

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

1. File Number: <p style="text-align: center;"><b>49,623</b></p>	2. Status Change Date: <p style="text-align: center;"><b>6/15/2017</b></p>	3. Field Office: <p style="text-align: center;"><b>01</b></p>	4. GMD: <p style="text-align: center;"><b>0</b></p>
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5. Status:     Approved        Denied by DWR/GMD        Dismiss by Request/Failure to Return

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

<p>7a. Applicant(s)                      Person ID <b>64949</b> New to system <input type="checkbox"/>                      Add Seq# _____</p> <p><b>BRETT HERRS</b> 122 N PENNSYLVANIA ST PALMER KS 66962</p>	<p>7c. Landowner(s)                      Person ID _____ New to system <input checked="" type="checkbox"/>                      Add Seq# _____</p>
<p>7b. Landowner(s)                      Person ID _____ New to system <input type="checkbox"/>                      Add Seq# _____</p> <p><b>7a.</b></p>	<p>7d. Misc.                                      Person ID _____ New to system <input type="checkbox"/>                      Add Seq# _____</p>

<p>8. WUR Correspondent                      Person ID _____ New to system <input type="checkbox"/>                      Add Seq# _____ Overlap File (s) WUC                      Notarized WUC Form <input type="checkbox"/> Agree <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><b>7a.</b></p>	<p>9. Use of Water:    Changing?    <input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No</p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> Groundwater    <input type="checkbox"/> Surface Water</p> <p><input 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>
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10. Completion Date: 12/31/2018                      11. Perfection Date: 12/31/2022                      12. Exp Date: \_\_\_\_\_

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

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

Date Prepared: **4/19/2017**    By: **DWS**  
Date Entered: **6/16/2017**    By: **UM**

File No. **49,623**      15. Formation Code: **340**      Drainage Basin: Republican River      County: **WS**      Special Use:      Stream:

16. Points of Diversion										
MOD	DEL	ENT	PDIV	Qualifier	S	T	R	ID	'N	'W
<b>MOD</b>			<b>85239</b>	<b>NW NE NW</b>	<b>12</b>	<b>4</b>	<b>2E</b>	<b>1</b>	<b>5142</b>	<b>3319</b>

17. Rate and Quantity				
Authorized		Additional		
Rate gpm	Quantity af	Rate gpm	Quantity af	Overlap PD Files
<b>1200</b>	<b>96</b>	<b>1200</b>	<b>96</b>	<b>NONE</b>

18. Storage: Rate \_\_\_\_\_ NF      Quantity \_\_\_\_\_ ac/ft      Additional Rate \_\_\_\_\_ NF      Additional Quantity \_\_\_\_\_ ac/ft

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

20. Meter Required?  Yes     No      To be installed by **12/31/2018**      Date Acceptable Meter Installed \_\_\_\_\_

21. Place of Use							NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg? NO	Overlap Files			
MOD	DEL	ENT	PUSE	S	T	R	ID	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼						
√			<b>67688</b>	<b>12</b>	<b>4</b>	<b>2E</b>	<b>1</b>					<b>40</b>				<b>40</b>									<b>80</b>	<b>7a</b>	<b>No</b>	<b>NONE</b>	

Comments:

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

**M E M O R A N D U M**

**TO:** Files

**DATE:** April 19, 2017

**FROM:** Doug Schemm

**RE:** Application, File No. 49,623

Brett Herrs has filed the referenced application for permit to appropriate 96 acre-feet of groundwater at a rate of diversion of 1,200 gallons per minute from a proposed well. The well would be located in the Northwest Quarter of Section 12, in Township 4 South, Range 2 East, in Washington County. The proposed appropriation is located in the drainage basin of the Republican River. The applicant owns the entire place of use comprising 80 acres, and he has signed the application form stating that he has access to the point of diversion. The maximum allowable to irrigate the proposed 80 acres in Washington County is 1.2 acre-feet per acre, or a total of 96 acre-feet. Therefore, the quantity requested on the new application complies with the maximum allowable quantity.

The source of water for this pending groundwater application appears to be the **confined** Dakota aquifer system based on the test hole log that was submitted, and other area wells. No specific safe yield evaluation has been adopted by the chief engineer for the confined Dakota aquifer system, although it is likely that the confined Dakota aquifer system would receive significantly less recharge than a near-surface, unconfined aquifer. Therefore, in order to better represent the potential recharge to this confined aquifer, it was determined that the saturated thickness of the aquifer and the thickness of the confining unit are critical factors. Limited saturated thickness with a significant confining unit would get less recharge (0.3 times the "standard" K.A.R. 5-3-11 value), while significant saturated thickness with a limited confining unit would get more recharge (0.5 times the "standard" K.A.R. 5-3-11 value). For Application, File No. 49,623, the saturated thickness (75') is less than the confining unit thickness (100'), which results in factor of less than 1. A factor less than 1 gets 0.3 times the "normal" recharge. The K.A.R. 5-3-11 safe yield recharge value was determined to be 2.8 inches. Multiplying 2.8 inches x 0.3 results in a recharge of 0.84 inches. The area of consideration was determined to be the full 8,042 acres. Therefore, 8,042 acres x 0.84 inches x 100% recharge available / 12 provides a safe yield of 562.94 acre-feet. Existing appropriations total 159.6 acre-feet, leaving 403.34 acre-feet available (after dismissal of File No. 49,138 for failure to complete diversion works), and the application requesting 96 acre-feet meets safe yield (see attached calculation sheet).

The applicant did not identify any wells of any kind within one-half mile of the proposed point of diversion for this groundwater file. As noted above, File No. 49,138 is being dismissed for failure to complete diversion works. The nearest permitted well is over 6,800 feet away, and it is the only permitted well within a two mile radius circle (File No. 48,747). In addition, there are several more wells that are over three miles away. Per K.A.R. 5-4-4, wells sourcing the confined Dakota aquifer system are to meet 4 mile spacing between wells. File Nos. 48,747 and 48,748 are both sourcing the confined Dakota aquifer system, and are less than 4 miles away. However, the definition notes they must have a "common source of supply". For some of these wells, there is insufficient information to determine if they are in the same, common aquifer. It appears that a spacing of over a mile should be adequate to prevent direct impairment to the nearest water right. With only one other well in two miles, obviously this area is not heavily developed. Per K.A.R. 5-4-4, well spacing can be reduced, if it is determined that the minimum well spacing criteria to non-domestic wells of 4 miles is not necessary to prevent direct impairment in a specific instance, and the proposed well spacing is sufficient to prevent direct impairment and to protect the public interest.

In addition, there are several wells sourcing the confined Dakota aquifer system in this local area, which have been diverting water for many years (see File Nos. 29,215 & 35,086), with no reported impairment concerns. Also note that both of these senior files pumped their authorized quantity of water in 2012, and they are located approximately one mile apart.

Brett Herrs  
File No. 49,623  
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 chemicals will be injected into the water pumped under this permit, a check valve will also be required.

Katie Tietsort, Water Commissioner of the Topeka Field Office, recommended approval of the referenced application in an April 19, 2017 discussion.

Based on the above discussion, the area is open to new appropriations, the point of diversion meets minimum well spacing criteria, the application complies with safe yield criteria, and approval will not impair senior water rights, it is recommended that the referenced application be approved.

Doug 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

June 6, 2017

BRETT HERRS  
122 N PENNSYLVANIA ST  
PALMER KS 66962

**FILE COPY**

Re: Appropriation of Water, File No. 49,623

Dear Mr. Herrs:

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



**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. 49,623** of the applicant

**BRETT HERRS  
122 N PENNSYLVANIA ST  
PALMER KS 66962**

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 **April 20, 2016**.
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	
12	4S	2E					40			40								80	

3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of one (1) well located in the Northwest Quarter of the Northeast Quarter of the Northwest Quarter (NW¼ NE¼ NW¼) of Section 12, more particularly described as being near a point 5,142 feet North and 3,319 feet West of the Southeast corner of said section, in Township 4 South, Range 2 East, Washington 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 **1,200 gallons per minute (2.67 c.f.s.)** and to a quantity not to exceed **96 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 of \$400.00 when construction of the works has been completed. Failure to timely submit the notice and the fee will result in revocation of the permit. Any request for an extension of time shall be submitted prior to the expiration of the deadline and shall be accompanied by the required statutory fee of \$100.00.

6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before **December 31, 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 of \$100.00.

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

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

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

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

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

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

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.

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

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

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

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

Ordered this 5<sup>th</sup> day of June, 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 5<sup>th</sup> day of June, 2017, by Lane P. Letourneau, P.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.



*Danielle Wilson*

Notary Public



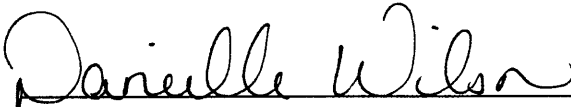
### CERTIFICATE OF SERVICE

On this 6<sup>th</sup> day of June, 2017, I hereby certify that the foregoing Approval of Application and Permit to Proceed, File No. 49,623, dated June 5<sup>th</sup>, 2017 was mailed postage prepaid, first class, US mail to the following:

BRETT HERRS  
122 N PENNSYLVANIA ST  
PALMER KS 66962

With photocopies to:

Topeka Field Office



Danielle Wilson

Division of Water Resources

APPLICATION COMPLETE

3/15/2017

Reviewer DWS



THE STATE OF KANSAS

KANSAS DEPARTMENT OF AGRICULTURE  
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES  
David W. Barfield, Chief Engineer

WATER RESOURCES RECEIVED

APR 20 2016

11:01

KS DEPT OF AGRICULTURE

File Number 49,623

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

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:

1. Name of Applicant (Please Print): BRETT HERRS  
Address: 122 N Pennsylvania St  
City: Palmer State: KS Zip Code 66962  
Telephone Number: (785) 747-7325

2. The source of water is:  surface water in \_\_\_\_\_ (stream)  
OR  groundwater in REPUBLICAN RIVER (Dakota Formation) \_\_\_\_\_ (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 96 acre-feet OR \_\_\_\_\_ gallons per calendar year, to be diverted at a maximum rate of 1200 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:  
S.O. 1 GMD  Meets K.A.R. 5-3-1  (YES/NO) Use IRR Source  S County WS By \_\_\_\_\_ Date 4/20/16  
Code \_\_\_\_\_ REG Fee \$ 200 TR # \_\_\_\_\_ Receipt Date 4/20/16 Check # 2001

SCANNED

4/26/2016 LCM

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

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

- \* (A) One in the SW/NW quarter of the NE quarter of the NW quarter of Section 12, more particularly described as being near a point 4,023 <sup>5,142'</sup> feet North and 3,811 <sup>3,319</sup> feet West of the Southeast corner of said section, in Township 4 South, Range 2 EAST, WASHINGTON County, Kansas.
- (B) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ East/West (circle one), \_\_\_\_\_ County, Kansas.
- (C) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ East/West (circle one), \_\_\_\_\_ County, Kansas.
- (D) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ East/West (circle one), \_\_\_\_\_ County, Kansas.

