
Sent: Tuesday, May 17, 2016 12:11 PM
To: Jeff.Lantrman@KDA.ks.gov; Meier, Matt
Cc: david.woodard@necanet.org; Russ Harrison
Subject: File No. 49,466 City of Cheney temp application

Here is link to information about the Subarea D-2 which would include you and the ball fields.

<http://www.kgs.ku.edu/General/Geology/Sedgwick/gw06.html>

Here is the copied text about subarea D-2.

“The occurrence of ground water, within Subarea D2 is not uniform; in general well yields are small, but adequate for farm and domestic use. The land surface within the subarea slopes toward the major streams and is underlain in part by loess and some colluvium and locally by only a soil over bedrock. The northeastern part of the subarea flanking the Arkansas Valley is underlain by loess that locally attains a thickness of about 75 feet and contains sandy zones near the base. The lower part of the loess is saturated, and wells penetrating sandy zones obtain adequate water for domestic and stock use. In those parts of Subarea D2 flanking the Ninnescah Valley, the loess and colluvium are thin, and the water table is commonly in bedrock. Wells penetrating the Ninnescah Shale are usually less than 100 feet in depth, and the water is believed to occur in crevices, solution openings, and bedding planes within the weathered part of the formation. Well yields from the Ninnescah Shale generally are larger than from the Wellington Formation and may range from 1 gpm to as much as 75 gpm depending on the number of openings penetrated by the well. The well yield that might be expected at a particular location cannot be predicted, but a supply adequate for domestic and stock use can be developed in most of the subarea.”

My findings on our water issues with the well at the Cheney ball diamonds this zone will run us out of water if this permit is approved for a 120 gallon per minute irrigation well pumping 4 million gallon out of our zone. Impairment on our existing water rights will lower our static water level. If this well is allowed to be used for irrigation it will run our households out of drinking water and daily needs in a rural community. Please take in to consideration of our dependence of our water needs as homeowners.

Russ Harrison and opposed signers of Pending application file NO. 49,466

RECEIVED

MAY 17 2016

Stafford Field Office
Division of Water Resources


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

May 9, 2016

Farmers Coop Elevator Company
Attn: Terry Kohler
P.O. Box 340
Cheney KS 67025

Re: Pending Application, File No. 49,466

This will acknowledge receipt of your letter, received in this office on May 2, 2016 in which you expressed concerns regarding the proposed appropriation of groundwater by the City of Cheney under the above referenced application. The application is proposing to appropriate groundwater for irrigation use. In the letter you mentioned you were concerned about when the well was drilled and its possible impact on your remediation work with the KDHE.

In regards to your first point the "proposed well" was drilled in October, 2015 and has already been in use. The city applied for temporary permits (permits for less than 6 months and limited to 4 million gallons or less) to cover the use. They submitted these permits prior to taking any action. This is similar to the term permit currently covering Farmers Coop remediation use and subsequent reuse for mixing water for the Coop's sprayer operations, **these are non-permanent water rights and any continued use of the water after the permit expires is illegal.** Since Cheney has an active temporary permit any pumping they perform, within the limits of the permit, is legal.

In response to your second request, we have been in contact with the KDHE to determine if Cheney's application would negatively impact the remediation efforts the Cheney Coop is taking to clean up the Coop's past Nitrate and Carbon Tetrachloride contaminations. We were informed by the KDHE that they did not anticipate any issues regarding the operation of Cheney's irrigation well and that they would continue to monitor the area should the application be approved.

We are in the process of thoroughly reviewing this pending application to ensure that it complies with the Kansas Water Appropriation Act and applicable rules and regulations. The Chief Engineer is required to approve applications for water appropriation unless the proposed appropriation will impair existing water rights or prejudicially and unreasonably affect the public interest. Impairment is indicated if existing water rights will experience an unreasonable lowering of the static water level.

Additionally, the rules and regulations (K.A.R. 5-4-1) require the Chief Engineer to investigate any complaint that a prior right to the use of water is being impaired. If such impairment is found, the Chief Engineer must secure water to satisfy prior water rights. Therefore, if this permit application is approved by the Chief Engineer and you believe the diversion of water is impairing your water right, you should notify Jeff Lanterman, Water Commissioner, Stafford Field Office, as follows, so that an investigation can be made.

Division of Water Resources
Stafford Field Office
300 S Main Street
Stafford, Kansas 67578-1342
Telephone: 620-234-5311

If an applicant without cause fails to comply with the provisions of the permit and its terms, conditions and limitations, it could result in the forfeiture of the priority date, revocation of the permit and dismissal of the application. If you have any further questions, please contact me at 620-234-5311. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

SCANNED

Sincerely,

Matt Meier
New Application Unit
Water Appropriation Program


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

May 6, 2016

David Woodard
38729 W 39th S
Cheney, KS 67025

Re: Pending Application, File No. 49,466

This will acknowledge receipt of your group letter, received in this office on May 4, 2016 in which you expressed concerns regarding the proposed appropriation of groundwater by the City of Cheney under the above referenced application. The application is proposing to appropriate groundwater for irrigation use. In the letter multiple concerns were listed including possible impact on nearby wells, the city adding more wells/increasing water use, some well owners not being notified, and the well already being in use.

We are in the process of thoroughly reviewing this pending application to ensure that it complies with the Kansas Water Appropriation Act and applicable rules and regulations. The Chief Engineer is required to approve applications for water appropriation unless the proposed appropriation will impair existing water rights or prejudicially and unreasonably affect the public interest. Impairment is indicated if existing water rights will experience an unreasonable lowering of the static water level.

The applicable rules and regulations (K.A.R. 5-4-4) require that new non-domestic wells must meet specific spacing guidelines based on the source of water supply in order to minimize the potential that existing water wells of any kind would be impaired. The source of water (aquifer) for this pending application appears to be Permian System deposits (likely either the Ninnescah Shale or Wellington Formations), based on the test hole log that was submitted. This source of water requires a minimum well spacing of 660 feet from any existing domestic well. Based on the location of the nearby domestic wells, it appears that the closest well is approximately 900 feet from the proposed well, and the application complies with minimum well spacing criterion.

Under the current application the city is only authorized one (1) well and a quantity of 21.07 Acre-feet of water for irrigation use. If the application is approved and the city uses a quantity in excess of 21.07 acre-feet per year they will face fines, reductions, suspensions, and possibly revocation of the water right, if approved. Additionally, adding any additional wells or using the water for any other purpose asides from irrigation use would be illegal and result in fines and possible suspension of the water right.

For certain owners not being notified it is likely the result of their wells being located further than ½ mile from the proposed well, which is the cutoff for sending out nearby well notification letters, or the engineering group responsible for identifying nearby well owners missed them.

The well was drilled in October, 2015 and has already been legally in use. The city applied for temporary permits (permits for less than 6 months and limited to 4 million gallons or less) to cover the use. Nearby notification letters are not sent out on temporary permits as they are not a permanent water right and go away once the time period expires unless renewed. Should the new application not be approved the city will be required to cease using the well once their temporary permit expires.

SCANNED



Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Department of Agriculture
Division of Water Resources

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Sam Brownback, Governor

Additionally, the rules and regulations (K.A.R. 5-4-1) require the Chief Engineer to investigate any complaint that a prior right to the use of water is being impaired. If such impairment is found, the Chief Engineer must secure water to satisfy prior water rights. Therefore, if this permit application is approved by the Chief Engineer and you believe the diversion of water is impairing your water right, you should notify Jeff Lanterman, Water Commissioner, Stafford Field Office, as follows, so that an investigation can be made.

Division of Water Resources
Stafford Field Office
300 S Main Street
Stafford, Kansas 67578-1342
Telephone: 620-234-5311

If an applicant without cause fails to comply with the provisions of the permit and its terms, conditions and limitations, it could result in the forfeiture of the priority date, revocation of the permit and dismissal of the application. If you have any further questions, please contact me at 620-234-5311. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,

Matt Meier
New Application Unit
Water Appropriation Program

pc:

SCANNED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

May 6, 2016

Troy Presley
4150 S 375th W
Cheney, KS 67025

Re: Pending Application, File No. 49,466

This will acknowledge receipt of your group letter, received in this office on May 4, 2016 in which you expressed concerns regarding the proposed appropriation of groundwater by the City of Cheney under the above referenced application. The application is proposing to appropriate groundwater for irrigation use. In the letter multiple concerns were listed including possible impact on nearby wells, the city adding more wells/increasing water use, some well owners not being notified, and the well already being in use.

We are in the process of thoroughly reviewing this pending application to ensure that it complies with the Kansas Water Appropriation Act and applicable rules and regulations. The Chief Engineer is required to approve applications for water appropriation unless the proposed appropriation will impair existing water rights or prejudicially and unreasonably affect the public interest. Impairment is indicated if existing water rights will experience an unreasonable lowering of the static water level.

The applicable rules and regulations (K.A.R. 5-4-4) require that new non-domestic wells must meet specific spacing guidelines based on the source of water supply in order to minimize the potential that existing water wells of any kind would be impaired. The source of water (aquifer) for this pending application appears to be Permian System deposits (likely either the Ninescah Shale or Wellington Formations), based on the test hole log that was submitted. This source of water requires a minimum well spacing of 660 feet from any existing domestic well. Based on the location of the nearby domestic wells, it appears that the closest well is approximately 900 feet from the proposed well, and the application complies with minimum well spacing criterion.

Under the current application the city is only authorized one (1) well and a quantity of 21.07 Acre-feet of water for irrigation use. If the application is approved and the city uses a quantity in excess of 21.07 acre-feet per year they will face fines, reductions, suspensions, and possibly revocation of the water right, if approved. Additionally, adding any additional wells or using the water for any other purpose asides from irrigation use would be illegal and result in fines and possible suspension of the water right.

For certain owners not being notified it is likely the result of their wells being located further than ½ mile from the proposed well, which is the cutoff for sending out nearby well notification letters, or the engineering group responsible for identifying nearby well owners missed them.

The well was drilled in October, 2015 and has already been legally in use. The city applied for temporary permits (permits for less than 6 months and limited to 4 million gallons or less) to cover the use. Nearby notification letters are not sent out on temporary permits as they are not a permanent water right and go away once the time period expires unless renewed. Should the new application not be approved the city will be required to cease using the well once their temporary permit expires.

SCANNED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
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Jeff Lanterman, Water Commissioner

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Sam Brownback, Governor

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Stafford Field Office
300 S Main Street
Stafford, Kansas 67578-1342
Telephone: 620-234-5311

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Sincerely,



Matt Meier
New Application Unit
Water Appropriation Program

pc:

SCANNED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

May 6, 2016

Brian Connor
4000 S. 375th W
Cheney, KS 67025

Re: Pending Application, File No. 49,466

This will acknowledge receipt of your group letter, received in this office on May 4, 2016 in which you expressed concerns regarding the proposed appropriation of groundwater by the City of Cheney under the above referenced application. The application is proposing to appropriate groundwater for irrigation use. In the letter multiple concerns were listed including possible impact on nearby wells, the city adding more wells/increasing water use, some well owners not being notified, and the well already being in use.

