

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

1. File Number: <p style="text-align: center; font-size: 1.2em;">49,424</p>	2. Status Change Date: <p style="text-align: center; font-size: 1.2em;">8/26/2016</p>	3. Field Office: <p style="text-align: center; font-size: 1.2em;">3</p>	4. GMD: <p style="text-align: center; font-size: 1.2em;">0</p>
5. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return			
6. Enclosures: <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N of C Form <input checked="" type="checkbox"/> Water Tube <input checked="" type="checkbox"/> Driller Copy <input checked="" type="checkbox"/> Meter			
<p>7a. Applicant(s) Person ID 4780 New to system <input type="checkbox"/> Add Seq# _____</p> <p>CITY OF ELLSWORTH PO BOX 163 ELLSWORTH KS 67439</p>	<p>7c. Landowner(s) Person ID _____ New to system <input type="checkbox"/> Add Seq# _____</p>		
<p>7b. Landowner(s) Person ID _____ New to system <input type="checkbox"/> Add Seq# _____</p> <p>7a.</p>	<p>7d. Misc. Person ID _____ New to system <input type="checkbox"/> Add Seq# _____</p> <p>SCOTT E ROSS WATER RIGHTS INVESTIGATIVE SERVICE LLC 209 SOUTH ASH ST STOCKTON KS 67669</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>7a.</p>	<p>9. Use of Water: Changing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water</p> <p><input type="checkbox"/> IRR <input type="checkbox"/> REC <input type="checkbox"/> DEW <input checked="" type="checkbox"/> MUN</p> <p><input type="checkbox"/> STK <input type="checkbox"/> SED <input type="checkbox"/> DOM <input type="checkbox"/> CON</p> <p><input type="checkbox"/> HYD DRG <input type="checkbox"/> WTR PWR <input type="checkbox"/> ART RECHRG</p> <p><input type="checkbox"/> IND SIC: _____ <input type="checkbox"/> OTHER: _____</p>		
10. Completion Date: <u>12/31/2017</u> 11. Perfection Date: <u>12/31/2036</u> 12. Exp Date: _____			
13. Conservation Plan Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date Required: _____ Date Approved: _____ Date to Comply: _____			
14. Water Level Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date to Comply: _____ Date WLMD Installed: _____			
<p>Date Prepared: 8/15/2016 By: DWS Date Entered: 8/29/2016 By: LLM</p>			

File No. **49,424** 15. Formation Code: 113 Drainage Basin: **SMOKY HILL RIVER** County: **EW** Special Use: Stream:

16. Points of Diversion										
MOD	DEL	ENT	PDIV	Qualifier	S	T	R	ID	'N	'W
MOD				84493	NE NE NE	29	15	8W	1	4746
										201 (Geo-Ctr)
ENT				85572	NE NE NE	29	15	8W		4952
										398 (Batt 1 of 4)
ENT				85573	NE NE NE	29	15	8W		4898
										290 (Batt 2 of 4)
ENT				85574	SE NE NE	29	15	8W		4618
										56 (Batt 3 of 4)
ENT				85575	SE NE NE	29	15	8W		4516
										60 (Batt 4 of 4)

17. Rate and Quantity MOD QTY				
Authorized		Additional		
Rate gpm	Quantity mgy	Rate gpm	Quantity mgy	Overlap PD Files
800	321.6	800	18.82	NONE
	104.79			

18. Storage: Rate _____ NF Quantity _____ ac/ft Additional Rate _____ NF Additional Quantity _____ ac/ft

19. Limitation: **188.32 MG/yr** (577.9 AF) at _____ gpm (_____ cfs) when combined with file number(s) **EW-02; 12,885; 38,775; & 38,776**
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

20. Meter Required? Yes No To be installed by **12/31/2017** Date Acceptable Meter Installed _____

21. Place of Use T MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg? NO	Overlap Files
						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				
√	20960																								

Comments: **PU OVERLAP WITH FILE NOS. EW-02; 12,885; 38,775; 38,776; 49,424; & 49,510.**

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

TO: Files

DATE: August 15, 2016

FROM: Doug Schemm

RE: Applications, File Nos. 49,424 and 49,510

The City of Ellsworth has filed the above referenced applications proposing to appropriate groundwater for municipal use. The applications are located in Sections 28 and 29, Township 15 South, Range 8 West in Ellsworth County. For both applications, the City has provided Temporary Easement agreements with the landowners showing that they have the right to access the properties for test hole drilling. In addition, Application, File No. 49,510 was signed by a representative of the City stating that they have access to the point of diversion. There are no overlapping water rights on the points of diversion.