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

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

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

Applicant  
(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 \_\_\_\_\_, 2016. Burt T  
Applicant's Signature

7. The proposed project for diversion of water will consist of 1 WELL ~~OR BATTERY OF WELLS~~ PWS/DWR 3/21/17  
(number of wells, pumps or dams, etc.)  
and (was) completed (by) SUMMER 2016  
(Month/Day/Year - each was or will be completed)

8. The first actual application of water for the proposed beneficial use was or is estimated to be Summer 2016.  
(Mo/Day/Year)

WATER RESOURCES  
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APR 20 2016

KS DEPT OF AGRICULTURE

SCANNED

9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?

Yes  No If "yes", a check valve shall be required.

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

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

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

• If yes, show the Water Structures permit number here \_\_\_\_\_

• If no, explain here why a Water Structures permit is not required \_\_\_\_\_

GROUNDWATER WELL

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

(a) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) should be plotted as described in Paragraph No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section.

(b) If the application is for groundwater, please show the location of any existing water wells of any kind within 1/2 mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please advise us.

(c) If the application is for surface water, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.

(d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.

(e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.

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

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

NONE

WATER RESOURCES  
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APR 20 2016

KS DEPT OF AGRICULTURE

SCANNED

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

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

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

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

\_\_\_\_\_  
(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 Palmer, Kansas, this 13<sup>th</sup> day of April, 2016.  
(month) (year)

[Signature]  
(Applicant Signature)

[Redacted]  
APPLICANT(S) SOCIAL SECURITY IDENTIFICATION NUMBER(S)

By \_\_\_\_\_  
(Agent or Officer Signature)

47-2873474  
and/or  
APPLICANT(S) TAXPAYER I.D. NO.(S)

\_\_\_\_\_  
(Agent or Officer - Please Print)

Assisted by DWS TOPEKA FO Date: 4/11/2016  
(office/title)

WATER RESOURCES RECEIVED

APR 20 2016

KS DEPT OF AGRICULTURE

SCANNED

10/10/10

10/10/10



## IRRIGATION USE SUPPLEMENTAL SHEET

File No. 49,623

Name of Applicant (Please Print): BRETT HERRS

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: BRETT HERRS

ADDRESS: 122 N. Pennsylvania ST. #5 Palmer, KS 66962

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12	4S	2E					40			40								80	

**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	

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

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

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total:	100 %		

b. Estimate the average land slope in the field(s): \_\_\_\_\_ %

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

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

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

Other, please describe: \_\_\_\_\_

d. System design features:

i. Describe how you will control tailwater:

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: \_\_\_\_\_ psi

(2) What is the sprinkler package design rate? \_\_\_\_\_ gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? \_\_\_\_\_ feet

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

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

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

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



\* Per test hole GPS, well is located 5,142' N & 3,319' W. DWS/DWR confirmed well location with applicant on 3/21/17.

3/21/17

# Sargent Drilling

Geneva, NE  
TEST HOLE LOG

CUSTOMER: <i>Brett Harris TH 17-074</i>	DATE: <i>3-15-17</i>	
LOCATION: <i>Linn KS</i>	SWL	
DRILLED BY: <i>Scott</i>	PWL	GPM
* GPS: N <i>34° 43' 33.0"</i> W <i>097° 09' 19.7"</i>		
ELEVATION: <i>1409'</i>		

(Include: Type, Hardness & Color)

0	20	<i>Sandy Top Soil 5' Shale Brown, White Red</i>	<i>15'</i>
20	40	<i>Shale Red, White, Gray</i>	
40	60	<i>Shale Gray, White, Red</i>	
60	80	<i>Shale Red, White, Gray</i>	
80	100	<i>Shale Gray in Sandstone Striped Layers 13' Sandstone 7'</i>	
100	120	<i>Sandstone</i>	
120	140	<i>Sandstone</i>	
140	160	<i>Fine &amp; Medium Sandstone</i>	
160	180	<i>Medium Sandstone 5' Shale White, Gray, Black</i>	
180	200		
200	220		
220	240		
240	260		
260	280		
280	300		
300	320		
320	340		

RECEIVED

MAR 15 2017

Topeka Field Office  
DIVISION OF WATER RESOURCES

Plain casing: \_\_\_\_\_ of \_\_\_\_\_ " OD x \_\_\_\_\_ " ID type \_\_\_\_\_

Port casing: \_\_\_\_\_ of \_\_\_\_\_ " x \_\_\_\_\_ " OD Slot Size \_\_\_\_\_

\_\_\_\_\_ and from \_\_\_\_\_ to \_\_\_\_\_ desc \_\_\_\_\_ qty \_\_\_\_\_

\_\_\_\_\_ and from \_\_\_\_\_ to \_\_\_\_\_ volume \_\_\_\_\_ type \_\_\_\_\_

\_\_\_\_\_ and from \_\_\_\_\_ to \_\_\_\_\_ volume \_\_\_\_\_ type \_\_\_\_\_

49,138

Similar log to  
file # 49,623

# associated DRILLING, INC.

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

July 21, 2014, 2014


Test hole log for Ralph Rogge.

The location of the test hole is N 39.722974 W 97.170524 with an elevation of 1447 feet.

0-34	Clay, red to red brown
34-35	Sand, fine to medium ~ 5 gpm
35-100	Shale, gray, red and tan
100-170	Sandstone, H2O, > 100 gpm
170-216	Shale, gray
216	Total depth

Static Water Level: 75 feet below ground surface.

There appears to be approximately 70 feet of water bearing sandstone present. It may require a battery of wells to supply enough water to a center pivot irrigation system.

  
 Darin R. Duncan, PG  
 Associated Drilling, Inc.

RECEIVED  
 JUL 25 2014  
 TOPEKA FIELD OFFICE  
 DIVISION OF WATER RESOURCES

WATER RESOURCES  
 RECEIVED  
 AUG 20 2014  
 SCANNED  
 KS DEPT OF AGRICULTURE

**IRRIGATION USE  
SUPPLEMENTAL SHEET**

File No. 49,623

Name of Applicant (Please Print): BRETT HERRS

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: BRETT HERRS 122 N Pennsylvania St  
ADDRESS: Palmer, KS 66502

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			N	N	S	SE	N	N	S	SE	N	N	S	SE	N	N	S	SE	
1	4	2	E	W	W		E	W	W	4	E	W	W		E	W	W		80
2	S	E					0			0									
																			67 acres tillable

**Landowner of Record** NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			N	N	S	SE	N	N	S	SE	N	N	S	SE	N	N	S	SE	

**Landowner of Record** NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			N	N	S	SE	N	N	S	SE	N	N	S	SE	N	N	S	SE	

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

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

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total:	100 %		

b. Estimate the average land slope in the field(s): \_\_\_\_\_ %

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

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

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

Other, please describe: \_\_\_\_\_

d. System design features:

i. Describe how you will control tailwater:

ii. For sprinkler systems:

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

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

Corn - Soybeans

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

We will irrigate on a as needed basis. The least we have to run the pivot the better for everyone.

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

WATER RESOURCES RECEIVED

APR 20 2016

4-13-16  
(Date)

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

Re: Application 49,623  
File No. \_\_\_\_\_

Minimum Desirable Streamflow

Dear Sir:

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

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

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

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

Brett Herrs  
Signature of Applicant

State of Kansas                     )  
  ) ss  
County of Washington             )

Brett Herrs  
(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 13 day of April, 2016.

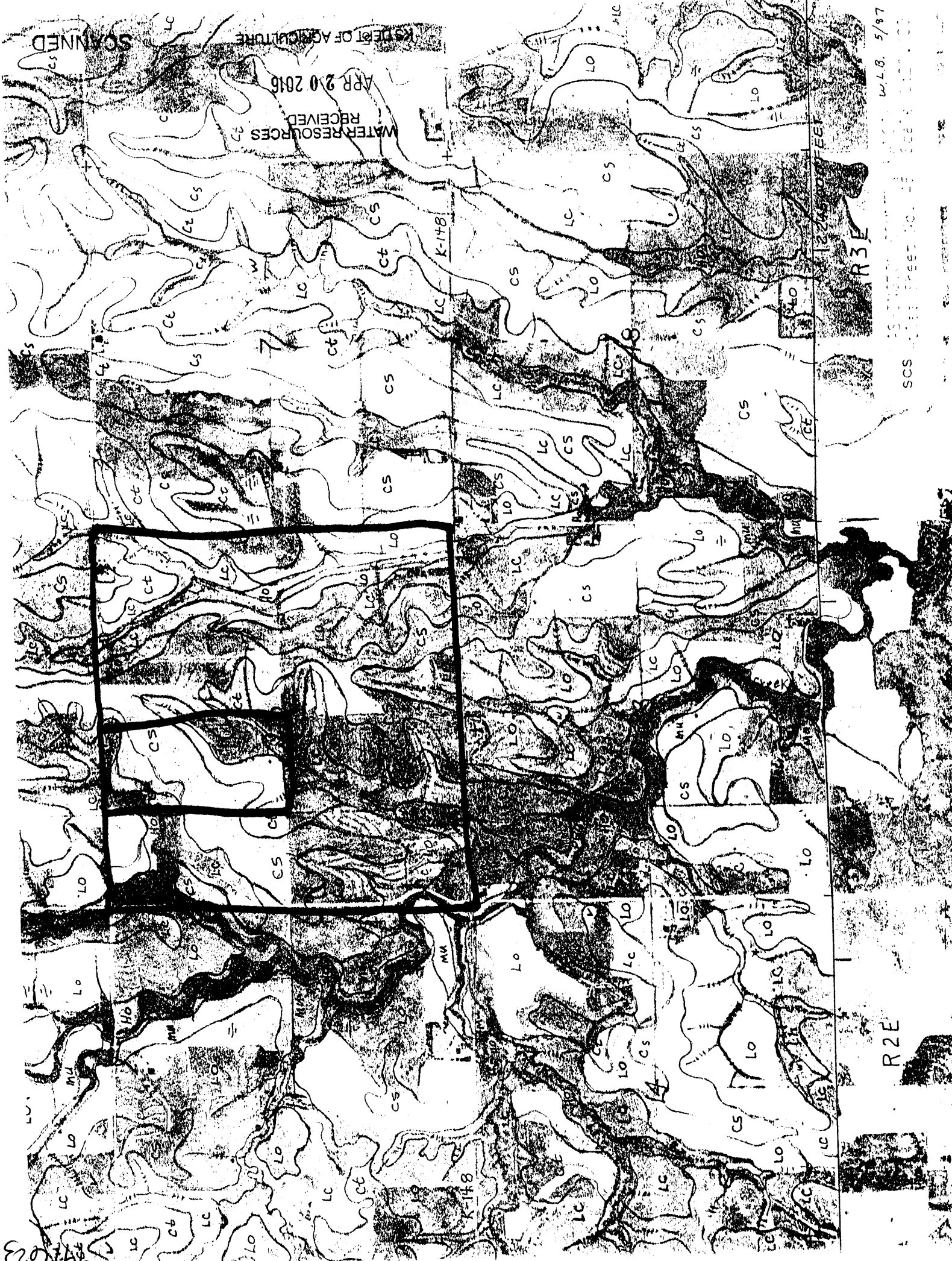
\_\_\_\_\_  
Notary Public

My Commission Expires:

WATER RESOURCES  
RECEIVED

APR 20 2016

44-1023



DEPT OF AGRICULTURE

WATER RESOURCES

RECEIVED

APR 20 2016

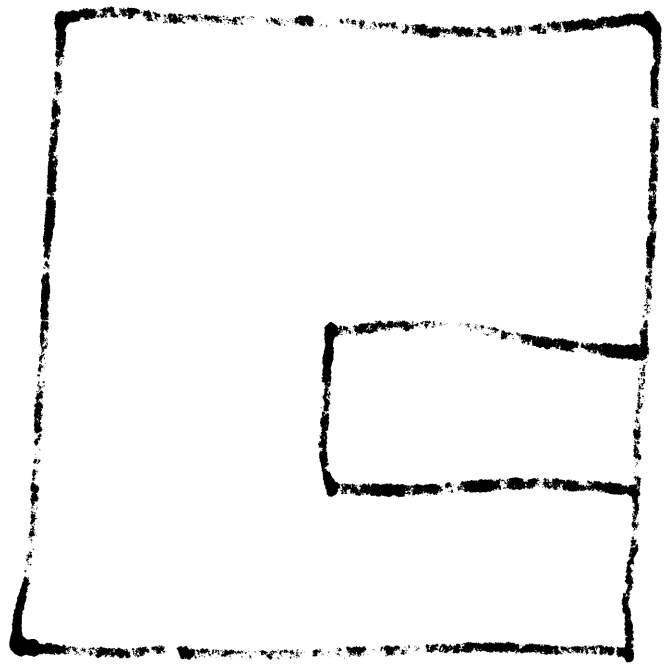
SCANNED

W.L.B. 5/87

R2E

R3E

SCS



49,623




#49,623  
 meets safe yield for  
 Confined DAKOTA  
 Aquifer.