We are in the process of thoroughly reviewing this pending application to ensure that it complies with the Kansas Water Appropriation Act and applicable rules and regulations. The Chief Engineer is required to approve applications for water appropriation unless the proposed appropriation will impair existing water rights or prejudicially and unreasonably affect the public interest. Impairment is indicated if existing water rights will experience an unreasonable lowering of the static water level.

The applicable rules and regulations (K.A.R. 5-4-4) require that new non-domestic wells must meet specific spacing guidelines based on the source of water supply in order to minimize the potential that existing water wells of any kind would be impaired. The source of water (aquifer) for this pending application appears to be Permian System deposits (likely either the Ninescah Shale or Wellington Formations), based on the test hole log that was submitted. This source of water requires a minimum well spacing of 660 feet from any existing domestic well. Based on the location of the nearby domestic wells, it appears that the closest well is approximately 900 feet from the proposed well, and the application complies with minimum well spacing criterion.

Under the current application the city is only authorized one (1) well and a quantity of 21.07 Acre-feet of water for irrigation use. If the application is approved and the city uses a quantity in excess of 21.07 acre-feet per year they will face fines, reductions, suspensions, and possibly revocation of the water right, if approved. Additionally, adding any additional wells or using the water for any other purpose asides from irrigation use would be illegal and result in fines and possible suspension of the water right.

For certain owners not being notified it is likely the result of their wells being located further than ½ mile from the proposed well, which is the cutoff for sending out nearby well notification letters, or the engineering group responsible for identifying nearby well owners missed them.

The well was drilled in October, 2015 and has already been legally in use. The city applied for temporary permits (permits for less than 6 months and limited to 4 million gallons or less) to cover the use. Nearby notification letters are not sent out on temporary permits as they are not a permanent water right and go away once the time period expires unless renewed. Should the new application not be approved the city will be required to cease using the well once their temporary permit expires.

CANNED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

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Fax: (620) 234-6900
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Sam Brownback, Governor

Additionally, the rules and regulations (K.A.R. 5-4-1) require the Chief Engineer to investigate any complaint that a prior right to the use of water is being impaired. If such impairment is found, the Chief Engineer must secure water to satisfy prior water rights. Therefore, if this permit application is approved by the Chief Engineer and you believe the diversion of water is impairing your water right, you should notify Jeff Lanterman, Water Commissioner, Stafford Field Office, as follows, so that an investigation can be made.

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Stafford Field Office
300 S Main Street
Stafford, Kansas 67578-1342
Telephone: 620-234-5311

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Sincerely,



Matt Meier
New Application Unit
Water Appropriation Program

pc:

CEMMA08


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

May 6, 2016

Mark Schmidtbeber
4000 Freida
Cheney, KS 67025

Re: Pending Application, File No. 49,466

This will acknowledge receipt of your group letter, received in this office on May 4, 2016 in which you expressed concerns regarding the proposed appropriation of groundwater by the City of Cheney under the above referenced application. The application is proposing to appropriate groundwater for irrigation use. In the letter multiple concerns were listed including possible impact on nearby wells, the city adding more wells/increasing water use, some well owners not being notified, and the well already being in use.

We are in the process of thoroughly reviewing this pending application to ensure that it complies with the Kansas Water Appropriation Act and applicable rules and regulations. The Chief Engineer is required to approve applications for water appropriation unless the proposed appropriation will impair existing water rights or prejudicially and unreasonably affect the public interest. Impairment is indicated if existing water rights will experience an unreasonable lowering of the static water level.

The applicable rules and regulations (K.A.R. 5-4-4) require that new non-domestic wells must meet specific spacing guidelines based on the source of water supply in order to minimize the potential that existing water wells of any kind would be impaired. The source of water (aquifer) for this pending application appears to be Permian System deposits (likely either the Ninescah Shale or Wellington Formations), based on the test hole log that was submitted. This source of water requires a minimum well spacing of 660 feet from any existing domestic well. Based on the location of the nearby domestic wells, it appears that the closest well is approximately 900 feet from the proposed well, and the application complies with minimum well spacing criterion.

Under the current application the city is only authorized one (1) well and a quantity of 21.07 Acre-feet of water for irrigation use. If the application is approved and the city uses a quantity in excess of 21.07 acre-feet per year they will face fines, reductions, suspensions, and possibly revocation of the water right, if approved. Additionally, adding any additional wells or using the water for any other purpose asides from irrigation use would be illegal and result in fines and possible suspension of the water right.

For certain owners not being notified it is likely the result of their wells being located further than ½ mile from the proposed well, which is the cutoff for sending out nearby well notification letters, or the engineering group responsible for identifying nearby well owners missed them.

The well was drilled in October, 2015 and has already been legally in use. The city applied for temporary permits (permits for less than 6 months and limited to 4 million gallons or less) to cover the use. Nearby notification letters are not sent out on temporary permits as they are not a permanent water right and go away once the time period expires unless renewed. Should the new application not be approved the city will be required to cease using the well once their temporary permit expires.

SCANNED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

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Sincerely,



Matt Meier
New Application Unit
Water Appropriation Program

pc:


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Sam Brownback, Governor

May 6, 2016

Terry & Susan Kohler
4307 S 383 W.
Cheney, KS 67025

Re: Pending Application, File No. 49,466

This will acknowledge receipt of your group letter, received in this office on May 4, 2016 in which you expressed concerns regarding the proposed appropriation of groundwater by the City of Cheney under the above referenced application. The application is proposing to appropriate groundwater for irrigation use. In the letter multiple concerns were listed including possible impact on nearby wells, the city adding more wells/increasing water use, some well owners not being notified, and the well already being in use.

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Under the current application the city is only authorized one (1) well and a quantity of 21.07 Acre-feet of water for irrigation use. If the application is approved and the city uses a quantity in excess of 21.07 acre-feet per year they will face fines, reductions, suspensions, and possibly revocation of the water right, if approved. Additionally, adding any additional wells or using the water for any other purpose besides from irrigation use would be illegal and result in fines and possible suspension of the water right.

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SCANNED


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May 6, 2016

Dan & Sharon Quaney
38739 W 39th St. S
Cheney, KS 67025

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Brandt Ditson
4035 S. 375th
Cheney, KS 67025

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Sincerely,

Matt Meier
New Application Unit
Water Appropriation Program

pc:

CEWMA99



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Greg Giefer
4100 S. 375th W
Cheney, KS 67025

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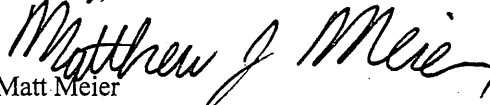
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Steve Hillman
4149 S. 375th W
Cheney, KS 67025

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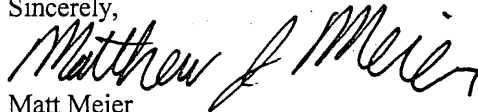
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3681 S 391st W
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Larry Neises
3911 S 391st St W
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www.agriculture.ks.gov
Sam Brownback, Governor

Additionally, the rules and regulations (K.A.R. 5-4-1) require the Chief Engineer to investigate any complaint that a prior right to the use of water is being impaired. If such impairment is found, the Chief Engineer must secure water to satisfy prior water rights. Therefore, if this permit application is approved by the Chief Engineer and you believe the diversion of water is impairing your water right, you should notify Jeff Lanterman, Water Commissioner, Stafford Field Office, as follows, so that an investigation can be made.

Division of Water Resources
Stafford Field Office
300 S Main Street
Stafford, Kansas 67578-1342
Telephone: 620-234-5311

If an applicant without cause fails to comply with the provisions of the permit and its terms, conditions and limitations, it could result in the forfeiture of the priority date, revocation of the permit and dismissal of the application. If you have any further questions, please contact me at 620-234-5311. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,


Matt Meier
New Application Unit
Water Appropriation Program

pc:

COV/NEED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

May 6, 2016

Leonard Miller
38198 W 39th St S
Cheney, KS 67025

Re: Pending Application, File No. 49,466

This will acknowledge receipt of your group letter, received in this office on May 4, 2016 in which you expressed concerns regarding the proposed appropriation of groundwater by the City of Cheney under the above referenced application. The application is proposing to appropriate groundwater for irrigation use. In the letter multiple concerns were listed including possible impact on nearby wells, the city adding more wells/increasing water use, some well owners not being notified, and the well already being in use.

We are in the process of thoroughly reviewing this pending application to ensure that it complies with the Kansas Water Appropriation Act and applicable rules and regulations. The Chief Engineer is required to approve applications for water appropriation unless the proposed appropriation will impair existing water rights or prejudicially and unreasonably affect the public interest. Impairment is indicated if existing water rights will experience an unreasonable lowering of the static water level.

The applicable rules and regulations (K.A.R. 5-4-4) require that new non-domestic wells must meet specific spacing guidelines based on the source of water supply in order to minimize the potential that existing water wells of any kind would be impaired. The source of water (aquifer) for this pending application appears to be Permian System deposits (likely either the Ninnescah Shale or Wellington Formations), based on the test hole log that was submitted. This source of water requires a minimum well spacing of 660 feet from any existing domestic well. Based on the location of the nearby domestic wells, it appears that the closest well is approximately 900 feet from the proposed well, and the application complies with minimum well spacing criterion.

Under the current application the city is only authorized one (1) well and a quantity of 21.07 Acre-feet of water for irrigation use. If the application is approved and the city uses a quantity in excess of 21.07 acre-feet per year they will face fines, reductions, suspensions, and possibly revocation of the water right, if approved. Additionally, adding any additional wells or using the water for any other purpose asides from irrigation use would be illegal and result in fines and possible suspension of the water right.

For certain owners not being notified it is likely the result of their wells being located further than ½ mile from the proposed well, which is the cutoff for sending out nearby well notification letters, or the engineering group responsible for identifying nearby well owners missed them.

The well was drilled in October, 2015 and has already been legally in use. The city applied for temporary permits (permits for less than 6 months and limited to 4 million gallons or less) to cover the use. Nearby notification letters are not sent out on temporary permits as they are not a permanent water right and go away once the time period expires unless renewed. Should the new application not be approved the city will be required to cease using the well once their temporary permit expires.

SCANNED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
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Stafford, Kansas 67578-1521

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Sincerely,



Matt Meier
New Application Unit
Water Appropriation Program

pc:

SCANNED


Kansas
Department of Agriculture
Division of Water Resources

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Stafford, Kansas 67578-1521

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Jeff Lanterman, Water Commissioner

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Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

May 6, 2016

Linda K Roeder
38407 W. 39th St S
Cheney, KS 67025

Re: Pending Application, File No. 49,466

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SCANNED


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Sincerely,



Matt Meier
New Application Unit
Water Appropriation Program

pc:


Kansas
Department of Agriculture
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www.agriculture.ks.gov

Sam Brownback, Governor

May 6, 2016

Russell & Jacquelyn Harrison
38727 W 39th St. S.
Cheney, KS 67025

Re: Pending Application, File No. 49,466

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SCANNED

Kansas

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Division of Water Resources

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Sincerely,



Matt Meier
New Application Unit
Water Appropriation Program

pc:

07/11/11 11:22

To: Matt Meier

April 29, 2016

This letter is in reply to a letter from Kansas Dept. of Agriculture Water Resource Division in regards to the pending application, File No. 49,466 that the city of Cheney, Kansas has filed for a permit to drill (1) 120 gallon per minute irrigation well on 20.07 acres.