The place of use overlaps with the City's senior water rights, Vested Water Right, File No. EW-002; and Water Right, File Nos. 12,885; 38,775; and 38,776 for municipal use. File No. EW-002 and Water Right, File No. 12,885 are a complete overlap in point of diversion, which consists of 7 wells in a well field on the west side of the city. File No. EW-002 is authorized a blanket quantity of 60 million gallons, while Water Right, File No. 12,885 has individual quantities assigned per well, with a limitation not to exceed 160 million gallons when combined with File No. EW-002. Note that Water Right, File Nos. 38,775 and 38,776 each overlap one of the existing wells in the well field. These files were recently certified (May 23, 2016) and both are limited to 169.5 million gallons when combined with the City's senior files. Water Right, File No. 38,775 is authorized 45.6 million gallons (only 9.5 million gallons additional), and Water Right, File No. 38,776 is authorized 46.013 million gallons (0 additional).

The City has provided a spread sheet with projected water needs for the next 20 years, with an estimated quantity of 188.32 million gallons. As described above, the City's current authorized quantity under their senior files is 169.5 million gallons, so the new applications would provide 18.82 million gallons additional quantity (188.32 – 169.5). In addition, the new applications will provide flexibility in pumping. Based on safe yield analysis (see below), Application, File No. 49,424 requested quantity was reduced to 104.79 million gallons. Application, File No. 49,510 will be approved for the requested 162.9 million gallons, however, as noted above, these junior files will be limited to the total justified quantity of water of 188.32 million gallons when combined. The Kansas Water Office (KWO) projection shows a very similar value with an estimate of 186 million gallons by 2040.

The applicant identified two potential domestic wells within one-half (½) mile of the proposed wells, based on data in the KGS WWC-5 records, but none within 1,000 feet. As shown on the map, these applications are located adjacent to the City of Ellsworth. In keeping with standard protocol, the applicant chose to use a public notice to inform nearby well owners. The public notice was published in the Ellsworth County Independent/Reporter on June 30, July 7, and July 14, 2016, with a comment period ending on July 29, 2016. No responses of any kind were received to the public notice. However, a letter and subsequent telephone call, was received from a nearby domestic well owner (Marvin Bush). Because both Mr. Bush and Robert Blackburn were identified as having domestic wells nearby, notification letters were sent directly to both of them on August 1, 2016. Mr. Bush was concerned of possible impact to his domestic well, which he said was 55 feet in total depth and 25 feet to the water table. The well is used for watering the garden and trees, with the house being supplied by the city water system. A response letter was sent to Mr. Bush on August 9, 2016.

Per K.A.R. 5-4-4, new non-domestic wells must meet specific spacing guidelines based on the source of water supply in order to minimize the potential that existing water wells of any kind would be impaired. The source of water (aquifer) for these pending applications appears to be the Smoky Hill River alluvium. The well logs indicate that they penetrated the top of the unconfined Dakota aquifer system. However, Scott Ross (City's consultant) stated that the wells would be completed in the alluvium only. Since the source is the alluvium, the minimum well spacing is 1,320 feet from any existing non-domestic well, and 660 feet from any existing domestic well in the same source of supply. The nearest domestic well is located over 1,000 feet away, while the nearest non-domestic well is the applicant's pending applications spacing to each other, which is over 1,600 feet apart. Therefore, the points of diversion under these files comply with minimum well spacing criteria in K.A.R. 5-4-4.