**Analysis Results**

The selected PD is in an area to new appropriations. <sup>562.94</sup>  
 The safe yield, based on the variables listed below is ~~1,407.35~~ AF.  
 Total prior appropriation in the circle is 399.20 AF. <sup>-1436 - 96 = 159.6 AF</sup>  
 Total quantity of water available for appropriation is ~~1,008.15~~ AF.  
<sup>403.34 AF</sup>

**Safe Yield Variables**

The area used for the analysis is set at 8,042 acres.  
 Potential annual recharge of the area is estimated to be 2.8 inches.  $\times 0.3 = 0.84$   
 The percent of recharge available for appropriation is ~~75%~~.  
<sup>100</sup>

Authorized Quantity values are as of 21-MAR-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 4 water right(s) and 5 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 29215 00	IRR	NK	G		SE	NW	SW	1378	4060	36	03	02E	2	WR	121.00	121.00	133.00	133.00
A 48747 00	IRR	KE	G		SE	NW	SW	1378	4060	36	03	02E	2	WR	159.60	38.60	133.00	0.00
A 49138 00	IRR	GY	G		NW	SW	NE	3955	2000	11	04	02E	6	WR	280.20	143.60	265.50	0.00
Same	IRR	GY	G		SW	NW	NE	4245	2000	11	04	02E	7	WR				
Same	IRR	GY	G		NW	SW	NE	3665	2000	11	04	02E	8	WR				
A 49623 00	IRR	AY	G		SW	NE	NW	4023	3811	12	04	02E	1	WR	96.00	96.00	80.00	80.00

To be  
 dismissed  
 for failure  
 to complete

Safe Yield Report Sheet  
Proposed Water Right Application  
Point of Diversion in SWSESESW 01-04S-02E  
FILE NO. 49,623 (5,142'N & 3,319'W)



---

---

CONFINED DAKOTA AQUIFER SYSTEM SAFE YIELD EVALUATION

FILE NUMBER: 49,623

Safe Yield Calculation

Thickness of Saturated Aquifer (in feet)	divided by	Thickness of Confining Unit (in feet)	=	A Factor
75		100	=	0.75

**If Factor < 1**

If Factor is between 1 and 2

If Factor > 2

Normal Recharge (per 5-3-11) = 2.8 inches

Area of consideration = 8042 acres

Annual Recharge = 0.84 inches

Percent Recharge = 1 100%

Confined Dakota Aquifer Safe Yield =

**Multiply Normal Recharge by 0.3 to get Confined Aquifer Recharge (in inches)**

Multiply Normal Recharge by 0.4 to get Confined Aquifer Recharge (in inches)

Multiply Normal Recharge by 0.5 to get Confined Aquifer Recharge (in inches)

2.8 inches x 0.3 = 0.84 inches of recharge

**562.94 acre-feet**

This would provide more recharge to a well that has a thinner confining unit and greater saturated thickness (i.e. a higher factor score).

Further review indicates that saturated thickness of the aquifer and thickness of confining unit are the 2 key variables that would most likely influence well production and recharge, respectively. Therefore, a weighted system was designed to account for this by dividing the saturated thickness by the thickness of the confining unit. The less confining unit you have the higher the recharge potential and the greater the saturated thickness the better production you will get from the well. This ratio provides a factor which can be used to evaluate the percentage of safe yield to consider as reasonable. Saturated thickness is pertinent to safe yield since per definition it is "long-term sustainable yield of the source".

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

5142 ft N and 3319 ft W of the SE Corner of Section 12, T 4S, R 2E

Located at: 97.154727 West Longitude and 39.725908 North Latitude

GROUNDWATER ONLY

```

=====
File Number   Use ST SR Dist (ft) Q4 Q3 Q2 Q1 FeetN FeetW Sec Twp Rng ID Batt Auth_Quan Add_Quan Unit
A__ 29215 00 IRR NK G      6897 -- SE NW SW 1378 4060 36 3 2E 2      121.00 121.00 AF
A__ 48747 00 IRR KE G      6897 -- SE NW SW 1378 4060 36 3 2E 2      159.60 38.60 AF
A__ 49138 00 IRR GY G      4230 -- NW SW NE 3955 2000 11 4 2E 6 G 2      280.20 143.60 AF
Same          4151 -- SW NW NE 4245 2000 11 4 2E 7 B 2
Same          4327 -- NW SW NE 3665 2000 11 4 2E 8 B 2
A__ 49623 00 IRR AY G      1222 -- SW NE NW 4023 3811 12 4 2E 1      96.00 96.00 AF
=====
    
```

*- To be dismissed*

```

=====
Total Net Quantities Authorized:   Direct      Storage
Total Requested Amount (AF) =      96.00      .00
Total Permitted Amount (AF) =     182.20      .00
Total Inspected Amount (AF) =         .00      .00
Total Pro_Cert Amount (AF) =         .00      .00
Total Certified Amount (AF) =     121.00      .00
Total Vested Amount (AF) =          .00      .00
TOTAL AMOUNT (AF) =      399.20      .00
=====
    
```

An \* after the source of supply indicates a pending application for change for the file number.  
 An \* after the ID indicates a 15 AF exemption was granted for the file number.  
 A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery.  
 The number in the Batt column is the number of wells in the battery.

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

97.154727 West Longitude and 39.725908 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

```

=====
File Number   Use ST SR
A__ 29215 00 IRR NK G
> CHAD A WURTZ
>
> 1330 KING RD
> WASHINGTON KS 66968
>-----
A__ 48747 00 IRR KE G
> CHAD A WURTZ
>
> 1330 KING RD
> WASHINGTON KS 66968
>-----
A__ 49138 00 IRR GY G
> RALPH ROGGE
>
> 1164 11TH RD
> LINN KS 66953
>-----
A__ 49623 00 IRR AY G
> BRETT HERRS
    
```

>

> 122 N PENNSYLVANIA ST

> PALMER KS 66962

>-----

=====

20 21 22 23 24 25 26 27 28 29

# 49,138

Overall majority  
confined Delta

29 28 27 26 25 24 23 22 21 20

PEEL CR

32 33 34 35 36 01 02 03 04 05

confined

29215 487  
29215

D-2 WL-164

Unconfined  
SS-1175-230

WL-152  
P-1 SS-150-215  
unconfined

D-3  
WL-140

148-165  
Shallow sand

Top of  
97-99  
D-4  
11940

confined  
11940

49138  
11940  
49087  
11940

Shallow sand 34-35'  
WL-100-70  
WL-75  
confined

Washington  
K148

30296

30296

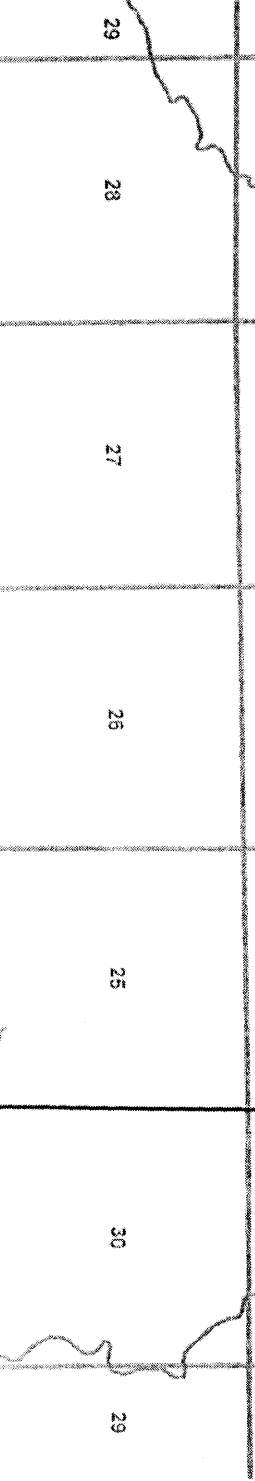
Unconfined  
D-5  
WL-40  
SS-111

30296  
SS-98-103  
WL-95  
D-1  
Semi

unconfined  
D-6  
D-6  
is unconfined

confined  
D-8  
WL-60  
SS-88-100

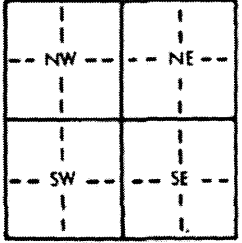
29 28 27 26 25 24 23 22 21 20



D 1 unoriginal

1 LOCATION OF WATER WELL: Fraction  $\frac{1}{4}$  SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  Section Number 1 Township Number T 4 S Range Number R 2 EW  
 County: Washington  
 Distance and direction from nearest town or city street address of well if located within city?  
 4 1/2 East of Mahaska

2 WATER WELL OWNER: Frank Gaydusek Board of Agriculture, Division of Water Resources  
 RR#, St. Address, Box #: RR 1 Application Number:  
 City, State, ZIP Code: Mahaska Ks 66955

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:  
  
 4 DEPTH OF COMPLETED WELL: 260 ft. ELEVATION:  
 Depth(s) Groundwater Encountered 1: 152 ft. 2: ft. 3: ft.  
 WELL'S STATIC WATER LEVEL: 152 ft. below land surface measured on mo/day/yr  
 Pump test data: Well water was ft. after hours pumping gpm  
 Est. Yield: 20 gpm; Well water was ft. after hours pumping gpm  
 Bore Hole Diameter: 10 in. to 260 ft. and in. to ft.  
 WELL WATER TO BE USED AS:  
 1 Domestic (circled) 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)  
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well  
 Was a chemical/bacteriological sample submitted to Department? Yes No X; If yes, mo/day/yr sample was submitted Water Well Disinfected? Yes X No

