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

1. File Number:	2. Status Change Date	e: 3. Field Office: 01	4. GMD:
49,932	117/2018	01	
5. Status: ☐ Approved ☐ Denied b	y DWR/GMD	☐ Dismiss by Request/Failu	ire to Return
6. Enclosures: ⊠ Check Valve ⊠ N of C Form	m 🛚 🖾 Water Tube	e ⊠ Driller Copy	⊠ Meter
7a. Applicant(s) Person ID New to system Add Seq#		wner(s) o system	Person ID 65840 Add Seq#
ROGER D BECKER TRUST 1095 52ND RD CORNING KS 66417	761 J F	E M & MONICA K BECK RD ING KS 66417	(ER
7b. Landowner(s) Person ID _ New to system ☐ Add Seq# _	7d. Misc. New to	o system 🗌	Person IDAdd Seg#
7a	MIDWE % KEITI 2991 GG	ST IRRIGATION H GRIMM DLDFINCH RD THA KS 66434 8371	
8. WUR Correspondent Person ID _ New to system ☐ Add Seq# Overlap File (s) WUC Notarized WUC F Agree ☐ Yes ☐ No	9. Use of \	☑ Groundwater ☐	Yes ⊠ No Surface Water DEW ☐ MUN
7a.	☐ STK ☐ HYD DF		DOM CON ART RECHRG
	☐ IND SI	С: ОТНІ	ER:
10. Completion Date: 12/31/2019 11. Po	erfection Date: 12/3	1/2023 12. Exp	Date:
13. Conservation Plan Required? ☐ Yes ⊠ No Date R	Required: [Date Approved:	Date to Comply:
14. Water Level Measuring Device? ☐ Yes ☒ No ☐	Date to Comply:	Date WLMD In	stalled:
	,	Date Prepared: 12/4 Date Entered: 1/18/1	_

File No.	49,93	2		15	5. Formatio	on Cod	le: 100)		Drair RIVE	iage B R	asin: \	VERM	ILLIO	N	C	County	: NM	-	Sp	ecial U	se:		Stream:	-	
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Commen	nts: *File	No.	49,77	75 ove	rlaps the	÷ 155	acres	in th	e SE	1/4 of	Sec.	33, b	out ca	ın't p	nysic	ally s	erve	this p	lace	of use	e (loca	ted ove	r a mile a	away).		

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KANSAS DEPARTMENT OF AGRICULTURE Division of Water Resources

M E M O R A N D U M

TO: Files

DATE:

December 4, 2017

FROM: Doug Schemm

RE: Application, File No. 49,932

Roger D. Becker Trust has filed the referenced application to appropriate 778.8 acre-feet of groundwater from a battery of four wells at a rate of diversion of 800 gallons per minute to irrigate 708 acres in Nemaha County, within the Vermillion River Drainage Basin. The battery of wells will be located in the Southeast Quarter of Section 33, Township 4 South, Range 12 East, Nemaha County. The proposed place of use is primarily owned by the applicant, and a portion is owned by Royce & Monica Becker (Applicant's son). There are no overlapping points of diversion. Appropriation of Water, File No. 49,775 overlaps a small portion of the place of use. However, the applicant is not planning on running the pipe necessary to irrigate this place of use under File No. 49,775, which is over a mile away from the well battery. Therefore, per K.A.R. 5-3-5n, this minor overlap is allowable because this place of use (SE¼ of Section 33) cannot be physically served by the senior file. The requested quantity of 778.8 acre-feet for the irrigation of 708 acres of land is equivalent to 1.1 acre-feet per acre, which is the maximum allowable quantity for irrigation in Nemaha County per K.A.R. 5-3-19.

The applicant did not identify any domestic wells within one-half mile, and the map was signed to verify this. A review of aerial photographs and the KGS WWC-5 database does not show any nearby domestic wells either. The WRIS database shows the only other permitted well within the two-mile circle is the applicant's file No. 49,775. 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 the applicant's senior File No. 49,775, area domestic wells, and KGS test holes. A well log provided with the application shows the primary aquifer consists of a sand and gravel zone approximately 58 feet in thickness, extending from 266 feet to 324 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 NW¼ of adjacent 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 4.5 inches, and 100% of recharge available for appropriation, safe yield was determined to be 3,015.75 acre-feet. The applicant's senior file has appropriated 290 acre-feet, leaving 2,725.75 acre-feet available for appropriation, and the application meets safe yield criteria.

Becker Memorandum File No. 49,932 Page 2

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 a November 29, 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

Jackie McClaskey, Secretary

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

Governor Sam Brownback

January 18, 2018

ROGER D BECKER TRUST 1095 52ND RD CORNING KS 66417

FILE COPY

Re: Appropriation of Water, File No. 49,932

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,

Kristen A. Baum

New Application Unit Supervisor Water Appropriation Program

KAB:dws Enclosures

pc:

Topeka Field Office Royce & Monica Becker Keith Grimm – MWI



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. 49,932 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 **November 2, 2017**.
- 2. That the water sought to be appropriated shall be used for irrigation use on land described in the application, as follows:

	_	Б.	NE1/4					NV	V1/4		SW1/4				SE1/4				
Sec.	Twp.	Range	NE¼	NW1⁄4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW¼	SW1/4	SE1/4	NE1/4	NW1⁄4	SW1/4	SE1/4	TOTAL
28	48	12E									40	40	40	40			40	40	240
33	48	12E	40	40	40	33	40	40	40	40		,			35	40	40	40	468

- 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 Southeast Quarter of the Southeast Quarter (SE¼ SE¼ SE¼) of Section 33, more particularly described as being near a point 225 feet North and 325 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 **778.8** acre-feet of water for any calendar year.
- 5. That installation of works for diversion of water shall be completed on or before <u>December 31</u>, <u>2019</u>, 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.

File No. 49,932 Page 2

6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before <u>December 31, 2023</u>, 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.

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, Kansas 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, Kansas 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.

Ordered this	Me day or	bruary
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, 2018, in Topeka, Shawnee County, Kansas.

Lane P. Letourneau, P.G.

Program Manager

Water Appropriation Program Division of Water Resources

Kansas Department of Agriculture

State of Kansas)
) SS
County of Riley)

The foregoing instrument was acknowledged before me this day of 2018, by Lane P. Letourneau, P.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.

My Appointment Expires
August 23, 2020

DANIELLE WILSON

Notary Public

CERTIFICATE OF SERVICE

On this 18th day of January Application, File No. 49,932, dated mail to the following:

, 2018, I hereby certify that the foregoing Approval of ຖຸລວນຮ was mailed postage prepaid, first class, US

ROGER D BECKER TRUST 1095 52ND RD CORNING KS 66417

With photocopies to:

ROYCE M & MONICA K BECKER 761 J RD CORNING KS 66417

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

Topeka Field Office

Division of Water Resources



KANSAS DEPARTMENT OF AGRICULTURE

Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES

David W. Barfield, Chief Engineer

WATER RESOURCES
RECEIVED

NOV 0 2 2017 9:38 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,

1320 Research Park Drive, Manhattan, KS 66502: Name of Applicant (Please Print): ROGER D BECKER TRUST 1. Address: 1095 52ND RD State: KS Zip Code 66417 City: CORNING Telephone Number: (785) 868-3255 The source of water is: ☐ surface water in ______ ☑ groundwater in VERMILLION RIVER_____ OR 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. The maximum quantity of water desired is _______ 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. The water is intended to be appropriated for (Check use intended): (c) ☐ Recreational (d) Water Power (a) ☐ Artificial Recharge (b)

☐ Irrigation (f) Municipal (g) ☐ Stockwatering (h) ☐ Sediment Control (e) ☐ Industrial (k) ☐ Hydraulic Dredging (I) Fire Protection (i) ☐ Dewatering (i) ☐ Domestic (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.

GMD Meets K.A.R. 5-3-1 (YES) / NO) Use FUL Source G) S County NM REG Fee \$ 400 TR # Receipt Date 112117

For Office Use Only

F.O.