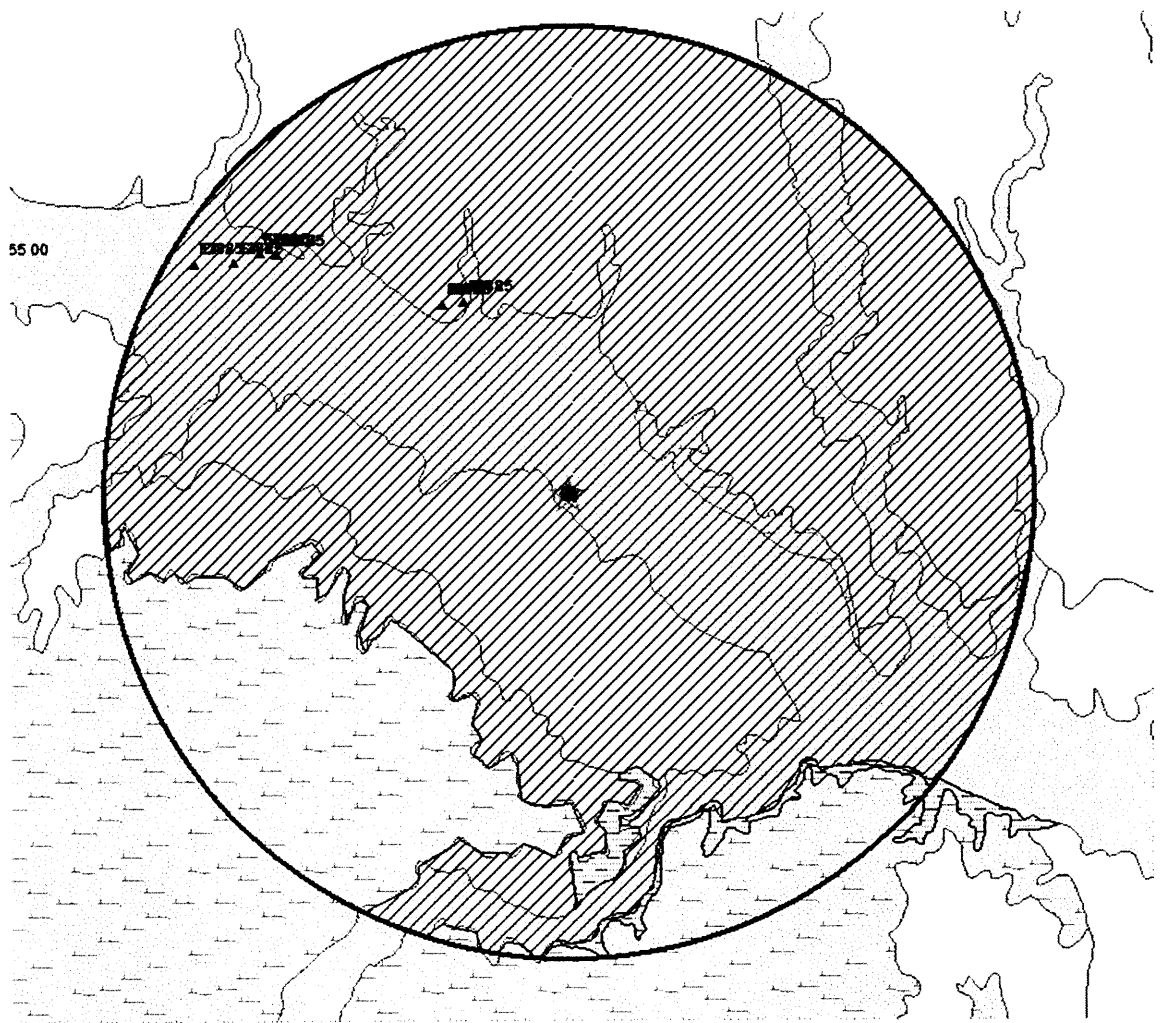
Area well logs and historical geologic data, indicates that the alluvial aquifer does not extend into the southwestern and southern portions of the two mile area for each application. Therefore, per K.A.R. 5-3-11, which applies to safe yield evaluations for all unconfined aquifers, the area of consideration is the extent of the alluvial aquifer. For File No. 49,424, the aquifer extent was determined to be 6,576 acres. With a recharge of 1.9 inches and 75% available, safe yield was determined to be 780.9 acre-feet. Prior appropriations total 459.28 acre-feet, leaving 321.6 acre-feet available. The requested quantity on File No. 49,424 was reduced to comply with safe yield. For File No. 49,510, the aquifer extent was determined to be 6,707 acres. With a recharge of 1.9 inches and 75% available, safe yield was determined to be 796.5 acre-feet. Prior appropriations total 147.05 acre-feet, leaving 649.41 acre-feet available, and this pending application meets safe yield. The only water rights within a two-mile radius circle, are the City's other senior municipal files.