5 TYPE OF BLANK CASING USED:  
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued X Clamped  
 2 PVC (circled) 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded  
 7 Fiberglass Threaded  
 Blank casing diameter: 5 in. to 220 ft. Dia. in. to ft. Dia. in. to ft.  
 Casing height above land surface: 18 in. weight: Class 200 lbs./ft. Wall thickness or gauge No.  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement  
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify)  
 12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE:  
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut (circled) 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 220 ft. to 260 ft. From ft. to ft.  
 GRAVEL PACK INTERVALS: From 110 ft. to 260 ft. From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement (circled) 2 Cement grout 3 Bentonite 4 Other: Drill Cuttings 25'-110'  
 Grout intervals: From ft. to ft. From ft. to ft. From ft. to ft.  
 What is the nearest source of possible contamination:  
 1 Septic tank (circled) 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? East How many feet? 300'

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	10	Topsoil			
10	15	Brown clay			
15	20	White clay			
20	35	Yellow oker			
35	130	Shale			
130	150	Shale & Limestone layers			
150	215	Sandstone, not good			
215	230	Shale			
230	260	Good, coarse sandstone			

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) 12/14/92 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 480 This Water Well Record was completed on (mo/day/yr) 12-15-92 under the business name of Williams Drilling Co. Inc. by (signature) Ros Williams

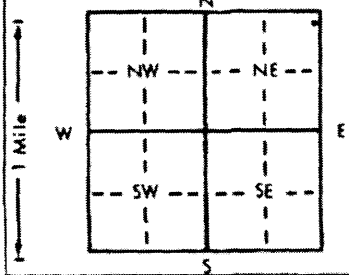
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0001. Telephone: 913-296-5545. Send one to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

OFFICE USE ONLY  
T  
R  
SEC

1 LOCATION OF WATER WELL: County: <b>WASHINGTON</b>	Fraction <b>NE 1/4 NE 1/4 NE 1/4</b>	Section Number <b>2</b>	Township Number <b>T 4 S</b>	Range Number <b>R 2 EW</b>
--	---	----------------------------	---------------------------------	-------------------------------

Distance and direction from nearest town or city street address of well if located within city?  
*From 136 + 15 Junction 1/4 East 5 South on west side of road*

2 WATER WELL OWNER: **DARREL PORTENIER**  
 RR#, St. Address, Box #: **\$\$ RR 1**  
 City, State, ZIP Code: **LINN, KS 66953**  
 Board of Agriculture, Division of Water Resources  
 Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: 	4 DEPTH OF COMPLETED WELL: <b>230</b> ft. ELEVATION: Depth(s) Groundwater Encountered 1 <b>164</b> ft. 2 ..... ft. 3 ..... ft. WELL'S STATIC WATER LEVEL <b>164</b> ft. below land surface measured on mo/day/yr Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm Est. Yield <b>20</b> gpm; Well water was ..... ft. after ..... hours pumping ..... gpm Bore Hole Diameter <b>10</b> in. to <b>230</b> ft., and ..... in. to ..... ft. WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well Was a chemical/bacteriological sample submitted to Department? Yes.....No. <b>X</b> .....; If yes, mo/day/yr sample was submitted Water Well Disinfected? Yes <b>X</b> No
--	--

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 **180** ft., Dia ..... in. to ..... ft., Dia ..... in. to ..... ft.  
 Casing height above land surface **12** in., weight **plus 200** lbs./ft. Wall thickness or gauge No. ....  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement  
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify) .....  
 12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE:  
 1 Continuous slot 5 Gauzed wrapped 8 **Saw cut** 11 None (open hole)  
 2 Louvered shutter 3 Mill slot 6 Wire wrapped 9 Drilled holes  
 4 Key punched 7 Torch cut 10 Other (specify) .....  
 SCREEN-PERFORATED INTERVALS: From **180** ft. to **230** ft., From ..... ft. to ..... ft.  
 From ..... ft. to ..... ft., From ..... ft. to ..... ft.  
 GRAVEL PACK INTERVALS: From **110** ft. to **230** 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 **6** ft. to **30** 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? **South** How many feet? **100'**

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	5	Top soil			
5	15	Brown clay			
15	20	Reworked formation			
20	30	Brown, white clay			
30	75	Tkan, Red clay			
75	85	Rusty, fine sand			
85	145	Red, Tan clay			
145	215	Sandstone & shale layers, Hard			
215	230	Sandstone, coarse, GOOD			

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) **11/25/92** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **480** This Water Well Record was completed on (mo/day/yr) **12-15-92** under the business name of **Williams Drilling co. Inc.** by (signature) *Ron Williams*

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

OFFICE USE ONLY



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

WATER WELL RECORD  
KSA 82a-1201-1215

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

1. Location of well: County: <b>WASHINGTON</b> Fraction: <b>SW 1/4 SE 1/4 SW 1/4</b> Section number: <b>3</b> Township number: <b>4</b> Range number: <b>2</b>		2. Distance and direction from nearest town or city: <b>3 N-6 W</b> Street address of well location if in city: <b>LINN</b> City, state, zip code: <b>LINN, KANSAS 66953</b>	
3. Owner of well: <b>NEIL BISHOP</b> R.R. or street: <b>ROUTE #2</b> City, state, zip code: <b>LINN, KANSAS 66953</b>		4. Locate with "X" in section below: 	
6. Bore hole dia. <b>8</b> in. Completion date <b>9-6-77</b> Well depth <b>200</b> ft.		7. Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Reverse rotary <input type="checkbox"/>	
8. Use: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock <input type="checkbox"/> Other <input type="checkbox"/> Lawn <input type="checkbox"/> Oil field water <input type="checkbox"/>		9. Casing: Material <b>PVC</b> Height <b>12</b> ft. Above or below <input checked="" type="checkbox"/> Below <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Surface <input type="checkbox"/> RMP <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Weight <b>3</b> lbs./ft. Dia. <b>5</b> in. Rig depth <b>12</b> ft. Wall thickness: inches or <b>12</b> gauge No. <b>1258</b>	
10. Screen: Manufacturer's name <b>PUMPEL</b> Type <b>PVC</b> Dia. <b>5</b> Slot/gauge <b>1/16</b> Length <b>20</b> ft. Set between <b>180</b> ft. and <b>200</b> ft. Gravel pack? <b>YES</b> Size range of material <b>1/4" X 1/2"</b>		11. Static water level: <b>13 18</b> ft. below land surface Date <b>9-6-77</b> Pumping level below land surface: <b>18 44</b> ft. other <b>NA</b> g.p.m. <b>NA</b> ft. other <b>NA</b> g.p.m. <b>NA</b> Estimated maximum yield <b>50</b> g.p.m. <b>50</b> 13. Water sample submitted: <b>YES</b> 135 135	
14. Well head completion: <b>135 148</b> Pitless adapter <b>12</b> inches above grade <b>148 163</b>		15. Well grouted? <b>YES</b> With: <input checked="" type="checkbox"/> Near cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Concrete <b>163 164</b> Depth from <b>3</b> ft. to <b>12</b> ft. 16. Nearest source of possible contamination: <b>SAND ROCK</b> Direction <b>WEST</b> Type <b>LOT 2</b> Wall deflected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>300</b>	
17. Pump: <input checked="" type="checkbox"/> Not installed <input type="checkbox"/> Manufacturer's name _____ HP _____ Volts _____ Length of drop pipe _____ ft. capacity _____ g.p.m. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Turbine <input type="checkbox"/> Reciprocating <input type="checkbox"/> Jet <input type="checkbox"/> Centrifugal <input type="checkbox"/> Other _____		19. Remarks: _____	
20. Water well contractor's certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. License No. <b>KEO Cox &amp; Sons Inc 558</b> Business name <b>KEO COX &amp; SONS INC</b> Address <b>611 E. 10th, Topeka, KS 66607</b> Signed <b>KEO COX</b> Authorized representative Date <b>9-6-77</b>		18. Elevation: <b>1453</b> Topography: <input checked="" type="checkbox"/> Valley <input type="checkbox"/> Upland <input type="checkbox"/> Slope <input type="checkbox"/> Hill	

4-2-3 SW SESW

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

D-3

Confined  
D-4

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

1 LOCATION OF WATER WELL: County: <b>WASHINGTON</b>	Fraction <b>NE 1/4 NE 1/4 NW 1/4</b>	Section Number <b>11</b>	Township Number <b>T 4 S</b>	Range Number <b>R 2 EW</b>
--	---	-----------------------------	---------------------------------	-------------------------------

Distance and direction from nearest town or city street address of well if located within city?  
**4 1/2 West, 3 North Linn, Ks.**

2 WATER WELL OWNER: **Brad Portentier**  
 RR#, St. Address, Box #: **Rt. 1**  
 City, State, ZIP Code: **Linn, Ks. 66953**  
 Board of Agriculture, Division of Water Resources  
 Application Number:

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

4 DEPTH OF COMPLETED WELL: **115** ft. ELEVATION: \_\_\_\_\_ ft.  
 Depth(s) Groundwater Encountered 1. \_\_\_\_\_ ft. 2. \_\_\_\_\_ ft. 3. \_\_\_\_\_ ft.  
 WELL'S STATIC WATER LEVEL: **60** ft. below land surface measured on mo/day/yr **5/7/92**  
 Pump test data: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Est. Yield **20** gpm: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Bore Hole Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft. and \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well  
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)  
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well  
 Was a chemical/bacteriological sample submitted to Department? Yes \_\_\_\_\_ No **\***: If yes, mo/day/yr sample was submitted  
 Water Well Disinfected? Yes **\*** No

5 TYPE OF BLANK CASING USED:  
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued **\*** Clamped  
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded  
 7 Fiberglass Threaded  
 Blank casing diameter **5** in. to **95** ft. Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft. Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Casing height above land surface **18** in. weight **200** lbs./ft. Wall thickness or gauge No. \_\_\_\_\_  
 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 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 **95** ft. to **115** ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 GRAVEL PACK INTERVALS: From **30** ft. to **115** 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 **30** 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? **North** How many feet? **60**

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	4	Topsoil			
4	27	Brown Clay			
27	38	Red & White Clay			
38	40	Ironstone			
40	45	White Clay			
45	60	Blue Clay			
60	97	Red & White Clay			
97	99	Sandstone			
99	103	Blue Clay			
103	105	Sandstone			
105	110	Blue Clay			
110	116	Sandstone			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) **5/7/92** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **518** This Water Well Record was completed on (mo/day/yr) **5/9/92** under the business name of **BLUE VALLEY DRILLING** by (signature) *Carl Smith*

INSTRUCTIONS: Use typewriter or ball point pen PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0001. Telephone: 913-296-3545. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY  
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WATER WELL RECORD Form WWC-5 KSA 82a-1212

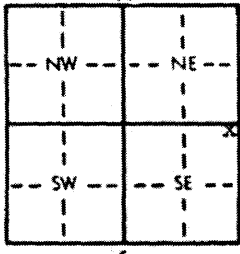
Uncollected D-6

1 LOCATION OF WATER WELL: Fraction NE 1/4 NE 1/4 SE 1/4 Section Number 14 Township Number T 4 S Range Number R 2 E  
 County: Washington

Distance and direction from nearest town or city street address of well if located within city?  
 1 North, 4 West, 1/2 North of Linn

