

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

1. File Number: 49,775	2. Status Change Date: 5/2/2017	3. Field Office: 01	4. GMD: 0
5. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return			
6. Enclosures: <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N of C Form <input checked="" type="checkbox"/> Water Tube <input checked="" type="checkbox"/> Driller Copy <input checked="" type="checkbox"/> Meter			
<p>7a. Applicant(s) New to system <input type="checkbox"/></p> <p style="text-align: right;">Person ID 65391 Add Seq# _____</p> <p>ROGER D BECKER TRUST 1095 52ND RD CORNING KS 66417</p>	<p>7c. Landowner(s) New to system <input type="checkbox"/></p> <p style="text-align: right;">Person ID _____ Add Seq# _____</p>		
<p>7b. Landowner(s) New to system <input type="checkbox"/></p> <p style="text-align: right;">Person ID _____ Add Seq# _____</p>	<p>7d. Misc. New to system <input type="checkbox"/></p> <p style="text-align: right;">Person ID _____ Add Seq# _____</p> <p>MIDWEST IRRIGATION % KEITH GRIMM 2991 GOLDFINCH RD HIAWATHA KS 66434 8371</p>		
<p>8. WUR Correspondent New to system <input type="checkbox"/></p> <p>Overlap File (s) WUC Agree <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>7a.</p> <p style="text-align: right;">Person ID _____ Add Seq# _____ Notarized WUC Form <input type="checkbox"/></p>	<p>9. Use of Water: Changing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water</p> <p><input checked="" type="checkbox"/> IRR <input type="checkbox"/> REC <input type="checkbox"/> DEW <input type="checkbox"/> MUN</p> <p><input type="checkbox"/> STK <input type="checkbox"/> SED <input type="checkbox"/> DOM <input type="checkbox"/> CON</p> <p><input type="checkbox"/> HYD DRG <input type="checkbox"/> WTR PWR <input type="checkbox"/> ART RECHRG</p> <p><input type="checkbox"/> IND SIC: _____ <input type="checkbox"/> OTHER: _____</p>		
10. Completion Date: 12/31/2018		11. Perfection Date: 12/31/2022	
12. Exp Date: _____			
13. Conservation Plan Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date Required: _____ Date Approved: _____ Date to Comply: _____			
14. Water Level Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date to Comply: _____ Date WLMD Installed: _____			
<p>Date Prepared: 4/13/2017 By: DWS</p> <p>Date Entered: 5/3/2017 By: LLM</p>			

File No. 49,775	15. Formation Code: 100	Drainage Basin: VERMILLION CREEK ¹²	County: NM	Special Use:	Stream:																																																																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="10">16. Points of Diversion</th> <th colspan="5">17. Rate and Quantity</th> </tr> <tr> <td>T MOD DEL ENT</td> <td>PDIV</td> <td>Qualifier</td> <td>S</td> <td>T</td> <td>R</td> <td>ID</td> <td>'N</td> <td>'W</td> <td></td> <td></td> <td>Authorized Rate gpm</td> <td>Quantity af</td> <td>Additional Rate gpm</td> <td>Quantity af</td> <td>Overlap PD Files</td> </tr> <tr> <td>MOD</td> <td>85898</td> <td>NE NE NE</td> <td>34</td> <td>4</td> <td>12E</td> <td>1</td> <td>5081</td> <td>527 (Geo-Ctr)</td> <td></td> <td></td> <td>800</td> <td>290</td> <td>800</td> <td>290</td> <td>None</td> </tr> <tr> <td>ENT</td> <td>86098</td> <td>NE NE NE</td> <td>34</td> <td>4</td> <td>12E</td> <td></td> <td>5081</td> <td>402 Batt 1 of 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ENT</td> <td>86099</td> <td>NE NE NE</td> <td>34</td> <td>4</td> <td>12E</td> <td></td> <td>5081</td> <td>277 Batt 1 of 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ENT</td> <td>86100</td> <td>NE NE NE</td> <td>34</td> <td>4</td> <td>12E</td> <td></td> <td>5081</td> <td>652 Batt 1 of 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ENT</td> <td>86101</td> <td>NW NE NE</td> <td>34</td> <td>4</td> <td>12E</td> <td></td> <td>5081</td> <td>777 Batt 1 of 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="10" style="text-align:center;">Battery ID # 2027</td> <td colspan="5"></td> </tr> </table>						16. Points of Diversion										17. Rate and Quantity					T MOD DEL ENT	PDIV	Qualifier	S	T	R	ID	'N	'W			Authorized Rate gpm	Quantity af	Additional Rate gpm	Quantity af	Overlap PD Files	MOD	85898	NE NE NE	34	4	12E	1	5081	527 (Geo-Ctr)			800	290	800	290	None	ENT	86098	NE NE NE	34	4	12E		5081	402 Batt 1 of 4								ENT	86099	NE NE NE	34	4	12E		5081	277 Batt 1 of 4								ENT	86100	NE NE NE	34	4	12E		5081	652 Batt 1 of 4								ENT	86101	NW NE NE	34	4	12E		5081	777 Batt 1 of 4								Battery ID # 2027														
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19. Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____ Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____																																																																																																																																			
20. Meter Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No To be installed by 12/31/2018 Date Acceptable Meter Installed _____																																																																																																																																			
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KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources
MEMORANDUM

TO: Files

DATE: April 13, 2017

FROM: Doug Schemm

RE: Application, File No. 49,775

Roger Becker Trust has filed the referenced application to appropriate 290 acre-feet of groundwater from a battery of four wells at a rate of diversion of 800 gallons per minute to irrigate 295 acres in Nemaha County, within the Vermillion Creek Drainage Basin. The proposed place of use is wholly owned by the applicant. There are no overlapping files in place of use or point of diversion. The requested quantity of 290 acre-feet for the irrigation of 295 acres of land is slightly less than the 1.1 acre-feet per acre, which is the maximum allowable quantity for irrigation in Nemaha County per K.A.R. 5-3-19. However, it is certainly reasonable for this area of the state, where irrigation is used to supplemental normal precipitation.

The applicant did not identify any domestic wells within one-half mile, and the map was signed to verify this. A review of aerial photograph and the KGS WWC-5 database does not show any nearby domestic wells either. The WRIS database shows there are no other permitted wells within the two-mile circle. No nearby well owner letters are required. The proposed point of diversion, geographic center of the well battery, meets minimum well spacing criteria to all other wells.

Based on the geographical location of the wells, and the test hole lithology, it appears that the source of supply is groundwater from glacial drift deposits. This is also consistent with the source of water for area domestic and KGS test holes. A well log provided with the application shows the primary aquifer consists of a gravel zone approximately 10 feet in thickness, extending from 368 feet to 378 feet below ground surface, where shale bedrock was encountered. This thickness corresponds with the deposit thickness shown on the "Saturated Thickness and Specific Yield of Cenozoic Deposits in Kansas" map by Bayne and Ward, 1967, which shows glacial deposits of roughly 360 feet thick in this local area. In addition, a KGS test hole in the NW $\frac{1}{4}$ of the same section as the proposed well (Section 34), encountered a gravel zone immediately above bedrock extending from 330 feet to 334 feet.

Further review of the "Geohydrology of Nemaha County, Northeastern Kansas" also shows that several other wells in this local area have total depths exceeding 300 feet and are all producing from glacial drift deposits. Figure 6 of this publication shows that the well is in the deepest portion of a glacial valley that extends from southwest to northeast across this area. The well depths and thickness contours clearly indicate that significant glacial drift deposits extend throughout this area.

Per the requirements in K.A.R. 5-3-11, safe yield is determined by the extent of the unconfined aquifer (glacial drift), within a two-mile circle radius of the point of diversion, which establishes the area of consideration. As detailed above, DWR staff reviewed domestic well logs, test hole log data, and published reports, and based on this review the glacial aquifer extends across the entire circle. Therefore, the area of consideration is 8,042 acres. With a potential annual recharge of 4.6 inches, and 100% of recharge available for appropriation, safe yield was determined to be 3,089 acre-feet. There are no existing water rights, so the entire quantity of water is available for appropriation, and the application meets safe yield criteria.