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5.	The	location of th					er works for		water is:	
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	4	described a	s being ne	ear a p	oint <u>30</u>	0 feet Nor	th and 45	o feet West	of the South	neast corner of said
		section, in T	ownship	4 Sou	th, Rang	e 12 EAST	, NEMAHA	_County, Kar	nsas. SEQ	CENTER
v+ 7d4	-(B)	One in the	SE qua	arter of	the S	guarter d	of the SE	quarter of S	Section 33	, more particularly
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				-						County, Kansas.
.	(C)									<u>S</u> , more particularly
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4014	(D)									_, more particularly
U						•				neast corner of said
		section, in I	ownship .	4	South, F	Range 12	_East/vvest	(circle one),	_VW	County, Kansas.
	of w radi	ells, except	hat a sin	gle app	olication	may includ	e up to four	wells within	n a circle wit	oosed well or battery h a quarter (¼) mile ate of 20 gallons per
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6.	The	owner of the	point of o	diversic):	
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	land		norized re	epreser	ntative.	Provide a	copy of a	recorded de	eed, lease,	ne landowner or the easement or other nt:
			or the lar	ndowne	er's auth					ation from the of perjury that
		Executed of	on <u>//></u> ~	31		, 2017	Koge	Applicar	nt's Signature	<u> </u>

The proposed project for diversion of water will consist of BATTERY OF 4 WELLS (number of wells, pumps or dams, etc.)

The first actual application of water for the proposed beneficial use was or is estimated to be Spring 2018_ (Mo/Day/Year)

and (was)(will be) completed (by) SPRING 2018 (Month/Day/Year - each was or will be completed)

7.

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.
No.	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
	GROUNDWATER WELL
11.	The application <u>must</u> 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:
٠,	(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 practical 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.
	FILE NO. 49,775 PARTIAL PU OVERLAP (SE1/4 OF SEC. 33).
e	(But ran't physically serve it)
	WATER RESOURCES RECEIVED
	NOV 0 2 2017

KS DEPT OF AGRICULTURE

File No. 49,932

13.	Furnish the following well in well has not been completed	formation if the I, give informati	proposed a on obtained	appropriation is f I from test holes,	or the use o if available.	f groundwater. If t	he
	Information below is from:	☐ Test holes	□ Wel	as completed	☐ Drillers	log attached	
	Well location as shown in pa	aragraph No.	(A)	(B)	(C)	(D)	
	Date Drilled						
	Total depth of well						
	Depth to water bearing form	ation					
	Depth to static water level						
	Depth to bottom of pump int	ake pipe		· · · · · · · · · · · · · · · · · · ·			
14.	The relationship of the appliation of the applia	' '	osed place	where the water	will be used	is that of	
15.	The owner(s) of the property	where the wat	er is used,	f other than the a	applicant, is	(please print):	
	ROYCE M & MONICA K BE	CKER, 761 J R (name, add	D, CORNIN ress and te	IG, KS 66417 lephone number)		
		7		lephone number			
16.	The undersigned states tha		n set forth a	above is true to t	he best of h	is/her knowledge a	nd
	that this application is subm	-		day of		2017	iiiu
	that this application is subm	-		_ day of	(month)	, <u>2017</u> (year)	·
e de la manda de la companya de la c	Roge S. Box (Applicant Signature	, Kansa		APPLICANT((month) S) SOCIAL SEC	(year)	·
 By	Roge S. Box (Applicant Signature	, Kansa		APPLICANT(IDENTIFIC	S) SOCIAL SEC ATION NUMBE and/or	(year) CURITY R(S)	·
	Roger D. Bor (Applicant Signatur	, Kansa		APPLICANT(S) SOCIAL SEC ATION NUMBE and/or	(year) CURITY R(S)	·
	Roger D. Bor (Applicant Signatur	kansa		APPLICANT(IDENTIFIC	S) SOCIAL SEC ATION NUMBE and/or	(year) CURITY R(S)	·
<u>By</u>	Roger Bay (Applicant Signature) (Agent or Officer Signature)	e) (Kansa		APPLICANT(S) APPLICANT(S)	S) SOCIAL SEC ATION NUMBE and/or TAXPAYER I.I	(year) CURITY R(S)	·
By Assiste	Roger S. Boy (Applicant Signature (Agent or Officer Signature (Agent or Officer - Please	e) (Kansa	s, this	APPLICANT(S) APPLICANT(S)	S) SOCIAL SEC ATION NUMBE and/or TAXPAYER I.I	(year) CURITY R(S) D. NO.(S)	·

IRRIGATION USE SUPPLEMENTAL SHEET

File No. 49932

			Nan	ne of .	Appli	cant ((Pleas	e Prin	nt): <u>R</u>	OGE	R D E	BECK	ER T	RUS	Γ			-	
1. F	lease esign	supp ate th	ly the	e nam ıal nu	ne and mber	d add	ress o	of eac be irr	h lan igateo	down d in ea	er, th	e lega orty ac	al des re tra	cripti ct or	on of fraction	the onal p	lands ortio	to be	irrigated, and eof:
Land	owne	r of I	Recor	d l	NAM	E: R	OGE	RD	BEC	KEF	R TR	UST.							
				ADI	DRE	SS:	109	5 52 [†]	ND RI	D, C	ORN	ING,	KS	6641	7				
				NE	Ε1/4	,		NV	V¹/4			sv	V 1/4			SE	E1/4		
S	T	R													TOTAL				
28	4	12E	ì								40	40	40	40			40	40	240
33	4	12E	40	40	40	33									35	40	40	40	308
	-																		
Land	owne	er of l	Recor	- d]	NAM	E: R	OYO	ЕΜ	& M	ONI	CA K	BE	CKEI	R					
				AD	DRE	SS:	761	JR	D, C(ORN	ING,	KS (6641	7					
-	т	R			DRE	SS:	761		D, C(ORN	ING,		6641 	7			E¹/4		
s	Т	R	NE			SS:	NE	NW NW	W¼ SW	SE	NE		V¹⁄4	7	NE			SE	TOTAL
s 33	T 4	R 12E		NI	E1/4	ſ		NV	N1/4			SV	V¹⁄4	ı		SI	E1/4		
				NI	E1/4	ſ	NE	NW NW	W¼ SW	SE		SV	V¹⁄4	ı		SI	E1/4		TOTAL
				NI	E1/4	ſ	NE	NW NW	W¼ SW	SE		SV	V¹⁄4	ı	NE	SE	SW	SE	160
33	4	12E		NW NW	E¼ SW	SE	NE	NW 40	sw 40	SE 40	NE	SV	SW	SE	NE TO	SE	SW		160
33	4	12E		NW NW	SW NAM	SE E:	NE 40	NW 40	8W 40	SE 40	NE	SV	SW	SE	NE TC	SI NW DTAL	SW ACF	SE	160
33	4 lowne	12E		NH NW	SW NAM	SE E:	NE 40	NW 40	8W 40	SE 40	NE	SV	SW	SE	NE TC	SENW	SW ACF	SE	TOTAL 160 708
33	4	12E		NH NW	SW NAM	SE E:	NE 40	NW 40	W1/4 SW 40	SE 40	NE	SV	V¼ SW	SE	NE TC	SENW	SW ACF	SE	160
33	4 lowne	12E	Recor	NH NW ADI	NAM DRES	SE E:	NE 40	NV 40	W1/4 SW 40	SE 40	NE	SV NW	V ¹ / ₄ SW	SE	TC	SI	SW ACF	SE RES =	TOTAL 160 708
33	4 lowne	12E	Recor	NH NW ADI	NAM DRES	SE E:	NE 40	NV 40	W1/4 SW 40	SE 40	NE	SV NW	V ¹ / ₄ SW	SE	TC	SI	SW ACF	SE RES =	TOTAL 160 708

NOV 0 2 2017

MATER RESOURCES
RECEIVED

Page 1 of 2
KS DEPT OF AGRICULTURE

		l(s) and their intake rates:	T . 1	T
	Soil Name	Percent of field	Intake Rate	Irrigation Design
		(%)	(in/hr)	Group
				-
	Total:	100 %		
b.	Estimate the average land sl	lope in the field(s):	%	
	Estimate the maximum land	I slope in the field(s):	%	
c.	Type of irrigation system yo	ou propose to use (check one)	:	
	Center pivot	Center pi	vot - LEPA	"Big gun" sprinkle
	Gravity system (fu	rrows) Gravity s	ystem (borders)	Sideroll sprinkler
	Other, please describe:			
d.	System design features:			
	i. Describe how you wil	l control tailwater:		
				1
	ii. For sprinkler systems:	:		
	(1) Estimate the o	perating pressure at the distri	bution system:	psi
	(2) What is the sp	orinkler package design rate?	gpm	
	(3) What is the we	etted diameter (twice the dista	ance the sprinkler throw	vs water) of a sprinkler of
	the outer 100	feet of the system?	feet	
	(4) Please include	a copy of the sprinkler packa	nge design information	
e.	Crop(s) you intend to irriga	te. Please note any planned c	rop rotations:	
f.	Please describe how you wi	ill determine when to irrigate	and how much water to	o apply (particularly
••	important if you do not plan			
J	. 18 (18) . 18 (18)			

Page 2 of 2

49932

assocjated Drilling, inc.