It is our concern that several families in the area who rely on well water for drinking, household purposes and watering of livestock will be affected.

As per our telephone conversation, our wells are older and most are 50 to 75 foot deep and the city of Cheney is requesting to drill to a 100 foot depth which will affect the water table. We also feel that with further development of the sports complex they will pump more water and possibly request to drill more wells. The complex now has two ball diamonds completed and sodded with grass and a lot of new trees planted with plans to build two more ball diamonds and multiple soccer fields.

The complex is now using city water for irrigation as they had planned on and should continue to use it for all the new addition they are wanting to build including restrooms and concession stands.

We request that the well not be drilled as it will probably run the families that rely on the water for our homes out of water. If you do give the city of Cheney the permit to drill it they should not drill the (1) well over 50 foot depth.

We also request if the city of Cheney drills the (1) well to assure the property owners in the vicinity that they will be responsible to supply our homes with city water and service lines if they ever deplete our water supply free of charge.

If our water is depleted our property value will really drop.

Thank you for your consideration,

Russell Harrison

Russell Harrison (316-772-6331 phone)

38727 W.39th. St. S

Cheney, Kansas 67025

RECEIVED

MAY 04 2016

Stafford Field Office
Division of Water Resources

CHENEY FAMILIES OPPOSED TO APPLICATION FILE NO. 49,466

NAME	ADDRESS	PHONE NO.
Russell Harrison	38727 W 39th S	316-772-6331
Jacquelyn Harrison	38727 W 39th St. S.	316-772-6330
Linda Raeder	38407 W 39th St. S	316-542-0200
Leonard T. Miller d	39198 W 39th St S	316 540-3582
Larry A. Neis	3911 S 391st W	316 540-0409
Greg Neis	3681 S 391st W	316 540-0365
Steve Hillman	4149 S 375th W	316-833-6042
Greg Gieder	4100 S. 375th W	316-215-2253
Dan Dizon	4035 S 375th	316 706-5397
Sharon Quaney	38739 W 39th St S	316-3641-3459
DAN QUANEY	38739 W 39th	316-295-0194
Tony Kohler	4307 S 383rd W	316-217- 1782
Dwain Kohler	4307 S 383 W.	1782
MARK SCHMIDTBERGER	4000 FIREST	316 772 072-
Brian O'Connor	4000 S 375th W.	316-706-5197
Troy Presley	4150 S 375th W	316-213-7715
DAVID Woodard	38729 W 39th S	316 540 3571

Letters were NOT sent to most of the people on this list for the proposed well to be drilled: Pending Application File No. 49,466. However I have heard the well has already been drilled, without ~~permission~~ permission. You owe all of us an explanation why this is ~~already~~ already been drilled if that is in fact what happened.

RECEIVED

MAY 04 2016

Russell Harrison

Stafford Field Office
Division of Water Resources

Send out reply letters to ALL LISTED ABOVE on the well opposed list.

Russell HARRISON
38727 W 39th S
Cheney, KANSAS
67025

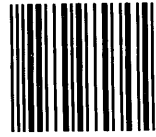
CERTIFIED MAIL®



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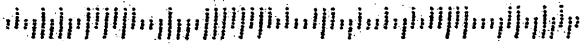
STAFFORD FIELD OFFICE
C/O MATT MEIER
300 S MAIN ST.
STAFFORD, KANSAS 67578-1521

RECEIVED

MAY 04 2016

Stafford Field Office
Division of Water Resources

67578-1521 0001



Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

April 18, 2016

Russell & Jacquelyn Harrison Rev Tr
38727 W 39th St. S.
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

This is to advise you that the City of Cheney has filed the application referred to above for a permit to appropriate 21.07 acre-feet of groundwater per calendar year for irrigation use to be diverted at a maximum rate of 120 gallons per minute. The proposed point of diversion for 49,466 is one (1) well located as follows:

Southwest Quarter of the Southwest Quarter of the Southeast Quarter of Section 8, Township 28 South, Range 4 West, Sedgwick County, Kansas.

A map is enclosed indicating the location of the proposed well. Records in this office indicate that you may have a well or wells in this vicinity and you are notified of receipt of this application in order that you may be fully informed of the proposed location of the applicant's point 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 (620) 234-5311. If you call, please reference the file number so I can help you more efficiently. Mailed comments can be sent to the Stafford Field Office at 300 S. Main St. Stafford, KS 67578-1521.

Sincerely,
DIR ET #
Matthew J Meier
Matt Meier
Environmental Scientist
Water Appropriations Program

4 people
(Letter) *(20)*
1/2 mile

Enclosure
pc: *?* *100'*
Depth:
1 - well only -

120 gal per minute
Length of time to run
DAILY 24hr per day
How many months

RECEIVED
MAY 04 2016

Stafford Field Office
Division of Water Resources

My
DRINKING WATER
LIVESTOCK WATER
POND WATER TABLE

Meier, Matt

From: Russ England <REngland@kdheks.gov>
Sent: Monday, May 02, 2016 7:56 AM
To: Meier, Matt
Subject: RE: Cheney Application

Matt,

Although the KDHE does not have regulatory authority regarding the new irrigation well, we will coordinate with the City of Cheney should operation of the well cause the groundwater plume from the Cheney Cooperative Elevator site to migrate further southeast. Based on the information you provided, the KDHE does not anticipate any issues regarding operation of the irrigation well but will continue to monitor the nitrate and carbon tetrachloride groundwater contamination and respond to any changes that may occur in the future. Thank you

*Russ England
Voluntary Cleanup Unit
Assessment & Restoration Section
Bureau of Environmental Remediation
785-296-5555*

From: Meier, Matt [<mailto:Matt.Meier@KDA.KS.GOV>]
Sent: Friday, April 29, 2016 8:16 AM
To: Russ England <REngland@kdheks.gov>
Subject: Cheney Application

Hello Russ

Attached are the site maps & well log for the City of Cheney's new water right application. They are requesting 21.07 Acre-feet (6,866,667 gallons) at a rate of diversion of 120 gallons per minute from their well. The water is to be used to irrigate baseball fields for a new sports complex they have constructed. As we discussed over the phone their proposed well is located approximately ½ mile South and East of the Cheney Coop elevator remediation site, based on map I found online. If you could look the information over and let me know if your foresee any issues arising because of the new well/water use I would appreciate it. Let me know if you have any questions or need any additional information on the proposed project.

Thanks,

Matt Meier, Environmental Scientist
Kansas Department of Agriculture
Division of Water Resources
Stafford Field Office
(620) 234-5311
Matt.Meier@kda.ks.gov
www.ksda.gov/dwr

RECEIVED

MAY 02 2016

Stafford Field Office
Division of Water Resources

RECEIVED

MAY 02 2016



Farmers Coop Elevator Company

Garden Plain, KS

P. O. Box 340

Cheney, KS 67025

316-542-3182

gardenplaincoop.com

Garden Plain
Norwich
Anness
Rago
Clonmel
Cheney

TBA
Belmont
Murdock
Pretty Prairie
Varner
Kingman

May 2, 2016

Dear Matt,

The Farmers Coop Elevator would like to respond to the letter we received from the Kansas Department of Agriculture- Division of Water Resources dated 4-18-16. A copy of this letter will be attached.

The first point we would like to make is the reference to the "proposed well". We would request the record of the date the well was drilled. We are fairly certain that this well was drilled last year and has been operational for several months. We do have experience with the Department of Agriculture in Kansas through several regulatory and compliance agencies. Our experience has been you request permits and licenses prior to any action taken.

We would further suggest that you contact your sister regulatory agency in Kansas, which we are certain you interact with. KDHE will share with you that the Cheney Coop entered into the "voluntary" remediation act around 1996. This entry was to address a carbon Tet trace back issue from 1950 to 1960 applications. The Farmers Coop has continued compliance with the remediation act entry with success, in the planting of trees and shrubs and other pumping activities approved by the KDHE compliance division.

We would defer to geologists and other professionals to determine if this strong pull from the aquifer would or would not pull the area that is currently in remediation.

Respectfully Yours,

Terry Kohler

RECEIVED

MAY 02 2016

Stafford Field Office
Division of Water Resources


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521
Jackie McClaskey, Secretary
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Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

April 18, 2016

Stacy Bolinger Devore
2377 SE 170th Ave
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

This is to advise you that the City of Cheney has filed the application referred to above for a permit to appropriate 21.07 acre-feet of groundwater per calendar year for irrigation use to be diverted at a maximum rate of 120 gallons per minute. The proposed point of diversion for 49,466 is one (1) well located as follows:

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Sincerely,



Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas

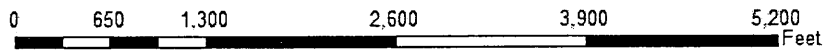
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Sam Brownback, Governor



Legend	
+	Section Corners
—	Section Lines



Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County



MJM-DWR 4/18/16
1:12,000

UNANNOUNCED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

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Sam Brownback, Governor

April 18, 2016

Russell & Jacquelyn Harrison Rev Tr
38727 W 39th St. S.
Cheney, KS 67025

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Sincerely,



Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas

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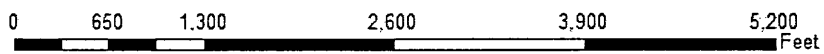
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Sam Brownback, Governor



Legend

- Section Corners
- Section Lines

MJM-DWR 4/18/16
1:12,000



Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County





Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
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Department of Agriculture
Division of Water Resources

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Sam Brownback, Governor

April 18, 2016

Terry & Susan Kohler
PO Box 43
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

This is to advise you that the City of Cheney has filed the application referred to above for a permit to appropriate 21.07 acre-feet of groundwater per calendar year for irrigation use to be diverted at a maximum rate of 120 gallons per minute. The proposed point of diversion for 49,466 is one (1) well located as follows:

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Sincerely,

Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas

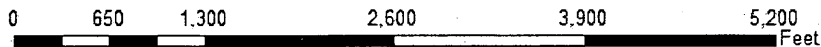
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521
Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor



Legend	
	Section Corners
	Section Lines



Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County



MJM:DWR 4/18/16
1:12,000


Kansas
Department of Agriculture
Division of Water Resources

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Sam Brownback, Governor

April 18, 2016

Linda K Roeder Et Al
38407 W. 39th St S
Cheney, KS 67025

Re: Pending Application, File No. 49,466

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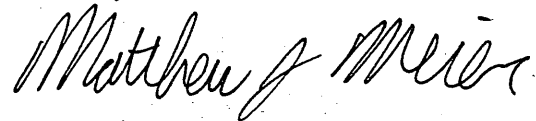
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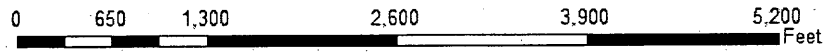
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Legend