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. In an April 11, 2017 discussion, Katie Tietsort, Water Commissioner, Topeka Field Office, recommended approval of the referenced application. 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.

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

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



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

Jackie McClaskey, Secretary

Governor Sam Brownback

May 3, 2017

ROGER D BECKER TRUST
1095 52ND RD
CORNING KS 66417

Re: Appropriation of Water, File No. 49,775

FILE COPY

Dear Mr. Becker:


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

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

Failure to notify the Chief Engineer of the Division of Water Resources of the completion of the diversion works within the time allowed, or within any authorized extension of time thereof, will result in the dismissal of this permit. Enclosed is a form which may be used to notify the Chief Engineer that the proposed diversion works have been completed. All requests for extensions of time to complete diversion works, or to perfect appropriations, must be submitted to the Chief Engineer before the expiration of time originally set forth in the permit to complete diversion works or to perfect an appropriation. If for any reason, you require an extension of time, you must request it before the expiration of time set forth in this permit. Failure to comply with this regulation will result in the dismissal of your permit or your water right. Any request for an extension of time shall be accompanied by the required statutory fee, which is currently \$100.00.

There is also enclosed an information sheet setting forth the procedure to obtain a Certificate of Appropriation which will establish the extent of your water right. If you have any questions, please contact our office. If you wish to discuss this specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,


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

BAT:dws
Enclosures

pc: Topeka Field Office
Keith Grimm - MWI

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

**APPROVAL OF APPLICATION
and
PERMIT TO PROCEED**
(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application, File No. **49,775** of the applicant

**ROGER D BECKER TRUST
1095 52ND RD
CORNING KS 66417**

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 **February 15, 2017**.
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				
33	4S	12E																35	40	40	40	155
34	4S	12E	40	40	40	20																140

3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of a battery of four (4) wells with a geographic center located in the Northeast Quarter of the Northeast Quarter of the Northeast Quarter (NE¼ NE¼ NE¼) of Section 34, more particularly described as being near a point 5,081 feet North and 527 feet West of the Southeast corner of said section, in Township 4 South, Range 12 East, Nemaha County, Kansas, located substantially as shown on the topographic map accompanying the application.

4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of **800 gallons per minute (1.78 c.f.s.)** and to a quantity not to exceed **290 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, 2018**, or within any authorized extension thereof. The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee, which is currently \$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 accompanied by the required statutory fee, which is currently \$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, 2022**, 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, which is currently \$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 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. This tube or device shall be suitable for making water level measurements and shall be maintained in a condition satisfactory to the Chief Engineer.
13. That an acceptable water flow meter shall be installed and maintained on the diversion works authorized by this permit in accordance 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).
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 this permit is limited such that all wells shall be located within a three hundred (300) foot radius circle, in the same local source of supply, and shall supply water to a common distribution system.

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

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

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

Any request for hearing or petition for administrative review shall be in writing and shall be submitted to the attention of: Chief Legal Counsel, Kansas Department of Agriculture, 109 SW 9th Street, 4th Floor, Topeka, Kansas 66612, Fax: (785) 368-6668.

Ordered this *2nd* day of *May*, 2017, in Topeka, Shawnee County, Kansas.

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 *2nd* day of *May*, 2017, by Lane P. Letourneau, P.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.



Danielle Wilson

Notary Public

CERTIFICATE OF SERVICE

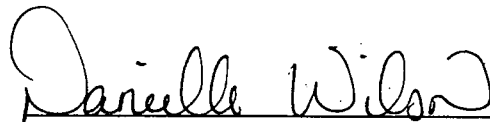
On this 3rd day of May, 2017, I hereby certify that the foregoing Approval of Application, File No. 49,775, dated May 2nd, 2017 was mailed postage prepaid, first class, US mail to the following:

ROGER D BECKER TRUST
1095 52ND RD
CORNING KS 66417

With photocopies to:

MIDWEST IRRIGATION
% KEITH GRIMM
2991 GOLDFINCH RD
HIAWATHA KS 66434 8371

Topeka Field Office



Division of Water Resources

APPLICATION COMPLETE

416 12017
Reviewer DWS



KANSAS DEPARTMENT OF AGRICULTURE
Dale A. Rodman, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number 49775
This item to be completed by the Division of Water Resources.

WATER RESOURCES
RECEIVED

FEB 15 2017
12:36
KS DEPT OF AGRICULTURE

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.)

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture,
109 SW 9th Street, Second Floor, Topeka, KS 66612-1283:

1. Name of Applicant (Please Print): Roger D. Becker Trust
Address: 1095 52nd Rd
City: CORNING State KS Zip Code 66417
Telephone Number: (785) 868 3255

2. The source of water is: surface water in _____ (stream)
OR groundwater in Vermillion River (drainage basin)

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

3. The maximum quantity of water desired is 290 acre-feet OR _____ gallons per calendar year, to be diverted at a maximum rate of 800 gallons per minute OR _____ cubic feet per second.

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

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

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

For Office Use Only:
F.O. 1 GMD 0 Meets K.A.R. 5-3-1 (YES/NO) Use FLR Source (G) S County NM By NW Date 2/15/17
Code REA Fee \$ 300 TR # _____ Receipt Date 2/15/17 Check # 15218

SCANNED
2/15/2017 UEM

* Per site map and well log, ^{geo-center} well is in the NE NE NE, DWS/DWR 4/3/17

File No. 49775

** (A) is geo center of 4 well Battery. DWS/DWR 4/6/17

** 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.

Geo center * (A)

One in the NE quarter of the NE quarter of the NE quarter of Section 34, more particularly described as being near a point 241 ⁵⁰⁸¹ feet North and 527 feet West of the Southeast corner of said section, in Township 4 South, Range 12 East West (circle one), Nemaha County, Kansas.

Batt log 4 (B)

One in the NE quarter of the NE quarter of the NE quarter of Section 34, more particularly described as being near a point 5081 feet North and 402 feet West of the Southeast corner of said section, in Township 4 South, Range 12 East West (circle one), NM County, Kansas.

Batt 2 of 4 (C)

One in the NE quarter of the NE quarter of the NE quarter of Section 34, more particularly described as being near a point 5081 feet North and 277 feet West of the Southeast corner of said section, in Township 4 South, Range 12 East West (circle one), NM County, Kansas.

Batt 3 of 4 (D)

One in the NE quarter of the NE quarter of the NE quarter of Section 34, more particularly described as being near a point 5081 feet North and 652 feet West of the Southeast corner of said section, in Township 4 South, Range 12 East West (circle one), NM 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.

BATT 4 of 4 - NWNE 5081' N & 777' W 34-4S-12 E NM Co.

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

same

(name, address and telephone number)

(name, address and telephone number)

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

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

Executed on 1/31, 2017.

Roger D Becker Justice
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 Battery of 4 wells (Line up East to West) (number of wells, pumps or dams, etc.)

and (was)(will be) completed (by) July 1st 2017 (Month/Day/Year - each was or will be completed) per applicant DWS/DWR 4/6/17

8. The first actual application of water for the proposed beneficial use was or is estimated to be July 1st 2017 (Month/Day/Year) 4/6/17

WATER RESOURCES RECEIVED

FEB 15 2017

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KS DEPT OF AGRICULTURE

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.

no

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 1/2 mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please advise us. *none*
- (c) If the application is for surface water, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.
- (d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.
- (e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.

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

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

none known

WATER RESOURCES
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FEB 15 2017

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.