201 Industrial Rd., PO Box 7, Olsburg, KS 66520 (785) 468-3324, Fax: (785) 468-3363

October 24, 2017

Test hole log for 4R Farms.

The location of the test hole is approximately 2 miles west and ½ mile south of Corning, Kansas. The latitude and longitude coordinates of the test hole are N 39.656002 W 96.072551.

0-3	Top soil
3-125	Clay, brown to gray
125-151	Sand fine, trace medium grades to med. at 146 ft.
151-169	Clay, gray
169-178	Sand, fine
178-190	Clay, gray
190-197	Sand, fine
197-266	Clay, gray
266-317	Sand, fine with clay
317-324	Gravel, pea, sub angular
324-326	Shale, gray
326	Limestone, total depth

Static Water Level estimated at 100 feet below ground surface.

The test hole is estimated to yield over 200 gpm based on the gravel thickness and the history of other wells in the area.

Darin R. Duncan, PG Associated Drilling, Inc.

> WATER RESOURCES RECEIVED

> > NOV 0 2 2017

KS DEPT OF AGRICULTURE

#49,932 meets Safa Yield

Analysis Results

The selected PD is in an area—to new appropriations. The safe yield, based on the variables listed below is 3,015.75 AF. Total prior appropriation in the circle is 1,068.80 AF. -778.8 = 290 AF Total quantity of water available for appropriation is 1,946.95 AF.

Safe Yield Variables

2,725.75AF

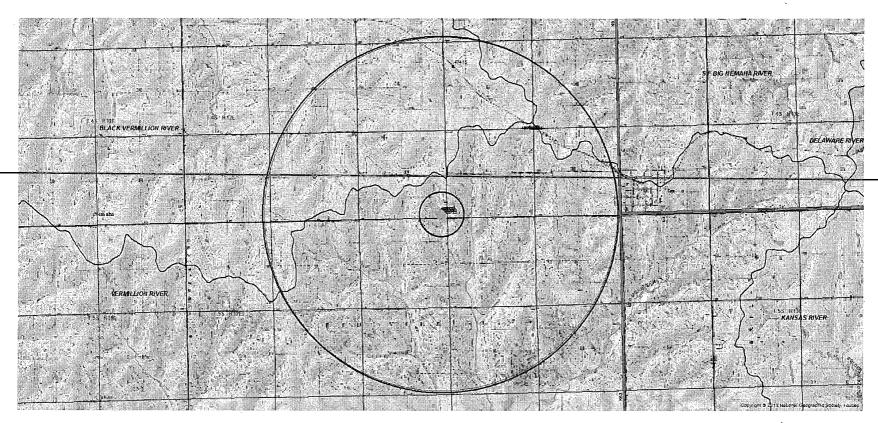
The area used for the analysis is set at 8,042 acres. Potential annual recharge of the area is estimated to be 4.5 inches. The percent of recharge available for appropriation is 100%.

Authorized Quantity values are as of 29-NOV-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 2 water right(s) and 10 point(s) of diversion within the circle.

=====	======	-===		====		====	====				======			====	====	=====	======================================	========		
File	Number		Use	ST	SR	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Ŗng	ID	Qind	Auth_Quant	Add_Quant	Tacres	Nacres
A	49775	00	IRR	GY	G		NE	NE	NE	5081	527	34	04	12E	1	WR	290.00	290.00	295.00	295.00
Same			IRR	GY	G		NE	NE	NE	5081	402	34	04	12E	2	WR				
Same			IRR	GY	G		NE	ΝE	NE	5081	277	34	04	12E	3	WR				
Same			IRR	GY	G		NE	NE	NE	5081	652	34	04	12E	4	WR				
Same			IRR	GY	G		NW	ΝE	ΝE	5081	777	34	04	12E	5	WR				
A	49932	00	IRR	ΑY	G		SE	SE	SE	225	325	33	04	12E	1	WR	778 \ 80	7 78. 80	708.00	553.00
Same			IRR	ΑY	G		SE	SE	SE	300	450	33	04	12E	2	WR		`		
Same			IRR	ĀΥ	G		SE	SE	SE	300	350	33	04	12E	3	WR	•			
Same			IRR	ΑY	G		SE	SE	SE	200	250	33	04	12E	4	WR				•
Same			IRR	ΑY	G		SE	SE	SE	100	250	33	04	12E	5	WR				
·													====	====	====	=====			======	======

Safe Yield Report Sheet Water Right- A4993200 Point of Diversion in SESESE 33-48-12E



49932 00

AMOUNT STATISTICS REPORT FOR POINTS OF DIVERSION UNDER A

49932 00 IRR

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

225 Feet North and 325 Feet West of the Southeast Corner of Section 33 T 4S R 12E

meets Specing all > 1,320'

______ File Number Use ST SR Dist (ft) Q4 Q3 Q2 Q1 FeetN FeetW Sec Twp Rnq ID Batt Auth Quan Add Quan Unit 290.00 290.00 AF 49775 00 IRR GY G 7003 -- NE NE NE 5081 527 34 4 12E 1 G 4 7094 -- NE NE NE 5081 2 B 4 Same 402 34 4 12E 7186 -- NE NE NE 5081 277 34 4 12E Same 6913 -- NE NE NE 5081 652 34 4 12E Same 6824 -- NW NE NE 5081 777 34 4 12E 5 R Same 0 -- SE SE SE 778.80 778.80 AF 225 325 33 4 12E 1 G 4 Α 49932 00 IRR AY G 146 -- SE SE SE 300 450 33 4 12E Same 79 -- SE SE SE 300 350 33 4 12E Same Same 79 -- SE SE SE 200 250 33 4 12E 4 B 4 146 -- SE SE SE 100 250 33 4 12E 5 B 4 Same

Total	Net Quant:	ities Au	thor:	ized:	Direct	Storage
Total	Requested	Amount	(AF)	=	778.80	.00
Total	Permitted	Amount	(AF)	=	290.00	.00
Total	Inspected	Amount	(AF)	=	.00	.00
Total	Pro_Cert	Amount	(AF)	=	.00	.00
Total	Certified	Amount	(AF)	=	.00	.00
Total	Vested	Amount	(AF)	=	.00	.00
TOTAL	AMOUNT		(AF)	=	1068.80	.00

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

An \star after the ID indicates a 15 AF exemption was granted under 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:

225 Feet North and 325 Feet West of the Southeast Corner of Section 33 T 4S R 12E GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number Use ST SR

A 49775 00 IRR GY G

> ROGER D BECKER TRUST

> 1095 52ND RD

GROUNDWATER ONLY

> CORNING KS 66417

>-----

A__ 49932 00 IRR AY G

> ROGER D BECKER TRUST

> 1095 52ND RD

> CORNING KS 66417

1

FILE NO. 49,775/49,932

	5 69 11 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1				/07/2-1/2-1/2-1/2-1/2-1/2-1/2-1/2-1/2-1/2-1
	BLACK L YGS1	VERMILLION RIVER 270-285 DL-93		JEMA HA BIVER 10 1 3 78 13 78	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		47415			19 H
es 29 Nemaha			WL - 256 Si avie 588	99 378 	
ab 32	Fie	1482 TO		Genns 3	6
VERMILL R = E	ON RIVER	500 L ** 100°		195 205 15 to	A 96
8 08 1 17		15. VI.5. VI.6. VI	166. (68 24	B Gravel	18