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.

In an e-mail message, dated July 26, 2016, Kelly Stewart, Water Commissioner of the Stockton Field Office, indicated he had no objection to the approval of the referenced applications, File Nos. 49,424 and 49,510. Please note that the applicant has signed and submitted MDS forms, however both of these files are sourcing the alluvium downstream of the gage at Ellsworth.

Based on the above discussion, the area is open to new appropriations, the applications meet safe yield and well spacing criteria, and they will provide flexibility in pumping points for the City of Ellsworth, it is recommended that the referenced applications 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

August 31, 2016

FILE COPY

CITY OF ELLSWORTH
% CAREY HIPP CITY ATTORNEY
PO BOX 163
ELLSWORTH KS 67439

Re: Appropriation of Water, File Nos. 49,424 and 49,510

Dear Mr. Hipp:

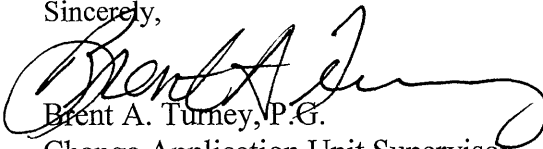
There are enclosed permits to appropriate water authorizing you to proceed with construction of the proposed diversion works (except those dams and stream obstructions regulated by K.S.A. 82a-301 through 305a), to divert such unappropriated water as may be available from the sources and at the locations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

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these permits. Water meters are required and you must install them prior to water being put to beneficial use in order for you to maintain accurate records of water use. The meters should be used to provide the information required on the annual water use reports. 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 these permits. Enclosed are forms which may be used to notify the Chief Engineer that the proposed diversion works have been completed for each file.

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 these permits 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 these permits. Failure to comply with this regulation will result in the dismissal of your permits or your water rights. Any request for an extension of time shall be accompanied by the required statutory fee, which is currently \$100.00 per file number. There is also enclosed an information sheet setting forth the procedure to obtain Certificates of Appropriation which will establish the extent of your water rights.

If you have any questions, please contact our office. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,



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

BAT:dws

Enclosures

pc: Stockton Field Office
Scott Ross



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

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

This is to certify that I have examined Application, **File No. 49,424** of the applicant

CITY OF ELLSWORTH
% CAREY HIPP CITY ATTORNEY
PO BOX 163
ELLSWORTH KS 67439

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 **July 10, 2015**.
2. That the water sought to be appropriated shall be used for municipal use within the City of Ellsworth, Kansas and immediate vicinity.
3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of a battery of four (4) wells with a geographic center located in the Northeast Quarter of the Northeast Quarter of the Northeast Quarter (NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 29, more particularly described as being near a point 4,746 feet North and 201 feet West of the Southeast corner of said section, in Township 15 South, Range 8 West, Ellsworth County, Kansas, located substantially as shown on the topographic map accompanying the application.
4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of **800 gallons per minute (1.78 c.f.s.)** and to a quantity not to exceed **104.79 million gallons** (321.6 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, 2017** 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, 2036** 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 re-diverted during each calendar year may be readily determined and the applicant shall file an annual water use report with the Chief Engineer by March 1 following the end of each calendar year. Failure to file the annual water use report by the due date shall cause the applicant to be subject to a civil penalty.
15. That no water user shall engage in nor allow the waste of any water diverted under the authority of this permit.
16. That failure without cause to comply with provisions of the permit and its terms, conditions and limitations will result in the forfeiture of the priority date, revocation of the permit and dismissal of the application.
17. That the right to appropriate water under authority of this permit is subject to any minimum desirable streamflow requirements identified and established pursuant to K.S.A. 82a-703c for the source of supply to which this water right applies.
18. That this permit is further limited such that all wells shall be located within a three hundred (300) foot radius circle, in the same local source of supply, and shall supply water to a common distribution system.