- Section Corners
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MJM-DWR 4/18/16
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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




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Sam Brownback, Governor

April 18, 2016

Phyllis Grover Et Al
4427 E Eagles Landing
Wichita, KS 67220

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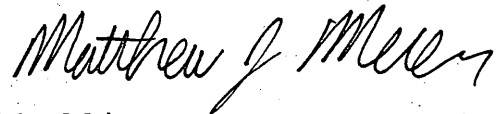
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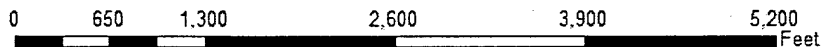
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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




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Sam Brownback, Governor

April 18, 2016

Brandt & Shawnae Ditgen
4033 S 375th St W
Cheney, KS 67025

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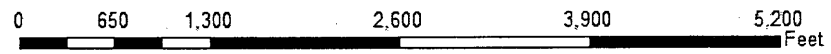
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Legend

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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




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Sam Brownback, Governor

April 18, 2016

Jane & Donald Duvall
6508 NW Valley View St
Kansas City, MO 64152

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Sam Brownback, Governor



Legend

- Section Corners
- Section Lines

MJM-DWR 4/18/16
1:12,000

0 650 1,300 2,600 3,900 5,200 Feet

Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




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Sam Brownback, Governor

April 18, 2016

Gary Niclaus Et Al
195 Beardsly Cr Dr
Blue Eye, MO 65611

Re: Pending Application, File No. 49,466

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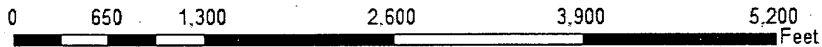
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Legend

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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




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Sam Brownback, Governor

April 18, 2016

Cheney Recreation Commission
100 W 6th Ave
Cheney, KS 67025

Re: Pending Application, File No. 49,466

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Matt Meier
Environmental Scientist
Water Appropriations Program

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Kansas

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Legend

- + Section Corners
- ▭ Section Lines

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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County



MJM-DWR 4/18/16
1:12,000

UNRECORDED


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

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Jeff Lanterman, Water Commissioner

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Fax: (620) 234-6900
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Sam Brownback, Governor

April 18, 2016

Norman & Larae Galloway
429 S Main St
Cheney, KS 67025

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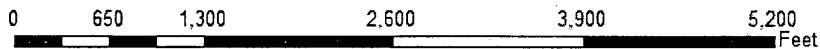
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Legend

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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County



MJM-DWR 4/18/16
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April 18, 2016

Foos Muscle Cars LLC
3000 S 231st St W
Goddard, KS 67052

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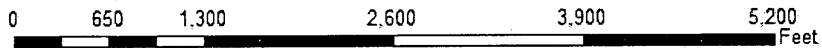
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Legend

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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County



MJM-DWR 4/18/16
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DRAFT


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April 18, 2016

Darlene Catherine Weir Rev Tr
1408 E Gumlog RD
Russellville, AR 72802

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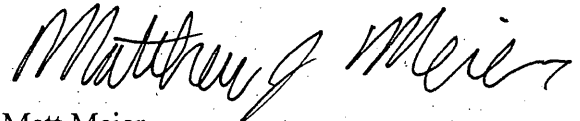
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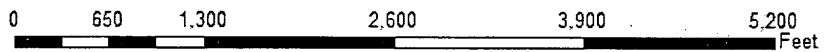
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Legend

- Section Corners
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Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County



MJM:DWR 4/18/16
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UNANNOUNCED


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Sedg County Fair Assn
Box 460
Cheney, KS 67025

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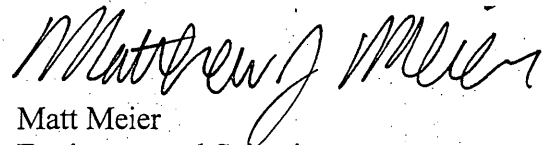
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
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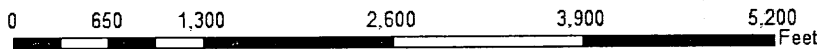
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Proposed Water Appropriation, File No. 49,466
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1:12,000



Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

April 18, 2016

Martin & Tama Hopper
219 S Marshall
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

This is to advise you that the City of Cheney has filed the application referred to above for a permit to appropriate 21.07 acre-feet of groundwater per calendar year for irrigation use to be diverted at a maximum rate of 120 gallons per minute. The proposed point of diversion for 49,466 is one (1) well located as follows:

Southwest Quarter of the Southwest Quarter of the Southeast Quarter of Section 8, Township 28 South, Range 4 West, Sedgwick County, Kansas.

A map is enclosed indicating the location of the proposed well. Records in this office indicate that you may have a well or wells in this vicinity and you are notified of receipt of this application in order that you may be fully informed of the proposed location of the applicant's point 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 (620) 234-5311. If you call, please reference the file number so I can help you more efficiently. Mailed comments can be sent to the Stafford Field Office at 300 S. Main St. Stafford, KS 67578-1521.

Sincerely,

Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas


Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521
Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

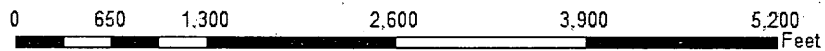
Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor



Legend

 Section Corners
Section Lines

MJM-DWR 4/18/16
1:12,000



Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

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David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov

Sam Brownback, Governor

April 18, 2016

Robert & Joyce Lehner Rev Tr
604 Leighty Dr
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

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Sincerely,



Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas

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Division of Water Resources

Stafford Field Office
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Stafford, Kansas 67578-1521

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Jeff Lanterman, Water Commissioner

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Fax: (620) 234-6900

www.agriculture.ks.gov

Sam Brownback, Governor



Legend

- Section Corners
- Section Lines

MJM-DWR 4/18/16
1:12,000



Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




Kansas
Department of Agriculture
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Jeff Lanterman, Water Commissioner

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Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

April 18, 2016

Cheney Coop Elev Assoc
PO Box 340
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

This is to advise you that the City of Cheney has filed the application referred to above for a permit to appropriate 21.07 acre-feet of groundwater per calendar year for irrigation use to be diverted at a maximum rate of 120 gallons per minute. The proposed point of diversion for 49,466 is one (1) well located as follows:

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Sincerely,



Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas

Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor



Legend

- Section Corners
- Section Lines

MUM-DWR 4/18/16
1:12,000

0 650 1,300 2,600 3,900 5,200 Feet

Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
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Stafford, Kansas 67578-1521
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Jeff Lanterman, Water Commissioner

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Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

April 18, 2016

Sedg County Elec Coop Assoc Inc
PO Box 220
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

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Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas

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Division of Water Resources

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Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

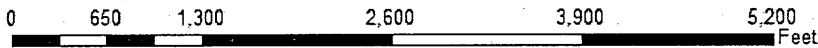
Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor



Legend

- Section Corners
- Section Lines

MJM-DWR 4/18/16
1:12,000



Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County




Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

April 18, 2016

Allen & Jeff Young
644 SE 140th Ave
Cheney, KS 67025

Re: Pending Application, File No. 49,466

Dear Sir or Madam:

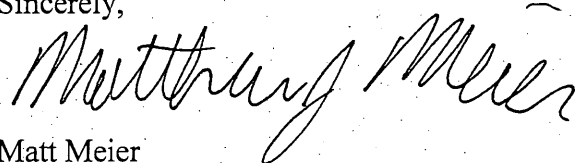
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Sincerely,



Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

Kansas

Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521
Jackie McClaskey, Secretary
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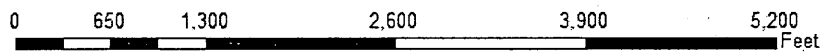
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Sam Brownback, Governor



Legend

- Section Corners
- Section Lines

MJM-DWR 4/18/16
1:12,000



Proposed Water Appropriation, File No. 49,466
8-28S-4W
Sedgwick County



WATER RESOURCES
RECEIVED

OCT 01 2015

September 28, 2015

(Date)

KS DEPT OF AGRICULTURE

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

Re: Application
File No. _____

Minimum Desirable Streamflow

Dear Sir:

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

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

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

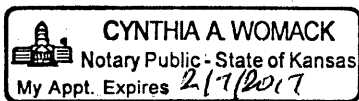
I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

Gene Rath
Signature of Applicant

State of Kansas)
) ss
County of Sedgwick)

GENE RATH, MKEC ENG.
(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 28th day of September, 2015.



Cynthia A. Womack
Notary Public

My Commission Expires: February 7, 2017

WATER WELL RECORD Form WWC-5

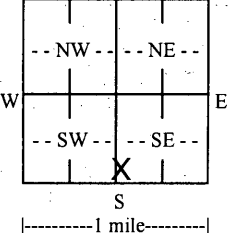
Original Record Correction Change in Well Use

Division of Water Resources App. No.

Well ID

1 LOCATION OF WATER WELL: County: Sedgwick	Fraction NW 1/4 SW 1/4 SW 1/4 SE 1/4	Section Number 8	Township Number T 28 S	Range Number R 4 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
--	---	---------------------	---------------------------	--

2 WELL OWNER: Last Name: CITY OF CHENEY Business: CITY OF CHENEY Address: 131 N MAIN Address: City: CHENEY State: KS ZIP: 67025	First: _____ Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input type="checkbox"/> NEAR A POINT 469 FT NORTH AND 2530 FT WEST OF SOUTHEAST CORNER OF SECTION
--	---

3 LOCATE WELL WITH "X" IN SECTION BOX: N  W _____ E S	4 DEPTH OF COMPLETED WELL: 100 ft. Depth(s) Groundwater Encountered: 1) 25 ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 25 ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr) <input checked="" type="checkbox"/> above land surface, measured on (mo-day-yr) 10/07/2015 Pump test data: Well water was ft. after hours pumping gpm Well water was ft. after hours pumping gpm Estimated Yield: 120 gpm Bore Hole Diameter: 12 in. to 100 ft. and in. to ft.	5 Latitude: 37.619957 (decimal degrees) Longitude: 97.780052 (decimal degrees) Datum: <input checked="" type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper:
		6 Elevation: 1381 ft. <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Other KOLAR

7 WELL WATER TO BE USED AS:

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

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

Water well disinfected? Yes No

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

Casing diameter **5** in. to **100** ft., Diameter in. to ft., Diameter in. to ft.

Casing height above land surface **16** in. Weight **160** lbs./ft. Wall thickness or gauge No. **26**

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)
 Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify)
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From **34** ft. to **100** ft., From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From **24** ft. to **100** ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout Intervals: From **4** ft. to **24** ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify)

Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	TOP SOIL			
2	14	CLAY			
14	32	FINE SAND			
32	39	GREEN SHALE			
39	44	BLUE SHALE			
44	100	RED SHALE			
Notes:					

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) **10/07/2015** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **611** This Water Well Record was completed on (mo-day-year) **10/16/2015** under the business name of **Chase Drilling**

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

September 24, 2015

CITY OF CHENEY
131 N. MAIN
CHENEY KS 67025

RE: Application
File No. 49466

Dear Sir or Madam:

Your application for permit to appropriate water in 8-28S-4W in Sedgwick County, was received and has been assigned the file number noted above.