Attached

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

owner
(owner, tenant, agent or otherwise)

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

same
(name, address and telephone number)

(name, address and telephone number)

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

Dated at Hiawatha, Kansas, this 31 day of January, 2017.
(month) (year)

Roger S. Becker
(Applicant Signature)

APPLICANT(S) SOCIAL SECURITY IDENTIFICATION NUMBER(S)

By _____
(Agent or Officer Signature)

and/or
APPLICANT(S) TAXPAYER I.D. NO.(S)

(Agent or Officer - Please Print)

Assisted by Keith Gomer MWT
(office/title)

Date: 1-31-17

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FEB 15 2017

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* Per Site Map area with house ≈ 5 acres.

DWS/DWR 3/30/17

49775

IRRIGATION USE SUPPLEMENTAL SHEET

File No. _____

Name of Applicant (Please Print): Roger D Becker Trust

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: Roger D Becker Trust

ADDRESS: 1095 52nd Rd Corning Ks 66417

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL			
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE				
34	4S	12E	40	40	40	20													140			
*	33	4S																35 30	40	40	40	180

Total = 295 acres

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						

WATER RESOURCES
RECEIVED

49775

WATER WELL RECORD Form WWC-5

Original Record Correction Change in Well Use

Division of Water Resources App. No.

[Blank Box]

Well ID

[Blank Box]

1 LOCATION OF WATER WELL: County: Nemaha Fraction NW 1/4 NE 1/4 NE 1/4 NE 1/4 Section Number 34 Township Number T 4 S Range Number R 12 E W

2 WELL OWNER: Last Name: Becker First: Royce Business: 4-R Farms Address: 1095 52nd Rd City: Coming State: KS ZIP: 66417 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: [] .5 mile N on K Rd off 52nd Rd the West in pasture 1/8 mile

3 LOCATE WELL WITH "X" IN SECTION BOX: [Diagram showing a 4-quadrant section box with 'X' in the NE quadrant]

4 DEPTH OF COMPLETED WELL: 395 ft. Depth(s) Groundwater Encountered: 1) 368 ft. 2) ... ft. 3) ... ft., or 4) [] Dry Well WELL'S STATIC WATER LEVEL: 256 ft. [] below land surface, measured on (mo-day-yr) 07/28/2016 [] above land surface, measured on (mo-day-yr) ... Pump test data: Well water was ... ft. after ... hours pumping ... gpm Well water was ... ft. after ... hours pumping ... gpm Estimated Yield: 200 gpm Bore Hole Diameter: 12 in. to 395 ft. and ... in. to ... ft.

5 Latitude: 39.667076 (decimal degrees) Longitude: 96.053692 (decimal degrees) Datum: [] WGS 84 [] NAD 83 [] NAD 27 Source for Latitude/Longitude: [] GPS (unit make/model: ...) (WAAS enabled? [] Yes [] No) [] Land Survey [] Topographic Map [] Online Mapper: ...

6 Elevation: 1379 ft. [] Ground Level [] TOC Source: [] Land Survey [] GPS [] Topographic Map [] Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic: [] Household [] Lawn & Garden [] Livestock [] Irrigation [] Feedlot [] Industrial 5. [] Public Water Supply: well ID ... 6. [] Dewatering: how many wells? ... 7. [] Aquifer Recharge: well ID ... 8. [] Monitoring: well ID ... 9. Environmental Remediation: well ID ... [] Air Sparge [] Soil Vapor Extraction [] Recovery [] Injection 10. [] Oil Field Water Supply: lease ... 11. Test Hole: well ID ... [] Cased [] Uncased [] Geotechnical 12. Geothermal: how many bores? ... a) Closed Loop [] Horizontal [] Vertical b) Open Loop [] Surface Discharge [] Inj. of Water 13. [] 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 6 in. to 395 ft. Diameter ... in. to ... ft. Diameter ... in. to ... ft. Casing height above land surface 24 in. Weight ... lbs./ft. Wall thickness or gauge No. SDR17

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

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 355 ft. to 395 ft. From ... ft. to ... ft. From ... ft. to ... ft. GRAVEL PACK INTERVALS: From 20 ft. to 395 ft. From ... ft. to ... ft. From ... ft. to ... ft.

9 GROUT MATERIAL: [] Neat cement [] Cement grout [] Bentonite [] Other Grout Intervals: From 0 ft. to 20 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? SE Distance from well? 150 ft.

Table with columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-72 Brown clay, 72-199 Grey clay, 199-203 Fine sand, 203-207 Grey clay, 207-209 Fine sand, 209-368 Grey clay, 368-378 Large gravel, 378-397 Grey shale. Includes 'Notes: KS DEPT OF AGRICULTURE' and 'WATER RESOURCES RECEIVED FEB 15 2017'.

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) 07/28/2016 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 760 This Water Well Record was completed on (mo-day-year) 07/28/2016 under the business name of Associated Drilling, Inc.

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 66612-1367. Telephone 785-296-3565. Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212

SCANNED

Schemm, Doug

From: Keith Grimm <Keith@mwivalley.com>
Sent: Thursday, April 6, 2017 9:48 AM
To: Schemm, Doug
Subject: RE: Roger Becker 49,775
Attachments: Becker Site Map.pdf

Doug

Lets go east west line for now. Thanks Keith

From: Schemm, Doug [mailto:Doug.Schemm@ks.gov]
Sent: Monday, April 3, 2017 12:37 PM
To: Keith Grimm <Keith@mwivalley.com>
Subject: Roger Becker 49,775

Hello Keith,

This is one you assisted with in the NE ¼ of Section 34, T4, R12E in Nemaha Co.

It came in with the well labeled as 2,441' North. However, your site map, drill log, and description shows it to 5,081 feet north. Is that correct?

Also can you let me know how you want the individual wells in the battery set up? Like in an east-west line or wells to the north/south/east/west pattern.

Finally, would it be possible for you to print the map, sign at the bottom that there are no wells, and send it back to me?

Thanks, Doug

#49,775

meets safe yield

Analysis Results

The selected PD is in an area to new appropriations.
The safe yield, based on the variables listed below is 3,089.47 AF.
Total prior appropriation in the circle is 290.00 AF.
Total quantity of water available for appropriation is 2,799.47 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 4.61 inches.
The percent of recharge available for appropriation is 100%.