2 WATER WELL OWNER: Harvey Herra  
 RR#, St. Address, Box #: Linn, Kansas 66953  
 City, State, ZIP Code: Board of Agriculture, Division of Water Resources  
 Application Number:

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



4 DEPTH OF COMPLETED WELL: 120 ft. ELEVATION: 1425  
 Depth(s) Groundwater Encountered: 15 ft. 2. 90 ft. 3. ft.  
 WELL'S STATIC WATER LEVEL: 20 ft. below land surface measured on mo/day/yr 9/23/1982  
 Pump test data: Well water was NA ft. after hours pumping gpm  
 Est. Yield 30 gpg: Well water was ft. after hours pumping gpm  
 Bore Hole Diameter: 8 in. to 120 ft., and in. to ft.  
 WELL WATER TO BE USED AS:  
 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  
 Was a chemical/bacteriological sample submitted to Department? Yes No ; If yes, mo/day/yr sample was submitted  
 Water Well Disinfected? Yes  No

5 TYPE OF BLANK CASING USED:  
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued  Clamped  
 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded  
 7 Fiberglass Threaded  
 Blank casing diameter: 5 in. to 100 ft., Dia. in. to ft., Dia. in. to ft.  
 Casing height above land surface: 12 in., weight 3 lbs./ft. Wall thickness or gauge No. 258  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  
 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement  
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify)  
 12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE:  
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped  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 100 ft. to 120 ft., From ft. to ft.  
 GRAVEL PACK INTERVALS: From 14 ft. to 120 ft., From ft. to ft.  
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL:  Neat cement 2 Cement grout 3 Bentonite 4 Other  
 Grout Intervals: From 4 ft. to 14 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  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? Southeast How many feet? 75

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	3	topsoil			
3	5	brown clay			
5	35	sandrock			
35	63	red clay			
63	90	blue clay			
90	120	sandrock			
120		stop			

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) 9/23/1982 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 359. This Water Well Record was completed on (mo/day/yr) 9/25/1982 by (signature) Daryl Cox & Sons Inc.  
 UNDER THE BUSINESS NAME OF Daryl Cox & Sons Inc. by (signature) Daryl Cox  
 INSTRUCTIONS: Use typewriter or ball point pen, PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Division of Environment, Environmental Geology Section, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY  
 T  
 R  
 2  
 EW  
 SEC. 14  
 NE 1/4  
 NE 1/4  
 SE 1/4

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

WATER WELL RECORD  
KSA 82a-1201-1215

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

*to Semi D-7*

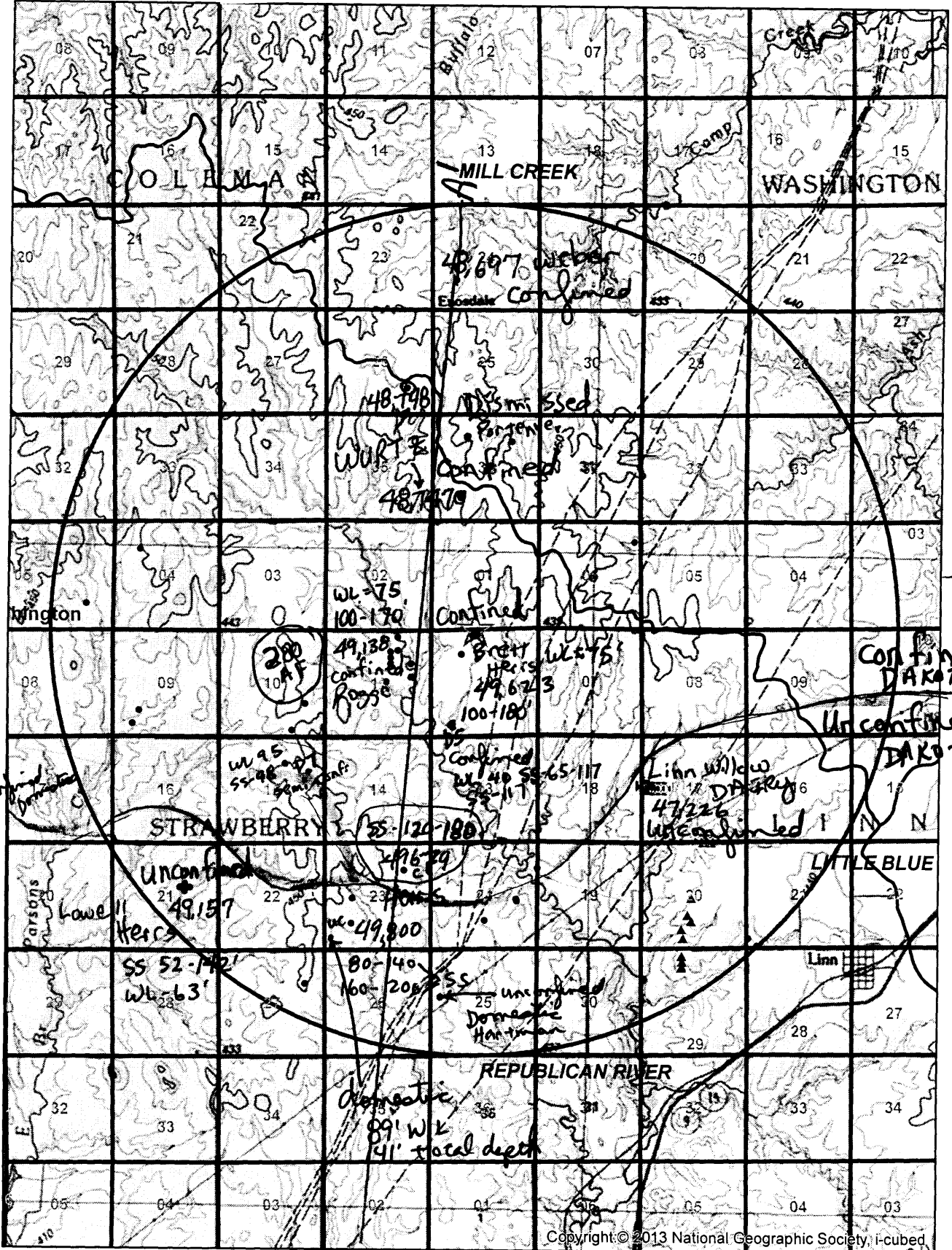
1. Location of well:		County <b>WASHINGTON</b>	Fraction <b>NE 1/4 SE 1/4 NE 1/4</b>	Section number <b>15</b>	Township number <b>T 4 S R 2 E</b>	Range number <b>2 E</b>
2. Distance and direction from nearest town or city: <b>2-N 5-W</b>			3. Owner of well: <b>DON BISPING</b>			
Street address of well location if in city: <b>1/2 S LINN</b>			R.R. or street: <b>ROUTE</b>			
			City, state, zip code: <b>LINN, KANSAS 66953</b>			
4. Locate with "X" in section below:		Sketch map:		6. Bore hole dia. <b>8</b> in. Completion date <b>12-10-78</b>		
				Well depth <b>180</b> ft.		
				7. <input checked="" type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug		
				<input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Reverse rotary		
				8. Use: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Industry		
				<input type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock		
				<input type="checkbox"/> Lawn <input type="checkbox"/> Oil field water <input type="checkbox"/> Other		
				9. Casing: Material <b>PVC</b> Height <b>Above or below</b>		
				Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Surface <b>12</b> in.		
				RMP <input type="checkbox"/> PVC <input checked="" type="checkbox"/> Weight <b>3</b> lbs./ft.		
				Dia. <b>2</b> in. to <b>180</b> ft. depth   Wall Thickness: inches or		
				Dia. <input type="checkbox"/> in. to <input type="checkbox"/> ft. depth   gage No. <b>258</b>		
5. Type and color of material		From	To	10. Screen: Manufacturer's name <b>PUMPRO</b>		
<b>TOPSOIL</b>		<b>0</b>	<b>3</b>	Type <b>PVC</b> Dia. <b>5"</b>		
<b>BROWN CLAY</b>		<b>3</b>	<b>6</b>	Slat/gauze <b>1/16</b> Length <b>20'</b>		
<b>SAND ROCK</b>		<b>6</b>	<b>18</b>	Set between <b>160</b> ft. and <b>180</b> ft.		
<b>RED CLAY</b>		<b>18</b>	<b>30</b>	ft. and <input type="checkbox"/> ft.		
<b>SAND ROCK W/ CLAY LAYERS</b>		<b>30</b>	<b>38</b>	Gravel pack? <b>YES</b> Size range of material <b>1/4 x 1/4</b>		
<b>BLUE CLAY</b>		<b>38</b>	<b>44</b>	11. Static water level: <b>95</b> ft. below land surface Date <b>12-10-78</b>		
<b>RED CLAY</b>		<b>44</b>	<b>66</b>	mo./day/yr. <b>12-10-78</b>		
<b>BLUE CLAY</b>		<b>66</b>	<b>69</b>	12. Pumping level below land surfaces:		
<b>RED CLAY</b>		<b>69</b>	<b>98</b>	<input type="checkbox"/> ft. after <b>N/A</b> pumping <input type="checkbox"/> g.p.m.		
<b>SAND ROCK</b>		<b>98</b>	<b>103</b>	<input type="checkbox"/> ft. after <b>N/A</b> hrs. pumping <input type="checkbox"/> g.p.m.		
<b>BLUE CLAY</b>		<b>103</b>	<b>111</b>	Estimated maximum yield <b>15</b> g.p.m.		
<b>RED CLAY</b>		<b>111</b>	<b>158</b>	13. Water sample submitted: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date <input type="checkbox"/>		
<b>SAND ROCK</b>		<b>158</b>	<b>180</b>	14. Well head completion: <input type="checkbox"/> Pitless adapter <b>12</b> inches above grade		
<b>STOP</b>		<b>180</b>		15. Well grouted? <b>YES</b>		
				With: <input checked="" type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Concrete		
				Depth: From <b>2</b> ft. to <b>13</b> ft.		
				16. Nearest source of possible contamination: <b>SEPTIC</b>		
				ft. <b>75</b> Direction <b>SW</b> Type <b>TANK</b>		
				Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
				17. Pump: <input checked="" type="checkbox"/> Not installed		
				Manufacturer's name <input type="checkbox"/>		
				Model number <input type="checkbox"/> HP <input type="checkbox"/> Volts <input type="checkbox"/>		
				Length of drop pipe <input type="checkbox"/> ft. capacity <input type="checkbox"/> g.p.m.		
				Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Turbine		
				<input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating		
				<input type="checkbox"/> Centrifugal <input type="checkbox"/> Other		
18. Elevations: <b>1470</b>		19. Remarks:		20. Water well contractor's certification:		
Topography: <input type="checkbox"/> Hill <input type="checkbox"/> Slope <input checked="" type="checkbox"/> Upland <input type="checkbox"/> Valley				This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		
				<b>DARYL COX &amp; SONS INC 359</b>		
				Business name <input type="checkbox"/> License No. <input type="checkbox"/>		
				Address <b>CLIFTON KANS 66927</b>		
				Signed <b>Daryl Cox</b> Date <b>12-15-78</b>		
				Authorized representative		