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. Once review of your application has begun, we will contact you, if additional information is required.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water as proposed prior to approval of the application is unlawful. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

Section 82a-728 of the Kansas Water Appropriation Act, provides (a) except for the appropriation of water for the purpose of domestic use, . . . it shall be unlawful for any person to appropriate or threaten to appropriate water from any source without first applying for and obtaining a permit to appropriate water in accordance with the provisions of the Water Appropriation Act or for any person to violate any condition of a vested right, appropriation right or an approved application for a permit to appropriate water for beneficial use.

(b) (1) The violation of any provision of this section by any person is a class C misdemeanor . . .

A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.

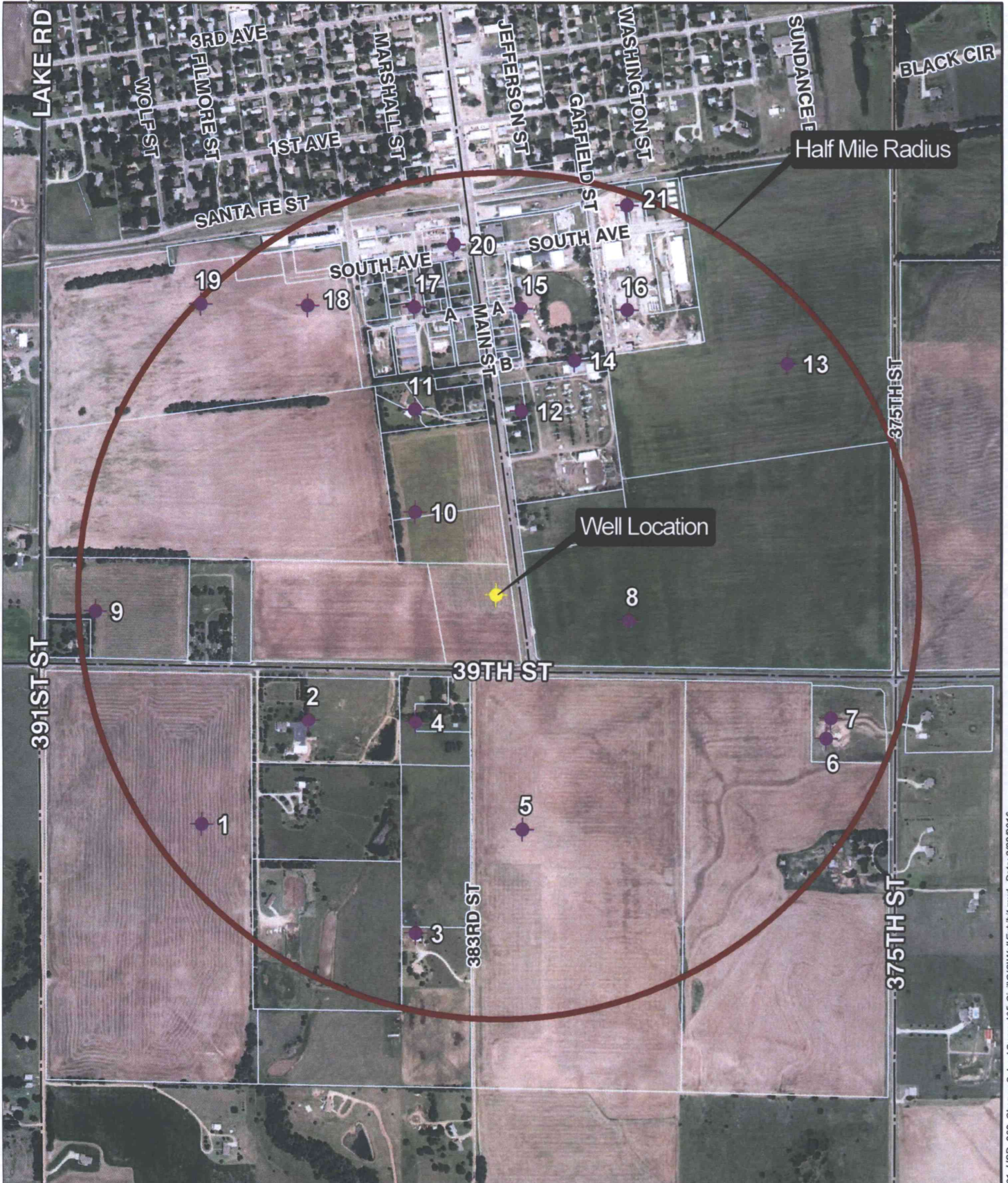
If you have any questions, please contact me at (785) 564-6634. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth A. Kopp".

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

BAT: dwl
pc: STAFFORD Field Office
GMD 0



Half Mile Radius

Well Location

SEC: 8
 TWP: T28S
 RNG: R4W

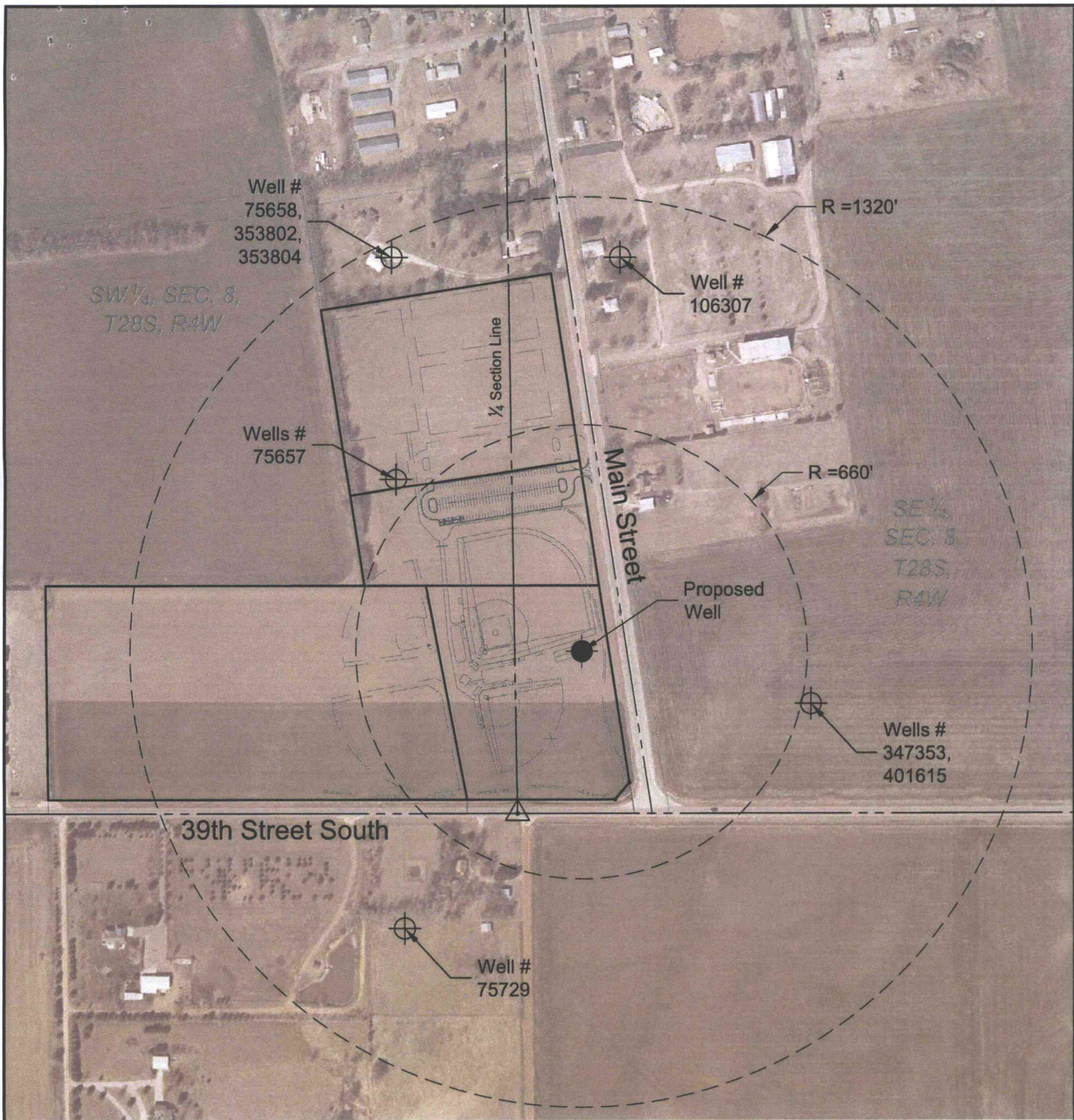
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WELL EXHIBIT
CHENEY USD 268 SCHOOL
BASEBALL/SOFTBALL COMPLEX

PROJECT NO. 1402010501	DATE: 3/29/2016	SHEET NO.
DRAWN BY: JGD	DESIGNED BY: JGD	APPROVED BY: KLA
		1 OF 1



North
1"=400'

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MKEC

Wichita, KS • 316.684.9600

WATER RESOURCES
RECEIVED

SEP 21 2015

KS DEPT OF AGRICULTURE

CHENEY USD 268 SCHOOL
BASEBALL/SOFTBALL COMPLEX
WELL LOCATION EXHIBIT

PROJECT NO. 1402010501

DATE: JUNE 2015

SHEET NO.

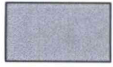
DRAWN BY: JGD

DESIGNED BY: JGD

APPROVED BY: BDL

1 OF 1

LEGEND



- Irrigation Area
(706,182 Sq.Ft. or 16.21 Ac.)