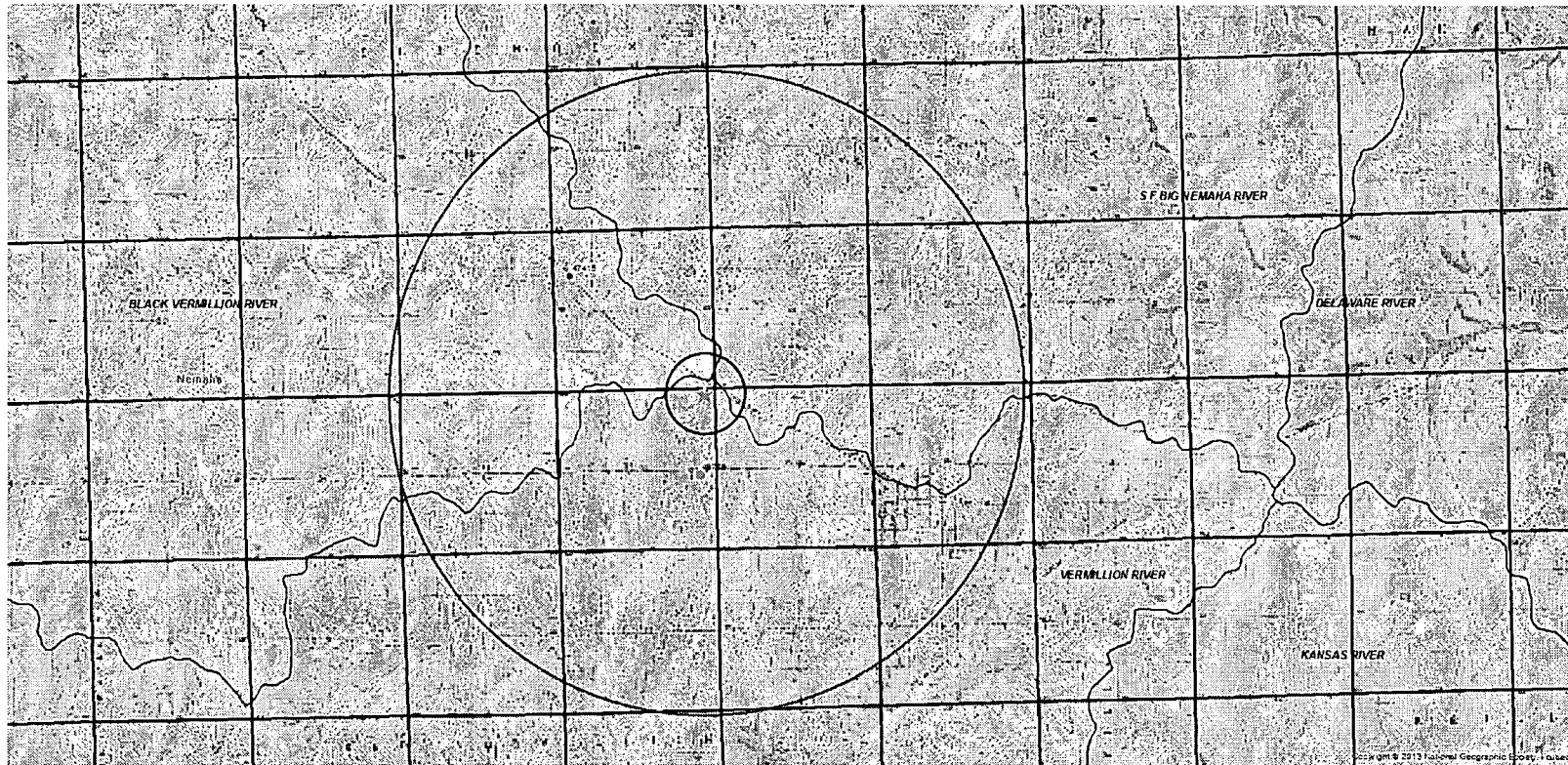
Authorized Quantity values are as of 03-APR-2017 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 1 water right(s) and 1 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	49775	00	IRR	AY	G		NE	NE	NE	2441	527	34	04	12E	1	WR	290.00	290.00	290.00	290.00

#49,775
Glacial deposit
source

Safe Yield Report Sheet
Proposed Water Right Application
Point of Diversion in NENENENE 34-04S-12E
FILE NO. 49,775 (5,081'N & 527'W)



Although the potentiometric surface is continuous in the alluvium of South Fork Big Nemaha River and Turkey Creek, there are not enough data to show the surface in detail. Large areas of the uplands are underlain by isolated deposits of saturated sand and gravel that are separated by great thicknesses of relatively impermeable glacial till. Water in the sand and gravel deposits may be semiconfined (semiartesian) or unconfined.

Greatest saturated thicknesses generally are in areas that are underlain by buried valleys filled with large thicknesses of glacial materials (fig. 5). Locally, however, the valleys are filled by relatively impermeable till that yields little water to wells. Often, a shallow aquifer is underlain by till of low permeability so that the effective water-producing zone is much less than the saturated thickness of glacial deposits. The unconsolidated deposits thin near valley walls and bedrock highs, resulting in less saturated thickness. In most areas where 20 to 30 feet of saturation exists, thin sand or gravel deposits should yield sufficient quantities of water for domestic and stock use. The range in yields to wells from the unconsolidated deposits (fig. 6) is related both to the saturated thickness and the permeability of the water-producing material.

Figure 5--Saturated thickness of unconsolidated deposits, 1968-72.

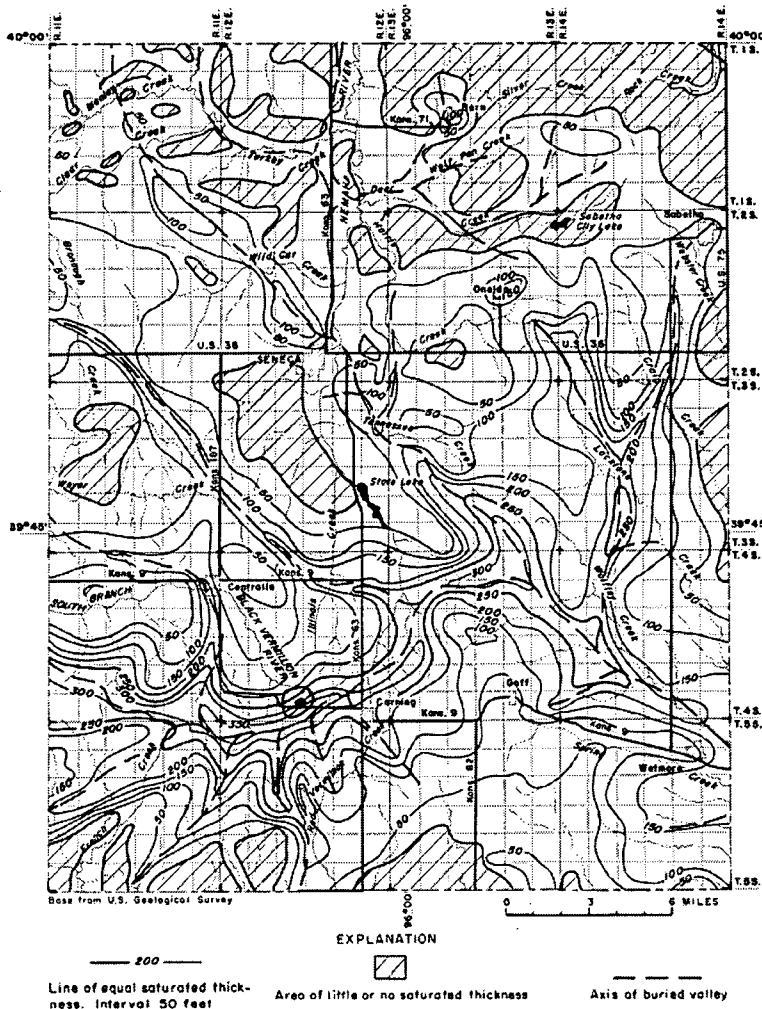
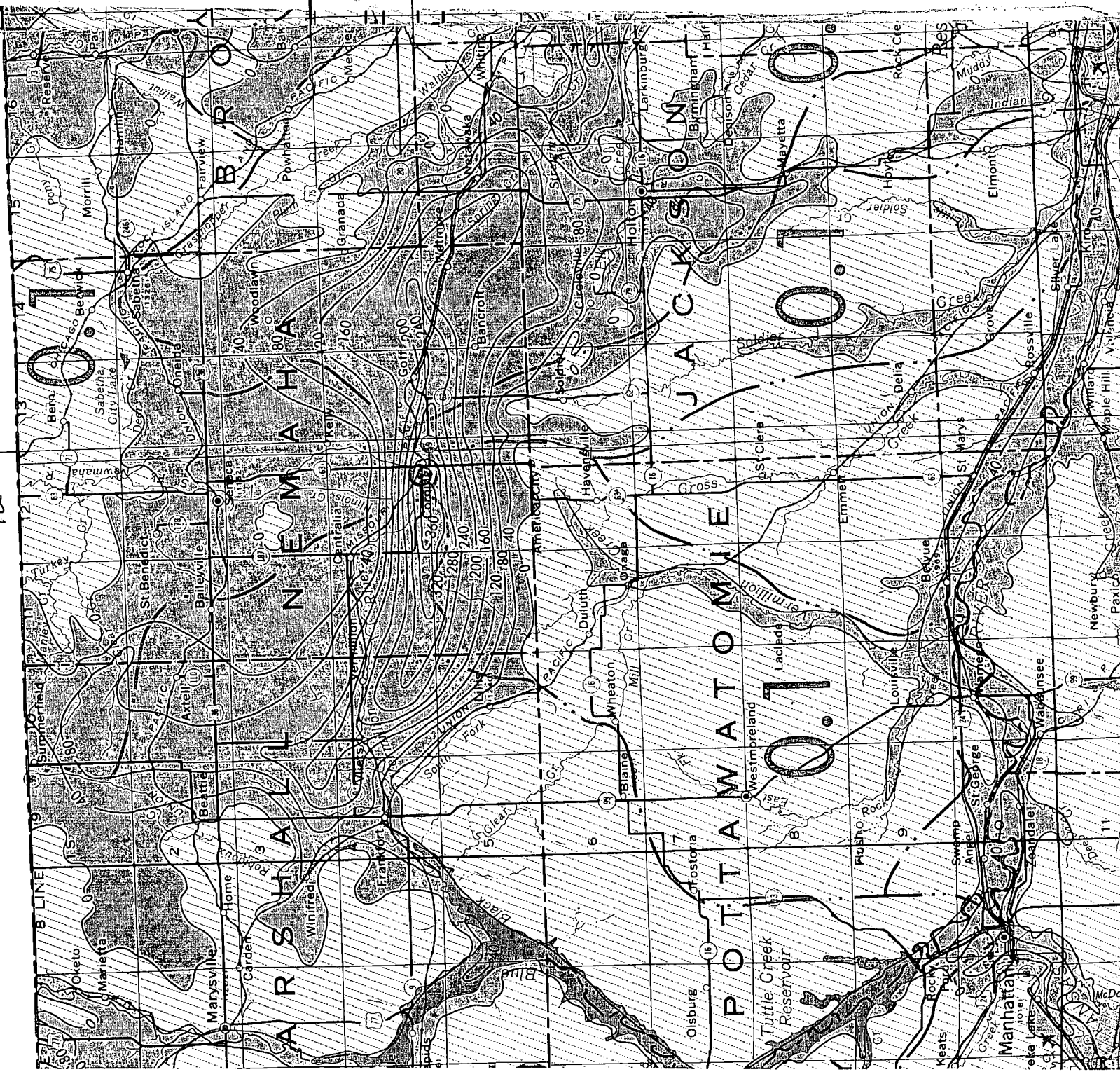