CERTIFICATE OF SERVICE

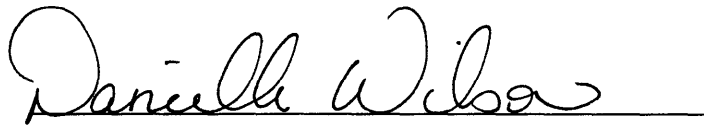
On this 31 day of August, 2016, I hereby certify that the foregoing Approval of Application and Permit to Proceed, File No. 49,424, dated August 26, 2016 was mailed postage prepaid, first class, US mail to the following:

CITY OF ELLSWORTH
PO BOX 163
ELLSWORTH KS 67439

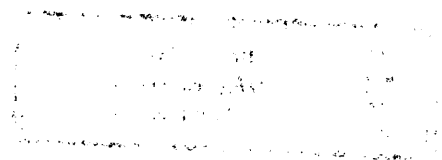
With photocopies to:

SCOTT E ROSS
WATER RIGHTS INVESTIGATIVE SERVICE LLC
209 SOUTH ASH ST
STOCKTON KS 67669

Stockton Field Office



Division of Water Resources



APPLICATION COMPLETE

8/19/2016

Reviewer DWS

THE STATE



F KANSAS

KANSAS DEPARTMENT OF AGRICULTURE

Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES

David W. Barfield, Chief Engineer

File Number 49424

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

WATER RESOURCES RECEIVED

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

Filing Fee Must Accompany the Application
(Please refer to Fee Schedule attached to this application form.)

JUL 10 2015

11:09
KS DEPT OF AGRICULTURE

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

1. Name of Applicant (Please Print): City of Ellsworth C/O Carey Hipp, City Attorney
Address: PO Box 163
City: Ellsworth State KS Zip Code 67439
Telephone Number: (785-) 472-5566

2. The source of water is: surface water in _____ (stream)
OR groundwater in Smoky Hill River Basin (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 321.6* acre-feet OR 104,79 gallons per calendar year, to be diverted at a maximum rate of 800 GPM gallons per minute OR 1.78 cfs cubic feet per second.

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

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

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

For Office Use Only:
F.O. 3 GMD -0- Meets K.A.R. 5-3-1 (YES / NO) Use MUN Source S County EW By KAB Date 7/10/15
Code RE3 Fee \$ 340 TR # _____ Receipt Date _____ Check # 147684

16081254

DWR 1-100 (Revised 06/16/2014)

* Reduced quantity to meet safe yield. Agreed to by Scott Ross in 6/27/16 discussion. DWS/DWR

SCANNED

7/14/2015 UCM

* 4 of 4 SE NE NE 4516'N & 60'W, Sec. 29, 15S, 8W, Ellsworth Co.

* See 6/27/16 e-mail from Scott Ross. DWS/pwr 6/27/16

FILE NO. 49,424

*5. The location of the proposed wells, pump sites or other works for diversion of water is: **60 days to locate**

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. **Battery of (4) wells**

Geo-Ctr

(A) One in the NE quarter of the NE quarter of the NE quarter of Section 29, more particularly described as being near a point 4746 feet North and 201 feet West of the Southeast corner of said section, in Township 15 South, Range 8 West, in Ellsworth County, Kansas.

1 of 4

(B) One in the NE quarter of the NE quarter of the NE quarter of Section 29, more particularly described as being near a point 4952 feet North and 398 feet West of the Southeast corner of said section, in Township 15 South, Range 8 East/West(circle one), EW County, Kansas.

2 of 4

(C) One in the NE quarter of the NE quarter of the NE quarter of Section 29, more particularly described as being near a point 4898 feet North and 290 feet West of the Southeast corner of said section, in Township 15 South, Range 8 East/West(circle one), EW County, Kansas.

3 of 4

(D) One in the SE quarter of the NE quarter of the NE quarter of Section 29, more particularly described as being near a point 4618 feet North and 56 feet West of the Southeast corner of said section, in Township 15 South, Range 8 East/West(circle one), EW 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):

See attached drilling agreement
(name, address and telephone number)

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

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

Executed on _____, 20____.

Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

7. The proposed project for diversion of water will consist of a battery of 4 wells and distribution system ✓
(number of wells, pumps or dams, etc.)

and will be completed (by) July 2015
(Month/Day/Year - each was or will be completed)

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

See attached easement for access DWS/pwr 6/27/16

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 None applicable
- If no, explain here why a Water Structures permit is not required no water will be impounded

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.

Vested Right EW 002; Water Right File No. 12,885; Water Right File No. 38,775 and Water Right File No. 38,776 & Application # 49,510.