SW 1/4, SEC. 8,
T28S, R4W

SE 1/4,
SEC. 8,
T28S,
R4W

Main Street

1/4 Section Line

39th Street South

WATER RESOURCES
RECEIVED

SEP 21 2015

KS DEPT OF AGRICULTURE



North
1"=250'

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Wichita, KS - 316.684.9600

CHENEY USD 268 SCHOOL
BASEBALL/SOFTBALL COMPLEX
EXHIBIT FOR IRRIGATION

PROJECT NO. 1402010501	DATE: JUNE 2015	SHEET NO.
DRAWN BY: JGD	DESIGNED BY: JGD	APPROVED BY: BDL

SCANNED

1 OF 1

J:\PROJECTS\2014\1402010501_USD_268_CHENEY_SCHOOL_SURVE\105-CRMA\CAD\PLAT\140211.DWG



Project Location

S-08
T-T28S
R-R4W

MAIN ST

39TH ST

S-17
T-T28S
R-R4W

383RD ST



0 75 150 300
Feet

SEC: 8
TWP: T28S
RNG: R4W

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Wichita, KS - 316.684.4500

WATER RESOURCES RECEIVED

SEP 21 2015

AERIAL EXHIBIT B
USD 268 SCHOOL

ADDITIONS & RENOVATIONS

PROJECT NO: 1402010757

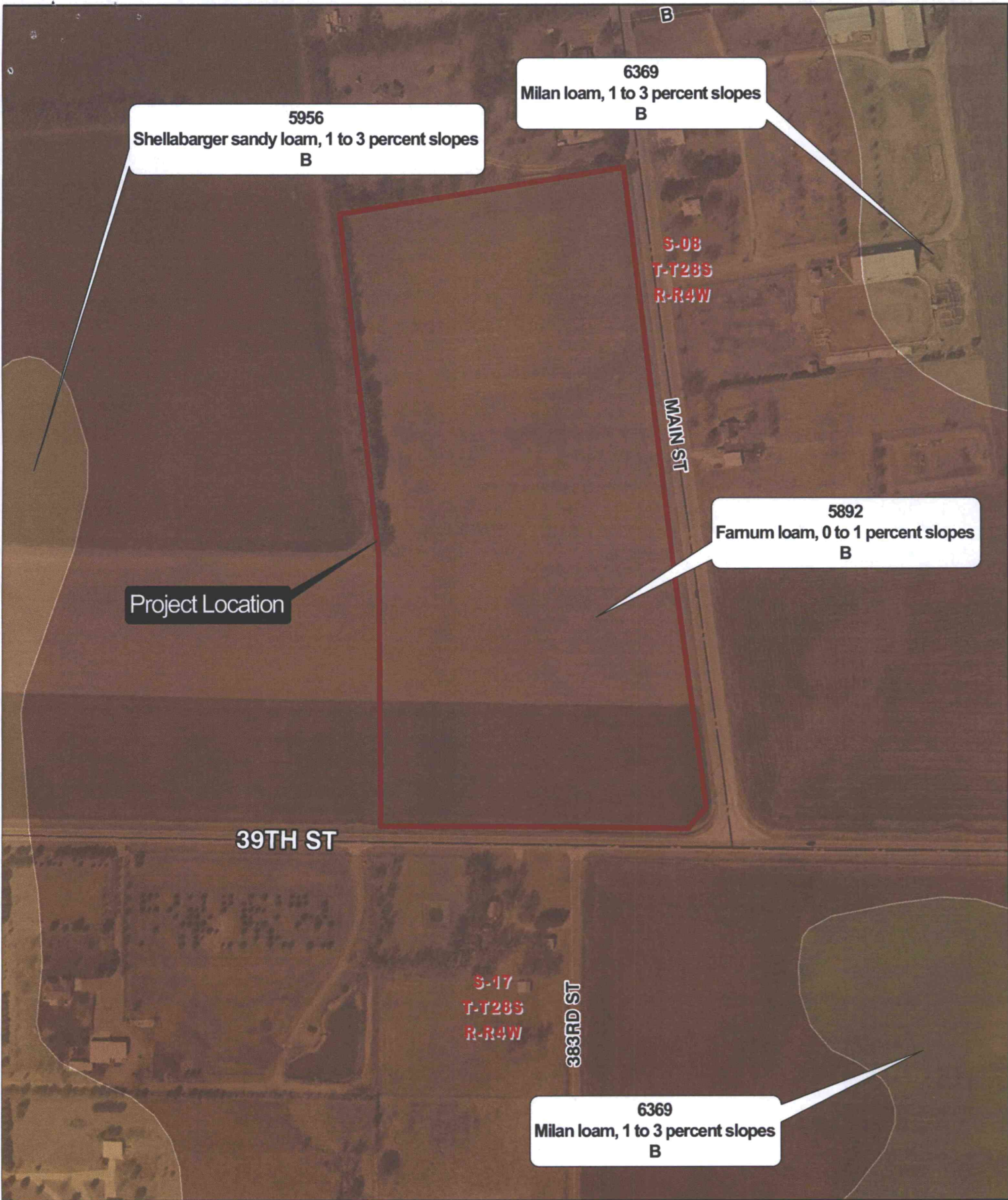
DATE: 5/29/2015

SHEET NO.

DESIGNED BY: JGD

APPROVED BY: KLA

2 OF 2



5956
Shellabarger sandy loam, 1 to 3 percent slopes
B

6369
Milan loam, 1 to 3 percent slopes
B

5892
Famum loam, 0 to 1 percent slopes
B

6369
Milan loam, 1 to 3 percent slopes
B

Project Location

39TH ST

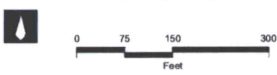
MAIN ST

383RD ST

S-08
T-T28S
R-R4W

S-17
T-T28S
R-R4W

SEC: 8
TWP: T28S
RNG: R4W



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Wichita, KS · 316.684.9666

WATER RESOURCES RECEIVED
NRCS SOIL SURVEY EXHIBIT B
USD 268 SCHOOL
ADDITIONS & RENOVATIONS
SEP 21 2015

PROJECT NO. 1402010757	DATE: 5/29/2015	SHEET NO.
DESIGNED BY: JGD	APPROVED BY: KLA	2 OF 2

LEGEND



- Irrigation Area
(706,182 Sq.Ft. or 16.21 Ac.)

SW 1/4, SEC. 8,
T28S, R4W

SE 1/4,
SEC. 8,
T28S,
R4W

**Cheney Recreation
Commission**
100 W. 6th St.
Cheney, KS 67025-8997

**Cheney Kansas School
District USD 268**
100 W. 6th St.
Cheney, KS 67025-8997

**Melvin R. Woolf
Revocable Trust**
20159 Valhalla Sq.
Ashburn, VA 20147-4105

**Cheney Kansas School
District USD 268**
100 W. 6th St.
Cheney, KS 67025-8997

Main Street

1/2 Section Line

39th Street South



North
1"=250'

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Wichita, KS • 316.884.9600

**CHENEY USD 268 SCHOOL
BASEBALL/SOFTBALL COMPLEX
EXHIBIT FOR IRRIGATION**

PROJECT NO. 1402010501

DATE: JUNE 2015

SHEET NO.

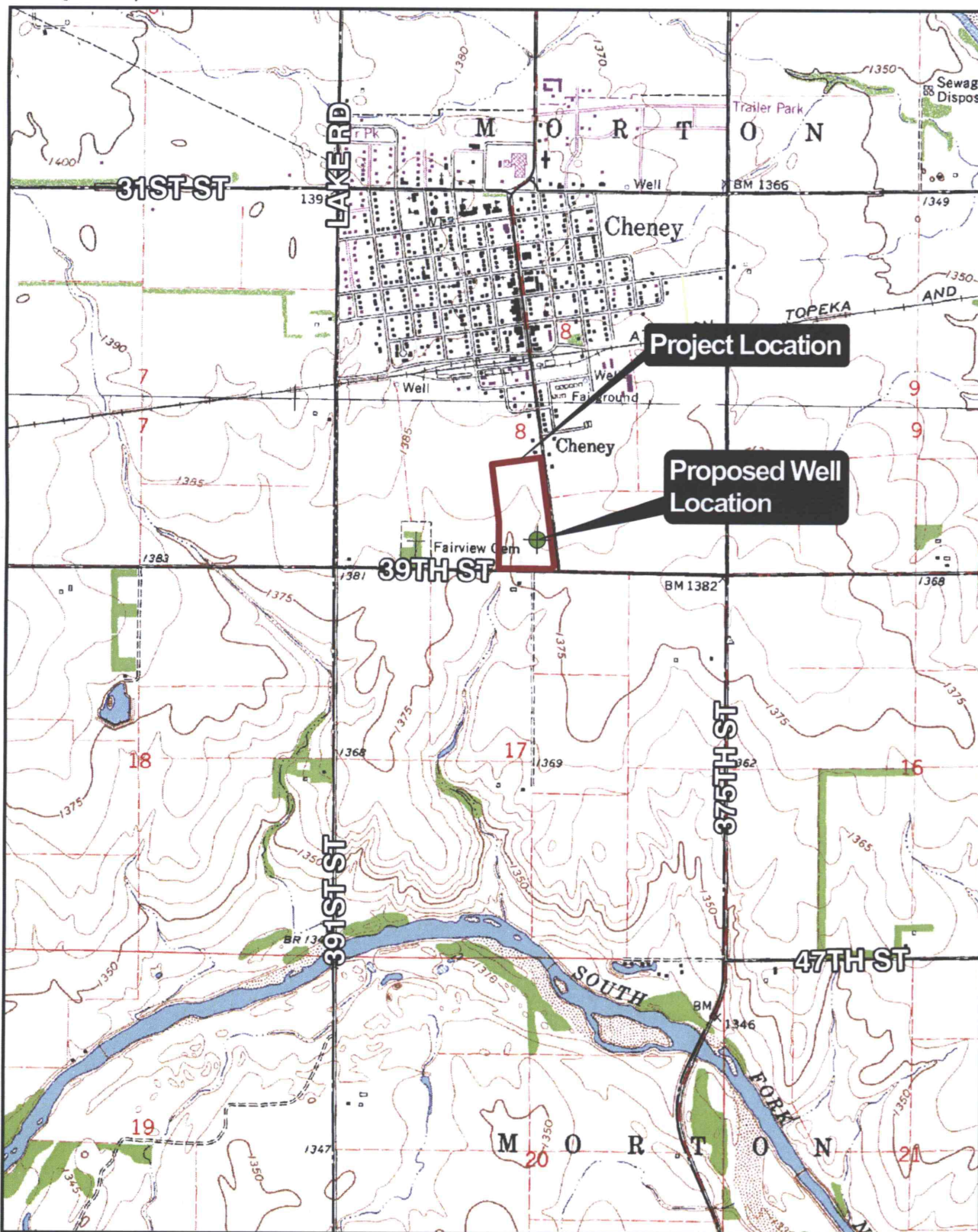
DRAWN BY: JGD

DESIGNED BY: JGD

APPROVED BY: BDL

1 OF 1

C:\Users\jgd\Documents\CHENEY USD 268 SCHOOL BASEBALL/SOFTBALL COMPLEX EXHIBIT FOR IRRIGATION.dwg



**USGS QUAD EXHIBIT B
USD 268 SCHOOL
ADDITIONS & RENOVATIONS**

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SEC: 5 & 8
TWP: T28S
RNG: R4W

PROJECT NO.	1402010757
DATE	5/29/2015
SCALE	1"=2000'
DESIGNED	JGD
DRAWN	JGD
CHECKED	KLA

NO.	REVISION	DATE

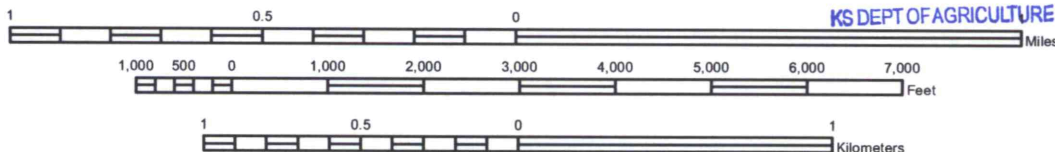
SHEET NO.
1 OF 1



**WATER RESOURCES
RECEIVED**

SEP 21 2015

KS DEPT OF AGRICULTURE



WIMAS Mapping Page

Legend

- Domestic
- Industrial
- Irrigation
- Municipal
- Recreation
- Stock Watering
- Other