49,775

WATER WELL RECORD Form WWC-5 ☑ Original Record ☐ Correction ☐ Change in Well Use						ivision of Wat		Well ID				
1 LOCAT	1 LOCATION OF WATER WELL: Fraction County: Nemaha NW 1/4 NE 1/4 NE					Section Number Township Number Range Number						
	2 WELL OWNER: Last Name: Becker First: Royce						Street or Rural Address where well is located (if unknown, distance and					
Business:	Business: 4-R Farms						or intersection):					
Address: Address:	Address: 1095 52nd Rd					onK Rd off 5	2nd Rd the	West in	pasture 1/	8 mile		
City:	Coming		State: KS	ZIP: 66417					• •			
3 LOCATI		4 DEPTI	A OE COM	IPLETED WELL:	395	fi 5 Lati	ndo.	39.66707	76	(decimal degrees)		
WITH "		Depth(s) G	roundwater	Encountered: 1)	68 ft	Land	ritude	96.0536	592	(decimal degrees)		
SECTIO		2)	ft. 3	3) ft., or 4)	Dry Well	Dry Well Datum: 17 WGS 84 NAD 83 NAD 27						
		WELL'S S	TATIC WA	TER LEVEL:2	56 ft	ft. Source for Latitude/Longitude:						
	' 1	D above	land surface	measured on (mo-day measured on (mo-day	(-yr)	☐ GPS (unit make/model:						
NW	NE			ater was		1 .	and Survey [0)		
w	E	after	hours	pumping	. gpm		Online Mapper:					
sw	SE	after		rater waspumping			4070	· · · · · · · · · · · · · · · · · · ·	·······			
		Estimated '	vield: 200) onm	-	6 Elev	ation: 13/9	ft.	. 🗹 Ground	Level TOC		
	S	Bore Hole	Diameter:	12 in to 395	fL and	Sour	e: ∐ Land Sur	vey LJ (OLAR	GPS LTC	pographic Map		
	nile——	O DE HEED		, in. to	ft.		El Oniei 33	***********				
7 WELL V		D BE USED		ter Supply: well ID		. 10. 🗆 0	il Field Water	Supply: le	ase			
☐ Housel				g: how many wells?.		11. Test	Hole: well ID					
☐ Lawn &				echarge: well ID			ased 🔲 Unca					
2. Trrigati				g: well ID al Remediation: well l			thermal: how n					
3. Feedlo			Air Sparge	· · · · · · · · · · · · · · · · · · ·			pen Loop 5					
4. 🔲 Industr	ial	£] Recovery	☐ Injection		13. Other (specify):						
				itted to KDHE?	Yes N	If yes, da	te sample was	submitte	:d:			
Water well	disinfected	? 🛛 Yes 🗌	No			DIG IODE			. =			
8 TYPE O	F CASING	GUSED:	Steel D PV 395	C Other	CAS	SING JOINT	S: Glued k	1 Clamped	i ∐ Welded	I LI Threaded		
Casing diam	eter at above land	surface	24 in	Diameter	lbs./f	t. Wall thic	kness or gauge	No. SDF	317			
TYPE OF S	SCREEN O	R PERFORA	TION MA	TERIAL:								
Steel		inless Steel	Fiber		37. 1		ther (Specify)		······			
Brass COPERN C		lvanized Steel RATION OPI			used (open h	01e)				÷		
☐ Contin	nuous Slot	Mill Slot	□G	auze Wrapped 🔲 T	orch Cut	Drilled Holes	Other (Sp	ecify)				
Louve	red Shutter	☐ Key Pun	ched 🔲 W	ire Wrapped DS	aw Cut 📗	None (Open	Hole)			_		
SCREEN-F	PERFORAT	ED INTERV	ALS: From	355 ft to 395	ft., From	n fi.	to fi.,	From	ft. to	IL.		
0 CPOUT	RAVELPA	AL DNor	ALS: From	Cement grout 🛭 B	entonite C	1 Other	юп.,	FIUII	n. w			
Grout Interv	als: From	0	20	ft., From	. ft. to	ft., Fron	1 ft	. to	ft.	**********		
		ole contamina	tion:									
☐ Septic			Lateral Line			☐ Livestock P ☐ Fuel Storag		_	cide Storage oned Water			
Sewer	Lines ight Sewer L		Cess Pool Seepage Pit	☐ Sewage L ☐ Feedyard		Fuel Storag			ell/Gas Well	44 CH		
Other (Specify)	· · · · · · · · · · · · · · · · · · ·					Ŧ	_				
Direction fro	m well? . S	E		Distance from t	vell? 150		LITUO LOC			G INTERVALS		
10 FROM	TO 72		LITHOLO	SICLUG	FROM	TO	LITHU. LOC	(cont.) of	PLUGUIN	GINIERVALS.		
72	199	Brown clay Grey clay				+			D DECOL	DCEC		
199	203	Fine sand							RECEIVED			
203	207	Grev clay	· · · · · · · · · · · · · · · · · · ·					· · · ·				
207	209	Fine sand					 	F[B 1 5 2	017		
209	368	Grey clay_			AT-A		l			······································		
368	378	Large grave	91		Notes:			KS DEPT	OF AGRIC	ULTURE		
378	397	Grev shale			-			, w <i>U</i> 1				
11 CONT	RACTOR'	S OR LAND	OWNER'	S CERTIFICATIO	N: This wa	iter well was	☑ constructe	d, 🔲 reco	onstructed,	or 🗌 plugged		
under my i	prisdiction :	and was com	oleted on (n	no-day-year) .07/28/	2016 aı	nd this record	is true to the	best of m	v knowled	ge and belief.		
Kansas Wa	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 conv	to WATER W	ELL OWNER and retain	one for your	ecords. Fee of	55.00 for each cor	structed w	ell.	ADE DE CASTA		
	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. Wish as a http://www.kdheks.gov/waterwell/index.html KSA 82a-1212											

KSA 82a-1212 WATER WELL RECORD Form WWC-5 Fraction 1 LOCATION OF WATER WELL: Section Number Township Number Range Number NW 1/4 21 County: Nemaha 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: LOCATE WELL'S LOCATION WITH 4 DEPTH OF COMPLETED WELL 285 ft. ELEVATION: 1360+ AN "X" IN SECTION BOX: Depth(s) Groundwater Encountered 1.....ft. 2......ft. 3.........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 NW -- NE -Est. Yield gpm: Well water was ft. after hours pumping gpm W Ī WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well Other (Specify below) 3 Feedlot 6 Oil field water supply 9 Dewatering 1 Domestic 4 Industrial 7 Lawn and garden only 10 Observation well Monitoring & Research 2 Irrigation TYPE OF BLANK CASING USED: 5 Wrought iron 8 Concrete tile 3 RMP (SR) 1 Steel 6 Asbestos-Cement 9 Other (specify below) 4 ABS 2)PVC 7 Fiberglass Threaded...... Casing height above land surface......24.......in., weight lbs./ft. Wall thickness or gauge No. ...SDR. .26....... 7)PVC TYPE OF SCREEN OR PERFORATION MATERIAL: 10 Asbestos-cement 8 RMP (SR) 1 Steel 3 Stainless steel 5 Fiberglass 9 ABS 2 Brass 4 Gaivanized steet 6 Concrete tile 12 None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole) (3) Mill slot .035 1 Continuous slot 6 Wire wrapped 9 Drilled holes 4 Key punched 7 Torch cut 2 Louvered shutter From...... 277....... ft. to 285....... ft., From ft. to ft. SCREEN-PERFORATED INTERVALS: **GRAVEL PACK INTERVALS:** (1) Neat cement 2 Cement grout 3 Bentonite What is the nearest source of possible contamination: 10 Livestock pens 14 Abandoned water well 1 Septic tank 4 Lateral lines 7 Pit privy 15 Oil well/Gas well 11 Fuel storage 2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 16 Other (specify below) 3 Watertight sewer lines 6 Seepage pit 13 Insecticide storage 9 Feedyard Direction from well? How many feet? FROM LITHOLOGIC LOG FROM то LITHOLOGIC LOG content at depth 0 3 Dark brown silty clay topsoil 253 270 Greenish gray silty clay to clayey Pinkish tan to brown sity clay 3 9 silt with some grav el and lime Pinkish tan to pinkish brown to 9 20 nodules below 257 feet medium tan silty clay with lime 270 281 Medium to light gray to olive gray concretions silty sandy clay with sand and Light ashy grayish tan to tan to 20 vellowish tan silty clay with gravel 285 **Gravel** gravel 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 & 226 t.) Light to medium to dark gray silty 236 clay with increasing sand and gravel 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 nder the business name of KGS; M.KLEINSCHMIDT, MGR. 7DRILLER by (signature) by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or projet 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, Kunsas 66620-7500, Telephone: 913-862-9360. Send one under the business name of KGS; M.KLEINSCHMIDT, MGR. 7DRILLER

to WATER WELL OWNER and retain one for your records.