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

Form WWC-5

T 4 S R 2 E  
 Sec 15  
 NE SE NE  
 1/4 1/4 1/4

# DAKOTA WELLS



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sec. 18

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← Unconfined  
Hartman Domestic 49,800

→ Confined  
D-5 49,623

49,747 49,748 49,697 Weber A 1510

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1460

1410

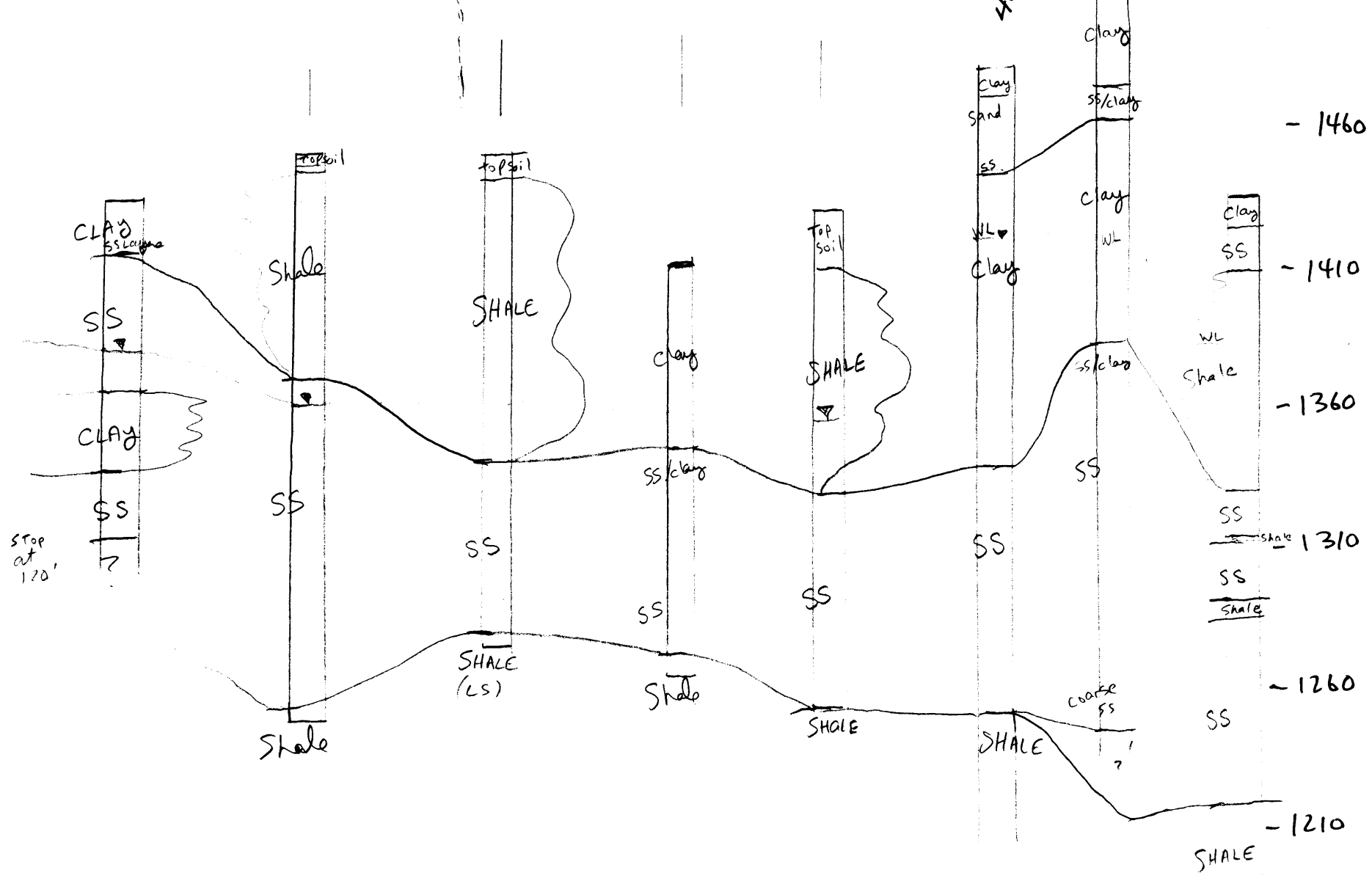
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- 1460

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A\_\_ 49023 00 IRR AY G

> JOSH & EMILY REGIER

>

> 525 PARK PL

> MOUNDRIDGE KS 67107

>-----

A\_\_ 49099 00 IRR AY G

> CIRCLE S FARM

>

> 14030 NW 96TH

> MOUNDRIDGE KS 67107

>-----

T\_\_20127202 MF IRR GY G

> GARY A REGIER ET AL

>

> 1742 ARAPAHO RD

> MOUNDRIDGE KS 67107

>-----

=====

# associated DRILLING, INC.

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

48,697  
Weber

July 1, 2013

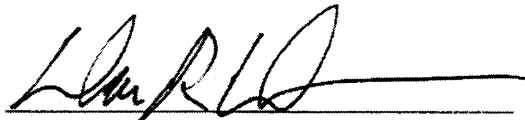
Test hole log for Scott Weber located at N 39.77460 W 97.15765 with an elevation of  
1451 feet

1435'

SW 1/4 Sec 24-3-2 E

0-12	Clay
12-30	Sandstone
30-108	Shale, red to tan to gray
108-124	Sandstone
124-128	Shale, Tan
128-148	Sandstone
148-156	Shale, Gray
156-222	Sandstone
222-260	Shale, Gray

The test hole was 6-inches in diameter drilled with 4.5 inch drill stem. The test hole appears it will yield adequate quantities of water for irrigation purposes.



Darin R. Duncan, PG  
Associated Drilling, Inc.

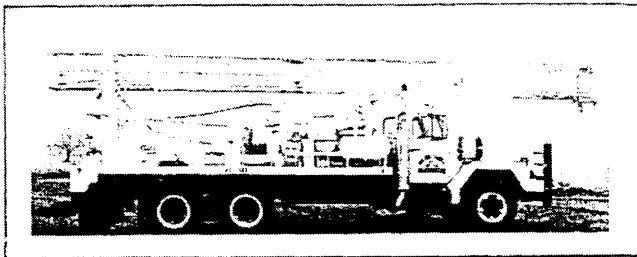
WATER RESOURCES  
RECEIVED  
JUL 15 2013  
KS DEPT OF AGRICULTURE

SCANNED



48,748

DARYL COX 913 455-3301



DARYL COX & SONS, INC.  
WELL DRILLERS

CLIFTON, KANSAS 66937

FOR Calvin Wilgers  
Washington, Kansas

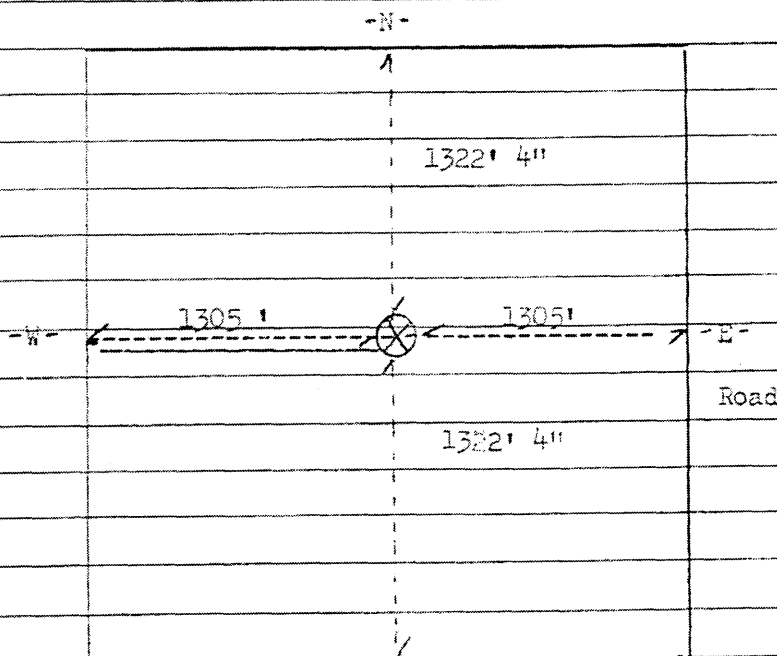
DATE January 25, 1981

1505' Elev.

Log: Drilled in center of section 26, Township 3, Range 3 East, Washington County

0-----3	topsoil
3-----32	brown clay
32-----48	sandrock / clay layers
48-----66	brown clay
66-----78	red clay
78-----128	gray clay
128----187	sandrock w/ clay layers
187----188	hard rock
188----204	sandrock w/ clay layers
204----206	blue clay
206----219	sandrock w/ clay layers
219----260	sandrock coarse
260-----	caved and stop

Measurements of Field:



SCANNED

WATER RESOURCES  
RECEIVED

AUG 08 2013

KS DEPT OF AGRICULTURE

-S-

48,747

**Sargent Drilling**  
INDUSTRIAL ENGINEERING  
COMPLETE MUNICIPAL AND INDUSTRIAL  
WELL AND PUMP SERVICE

PO Box 367  
Geneva, NE 68361-0367

846 South 13<sup>th</sup> St.

Phone: (402) 759-3902  
1-888-496-3902

**TEST HOLE LOG**

1480'

CUSTOMER: Calvin Wilgers	
WELL ID:	
LOCATION: SW ¼, 36-T3S-R2E, Washington Co., NE	
LATITUDE: 39° 44' 41.1"	
LONGITUDE: 097° 09' 25.7"	
FOOTAGES:	
DATE: 10-31-08	DRILLED BY: CL

SWL: ≈ 60'  
PWL:

<u>from feet</u>	<u>- to feet</u>	
0	10	Tan clay and hard spots
10	20	Fine, medium and coarse orange sand
20	33	Fine and medium yellow sand
33	37	Very hard rock
37	40	Clay
40	95	Red and white sticky clay
95	105	Blue clay
105	120	Red and gray clay
120	136	White and tan clay
136	140	Blue clay and sand streaks
140	160	Sandstone and blue clay streaks
160	220	Fine sandstone
220	228	Fine and medium sandstone
228	240	Blue shale. Hard

**RECEIVED**  
MAR 30 2009  
**BUREAU OF WATER**

dh

SCANNED

48,747

1480'