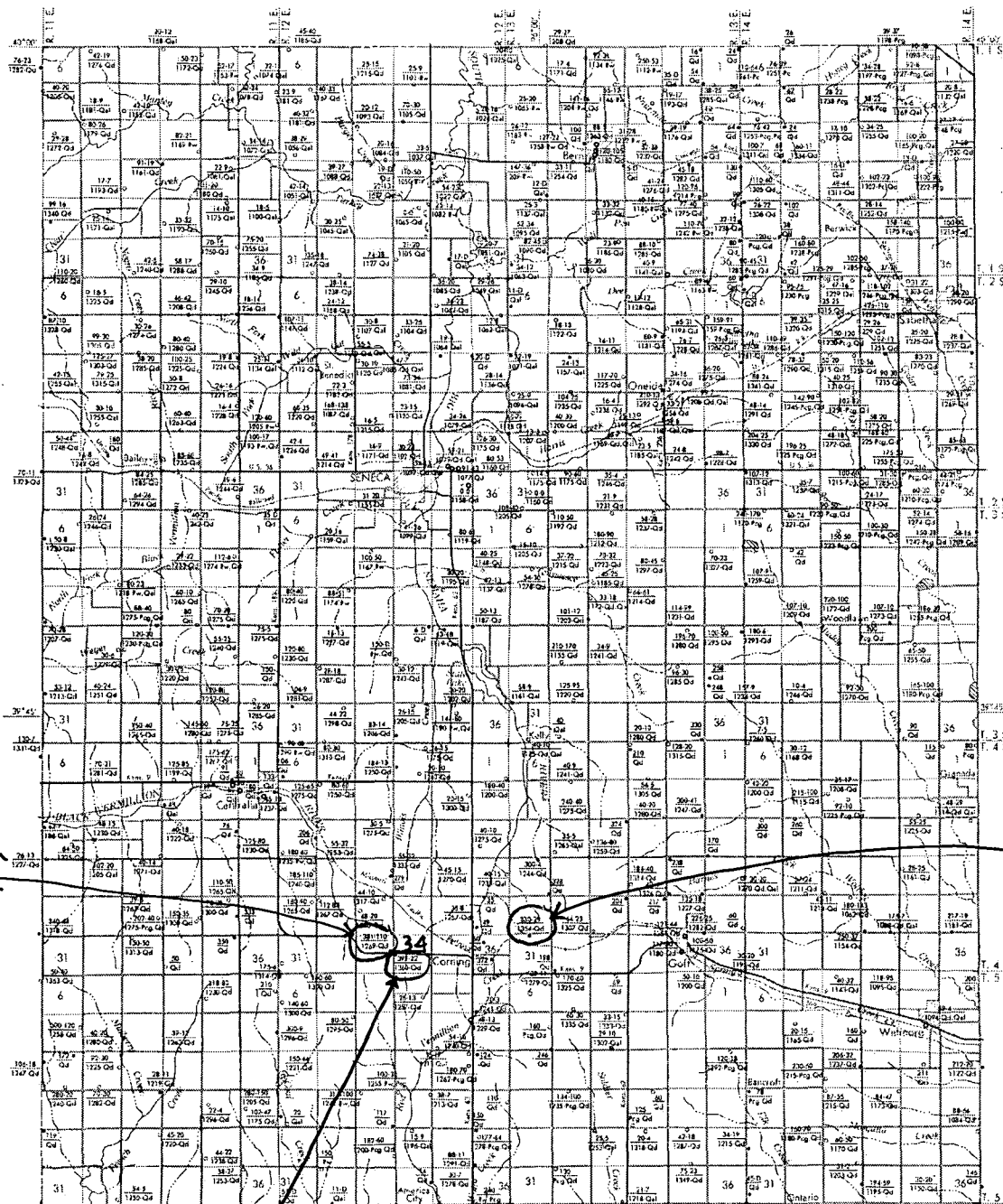
Figure 6--Generalized yields to wells in uncolidated deposits, 1968-72.

≈ 330' thickness

96°

12





EXPLANATION

Domestic or stock well

Public supply well

Spring

Public supply spring

Observation well

Test hole

Upper left number is depth of well or test hole, in feet below land surface; second number (when shown) is depth to water level, in feet below land surface (0 indicates dry hole). Lower left number is altitude of water level, in feet above mean sea level; second symbol is aquifer (see list below)

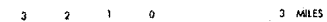
- Qd - Alluvium and terrace deposits
- Od - Glacial drift
- Pc - Chase Group
- Pg - Council Grove Group
- Fw - Wabaussee Group