I VICCATION OF MA									
I LOCKHON OF WA	TER WELL:	Fraction		Sect	tion Number	Township N	lumber	Range	Number
County: Nemaha		SE ¼	SW ¼ NW	1/4	.34	T 4	S	R 12	(<u>F</u> W_
Distance and direction	from nearest town	or city street addre: n1 1es	ss of well if located	within city?					
approxi	mately 1 3/4	west of Cor	ning			····			· · · · · · · · · · · · · · · · · · ·
WATER WELL O		•	. •						
R#, St. Address, Bo	×#: 1930 0	Constant Ave	_	•		Board of	Agriculture, C	ivision of Wa	ter Resource
ity, State, ZIP Code		ice KS 660				Applicatio	n Number:		
	OCATION WITH 4			13/4	. # ELEVAT				
AN "X" IN SECTIO			r Encountered 1						
1 :			TER LEVEL $_{\cdot}$ 105 .						
w	NE		t data: Well water						
			gpm: Well water						
w X		ore Hole Diameter.	.10. +in. to	336	ft., a	ınd	in.	to	
w X		ELL WATER TO B	i i			8 Air conditioning			
l tw	SE	1 Domestic	3 Feedlot 6	Oil field wat	er supply . :	9 Dewatering	(12)	Other (Specify	/ below)
377	*	2 Irrigation	4 Industrial 7	Lawn and g	arden only 1	0 Observation w	el Monit	oring.&	research
	l i l w	as a chemical/bacte	riological sample sul	bmitted to De	partment? Ye	sNo	K; If yes,	mo/day/yr sa	mple was su
		itted	,			er Well Disinfect	•	-	
TYPE OF BLANK	CASING USED:	5 V	Vrought iron	8 Concre	te tile	CASING JO	INTS: Glued	X Clan	nped
1 Steel	3 RMP (SR)	6 4	Asbestos-Cement	9 Other (specify below			od	
(2) PVC	4 ABS		iberglass						
	r		•						
•	land surface					·			
	OR PERFORATION I		weight	(7)PV			bestos-ceme		& D
	3 Stairiless st		The series of						
1 Steel			iberglass		P (SR)				
2 Brass	4 Galvanized		Concrete tile	9 ABS			ne used (op	•	
	RATION OPENINGS			wrapped		8 Saw cut		11 None (op	en hole)
1 Continuous si		slot .035	6 Wire wr	apped		9 Drilled holes			
2 Louvered shu	tter 4 Key	punched	7 Torch c			10 Other (specif			
CREEN-PERFORAT	ED INTERVALS:	From324	ft. to	22%		•)	
				. 4. د	n., Fron	'	 14. W		
		From							
GRAVEL PA	ACK INTERVALS:	From	ft. to	<i></i>	ft., From	n	ft. to) <i></i>	
GRAVEL PA	ACK INTERVALS:	From 318	ft. to	336	ft., From	n	ft. to)	
•		From 318	ft. to ft. to ft. to	336	ft., From ft., From ft., From	n	. , , , ft. to ft. to ft. to)	ft
GROUT MATERIA	L: 1 Neat cen	From 318	ft. to ft. to ement grout	336 3 Bentor	ft., From ft., From ft., From	n	ft. to)	
GROUT MATERIA Grout Intervals: Fro	L: Neat cen	From	ft. to ft. to ement grout	336 3 Bentor	ft., Fromft., From ft., From the 4 (n	ft. tc	ft.· to	
GROUT MATERIA Grout intervals: Fro What is the nearest s	L: 1 Neat center of the course of possible co	From	ft. to ft. to ft. to ft. to ment grout ft., From	336 3 Bentor	ft., From ft., From ft., From oite 4 (n	ft. to	tt. to	
GROUT MATERIA Grout Intervals: Fro What is the nearest s 1 Septic tank	L: 1 Neat center of the cource of possible co	From	ft. to ft. or ft., From	3 Bentor ft. t	ft., From ft., From ft., From onite 4 (0	n	ft. to ft.	tt. to	
GROUT MATERIA Grout Intervals: Fro Vhat is the nearest s 1 Septic tank 2 Sewer lines	L: 1 Neat center of the cource of possible cource of the course of the c	From	ft. to ft. privy ft. From 7 Pit privy 8 Sewage lagoo	3 Bentor ft. t	ft., Fromft., From ft., From nite 4 (0	n	ft. tc ft. cc ft.	ft. to	ft ftft er well il
GROUT MATERIA frout intervals: Fro that is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser	L: 1 Neat center of the cource of possible co	From	ft. to ft. or ft., From	3 Bentor ft. t	ft., Fromft., From	n	ft. tc ft. cc ft.	tt. to	ft ftft er well il
GROUT MATERIA frout intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser friection from well?	L: 1 Neat center of the cource of possible cource of the c	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	ftft ftft er well il
GROUT MATERIA rout intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO	L: 1 Neat center of the cource of possible cource of the c	From	ft. to	3 Bentor ft. t	ft., Fromft., From	n	ft. tc ft. cc ft.	tt. to	
GROUT MATERIA rout intervals: Fro /hat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3	L: 1 Neat center of possible control of Lateral in 5 Cess power lines 6 Seepage	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA rout intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO	L: 1 Neat center of possible control of Lateral in 5 Cess power lines 6 Seepage Dark brown Medium brow	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA rout intervals: Fro /hat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3	L: 1 Neat center of possible control of Lateral in 5 Cess power lines 6 Seepage Dark brown Medium brow	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA rout intervals: Fro /hat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3 3 4	L: 1 Neat center of possible content of the content	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA frout intervals: Fro /hat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser firection from well? FROM TO 0 3 3 4 4 54	L: 1 Neat center of possible content of possible content of Lateral in the second seco	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	
GROUT MATERIA Grout Intervals: Fro Vhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser Direction from well? FROM TO 0 3 3 4 4 54 54 59	L: 1 Neat center of the cource of possible cource o	From	ft. to ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	
GROUT MATERIA Frout Intervals: Fro That is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser FROM TO 0 3 3 4 4 54	Dark brown Medium brow Tan silty s Interhedded Gray silty L: 1 Neat cen ft. Ource of possible co 4 Lateral 5 Cess po 6 Seepage Park brown Medium brow Tan silty s Interhedded Gray silty	From	ft. to ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA frout intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser firection from well? FROM TO 0 3 3 4 4 54 54 59	Dark brown Medium brow Tan silty s Interhedded Silty sandy Gray silty and some si	From	ft. to 7 Pit privy 8 Sewäge lagoor 9 Feedyard Copsoil ily clay gravel ry layers of gravel rith gravel ad/or gravel	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA frout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser hirection from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded Silty sandy Gray silty and some si layers, esp	From	ft. to 7 Pit privy 8 Sewäge lagoor 9 Feedyard Copsoil ily clay gravel ry layers of gravel rith gravel ad/or gravel	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA frout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser firection from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA rout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded Silty sandy Gray silty and some si layers, esp Gravel White to li	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA rout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA rout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded Silty sandy Gray silty and some si layers, esp Gravel White to li	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA rout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded Silty sandy Gray silty and some si layers, esp Gravel White to li	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA frout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser firection from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded Silty sandy Gray silty and some si layers, esp Gravel White to li	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	er well
GROUT MATERIA Grout Intervals: Fro What is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser Direction from well? FROM TO 0 3 3 4 4 54 54 59 59 330	Dark brown Medium brow Tan silty s Interhedded Silty sandy Gray silty and some si layers, esp Gravel White to li	From	ft. to	3 Bentor ft. t	it., From ft., From ft., From hite 4 (0	n	ft. tx	tt. to	
GROUT MATERIA Grout Intervals: Fro What is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser Direction from well? FROM TO 0 3 3 4 4 54 54 59 59 330 334 334 336	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel White to li	From	ft. to	3 Bentor ft. t	it., From tt., F	n	14 At 15 Oi 16 Or LITHOLOG	oft. to	er well
GROUT MATERIA Grout Intervals: Fro What is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser Direction from well? FROM TO 0 3 3 4 4 54 54 59 59 330 334 334 336	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel White to li stone	From	ft. to	3 Bentor ft. t	tted, (2) recor	n	ft. tc. ft. tc. 14 At. 15 Oi 16 Or LITHOLOG	ft. to pandoned wat it welt/Gas we ther (specify the control of the control	er well
GROUT MATERIA frout Intervals: Fro that is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irrection from well? FROM TO 0 3 3 4 4 54 54 59 59 330 334 336 CONTRACTOR'S completed on (mo/da)	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel White to li stone Dim. 0 Heat cen A Lateral S Cess po A Lateral S Lateral S Lateral A Lateral S Cess po A Lateral S Lat	From	ft. to	3 Bentor ft. tr ft.	it., From tt., F	n	ft. tc. ft. tc. 14 At. 15 Oi 16 Or LITHOLOG	or ft. to pandoned wat it well/Gas we ther (specify but the control of the	er well
GROUT MATERIA rout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3 3 4 4 54 54 59 59 330 334 334 336 CONTRACTOR'S empleted on (mo/day later Well Contracto	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel White to li stone OR LANDOWNER'S Nyear) 8/29-9/ 's License No	From	ft. to	3 Bentor It to FROM FROM 1 bonstruc ushed4/	it., From tt., F	n	ft. to ft	or my jurisdictowledge and tage	er well
GROUT MATERIA rout Intervals: Fro fhat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser irection from well? FROM TO 0 3 3 4 4 54 54 59 59 330 334 334 336 CONTRACTOR'S empleted on (mo/day later Well Contractor inder the business in	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel White to li Stone OR LANDOWNER'S Nyear) 8/29-9/ 's License No	From	ft. to	3 Bentor ft. tr ft.	ted, (2) records completed of John (signature)	nother	ft. to ft	or ft. to	er well il below)
GROUT MATERIA frout intervals: Fro /hat is the nearest s 1 Septic tank 2 Sewer lines 3 Watertight ser firection from well? FROM TO 0 3 3 4 4 54 54 59 59 330 334 334 336 CONTRACTOR'S completed on (mo/day /ater Well Contracto nder the business ne	Dark brown Medium brow Tan silty s Interhedded silty sandy Gray silty and some si layers, esp Gravel White to li stone OR LANDOWNER'S Nyear) 8/29-9/ 's License No	From	ft. to	3 Benton FROM FROM (1) construct ushed4/ Record was er w/R. Please fill in b.	tted, (2) record completed of sompleted of s	n	ft. to ft	or ft. to	er well if below) tion and we belief. Kansa