WATER RESOURCES RECEIVED

JUL 10 2015

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

City Attorney
(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):

City of Ellsworth to Carey Hipp P.O. Box 83 Ellsworth KS 67439
(name, address and telephone number) 785-472-3186

(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 Ellsworth, Kansas, this 7th day of July, 2015.
(month) (year)

Carey Hipp
(Applicant Signature)

By City Attorney
(Agent or Officer Signature)

Carey Hipp
(Agent or Officer - Please Print)

Assisted by Scott E. Ross Consultant Date: _____
(office/title)

Schemm, Doug

From: Stewart, Kelly
Sent: Tuesday, July 26, 2016 10:10 AM
To: Schemm, Doug
Cc: Billinger, Mark; Hageman, Rebecca
Subject: RE: City of Ellsworth 49,424 and 49,510

Doug,

Yes, the City was interested in finding more water that was not subject to MDS.

I have no objection to the approval of these applications.

Kelly

From: Schemm, Doug
Sent: Tuesday, July 26, 2016 10:04 AM
To: Stewart, Kelly <Kelly.Stewart@ks.gov>
Cc: Billinger, Mark <Mark.Billinger@ks.gov>
Subject: City of Ellsworth 49,424 and 49,510

Good Morning,

So is the purpose of these applications to be allowed to pump water that is not subject to MDS because they are below the gage? Anyway, these are ready. No response to public notice. They are only getting 18.82 million additional when combined with senior files.

Thanks, Doug

City of Ellsworth projected water needs for the next 20 years at an average of 130 GPCD and 137 GPCD

Current Senior Water Rights Total: 160,058,011 gallons
 Current Junior Water Rights Total 30,212,904 gallons

Year	Population	Water Needs at 130 GPCD	Water Needs at 137 GPCD
1	3120	148044000	156015600
2	3151	149514950	157565755
3	3182	150985900	159115910
4	3214	152504300	160716070
5	3246	154022700	162316230
6	3278	155541100	163916390
7	3314	157249300	165716570
8	3344	158672800	167216720
9	3377	160238650	168866885
10	3411	161851950	170567055
11	3445	163465250	172267225
12	3479	165078550	173967395
13	3514	166739300	175717570
14	3549	168400050	177467745
15	3584	170060800	179217920
16	3620	171769000	181018100
17	3656	173477200	182818280
18	3692	175185400	184618460
19	3729	176941050	186468645
20	3766	178696700	188318830

GPCD Gallons Per Capita Per Day

Total Authorized Quantity w/ both Junior and Senior Rights 190,270,915 Gallons

Junior and Senior to Minimum Desirable Streamflow

Exceeds Rights Senior to MDS

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 NOV 23 2015
 SCANNED
 KS DEPT OF AGRICULTURE

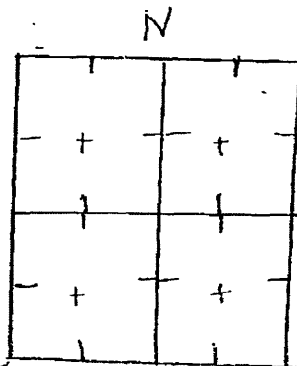
WATER RESOURCES RECEIVED
 UNACCEPTABLE FOR PRIORITY
 NOV 09 2015
 KS DEPT OF AGRICULTURE

KARST WATER WELL DRILLING & SERVICE

2240 E. 8TH ST
 HAYS, KS 67601

TEST LOG

JOB NUMBER Test Hole #27
 OF _____ NO: _____
 FOR City of Ellsworth
 DATE DRILLED 7-21-15
 LOCATION 1/4 1/4 SECTION NO. _____
 T _____ S, R _____ W/E _____ COUNTY _____ STATE _____
 FSL _____ FEL _____



38.721370 -98 229188

DEPTH	FORMATION THICKNESS	FORMATION	REMARKS
0-3		Top Soil	
3-13		Clay - Silty	
13-15		Fine Sand	
15-21		Course Sand	
21-25		Weathered Shale w/ layers of Course Sand	
25-30		Red Sandstone w/ layers of Extra Fine Sand	
30-41		Red Sandstone	
41-45		Grey Clay - light	

STATIC WATER LEVEL

WATER SAMPLES	PPM CHLORIDE	OTHER TESTS
TO _____	_____	_____
TO _____	_____	_____
TO _____	_____	_____
TO _____	_____	_____

TEMPORARY EASEMENT

THIS AGREEMENT, made and entered into this 2nd day of July, 2015, by and between Cheryl L. Weber hereinafter referred to as "Weber" and the City of Ellsworth a Municipal Corporation, Ellsworth, Kansas, hereinafter referred to as "City."