Area of artesian flow



APPROXIMATE MEAN DECLINATION, 1973

Scale 1:25 000



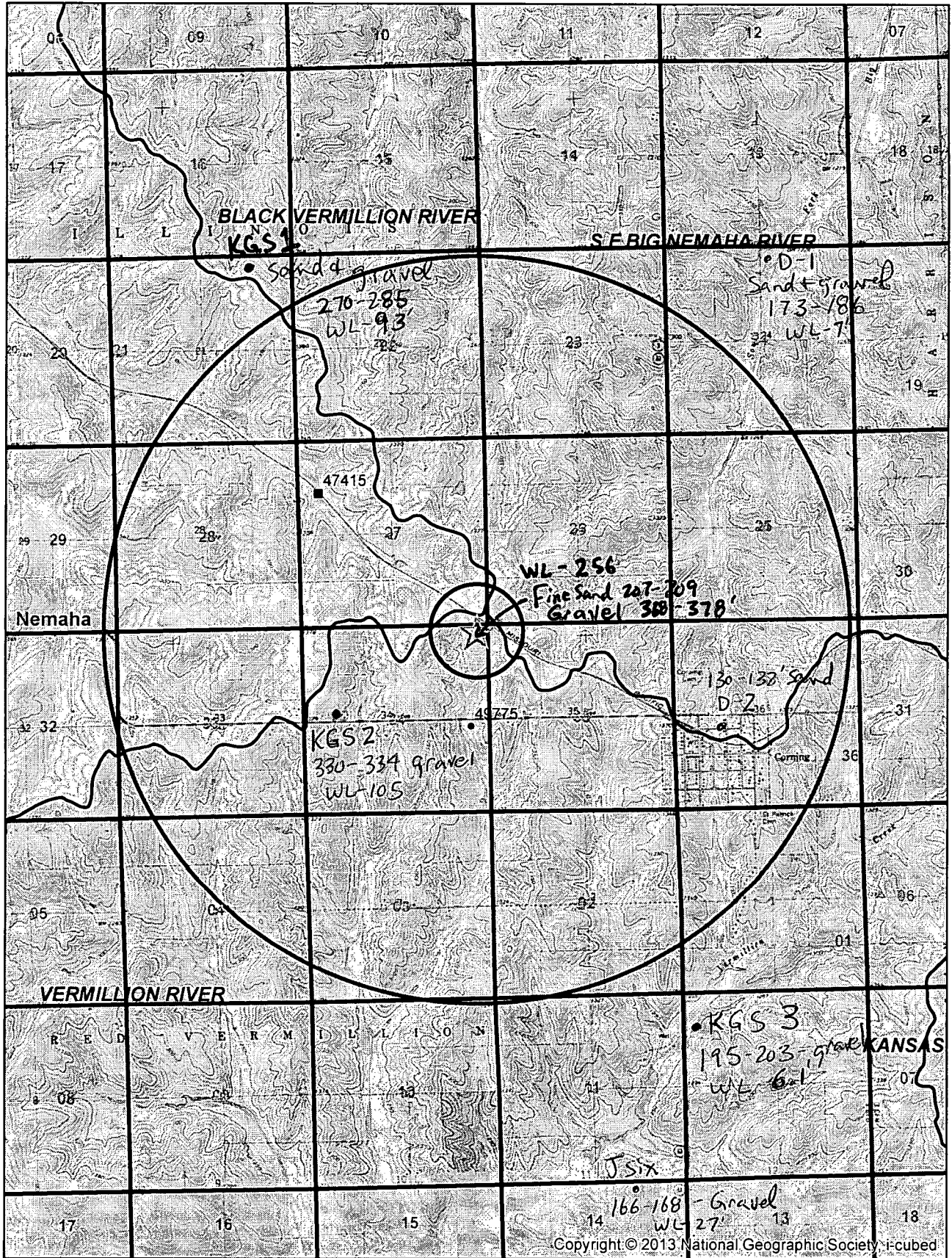
381' depth
110' water
Drift

330' depth
29' water
Drift

393' depth
22' water
glacial drift

Base from U.S. Geological Survey, Nemaha, 1952, and Kansas City, 1960. Illustration prepared by Lenne J. Cobin

Prepared by the Kansas Geological Survey and the U.S. Geological Survey in cooperation with the Division of Environmental Health of the Kansas State Department of Health and the Division of Water Resources of the Kansas State Board of Agriculture



1:48,000

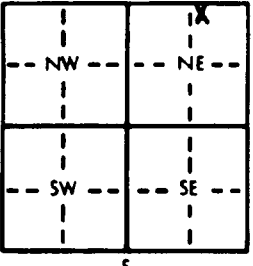
KGS 1

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

1) LOCATION OF WATER WELL: County: Nemaha	Fraction NW 1/4 NE 1/4 NE 1/4	Section Number 21	Township Number T 4 S	Range Number R 12 EW
---	---	-----------------------------	---------------------------------	---------------------------------------

Distance and direction from nearest town or city street address of well if located within city?
2 miles west, 2 1/2 miles north, and 1/4 mile west of Corning

2) WATER WELL OWNER: **KGS**
 RR#, St. Address, Box #: **1930 Constant Ave** Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: **Lawrence, KS 66046** Application Number:

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


4) DEPTH OF COMPLETED WELL: **285** ft. ELEVATION: **1360±**
 Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL **93** ft. below land surface measured on mo/day/yr **6/2/86**
 Pump test data: Well water was ft. after hours pumping gpm
 Est. Yield gpm: Well water was ft. after hours pumping gpm
 Bore Hole Diameter **9 7/8** in. to **285** ft. and **5 1/2** in. to **286** ft.
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Observation well **Monitoring & Research**
 Was a chemical/bacteriological sample submitted to Department? Yes. No. **X**; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes No **X**

5) TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued **X** Clamped
 2 **PVC** 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded
 7 Fiberglass Threaded
 Blank casing diameter **5** in. to **285** ft. Dia. in. to ft. Dia. in. to ft.
 Casing height above land surface **24** in. weight lbs./ft. Wall thickness or gauge No. **SDR 26**
 TYPE OF SCREEN OR PERFORATION MATERIAL: **7** PVC 10 Asbestos-cement
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify)
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot **3** Mill slot **.035** 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify)
 SCREEN-PERFORATED INTERVALS: From **277** ft. to **285** ft. From ft. to ft.
 From ft. to ft. From ft. to ft.
 GRAVEL PACK INTERVALS: From **255** ft. to **285** ft. From ft. to ft.
 From ft. to ft. From ft. to ft.

6) GROUT MATERIAL: **1** Neat cement 2 Cement grout 3 Bentonite 4 Other
 Grout Intervals: From **0** ft. to **255** ft. From ft. to ft. From ft. to ft.
 What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage
 Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	3	Dark brown silty clay topsoil			content at depth
3	9	Pinkish tan to brown sity clay	253	270	Greenish gray silty clay to clayey
9	20	Pinkish tan to pinkish brown to medium tan silty clay with lime concretions	270	281	silt with some gravel and lime nodules below 257 feet
20	72	Light ashy grayish tan to tan to yellowish tan silty clay with gravel	281	285	Medium to light gray to olive gray silty sandy clay with sand and gravel
72	236	Medium gray silty clay to silty sandy clay with gravel and some layers of fine sand and some sand and gravel layers (e.g., between 184 & 199 and 222 & 226ft.)			Gravel
236	253	Light to medium to dark gray silty clay with increasing sand and gravel			

7) CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was **(1) constructed** (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) **1/10-17/86**; developed **2/18 & 6/3,4/86** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. This Water Well Record was completed on (mo/day/yr) **7/28/86**
 under the business name of **KGS; M.KLEINSCHMIDT, MGR./DRILLER** by (signature) *Janet L.*

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Office of Oil Field and Environmental Geology, Regulation and Permitting Section, Topeka, Kansas 66620-7500, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY
T
R
EW
SEC
1/4
1/4
1/4

1 LOCATION OF WATER WELL: Fraction SE 1/4 SW 1/4 NW 1/4 Section Number 34 Township Number T 4 S Range Number R 12 EW

Distance and direction from nearest town or city street address of well if located within city? approximately 1 3/4 miles west of Corning

2 WATER WELL OWNER: KGS RR#, St. Address, Box #: 1930 Constant Ave. Board of Agriculture, Division of Water Resources City, State, ZIP Code: Lawrence, KS 66046 Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: [Diagram showing a 2x2 grid with NW, NE, SW, SE quadrants. An 'X' is marked in the NW quadrant. A vertical scale bar on the left indicates 1 mile. The grid is labeled with N, S, E, W directions.]