WATER WELL RECORD	Form WWC-	Division of Water Resources; App. No.
1 LOCATION OF WATER WELL County: NEMBHA		Section Number Township Number Range Number
Distance and direction from neares	st town or city street address of we'	ll if Global Positioning Systems (decimal degrees, min. of 4 digits)
located within city? From KE	LY! 3 SOUTH AND INEST	Latitude: 39. 7/774
		Longitude: 96.00258
2 WATER WELL OWNER: (20)	WINKLER	Elevation: //9/
RR#, St. Address, Box # : /17	8 my RD	Datum:
	West LE //JII	Date Calleraine Made 1
2 LOCATE WELLS A DEPTH	WENG, KS (6417 OF COMPLETED WELL	Data Collection Method:
3 LOCATE WELL'S 4 DEPTH	OF COMPLETED WELL	1.7. 6 It.
LOCATION Daniel (c) C	Samuel Samuel Colored Colored	173
WITH AN "X" IN Depth(s) G SECTION BOX: WELL'S S	roundwater Encountered (1)	173 ft. (2)
SECTION BOX: WELL S.S.	TATIC WATER LEVEL	
For Viold	100 term: Well water was	ft. after hours pumping gpm ft. after hours pumping gpm
WEIT W	ATED TO DE LICED AC. 5 D.L.	c water supply 8 Air conditioning 11 Injection well
}11W 11L	3 Feedlot 6 Oil field	water supply 9 Dewatering 12 Other (Specify below)
W E Domesti		c (lawn & garden) 10 Monitoring well
1 1 ' 1 ' 1 1 -	n 4 maastraa / Domestic	(lawn & garden) To Montoring wen
SWSE Was a cher	mical/bacteriological sample subm	itted to Department? Yes No; If yes, mo/day/yrs
Sample wa	as submitted	Water well disinfected? Yes No
s	o succession and a succ	Water went distincted: 103 / C 110
· · · · · · · · · · · · · · · · · · ·		GLODIC YOUNG GILLI VI GILLI
5 TYPE OF CASING USED:	5 Wrought Iron 8 Concr	ete tile CASING JOINTS: Glued Clamped
1 Steel 3 RMP (SR)	6 Asbestos-Cement 9 Other	(specify below) Welded
	7 Fiberglass	Threaded
Blank casing diameter in.	to ft., Diameter	in. to
Casing height above land surface	TONIA TENNA	lbs./ft. Wall thickness or guage No. SDR Z.6
TYPE OF SCREEN OR PERFORAT		0.470
1 Steel 3 Stainless Steel 2 Brass 4 Galvanized Stea	3	9 ABS 11 Other (Specify)
SCREEN OR PERFORATION OPEN		10 Asbestos-Cement 12 None used (open hole)
		orch cut 9 Drilled holes 11 None (open hole)
2 Louvered shutter 4 Key nur	. S Gauzeu wrappeu / 10	aw cut 10 Other (specify)
SCREEN-PERFORATED INTERVA	I S: From ft to	ft., From ft. to ft.
JOHN TEIG ORGITED HYTEKYZ	From ft to	ft., From ft. to ft.
GRAVEL PACK INTERVA	I.S. From ft to	ft., From ft. to ft.
	From ft to	ft., From
6 GROUT MATERIAL: 1 Neat	cement 2 Cement grout Ren	stonite 4 Other
Grout Intervals: From3	ft. to Z.S ft., From	ft. toft.
What is the nearest source of possible	contamination:	
1 Septic tank 4 La	ateral lines 7 Pit privy 10	0 Livestock pens 13 Insecticide storage 6 Other specify
		1 Fuel storage 14 Abandoned water well below)
	epage pit 9 Feedyard 12	2 Fertilizer storage 15 Oil well/gas well
Direction from well? E.A.S	Н	low many feet?
	THOLOGIC LOG	FROM TO PLUGGING INTERVALS
0 105 CLAY TRO	CL GRAVEL BEAS (1-Z")	
105 173 TATE & BEAD	BO FINE SANDE CLAY	
	12 W GRAVEL	
186 192 SHALK CA	2AU	
7 CONTRACTOR'S OR LANDON	VNER'S CERTIFICATION: Th	his water well was (1) constructed, (2) reconstructed, or (3) plugged
under my jurisdiction and was comple	eted on (mo/day/year) 3/27/06	and this record is true to the best of my knowledge and belief.
Kansas Water Well Contractor's Lice	nse No. 7/00 This Water	Well Record was completed op/mo/day/year)
	OCTATED ORDLIEN'S TO	
INSTRUCTIONS: Use typewriter or hall no	int pen. PLEASE PRESS FIRMLY and P.	RINT clearly. Please fill in blanks, underline or circle the correct answers. Send top
three copies to Kansas Department of Health a	ind Environment, Bureau of Water, Geolog	gy Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone
	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.		