Partial Tract
Whole Tract



Map Layers Menu

Choose a Basemap

Light Gray Canvas

Streets

ESRI Imagery

2012 NAIP

2010 NAIP

Other Layers



Points of Diversion



Place of Use



Counties



PLSS

WATER RESOURCES
RECEIVED

SEP 21 2015

KS DEPT OF AGRICULTURE

Legend

- Domestic
- Industrial
- Irrigation
- Municipal
- Recreation
- Stock Watering
- Other

Partial Tract

Whole Tract



WATER RESOURCES
RECEIVED

SEP 21 2015

KS DEPT OF AGRICULTURE



Water Well #2
Hand Dug

Water Well #4
85 feet

Abandon
Well #3

Abandon
Well #6

City Water
Wells



WATER RESOURCES
RECEIVED

SEP 21 2015

1,400 Feet

KS DEPT OF AGRICULTURE

Cheney Ballfield Complex

SCANNED

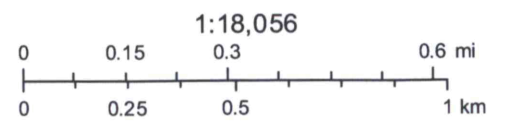


June 11, 2015

KANSAS DEPT OF AGRICULTURE

SEP 21 2015

WATER RESOURCES RECEIVED



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand),

Kansas Geological Survey
<http://maps.kgs.ku.edu/wwc5>

PERMIT NUMBER GH0-17-17

DATE: 08/25/2017

PERMIT FEE 100.00

STREET ADDRESS 731 S. Main St

Monitoring Well

OWNER Cheney USD 268

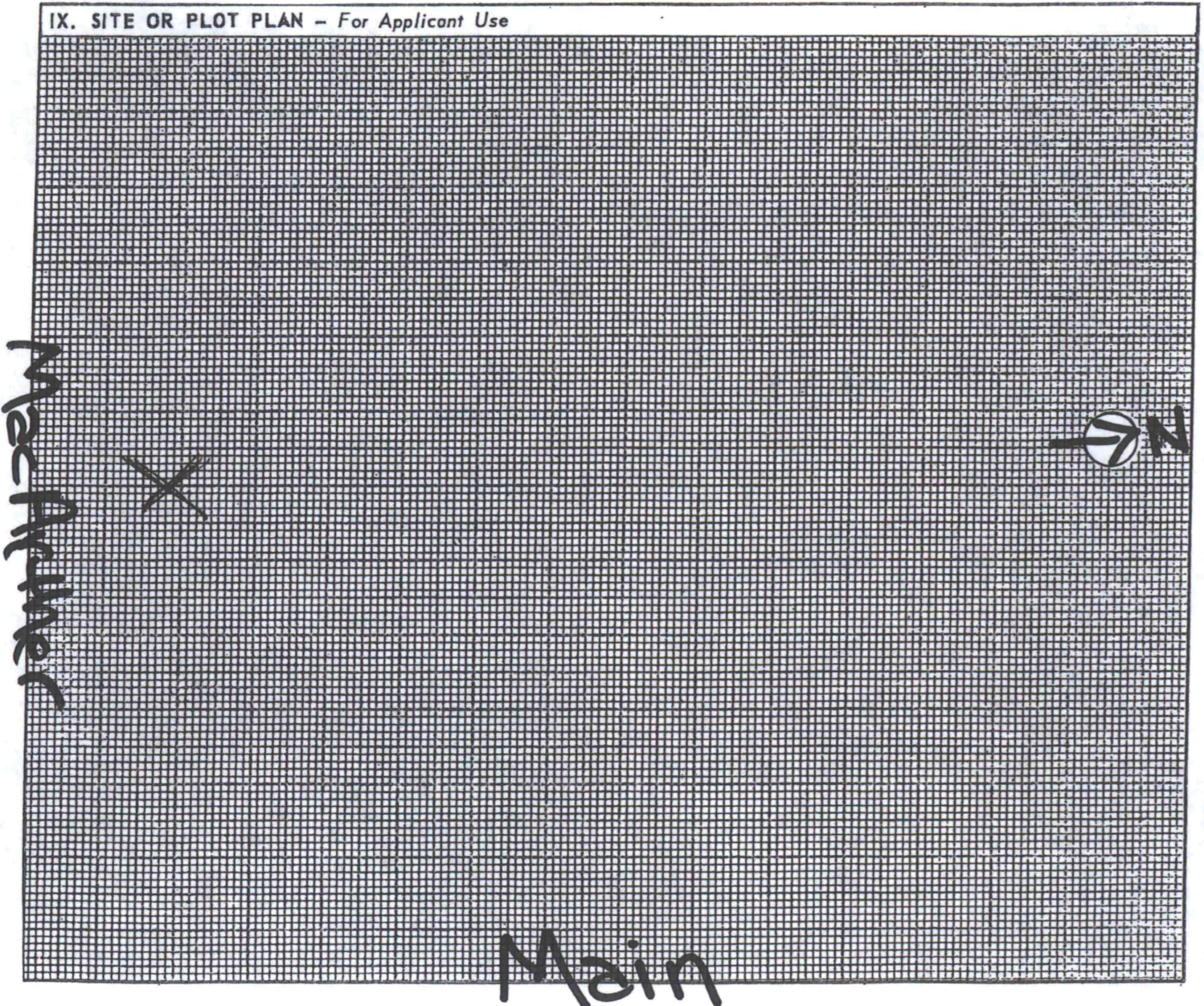
PHONE _____

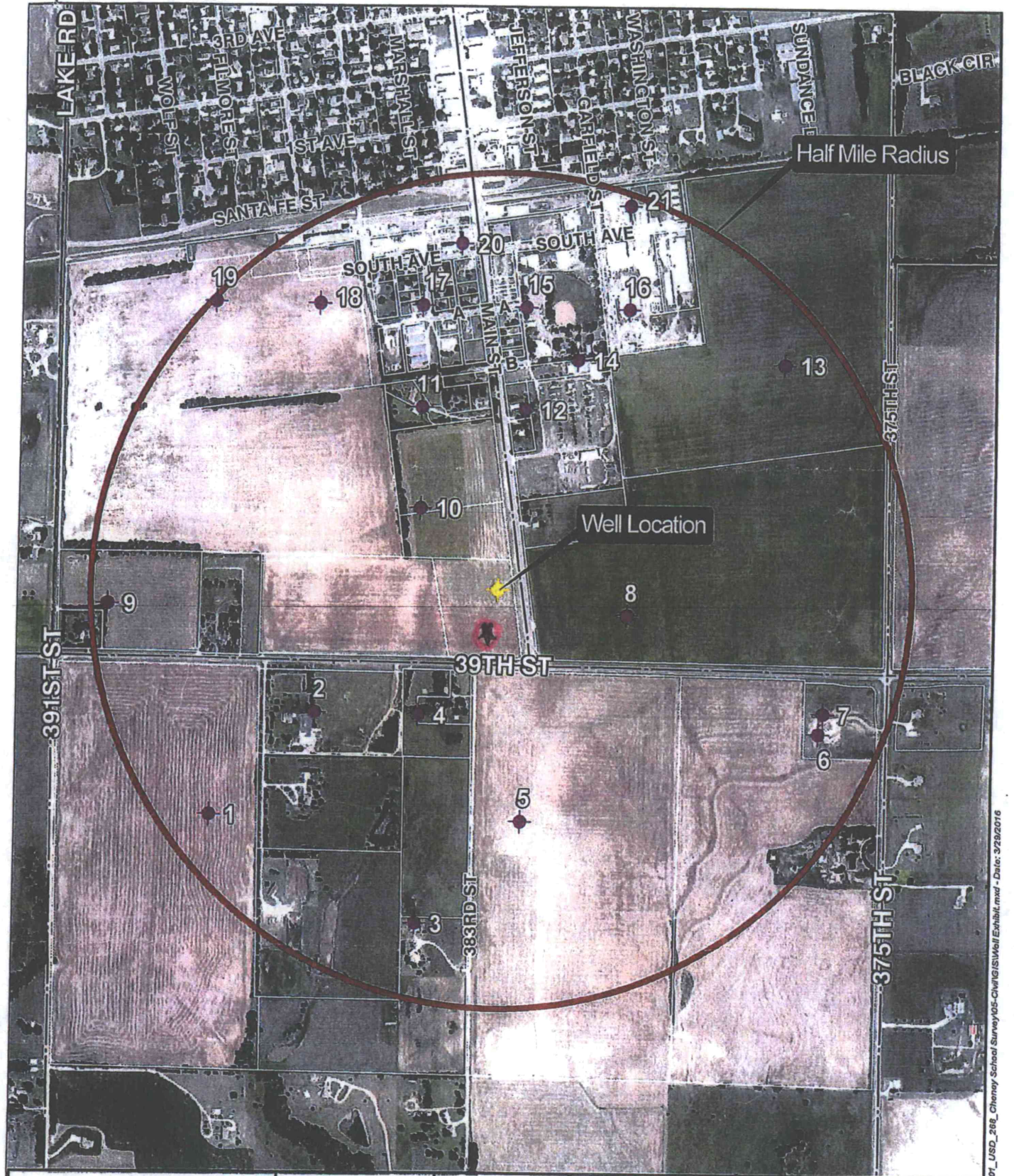
CONTRACTOR WITH ADDRESS & PHONE _____

SIGNATURE OF APPLICANT _____

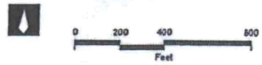
316-542-0185 - emize@cheneyks.org

IX. SITE OR PLOT PLAN - For Applicant Use





SEC: 8
TWP: T28S
RNG: R4W



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WELL EXHIBIT
CHENEY USD 268 SCHOOL
BASEBALL/SOFTBALL COMPLEX

PROJECT NO. 1402010501	DATE: 3/29/2016	SHEET NO.
DRAWN BY: JGD	DESIGNED BY: JGD	APPROVED BY: KLA
		1 OF 1

Path: J:\Projects\2014\1402010501_USD_268_Cheneyschool_Survey\05-ChiefGIS\Well\Exhibit.mxd - Date: 3/29/2016

S

#49,466

Analysis Results

The selected PD is in an area to new appropriations.
The safe yield, based on the variables listed below is 1,085.67 AF. -755.15=330.52 AF remaining
Total prior appropriation in the circle is 890.63 AF. -135.47=755.16
Total quantity of water available for appropriation is 195.04 AF.

MERTS
Safe Yield

Safe Yield Variables

The area used for the analysis is set at 8,042 acres.
Potential annual recharge of the area is estimated to be 2.16 inches.
The percent of recharge available for appropriation is 75%.