WITNESSETH:

IN CONSIDERATION of the covenants made each to the other, as herein set forth, the parties make certain agreements regarding the following property owned by Weber in Ellsworth County, Kansas:

A fractional part of the NW/4 of 28-15 S-8 W of the 6th P.M., in Ellsworth County, Kansas, described as follows: Commencing at the intersection of the South line of the right of way of the Union Pacific Railroad Company and the West line of the NW/4 of 28-15S-8W of the 6th P.M. running thence South on section line 29.56/100 chains to the SW corner of said quarter section, thence East on quarter section line 12.07 chains; thence North 25 degrees and 30 degrees East 3.67 chains; thence North 62 degrees West 12.16 chains; thence North 2.23 chains; thence North 66 degrees West 2.9 chains, to a point 25 links from the West line of said quarter section; thence North parallel with and 25 links from the West line of said quarter section 17.25 chains to the right of way of the Union Pacific Railroad Company; thence North 52 degrees West along said right of way 26 links to the place of beginning-containing 5 and 28/100 acres of land exclusive of the river bed; ALSO a tract of land described as follows: Commencing at a point 29.45 chains North of the Southwest corner of the NW/4 of 28-15 S-8 W of the 6th P.M. and 200 feet South of the center of the Union Pacific Railroad Company's right of way and 25 links East of the West section line of said section; thence South 50 degrees East parallel with Union Pacific Railroad Company's right of way 13.75 chains; thence South 2 degrees 10 feet East 17 chains; thence North 62 degrees West nine 98/100 chains; thence North 2.23 chains; thence North 66 degrees West 2.98 chains; thence North 25 links, East of said section line Var. 10 degrees East 17 41/100 chains to the place of beginning.

AND

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All of her interest in and to the East Half (E/2) of Section Twenty-Nine (29), Township Fifteen (15) South, Range Eight (8) West of the 6th P.M., in Ellsworth County, Kansas.

1. Weber grants, bargains and conveys unto City temporary access over and across the above real estate for the purpose of exploring for water. City will pay Weber the sum of Five Hundred Dollars (\$500.00) for this temporary access upon execution of this agreement and prior to making any use thereof.

2. City shall have access to the above described real estate owned by Weber for the purpose of exploring for water, including the right to drill test holes or test wells. Weber shall be compensated at the rate of Five Hundred Dollars (\$500.00) per test hole or test well that is drilled. City shall notify Weber of the approximate date that the test well holes will be drilled. City shall also notify Weber of any test results received on each of the test wells or test holes completed.

3. City shall pay Weber for damages to growing crops caused by City while exploring for water or drilling for test holes or test wells in the designated area. City will pay Weber an amount equal to the area damaged in acres, multiplied by the Farm Service Agency established yield per acre for the crop on the damaged location multiplied by the closing commodity price posted by the Ellsworth COOP elevator, at the close of business on the first Wednesday following the conclusion of City's testing operations.

4. This temporary access shall continue for one year from the date this agreement is executed. The City shall ensure all test holes, wells and other borings are properly plugged.

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5. All agreements herein contained shall run with the land. The terms and provisions hereof shall be binding upon and inure to the benefit of the successors and assigns of the respective parties hereto.

Cheryl L. Weber
Cheryl L. Weber

STATE OF ~~KANSAS~~ ^{California})
COUNTY OF Alameda) SS:

BE IT REMEMBERED, that on this 24 day of June, 2015, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came Cheryl L. Weber who is personally known to me to be the same person who executed the within instrument of writing, and such person duly acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year last above written.