4 DEPTH OF COMPLETED WELL: 334 ft. ELEVATION: 1350+ ft. WELL'S STATIC WATER LEVEL: 105.2 ft. below land surface measured on mo/day/yr 7/24/86

Pump test data: Well water was ... ft. after ... hours pumping ... gpm Est. Yield ... gpm: Well water was ... ft. after ... hours pumping ... gpm Bore Hole Diameter: 10. + . in. to 3.36 ft., and ... in. to ... ft.

WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Observation well Monitoring & research

Was a chemical/bacteriological sample submitted to Department? Yes ... No X ...; If yes, mo/day/yr sample was submitted Water Well Disinfected? Yes No X

5 TYPE OF BLANK CASING USED: 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued X Clamped 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded 7 Fiberglass Threaded

Blank casing diameter: 5 in. to 3.34 ft., Dia. ... in. to ... ft., Dia. ... in. to ... ft. Casing height above land surface: 16 in., weight ... lbs./ft. Wall thickness or gauge No. SDR 26

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify) 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 3 Mill slot .035 5 Gauzed wrapped 8 Saw cut 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes 10 Other (specify) 7 Torch cut

SCREEN-PERFORATED INTERVALS: From 324 ft. to 334 ft., From ... ft. to ... ft. GRAVEL PACK INTERVALS: From 318 ft. to 336 ft., From ... ft. to ... ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other

Grout Intervals: From 0 ft. to 318 ft., From ... ft. to ... ft.

What is the nearest source of possible contamination: 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below) 13 Insecticide storage

Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	3	Dark brown silty clay topsoil			
3	4	Medium brown silty sandy clay			
4	54	Tan silty sandy clay w/gravel			
54	59	Interbedded tan and gray layers of silty sandy clay with gravel			
59	330	Gray silty sandy clay with gravel and some silt, sandy and/or gravel layers, especially below 157 feet.			
330	334	Gravel			
334	336	White to light gray to tan limestone			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 8/29-9/6/85; bailed 9/26, 27/85 & flushed 4/10/86 record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. This Water Well Record was completed on (mo/day/yr) 7/25/86 under the business name of KGS; M. Kleinschmidt, Mgr./Driller w/R. John (signature) Joe K. Dene

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Office of Oil Field and Environmental Geology, Regulation and Permitting Section, Topeka, Kansas 66620-7500, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY T R EW SEC.

Nemaha County SE SW NW 34-4-12 Attachment

This well is to be abandoned and cemented because of several problems. The hole was drilled to 336 feet with a 9 7/8-inch diameter bit. The drill crew had trouble getting the casing to the bottom of the hole, and eventually the casing broke. The crew thought the casing that broke (more than 200 feet long) lodged at a depth between 58 and 290 feet. The lost casing could not be retrieved, so the crew redrilled the hole with the 9 7/8-inch bit. No casing cuttings were observed during redrilling. A second casing with no bottom cap was put in to a depth of 334 feet. Very inconsistent water levels (from 4 to 105 feet) and total depth measurements less than what they should be have indicated that the well was plugged and that there may be a near-surface (less than approximately 50 feet) leak in the casing.

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

D-1

1 LOCATION OF WATER WELL: County: NEMAH	Fraction NW 1/4 NW 1/4 NE 1/4	Section Number 24	Township Number T 4 S	Range Number R 12 EW
Distance and direction from nearest town or city street address of well if located within city? From KELLY: 3 SOUTH AND 1 WEST		Global Positioning Systems (decimal degrees, min. of 4 digits) Latitude: 39.71774 Longitude: 96.00258 Elevation: 1191 Datum: _____ Data Collection Method: _____		
2 WATER WELL OWNER: ROY WINKLER RR#, St. Address, Box #: 1178 M4 RD City, State, ZIP Code: CORNWELL, KS 66417				

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:	4 DEPTH OF COMPLETED WELL 192 ft.												
<table style="margin: auto; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">N</td></tr> <tr><td style="border: 1px solid black; padding: 5px;">NW</td><td style="border: 1px solid black; padding: 5px; text-align: center;">X</td><td style="border: 1px solid black; padding: 5px;">NE</td></tr> <tr><td style="border: 1px solid black; padding: 5px;">SW</td><td style="border: 1px solid black; padding: 5px;"></td><td style="border: 1px solid black; padding: 5px;">SE</td></tr> <tr><td colspan="3" style="text-align: center;">S</td></tr> </table>	N			NW	X	NE	SW		SE	S			Depth(s) Groundwater Encountered (1)..... 173 ft. (2)..... _____ ft. (3)..... _____ ft. WELL'S STATIC WATER LEVEL..... 7 ft. below land surface measured on mo/day/yr. 1/7/08 Pump test data: Well water was..... ft. after..... hours pumping..... gpm Est. Yield. 100+ gpm: Well water was..... ft. after..... hours pumping..... gpm WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well <input checked="" type="checkbox"/> Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well Was a chemical/bacteriological sample submitted to Department? Yes _____ No <input checked="" type="checkbox"/> ; If yes, mo/day/yr Sample was submitted..... Water well disinfected? Yes <input checked="" type="checkbox"/> No _____
N													
NW	X	NE											
SW		SE											
S													

5 TYPE OF CASING USED:	5 Wrought Iron	8 Concrete tile	CASING JOINTS: Glued <input checked="" type="checkbox"/> Clamped.....
1 Steel	3 RMP (SR)	6 Asbestos-Cement	Welded.....
<input checked="" type="checkbox"/> PVC	4 ABS	7 Fiberglass	Threaded.....
Blank casing diameter ... 6 in. to 192 ft., Diameter..... in. to ft., Diameter..... in. to ft.			
Casing height above land surface..... 24 in., Weight lbs./ft. Wall thickness or gauge No. SPR 26			
TYPE OF SCREEN OR PERFORATION MATERIAL:			
1 Steel	3 Stainless Steel	5 Fiberglass	<input checked="" type="checkbox"/> PVC
2 Brass	4 Galvanized Steel	6 Concrete tile	8 RM (SR)
9 ABS 11 Other (Specify).....			
12 None used (open hole)			
SCREEN OR PERFORATION OPENINGS ARE:			
1 Continuous slot	<input checked="" type="checkbox"/> Mill slot	5 Gauzed wrapped	7 Torch cut
2 Louvered shutter	4 Key punched	6 Wire wrapped	8 Saw cut
9 Drilled holes 11 None (open hole)			
10 Other (specify).....			
SCREEN-PERFORATED INTERVALS: From..... ft. to ft., From..... ft. to ft.			
GRAVEL PACK INTERVALS: From..... ft. to ft., From..... ft. to ft.			

6 GROUT MATERIAL:	1 Neat cement	2 Cement grout	<input checked="" type="checkbox"/> Bentonite	4 Other.....
Grout Intervals: From 3 ft. to 25 ft., From..... ft. to ft., From..... ft. to ft.				
What is the nearest source of possible contamination:				
1 Septic tank	4 Lateral lines	7 Pit privy	10 Livestock pens	13 Insecticide storage
2 Sewer lines	5 Cess pool	8 Sewage lagoon	11 Fuel storage	14 Abandoned water well
3 Watertight sewer lines	6 Seepage pit	9 Feedyard	12 Fertilizer storage	15 Oil well/gas well
Direction from well? EAST How many feet? 100				

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	105	CLAY TRACE GRAVEL BRAS (1-2")			
105	173	INTERMEDIATE FINE SAND & CLAY			
173	186	SAND COURSE W/ GRAVEL			
186	192	SILT & CLAY			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was **(1)** constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) **3/27/08** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **760** This Water Well Record was completed on (mo/day/year) **4/8/08** under the business name of **ASSOCIATED OILFIELD INC** by (signature) *[Signature]*

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



D-2

WATER WELL RECORD Form WWC-5 1074955

Division of Water Resources App. No. _____

Well ID _____

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Nemaha	Fraction SE ¼ NE ¼ NW ¼ SW ¼	Section Number 36	Township Number T 4 S	Range Number R 12 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
--	---------------------------------	----------------------	--------------------------	---

2 WELL OWNER: Last Name: Winkler Business: _____ Address: 11784 M4 Rd Address: _____ City: Cornina State: KS ZIP: 66417	First: LeRov	Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input checked="" type="checkbox"/>
--	--------------	--

3 LOCATE WELL WITH "X" IN SECTION BOX:

N

---	NW	---	NE	---
W	X			E
---	SW	---	SE	---
		S		

-----1 mile-----

4 DEPTH OF COMPLETED WELL: 200 ft.

Depth(s) Groundwater Encountered: 1) ft.
2) ft. 3) ft., or 4) Dry Well

WELL'S STATIC WATER LEVEL: ft.

below land surface, measured on (mo-day-yr)
 above land surface, measured on (mo-day-yr)

Pump test data: Well water was ft.
after hours pumping gpm
Well water was ft.
after hours pumping gpm

Estimated Yield: gpm

Bore Hole Diameter: 6 in. to 200 ft. and
..... in. to ft.