		1
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			WWC-5	L	Division of Wate	1	11/-11/15		
✓ Original Record ☐ Correction ☐ Chang 1 LOCATION OF WATER WELL:			ge in Well Use Fraction		esources App. 1 Section Number		Well ID Range N	Jumber	
County: Nemaha			SE 1/4 NE 1/4 NW 1/4		36	T 4 S	R 12 Z		
l		Last Name: Winkler	First: LeRov			where well is located			
Business:		ı B4		direction fro	's address, check	k here: 🖊			
Address:	11704 101-	ritu .							
City:	Cornina								
3 LOCAT		4 DEPTH OF CON	MPLETED WELL: .	200	ft. 5 Latit	ude: 39.65924	7 (decir	mal degrees)	
WITH "	ON BOX:	Depth(s) Groundwater	Encountered: 1)	ft.	Long	itude: 96.0293	28 (deci	imal degrees)	
	N DOM.		3) ft., or 4)	Dry Well Datum: V WGS 84 NAD 83 NAD 27					
			TER LEVEL:						
1 1 '	NE		, measured on (mo-day-			☐ GPS (unit make/model:			
			vater was f			and Survey Topogra	phic Map		
W X	E		s pumping water was f			Online Mapper:	•••••		
SW	SE		s pumping			4240	· · · · · · · · · · · · · · · · · · ·		
		Estimated Vield:	gnm	,	6 Eleva	tion: 1340 ft.	Ground Lev	rel ☐ TOC	
	S mile		6 in to 200		Sourc	e: Land Survey C Other KOLAR	iPS Topogr	raphic Map	
		O BE USED AS:	in. to	11.	L	- Other Master Master			
1. Domestic			ater Supply: well ID		10. 🗆 O	il Field Water Supply: Ie	ase		
House		6. 🗌 Dewaterir	ig: how many wells?		11. Test	Hole: well ID			
☐ Lawn	& Garden		echarge: well ID			ased Uncased C			
2. Irrigat			ig: well IDal Remediation: well ID			hermal: how many bores' losed Loop Horizonta			
3. Teedlo	ot _.	☐ Air Sparg				pen Loop Surface Dis		of Water	
4. 🗌 Indust	rial	☐ Recovery	☐ Injection		13. 🔲 O	ther (specify):			
		eriological sample subn	nitted to KDHE? 🗆	Yes 🛮 N	o If yes, date	e sample was submitted	l:		
Water well	disinfected	? Yes No	I DDE		DIC IODITIO				
Casing diam	OF CASING	G USED: Steel PV	C ☑ Other .□□□□	CAS	SING JOINTS	6: ☐ Glued ☐ Clamped	₩ Welded □	Threaded	
Casing dian	ht above land	in. to 200 ft. I surface -18 ir	n. Weight	lbs./f	t. Wall thick	cness or gauge No. SDR	11		
		R PERFORATION MA	TERIAL:						
☐ Steel		inless Steel		., .		ner (Specify)			
Brass	_	lvanized Steel ☐ Cond RATION OPENINGS A		sed (open h	ole)		•		
	nuous Slot			rch Cut	Drilled Holes	Other (Specify)			
		☐ Key Punched ☐ W	/ire Wrapped 🔲 Sa	w Cut 🛛 🗸] None (Open F	Iole)	•		
		TED INTERVALS: From							
		CK INTERVALS: From							
Grout Interv	als: From	AL: Neat cement 0 ft. to 200	f From	ntonite L	Otner	ft to	fr		
		ole contamination:			,				
Septic		☐ Lateral Line			Livestock Pe	_			
☐ Sewer	Lines ight Sewer L	☐ Cess Pool ines ☐ Seepage Pit	☐ Sewage Lage ☐ Feedyard ☐ Feedyard ☐ Sewage Lage ☐ Feedyard	-	☐ Fuel Storage ☐ Fertilizer Sto		ned Water Well		
Other ((Specify)					_	Vas wen		
Direction fro	om well?		Distance from we	11?					
10 FROM	TO	LITHOLO	GIC LOG	FROM	TO	LITHO. LOG (cont.) or	PLUGGING IN	TERVALS	
3	3 35	Topsoil Tan Shale				· · · · · · · · · · · · · · · · · · ·		<u> </u>	
35	37	Sand				- · · - · · · · · · · · · · · · · · · ·			
37	50	Tan Shale							
50	130	Black Shale							
130	132	Sand (Bidger)							
132	200	Black Shale		Notes:					
				4			•	*	
11 CONT	RACTOR'	S OR LANDOWNER'	SCERTIFICATION	This wa	ter well was E	7 constructed Treco	nstructed or	7 plugged	
under my i	urisdiction :	and was completed on (n	05/85/9. (no-day-year	1.1 аг	d this record	is true to the best of my	knowledge an	nd belief.	
Kansas Wa	ter Well Co	ontractor's License No	760 This Wa	ter Well R	lecord was con	npleted on (mo-day-ye	ar) <i>2/22/2</i> 01 <i>2</i>	2	
under the business name of Associated Drilling, lng. Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.									
KS Departr	nent of Health	and Environment, Bureau of V	Water, Geology Section, 10	00 SW Jacks	on St., Suite 420,	Topeka, Kansas 66612-1367	 '. Telephone 785-	-2 96 - 3565.	
	Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212								

to WATER WELL OWNER and retain one for your records.

WATER WEL		Form WWC-	5	Division o	f Water R	esources; App. No.	<u> </u>			
1 LOCATION (County: AJE	OF WATER WELL:	Fraction	15_1/4	Section Num	nber 1	ownship Number S	Range Number			
Distance and d	County: NEMAHA WW 1/4 NR 1/4 Distance and direction from nearest town or city street address of well if				Global Positioning Systems (decimal degrees, min. of 4 digits)					
located within city? FROM CORNENG, 2 MFLAS 50 TENT AND				Latitude: 39° 35 68 5 Longitude: 96° 02.542						
	YH WAST	4		Longitude:	-96	02.542				
	LL OWNER: J-STX FA			Elevation:						
City State 71	ess, Box # : 604 NEMAH	112	l	Datum.						
CRy, State, Zi.	P Code : SENECA, KS	66533		Data Collec		thod:				
3 LOCATE WE	LL'S 4 DEPTH OF COMP	PLETED WELL	. I. X.D.	••••••	ft.					
LOCATION WITH AN "X	"IN Depth(s) Groundwater	E-countered (1)	2 B	A (2)	_	Α (2)	Δ			
SECTION BO										
N SECTION BO	Pump test data	Well water was	 .11.	ft. after	-	hours numping	gpm			
T X	Pump test data: Est. Yield9gpm	: Well water was	•••••	ft. after		hours pumping	gpm gpm			
NW NE	WELL WATER TO BE	E USED AS: 5 Publi	c water s	supply 8	3 Air cor	iditioning 11 Inje	ction well			
w	E Domestic 3 Feed	llot 6 Oil field	water su	pply 9	Dewate	ering 12 Oth	er (Specify below)			
1. 1.	2 Irrigation 4 Indu	istrial 7 Domestic	c (lawn &	k garden) 10) Monito	ring well	••••••			
SW SE	Was a chemical/bacteri	ological sample subm	itted to I	Denartment?	Vec	Noto.	If ves mo/day/yrs			
	Sample was submitted.		Wate	r well disinfe	cted? Y	es No				
s	F 1		,		_	7				
5 TYPE OF CAS	SING USED: 5 Wrought I	ron 8 Conci	rete tile	C	ASING J	OINTS: Glued.	Clamped			
1 Steel	3 RMP (SR) 6 Asbestos-	Cement 9 Other	(specify	below)		Welded	···· Clampud			
PVC	4 ABS 7 Fiberglass					Threaded.				
Blank casing diam	neter 5 in. to	ft., Diameter 5	5i	n. to/.50	l ft., Di	ameteri	n. toft.			
Casing height abo	ve land surface	in., Weight	•••••	lbs./ft. W	all thick	ness or guage No.	5URZ			
1 YPE OF SCREE	ON OR PERFORATION MATE. 3 Stainless Steel 5 Fibery	RIAL:	0.4	DC	1	1 Other (Specify) .				
2 Brass						2 None used (open				
	REFORATION OPENINGS ARE		, 101	13003103-0011	none i	2 Hone used (open	11010)			
1 Continuo	is slot Mill slot 5 Gu	azed wrapped 7 To								
2 Louvered	shutter 4 Key punched 6 W	ire wrapped 8 S	aw Cut	10 Other (s	specify)					
SCREEN-PERFO	RATED INTERVALS: From									
CDAVE	From	<i>!50</i> ft. to	170	It., Fro	om		It.			
GRAVEI	PACK INTERVALS: From.	ft. to		11., FI	om —	- ft to	الا الا.			
	110111.				OIII	· · · · · · · · · · · · · · · · · · ·				
	ERIAL: 1 Neat cement 2 (
Grout Intervals:	From			ft. t o	ft., 1	From	ft. toft.			
	t source of possible contaminati		01'	1 -	12.7		(04)			
1 Septic tan 2 Sewer line			0 Livesto 1 Fuel st	-		ticide Storage doned water well	least (specify below)			
	<u>-</u>	- -				ell/gas well	HOL BRAN			
	11? WRST	•	low man		200		••••••			
FROM TO	LITHOLOGIC	LOG	FROM	TO		PLUGGING INTE	RVALS			
0 34	CLAY BLOWN TO THE									
34 36		FAUFLYD CASS				·				
38 76	CLAY, TAN									
76 105	CLAY, GRAY									
105 106	CLAY, GRAY				•					
106 166	GRAVEL			+						
	CIAV LOW	·		1						
168 170	CUITY VILLEY			1						
			· · · · · · · · · · · · · · · · · · ·	 						
7 CONTRACTO	R'S OR LANDOWNER'S CE	RTIFICATION: Th	is water	well was	construc	ted, (2) reconstructe	ed, or (3) plugged			
under my jurisdict	ion and was completed on (mo/o	day/year) 2/13/07	and	this record is	s true to 1	he best of my know	ledge and belief.			
Kansas Water Wei	ll Contractor's License No 26	This Water	Well Red	ord was com	pleted of	n (mg/day/year) .	<i>'!!10./</i>			
under the business	name of ASSOCIATION DI	Round TNU	by by	(signature)		Jane				
three conies to Kansas	se typewriter or ball point pen. <u>PLEA.</u> Department of Health and Environmen	SE PRESS FIRMLY and P. t. Bureau of Water. Geolog	KINI clear by Section	iy. Please fill ir 1000 SW Jacks	n blanks, u on St., Suit	nuerline or circle the co e 420. Topeka, Kansas (freet answers. Send top 56612-1367. Telenhone			
785-296-5522. Sen	d one to WATER WELL OWN	ER and retain one for	your re	cords. Fee	of \$5.00	for each constructed	well. Visit us at			
http://www.kdhe.state.										