Authorized Quantity values are as of 17-MAY-2016 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 14 water right(s) and 21 point(s) of diversion within the circle.

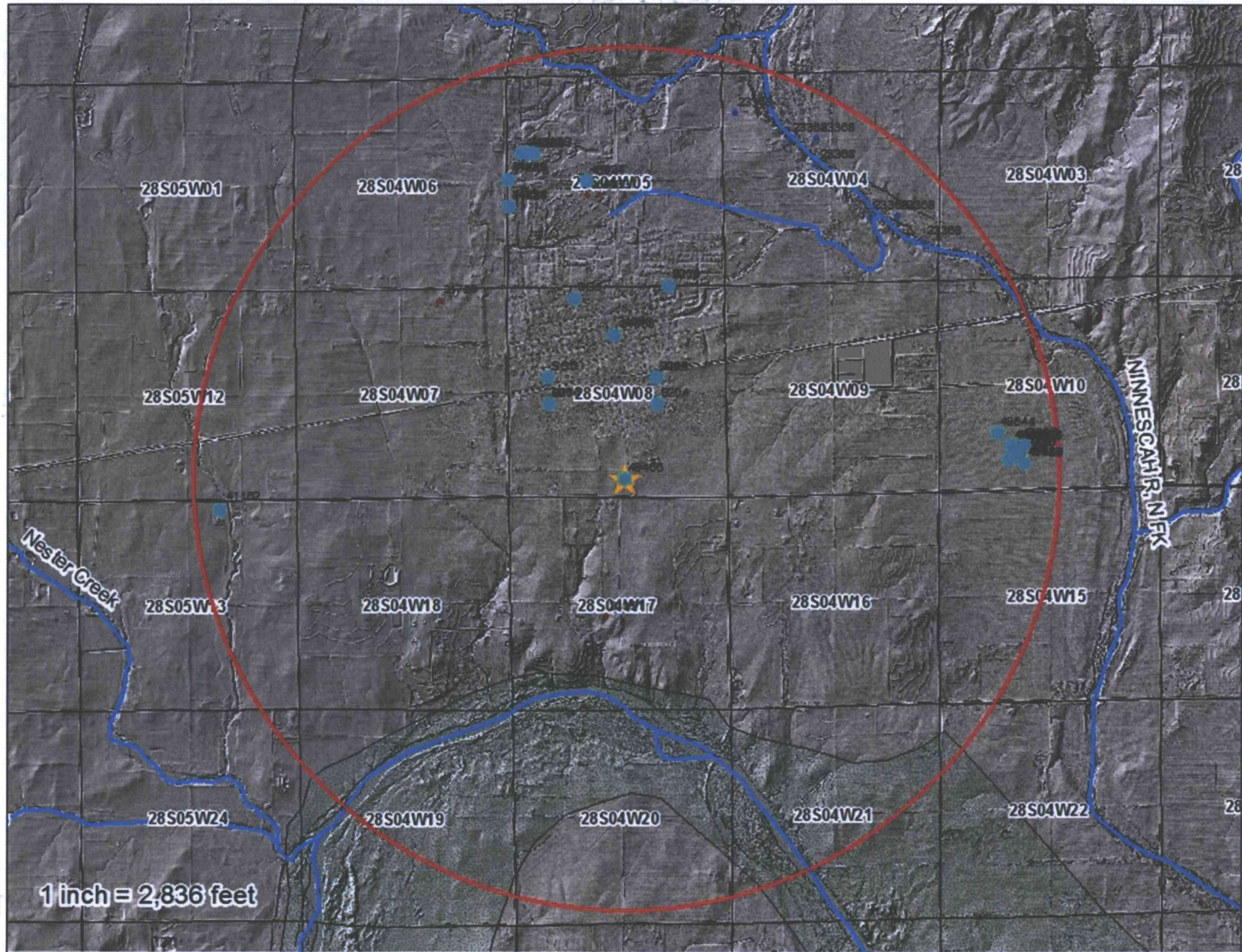
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A 2016 00	MUN	NK	G		NE	NW	SW	0	0	08	28	04W	4	WR	42.00	42.00		
Same	MUN	NK	G		SE	SW	NE	0	0	08	28	04W	3	WR				
Same	MUN	NK	G	SE	CR	SW	SE	0	0	05	28	04W	1	WR				
A 9204 00	MUN	NK	G		NE	NW	SW	0	0	08	28	04W	4	WR	91.53	54.36		
Same	MUN	NK	G		SE	SW	NE	0	0	08	28	04W	3	WR				
Same	MUN	NK	G	SE	CR	SW	SE	0	0	05	28	04W	1	WR				
Same	MUN	NK	G		NE	NW	SE	0	0	08	28	04W	5	WR				
A 31729 00	MUN	NK	G		SW	NW	SW	1960	5205	05	28	04W	2	PD	49.10	0.00		
Same	MUN	NK	G		SW	SW	NW	2645	5205	05	28	04W	3	PD	49.10	0.00		
A 34058 00	THX	NK	G					3994	2775	08	28	04W	6	WR	15.27	15.27		
A 41162 00	REC	NK	G		NE	NW	NE	4911	1867	13	28	05W	1	WR	2.08	2.08		
A 44884 00	MUN	KE	G		SW	NW	SW	1960	5205	05	28	04W	2	WR	131.72	131.72		
A 44885 00	MUN	KE	G		SW	SW	NW	2645	5205	05	28	04W	3	WR	87.80	87.80		
A 45839 00	IRR	NK	G		SW	SW	NW	3263	4788	05	28	04W	6	WR	118.00	118.00	136.00	136.00
Same	IRR	NK	G		SW	SW	NW	3258	4931	05	28	04W	10	WR				
Same	IRR	NK	G		SW	SW	NW	3268	4644	05	28	04W	11	WR				
A 46634 00	IRR	NK	G		NW	NE	SW	2591	3329	05	28	04W	12	WR	39.00	39.00	136.00	0.00
A 48126 00	IRR	KE	G		NW	SE	SW	1003	3627	10	28	04W	6	WR	139.10	139.10	107.00	107.00
Same	IRR	KE	G		NW	SE	SW	570	3303	10	28	04W	7	WR				
Same	IRR	KE	G		NW	SE	SW	1009	3304	10	28	04W	9	WR				
Same	IRR	KE	G		NW	SE	SW	662	3687	10	28	04W	10	WR				
Same	IRR	KE	G		NW	SE	SW	811	3480	10	28	04W	11	WR				
A 49450 00	IRR	AY	G		NW	SE	SW	1003	3627	10	28	04W	6	WR	162.50	0.00	125.00	0.00
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Same	IRR	AY	G		NW	SE	SW	1009	3304	10	28	04W	9	WR				
Same	IRR	AY	G		NW	SE	SW	662	3687	10	28	04W	10	WR				
Same	IRR	AY	G		NW	SE	SW	811	3480	10	28	04W	11	WR				
A 49466 00	IRR	AY	G		SW	SW	SE	469	2503	08	28	04W	8	WR	21.07	21.07	16.22	16.22
A 49544 00	IRR	AY	G			SW		1320	3960	10	28	04W	12	WR	114.40	114.40	88.00	69.00
V SG 5 00	MUN	AA	G		NW	NE	NW	0	0	08	28	04W	1	WR	125.82	125.82		
Same	MUN	AA	G		SE	SW	NW	0	0	08	28	04W	2	WR				

755.15 approved

being approved

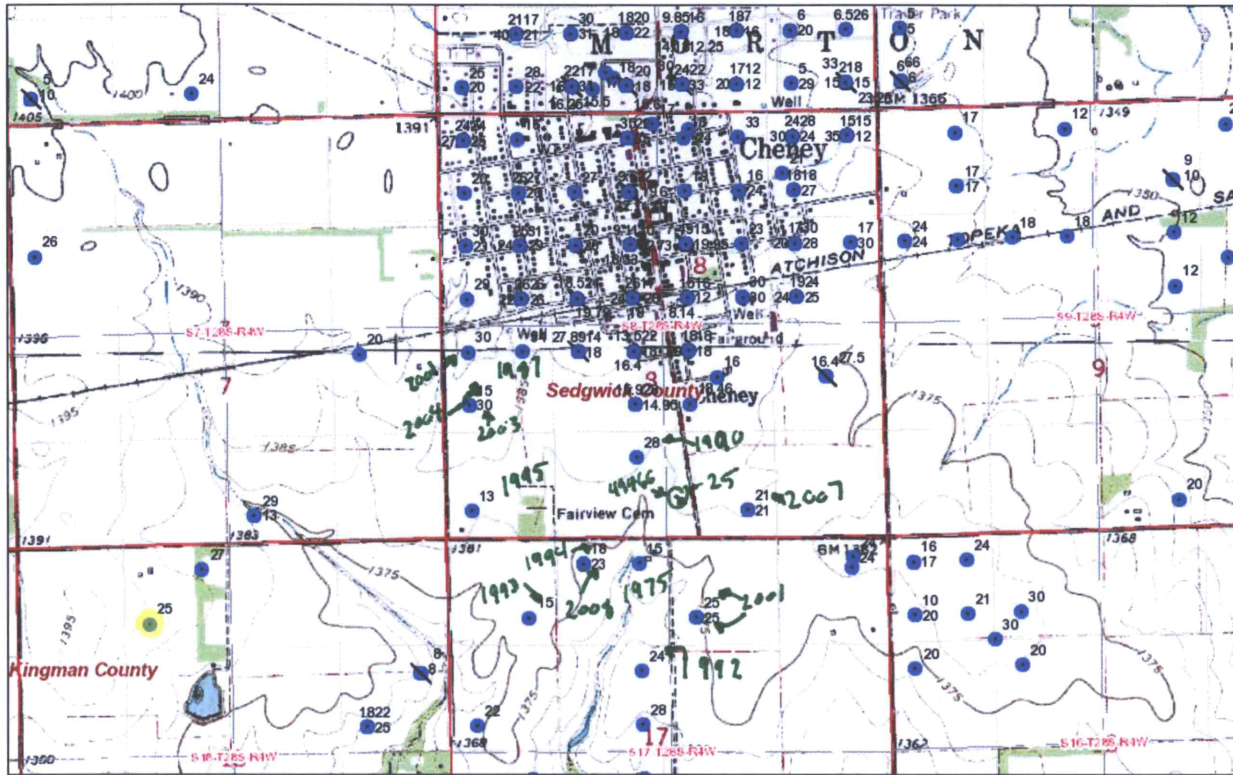
135.47 pending

Safe Yield Report Sheet
Proposed Water Right Application
Point of Diversion in NWSWSWSE 08-28S-04W

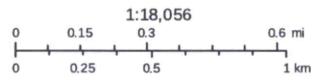


Extra Info

Static Water Levels



May 17, 16



Sources: Esri, HERE, DeLorme, USGS, Intermap, Increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand).

Kansas Geological Survey
<http://maps.kgs.ku.edu/wvcs>