5 Latitude: 39.659247 (decimal degrees)
Longitude: 96.029328 (decimal degrees)
Datum: WGS 84 NAD 83 NAD 27
Source for Latitude/Longitude:
 GPS (unit make/model:)
(WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: 1340 ft. Ground Level TOC
Source: Land Survey GPS Topographic Map
 Other KOLAR

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input 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	12. Geothermal: how many bores? 4	a) Closed Loop <input type="checkbox"/> Horizontal <input checked="" 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 HDPE CASING JOINTS: Glued Clamped Welded Threaded
Casing diameter 7.5 in. to 200 ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface -18 in. Weight lbs./ft. Wall thickness or gauge No. SDR11

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 ft. to ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From ft. to ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other
Grout Intervals: From 0 ft. to 200 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	3	Topsoil			
3	35	Tan Shale			
35	37	Sand			
37	50	Tan Shale			
50	130	Black Shale			
130	132	Sand (Biaaer)			
132	200	Black 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) 9/28/2011 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 760 This Water Well Record was completed on (mo-day-year) 2/22/2012 under the business name of Associated Drilling, Inc.

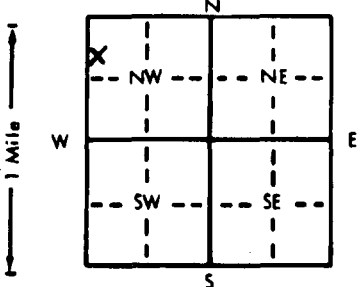
KGS 3

1) LOCATION OF WATER WELL: Fraction SW 1/4 NW 1/4 NW 1/4 Section Number 12 Township Number T 5 S Range Number R 12 EW

Distance and direction from nearest town or city street address of well if located within city?
approximately 1 1/8 miles south of Corning

2) WATER WELL OWNER: KGS
 RR#, St. Address, Box # : 1930 Constant Av. Board of Agriculture, Division of Water Resources
 City, State, ZIP Code : Lawrence, KS 66046 Application Number:

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



4) DEPTH OF COMPLETED WELL... 207 ft. ELEVATION: 1245 ±
 Depth(s) Groundwater Encountered 1. above ft. 2. below ft. 3. below ft.
 WELL'S STATIC WATER LEVEL 6.1 ft. below land surface measured on mo/day/yr 7/24/86
 Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm
 Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
 Bore Hole Diameter... 6 3/4 in. to 210 ft., and _____ in. to _____ ft.
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Observation well Monitoring and research
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No X; If yes, mo/day/yr sample was submitted _____
 Water Well Disinfected? Yes _____ No X

5) TYPE OF BLANK CASING USED: 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued _____ Clamped _____
 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded _____
 2 PVC 4 ABS 7 Fiberglass Threaded _____
 Blank casing diameter 2 in. to 207 ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
 Casing height above land surface 82 in., weight 9 lbs./ft. Wall thickness or gauge No. Sch. 80
 TYPE OF SCREEN OR PERFORATION MATERIAL: 7 PVC 10 Asbestos-cement
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify) _____
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 1 Continuous slot 3 Mill slot .01 6 Wire wrapped 9 Drilled holes
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) _____
 SCREEN-PERFORATED INTERVALS: From 202 ft. to 207 ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 GRAVEL PACK INTERVALS: From 197 ft. to 210 ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.

6) GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other _____
 Grout intervals: From 0 ft. to 197 ft., From _____ ft. to _____ ft.
 What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage _____
 Direction from well? _____ How many feet? _____

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	10	Dark to medium brown clayey silt to silty clay	203	209	Black to gray silty clay, silt, and clay (thin layers).
10	15	Dark gray silty clay	209	210	Black shale and light gray limestone
15	24	Greenish gray silty clay with increasing sand and gravel content at depth			
24	68	Dark gray silty sandy gravelly clay to clayey silty sandy gravel			
68	75	Very dark gray fine sandy silt			
75	85	Dark gray silty clay or clayey silt w/some gravel			
85	195	Dark gray silty clay with some gravel (esp. 100-105, 125-135 ft)			
195	203	Dark gray silty sandy clay with some gravel			

7) CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 4/23/86; developed 4/24, 5/8 & 12/86 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. _____ This Water Well Record was completed on (mo/day/yr) 7/25/86
 under the business name of KGS; M. Kleinschmidt, Mgr./Driller by (signature) [Signature]

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Office of Oil Field and Environmental Geology, Regulation and Permitting Section, Topeka, Kansas 66620-7500, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

J-51X

1 LOCATION OF WATER WELL: County: NEMAH County: NE 1/4 NW 1/4 NE 1/4 Section Number 14 Township Number T 5 S Range Number R 12 EW

2 WATER WELL OWNER: J-51X FARMS RR#, St. Address, Box #: 604 NEMAH ST. City, State, ZIP Code: SENeca, KS. 66539

3 LOCATE WELL'S LOCATION WITH AN 'X' IN SECTION BOX: [Grid with X in NE quadrant]

4 DEPTH OF COMPLETED WELL 170 ft. Depth(s) Groundwater Encountered (1)... 38 ft. (2)... - ft. (3)... - ft.

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, PLUGGING INTERVALS. Rows describe geological layers like CLAY BROWN TO TAN, SAND POORLY SORTED, CLAY, TAN, CLAY, GRAY, GRAVEL, CLAY, GRAY, GRAVEL, CLAY, GRAY.

5 TYPE OF CASING USED: 1 Steel, 3 RMP (SR), 6 Asbestos-Cement, 9 Other (specify below) CASING JOINTS: Glued, X Clamped, Welded, Threaded.

6 GROUT MATERIAL: 1 Neat cement, 2 Cement grout, Bentonite, 4 Other Grout Intervals: From 3 ft. to 25 ft.

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 2/13/07.



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

February 15, 2017

ROGER D BECKER TRUST
1095 52ND RD
CORNING KS 66417

FILE COPY

RE: Application
File No. 49775

Dear Sir or Madam:

Your application for permit to appropriate water in 34-04S-12E in Nemaha County, was received and has been assigned the file number noted above.

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

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

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

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

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

If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

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

BAT: dlw
pc: TOPEKA Field Office
GMD 0

SCANNED

ROGER BECKER TRUST SITE MAP
SEC. 33 & 34, T4S, R12E
NEMAHA COUNTY

1:24,000



Proposed Point of Diversion
(Geo-Center of Well Battery)
5,081' N & 527' W

Southeast Corner of Section 33
Township 4 South
Range 12 East

Southeast Corner of Section 34
Township 4 South
Range 12 East



Proposed Place of Use



Proposed Point of Diversion

There are no known wells of any kind within 1/2 mile of the proposed point of diversion.

Keith Grimm

49775



Google earth
Earth Point

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WATER RESOURCES
RECEIVED

FEB 15 2017

SCANNED BY
KS DEPT OF AGRICULTURE

49775



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