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

WATER WELL RECORD  
KSA 82a-1201-1215

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

1. Location of well:		County <b>WASHINGTON</b>	Fraction <b>C 1/4 1/4 SW 1/4</b>	Section number <b>36</b>	Township number <b>T 3 S R 2 E</b>	Range number <b>2 E</b>	
2. Distance and direction from nearest town or city: <b>6 SOUTH</b>			3. Owner of well: <b>LALVIN WILGERS</b>				
Street address of well location if in city: <b>1/2 E MERRILLVILLE</b>			R.R. or street: <b>ROUTE 1</b>				
			City, state, zip code: <b>WASHINGTON KANS</b>				
4. Locate with "X" in section below:			Sketch map:			6. Bore hole dia. <b>22</b> in. Completion date _____	
						Well depth <b>230</b> ft. <b>6-1-77</b>	
						7. <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Reverse rotary	
						8. Use: <input type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Industry <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock <input type="checkbox"/> Lawn <input type="checkbox"/> Oil field water <input type="checkbox"/> Other	
						9. Casing: Material <b>AC</b> Height <b>Above</b> or below Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Surface <b>12</b> in. RMP <input type="checkbox"/> PVC <input type="checkbox"/> Weight <b>30</b> lbs./ft. Dia <b>12</b> in. to <b>230</b> ft. depth Wall Thickness: inches or Dia. <input type="checkbox"/> in. to <input type="checkbox"/> ft. depth gage No. <b>34</b>	
5. Type and color of material			From	To	10. Screen: Manufacturer's name <b>S. JOHNSON CONCRETE</b>		
<b>TOPSOIL</b>			<b>0</b>	<b>2</b>	Type <b>ASBESTOS</b> Dia. <b>12</b>		
<b>BROWN CLAY</b>			<b>2</b>	<b>13</b>	Set/gauze <b>1/5</b> Length <b>52</b>		
<b>SANDY CLAY</b>			<b>13</b>	<b>18</b>	Set between <b>178</b> ft. and <b>230</b> ft.		
<b>SAND</b>			<b>18</b>	<b>23</b>	Gravel pack? <b>YES</b> Size range of material <b>4 X 1/2</b>		
<b>SANDROCK</b>			<b>23</b>	<b>34</b>	11. Static water level: _____ mo./day/yr.		
<b>HARD ROCK</b>			<b>34</b>	<b>37</b>	<b>61</b> ft. below land surface Date <b>6-1-77</b>		
<b>BROWN CLAY</b>			<b>37</b>	<b>98</b>	12. Pumping level below land surfaces:		
<b>GRAY CLAY</b>			<b>98</b>	<b>134</b>	<b>220</b> ft. after <b>1</b> hrs. pumping <b>500</b> g.p.m.		
<b>SANDROCK</b>			<b>134</b>	<b>156</b>	____ ft. after _____ hrs. pumping _____ g.p.m.		
<b>RED CLAY</b>			<b>156</b>	<b>160</b>	Estimated maximum yield <b>500</b> g.p.m.		
<b>SANDROCK</b>			<b>160</b>	<b>174</b>	13. Water sample submitted: _____ mo./day/yr.		
<b>RED CLAY</b>			<b>174</b>	<b>175</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date _____		
<b>SANDROCK</b>			<b>175</b>	<b>230</b>	14. Well head completion:		
<b>STOP</b>			<b>230</b>		<input type="checkbox"/> Pitless adapter <b>12</b> Inches above grade		
					15. Well grouted? <b>YES</b>		
					With: <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Concrete		
					Depth: From <b>0</b> ft. to <b>10</b> ft.		
					16. Nearest source of possible contamination:		
					ft. <b>1500</b> Direction <b>S W</b> Type <b>LTS</b>		
					Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
					17. Pump: _____ Not installed		
					Manufacturer's name <b>WESTERN LAND PULLER</b>		
					Model number <b>11-100-HS-HP 80</b> Volts _____		
					Length of drop pipe <b>215</b> ft. capacity <b>500</b> g.p.m.		
					Type:		
					<input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Turbine		
					<input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating		
					<input type="checkbox"/> Centrifugal <input type="checkbox"/> Other		
					20. Water well contractor's certification:		
18. Elevation: <b>83</b>			19. Remarks:			This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.	
Topography: <input type="checkbox"/> Hill <input type="checkbox"/> Slope <input checked="" type="checkbox"/> Upland <input type="checkbox"/> Valley						<b>GEO COX &amp; SONS INC 358</b>	
						Business name _____ License No. _____	
						Address <b>CLIFTON, KANS 66937</b>	
						Signed <b>Harold Cox</b> Date <b>6-1-77</b>	
						Authorized representative _____	

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

RECEIVED Form WWC-5

Original well - plugged

AUG 08 2013

MI-1023 SCANNED  
KS DEPT OF AGRICULTURE

3  
20  
36  
CSW

\* Per test hole GPS, well is located 5,142' N & 3,319' W. DWS/DWR confirmed well location with applicant on 3/21/17.

41,023  
3/21/17  
1430' elev

## Sargent Drilling

Geneva, NE  
**TEST HOLE LOG**

CUSTOMER: <u>Brett Hens TH 17-074</u>	DATE: <u>3-15-17</u>	
LOCATION: <u>Linn KS</u>	SWL	
DRILLED BY: <u>Scott</u>	PWL	GPM
* GPS: N <u>39° 43' 33.0"</u> W <u>097° 09' 19.7"</u>		
ELEVATION: <u>1409'</u>		

(Include: Type, Hardness & Color)

0	20	Sands & Top Soil 5' Shale Brown, White Red	15'
20	40	Shale Red, White, Gray	
40	60	Shale Gray, White, Red	
60	80	Shale Red, White, Gray	
80	100	Shale Gray in Sandstone Stripped Layers 13' Sandstone 7'	
100	120	Sandstone	
120	140	Sandstone	
140	160	Fine & Medium Sandstone	
160	180	Medium Sandstone 5' Shale White, Gray, Black	
180	200		
200	220		
220	240		

RECEIVED

MAR 15 2017

Troyka Field Office

DIVISION OF WATER RESOURCES

ID type

OD Slot Size

disc qty

volume type

volume type

and from to disc  
and from to volume  
and from to volume

49,138

Similar log to  
file # 49,623

# associated DRILLING, INC.

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

July 21, 2014, 2014

Test hole log for Ralph Rogge.


The location of the test hole is N 39.722974 W 97.170524 with an elevation of ~~1447~~ feet.

1410'

0-34	Clay, red to red brown
34-35	Sand, fine to medium ~ 5 gpm
35-100	Shale, gray, red and tan
100-170	Sandstone, H2O, > 100 gpm
170-216	Shale, gray
216	Total depth

Static Water Level: 75 feet below ground surface.

There appears to be approximately 70 feet of water bearing sandstone present. It may require a battery of wells to supply enough water to a center pivot irrigation system.

  
 Darin R. Duncan, PG  
 Associated Drilling, Inc.

RECEIVED  
 JUL 25 2014  
 TOPEKA FIELD OFFICE  
 DIVISION OF WATER RESOURCES

WATER RESOURCES  
 RECEIVED  
 AUG 20 2014  
 SCANNED

1410' confined D-5

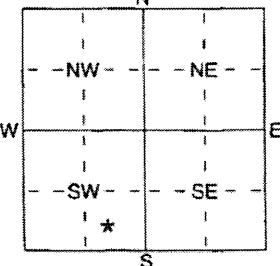
1 LOCATION OF WATER WELL: Fraction Section Number Township Number Range Number  
 County: **Washington** SW ¼ SE ¼ SW ¼ 12 T 4 S R 2 (E/W)

Distance and direction from nearest town or city street address of well if located within city?

**2 North & 4 West of Linn**

2 WATER WELL OWNER: **Terry Kearn**  
 RR#, St. Address, Box # : **225 E 3** Board of Agriculture, Division of Water Resources  
 City, State, ZIP Code : **Washington, KS 66968** Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: DEPTH OF COMPLETED WELL **140** ft. ELEVATION: \_\_\_\_\_ ft.  
 Depth(s) Groundwater Encountered \_\_\_\_\_ ft. 2 \_\_\_\_\_ ft. 3 \_\_\_\_\_ ft.  
 WELL'S STATIC WATER LEVEL **40'** ft. below land surface measured on mo/day/yr **4/21/05**  
 Pump test data: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Est. Yield **100** gpm: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well  
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)  
 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well \_\_\_\_\_  
 Was a chemical/bacteriological sample submitted to Department? Yes \_\_\_\_\_ No **\***; If yes, mo/day/yr sample was submitted  
 Water Well Disinfected? Yes **\*** No



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 **5** in. to **120** ft. Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft. Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Casing height above land surface **1.8** in., weight **200** lbs./ft. Wall thickness or gauge No. **2.65**  
 TYPE OF SCREEN OR PERFORATION MATERIAL: 7 **PVC** 10 Asbestos-Cement  
 1 Steel 3 Stainless Steel 8 RMP (SR) 11 Other (Specify) \_\_\_\_\_  
 2 Brass 4 Galvanized Steel 9 ABS 12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped **8 Saw cut** 11 None (open hole)  
 1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes  
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) \_\_\_\_\_ ft.  
 SCREEN-PERFORATED INTERVALS: From **120** ft. to **140** ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 GRAVEL PACK INTERVALS: From **30** ft. to **140** ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout **3 Bentonite** 4 Other \_\_\_\_\_  
 Grout Intervals: From **5'** ft. to **30** ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 What is the nearest source of possible contamination: 10 Livestock pens **14 Abandoned water well**  
 1 Septic tank 4 Lateral lines 7 Pit privy 11 Fuel storage 15 Oil well/Gas well  
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 16 Other (specify below)  
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 13 Insecticide storage \_\_\_\_\_  
 Direction from well? **SE** How many feet? **60**

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	13	Brown Clay			
13	17	Light Brown Clay			
17	51	Orange Silty Clay			
51	65	Ironstone & Clay			
65	117	Sandstone & Clay			
117	138	Sandstone			
138	142	Gray Shale			

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) **4/21/05** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No **518** This Water Well Record was completed on (mo/day/yr) **5/10/05** under the business name of **Blue Valley Drilling** 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.

# 49,679 Herrs

~~1450~~

1450

~~1450~~ Matt

# Sargent Drilling

Geneva, NE

402-759-3902

## TEST HOLE LOG

CUSTOMER: Kent Herrs	TH #2 17-068	DATE: 3-15-17
LOCATION: Lynn KS		SWL
DRILLED BY: Scott		PWL GPM
GPS: N 39° 41' 48.5" W 097° 10' 21.1"		
ELEVATION: 1441'	39.696806	97.16725

S, 120'N + 1380'W

(Include: Type, Hardness & Color)

0	20	Top Soil Brown & Orange Clay 9' Shale & Argite 11'
20	40	Shale Tan Red, white
40	60	Shale Red white, Brown, Gray
60	80	Shale Red, white Gray
80	100	Shale Gray
100	120	Shale Gray 8' Sandstone 12'
120	140	Sandstone
140	160	Medium Sandstone 16' Shale 17' White Sandstone 2'
160	180	MC Sandstone Shale Strip 7' Sandstone 14' Gray Shale 1' Limestone 1'
180	200	
200	220	
220	240	
240	260	
260	280	
280	300	
300	320	
320	340	

\_\_\_\_\_ of \_\_\_\_\_ of \_\_\_\_\_  
 \_\_\_\_\_ of \_\_\_\_\_ of \_\_\_\_\_  
 \_\_\_\_\_ and from \_\_\_\_\_ to \_\_\_\_\_  
 \_\_\_\_\_ and from \_\_\_\_\_ to \_\_\_\_\_

# Sargent Drilling

Geneva, NE

## TEST HOLE LOG

RECEIVED

47,000

APR 3 2017

1450

Ipswich Field Office  
DIVISION OF WATER RESOURCES

CUSTOMER: <i>Dean Hunt TH #2 17-067</i>	DATE: <i>2-7-17</i>
LOCATION: <i>Luna KS</i>	SWL <i>Estimated 89 feet</i>
DRILLED BY: <i>S. J. J.</i>	PWL
GPS: N <i>39° 41' 03.6"</i> W <i>107° 10' 52.0"</i>	GPM
ELEVATION: <i>1476</i> <b>39.684333</b> <b>97.181111</b>	<b>Sec. 23 - 4S - 2E</b>