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.

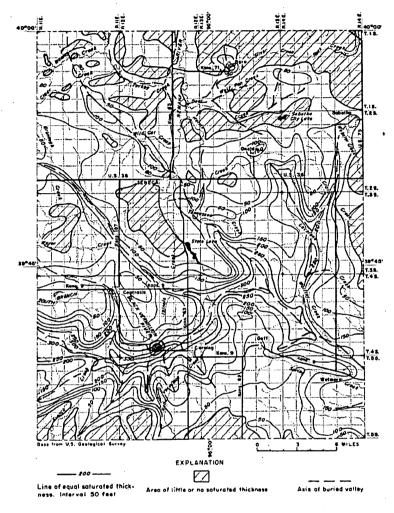
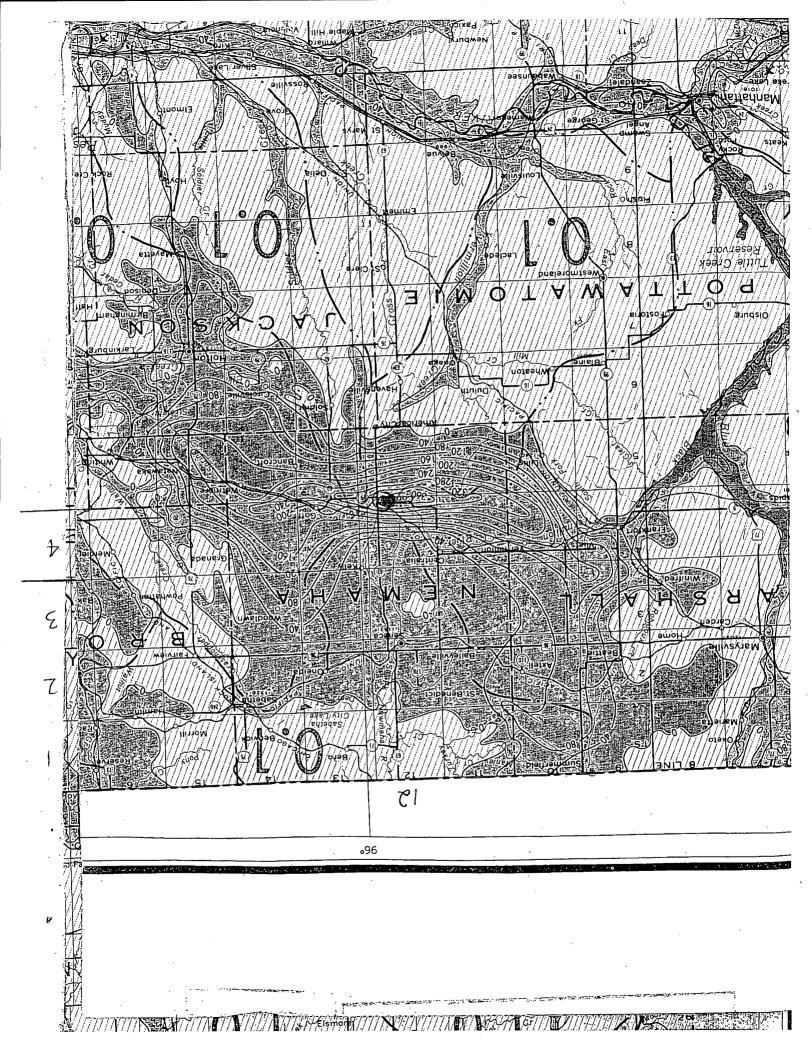
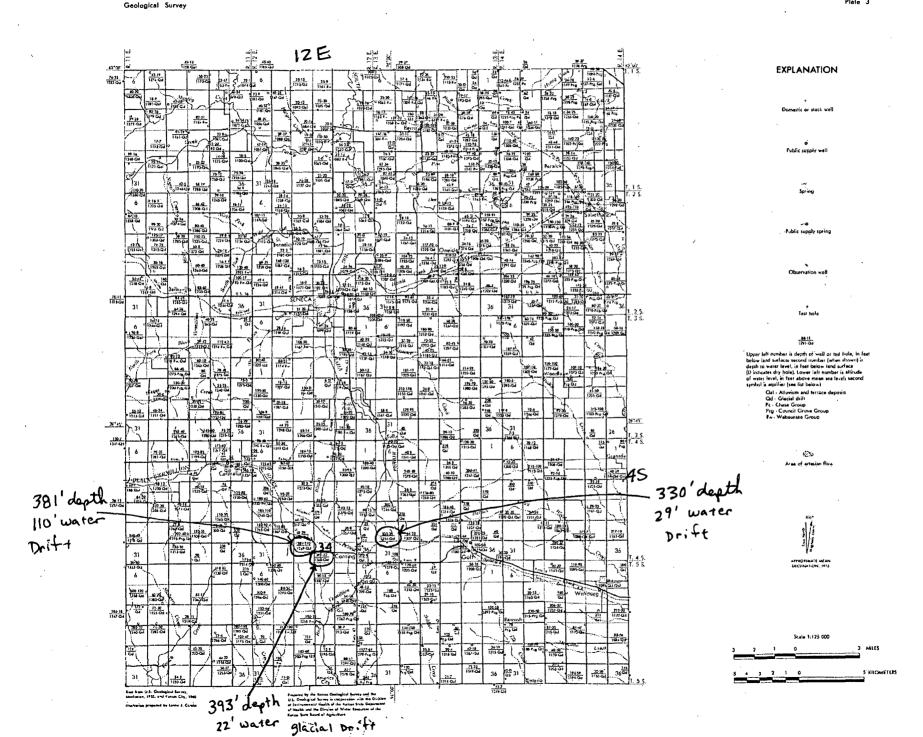


Figure 6--Generalized yields to wells in uncolidated deposits, 1968-72.

= 330' thickness







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

November 9, 2017

ROGER D BECKER TRUST 1095 52ND RD CORNING KS 66417



RE: Application File No. 49932

Dear Sir or Madam:

Your application for permit to appropriate water in 33-4S-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,

Kristen A. Baum

New Applications Unit Supervisor Water Appropriation Program

Srister a Baum

BAT:

dlw

pc:

TOPEKA Field Office

GMD

1:24,000

ROGER BECKER TRUST SITE MAP SECS. 28 & 33, T4S, R12E NEMAHA COUNTY



NOV 0 2 2017



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.

SCANNED