(Include: Type, Hardness & Color)

0	20	<i>Top 5' of blue clay shale with white &amp; red sandstone layers</i>
20	40	<i>Shale Red White Blue Green</i>
40	60	<i>Shale white brown blue</i>
60	80	<i>Shale blue &amp; white red brown gray</i>
80	100	<i>Sandstone w blue shale layers</i>
100	120	<i>Sandstone</i>
120	140	<i>Sandstone 3' shale brown white red brown</i>
140	160	<i>Brown &amp; blue shale 9' Sandstone 11'</i>
160	180	<i>Sandstone <del>11'</del></i>
180	200	<i>Sandstone 16' Purple &amp; shale 4'</i>
200	220	<i>Shale gray blue blue 10'</i>
220	240	
240	260	
260	280	
280	300	
300	320	
320	340	
340	360	
360	380	
380	400	

Well Depth: \_\_\_\_\_' Plain casing: \_\_\_\_\_' of \_\_\_\_\_" OD & \_\_\_\_\_" ID type \_\_\_\_\_

Bore Hole Dia: \_\_\_\_\_" Perf casing: \_\_\_\_\_' of \_\_\_\_\_" x \_\_\_\_\_ OD Slot Size \_\_\_\_\_

Gravel pack from \_\_\_\_\_' to \_\_\_\_\_' and from \_\_\_\_\_' to \_\_\_\_\_' desc \_\_\_\_\_ qty \_\_\_\_\_

Grouted/sealed from \_\_\_\_\_' to \_\_\_\_\_' and from \_\_\_\_\_' to \_\_\_\_\_' volume \_\_\_\_\_ type \_\_\_\_\_

from \_\_\_\_\_' to \_\_\_\_\_' and from \_\_\_\_\_' to \_\_\_\_\_' volume \_\_\_\_\_ type \_\_\_\_\_



Hartman Dom

LOCATION OF WATER WELL  
 County: WASHINGTON Fraction SW 1/4 SW 1/4 NW 1/4 Section Number 35 Township Number T 4 S Range Number R 2 EW  
 Distance and direction from nearest town or city? 3 N PALMER Street address of well if located within city?  
 WATER WELL OWNER: WALTER A. HARTMAN  
 R#, St. Address, Box #: CLAY CENTER KANSAS 67432 Board of Agriculture, Division of Water Resources  
 City, State, ZIP Code: CLAY CENTER KANSAS 67432 Application Number:

DEPTH OF COMPLETED WELL: 120 ft. Bore Hole Diameter: 8 in. to \_\_\_\_\_ ft., and \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Well Water to be used as:  
 Domestic 3 Feedlot 5 Public water supply 6 Oil field water supply 7 Lawn and garden only 8 Air conditioning 9 Dewatering 10 Observation well 11 Injection well 12 Other (Specify below)  
 Well's static water level: 52 ft. below land surface measured on \_\_\_\_\_ month \_\_\_\_\_ day \_\_\_\_\_ year  
 Pump Test Data: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 St. Yield: 600 gpm: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm

TYPE OF BLANK CASING USED:  
 1 Steel 2 RMP (SR) 3 Wrought iron 4 Concrete tile 5 Other (specify below) Casing Joints:  Glued  Clamped  
 PVC 4 ABS 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below) Welded \_\_\_\_\_  
 Blank casing dia: 5 in. to \_\_\_\_\_ ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Casing height above land surface: 12 in., weight \_\_\_\_\_ lbs./ft. Wall thickness or gauge No. 258

TYPE OF SCREEN OR PERFORATION MATERIAL:  
 1 Steel 2 Stainless steel 3 Fiberglass 4 RMP (SR) 5 Other (specify) \_\_\_\_\_  
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)  
 Screen or Perforation Openings Are:  
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 6 Wire wrapped 9 Drilled holes 11 None (open hole)  
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) \_\_\_\_\_  
 Screen-Perforation Dia: 5 in. to \_\_\_\_\_ ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Screen-Perforated Intervals: From 100 ft. to 120 ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Travel Pack Intervals: From 10 ft. to 120 ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

GROUT MATERIAL:  1 Neat cement 2 Cement grout 3 Bentonite 4 Other \_\_\_\_\_  
 Grouted Intervals: From 10 ft. to 10 ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 What is the nearest source of possible contamination:  
 1 Septic tank 4 Cess pool 7 Sewage lagoon 10 Fuel storage 14 Abandoned water well  
 2 Sewer lines 5 Seepage pit 8 Feed yard 11 Fertilizer storage 15 Oil well/Gas well  
 3 Lateral lines 6 Pit privy 9 Livestock pens 12 Insecticide storage 16 Other (specify below) \_\_\_\_\_  
 Direction from well: WEST How many feet: 100 ? Water Well Disinfected? Yes  No \_\_\_\_\_  
 Was a chemical/bacteriological sample submitted to Department? Yes \_\_\_\_\_ No  If yes, date sample \_\_\_\_\_  
 Was submitted \_\_\_\_\_ month \_\_\_\_\_ day \_\_\_\_\_ year: Pump Installed? Yes \_\_\_\_\_ No   
 Yes: Pump Manufacturer's name \_\_\_\_\_ Model No. \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
 Depth of Pump Intake \_\_\_\_\_ ft. Pumps Capacity rated at \_\_\_\_\_ gal./min.  
 Type of pump:  1 Submersible  2 Turbine  3 Jet  4 Centrifugal  5 Reciprocating  6 Other \_\_\_\_\_

CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was  constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on \_\_\_\_\_ month \_\_\_\_\_ day \_\_\_\_\_ year  
 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 359  
 This Water Well Record was completed on \_\_\_\_\_ month \_\_\_\_\_ day \_\_\_\_\_ year under the business name of DARYL Cox & Sons Inc by (signature) Daryl Cox \_\_\_\_\_ 80 year

LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:	FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
	0	3	TOPSOIL			
	3	8	GRAY CLAY			
	8	18	YELLOW CLAY w/ SAND ROCK LAYERS			
	18	68	SAND ROCK			
	68	95	BLUE CLAY			
	95	120	SAND ROCK STOP			

ELEVATION: 1420'  
 Depth(s) Groundwater Encountered 1. \_\_\_\_\_ ft. 2. \_\_\_\_\_ ft. 3. \_\_\_\_\_ ft. 4. \_\_\_\_\_ ft. (Use a second sheet if needed)  
 INSTRUCTIONS: Use typewriter or ball point pen, please press firmly and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Division of Environment, Water Well Contractors, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.



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

April 20, 2016

BRETT HERRS  
122 N PALMER ST  
PALMER KS 66962

RE: Application  
File No. 49623

Dear Sir or Madam:

Your application for permit to appropriate water in 12-4S-2E in Washington 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.

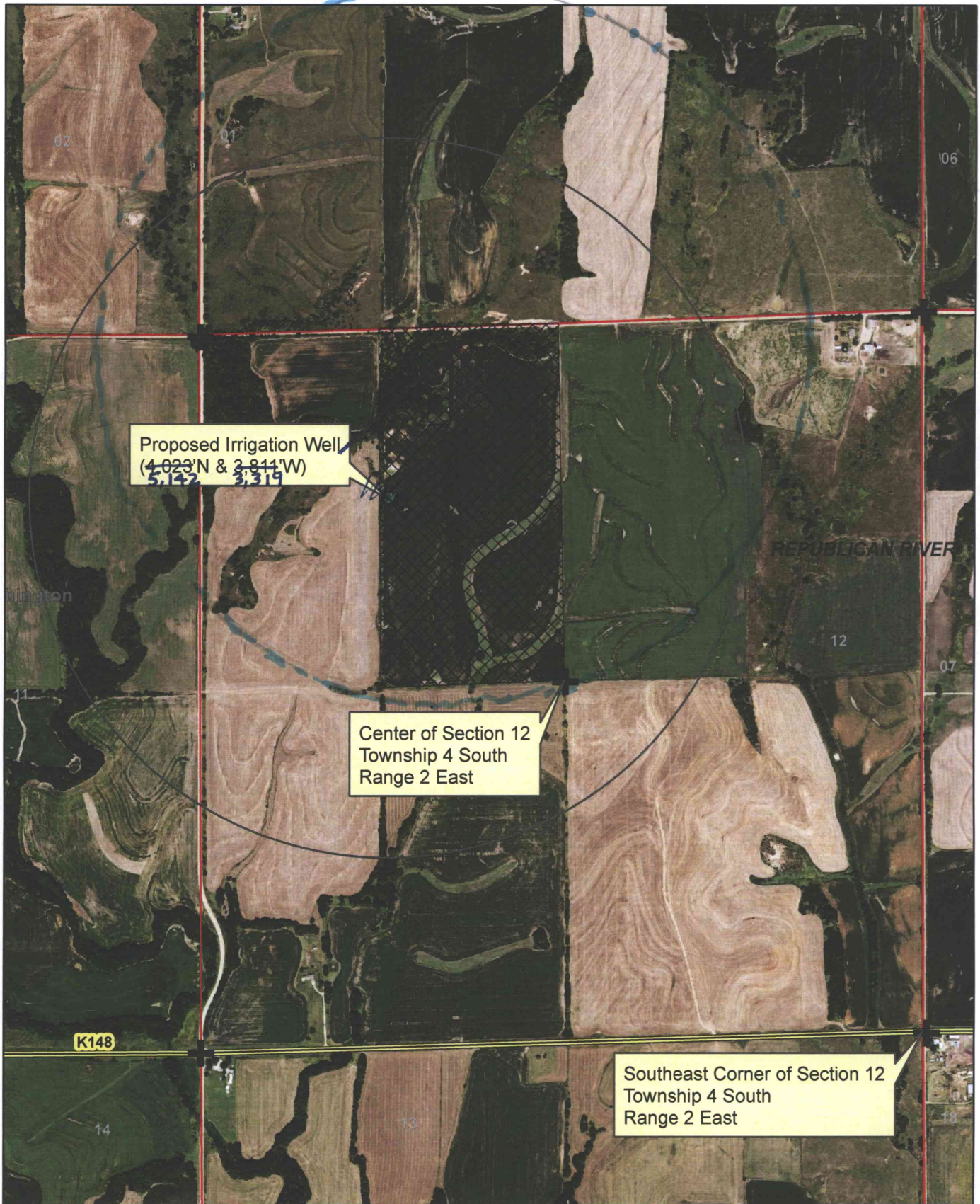
Sincerely,

Brent A Turney, L.G.  
New Application Unit Supervisor  
Water Appropriation Program

KAK: DLW  
pc: TOPEKAField Office  
GMD

SCANNED

BRETT HERRS APPLICATION - FILE NO. 49,623  
 SEC. 12, T4S, R2E



1:12,000



Proposed Place of Use



Proposed Well Location

There are no known wells within one-half mile of the proposed point of diversion. \*

\* Verified with applicant & Review of aerial photos. There are no known wells within 1/2 mile of well. DWS IDWR 3/21/17

BRETT HERRS - FILE NO. 49,623  
NEW APPLICATION SITE MAP  
PROPOSED WELL LOCATION



**1:12,000**

● Proposed Point of Diversion