Michael Lan An
Notary Public
Michael Lan An
see seal attach

My Appointment Expires:
05/09/2017

City of Ellsworth

John J. Whitmer
John J. Whitmer
Mayor

Attested:
Patti L. Booher
Patti Booher, City Clerk

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LAW OFFICES
SHERMAN, HOFFMAN & HIPPI, LC

126 North Douglas
Mailing Address: P. O. Box 83
Ellsworth, Kansas 67439-0083

John Sherman
Gregory R. Hoffman
Carey Hipp
Patrick G. Hoffman

TELEPHONE: 785-472-3186
FAX: 785-472-4767

July 7, 2015

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

Dear Chief Engineer:

Please find enclosed an Application for Permit to Appropriate Water for Beneficial Use for your review. Along with this permit is a check in the amount of \$340.00 and a copy of the temporary easement agreement the City of Ellsworth has entered into with the current landowner.

Please let me know if you have any questions or concerns.

Thank you for your cooperation.

Sincerely,

Carey Hipp
Sherman, Hoffman & Hipp, LC
chipp@shhlawyers.com

CH/hw

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JUL 10 2015

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49424

14-10W-32aaa.—Sample log of test hole in the NE cor. sec. 32, T.14 S., R.10 W., west side of road, 35 feet south of section line; augered June 21, 1961. Altitude of land surface, 1,622 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
RECENT AND WISCONSINAN STAGES		
Colluvium		
Silt, sandy, dark-grayish-brown	1	1
KANSAN STAGE		
Sappa and Grand Island Formations		
Sand, coarse to very coarse; contains some fine to coarse gravel	8	9
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Dakota Formation		
Clay, yellowish-orange and medium-to light-gray	2	11

14-10W-32daa.—Sample log of test hole in the NE¼ NE¼ SE¼ sec. 32, T.14 S., R.10 W., center of road, 130 feet south of ½-mile line; augered June 21, 1961. Altitude of land surface, 1,568 feet; depth to water, 7.0 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
WISCONSINAN STAGE		
Fluvial deposits (terrace)		
Silt, dark-grayish-brown	4	4
Sand, fine; contains much silt	5	9
Silt, clayey, dark-brown	5	14
Sand, fine to medium, silty	5	19
Sand, coarse to very coarse, and fine to medium gravel	13	32
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Dakota Formation		
Clay, light-gray	1	33

14-10W-32ddd.—Sample log of test hole in the SE cor. sec. 32, T.14 S., R.10 W., west side of road, 30 feet north of intersection; augered June 21, 1961. Altitude of land surface, 1,628 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
RECENT AND WISCONSINAN STAGES		
Eolian deposits		
Silt, clayey, dark-grayish-brown	6	6
KANSAN STAGE		
Sappa and Grand Island Formations		
Sand, coarse to very coarse, and fine to very coarse gravel	9	15
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Dakota Formation		
Sandstone, fine-grained, and interbedded grayish-yellow shale	3	18

15-7W-35bbb.—Sample log of test hole in the NW cor. sec. 35, T.15 S., R.7 W., south side of road, 40 feet east of intersection; augered June 22, 1961. Altitude of land surface, 1,574 feet; dry hole.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
RECENT AND WISCONSINAN STAGES		
Eolian deposits		
Silt, dark-grayish-brown	4	4
Silt, light-grayish-brown; contains some fine locally derived gravel in lower part	2	6
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Dakota Formation		
Siltstone, light-gray	3	9

15-7W-35bcc.—Sample log of test hole in the SW¼ SW¼ NW¼ sec. 35, T.15 S., R.7 W., east side of road at ½-mile line; augered

June 22, 1961. Altitude of land surface, 1,507 feet; depth to water, 5.6 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
RECENT AND WISCONSINAN STAGES		
Colluvium		
Sand, medium, and brown silt	4	4
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Kiowa Formation		
Sandstone, light-yellowish-orange	5	9

15-7W-35ccc1.—Sample log of test hole in the SW cor. sec. 35, T.15 S., R.7 W., in triangle at road intersection; augered June 22, 1961. Altitude of land surface, 1,518 feet; depth to water, 23.0 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
KANSAN STAGE		
Sappa and Grand Island Formations		
Sand, fine to medium, very silty	4	4
Sand, medium; contains some fine gravel	5	9
Sand, medium to coarse; contains some fine gravel and much silt	19	28
Sand, medium	23	51
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Kiowa Formation		
Clay, medium-light-gray	4	55

15-8W-19ccc.—Sample log of test hole in the SW cor. sec. 19, T.15 S., R.8 W., north edge of road, at east end of bridge; drilled by O. S. Fent, December 1, 1947. Altitude of land surface, 1,555 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
RECENT AND WISCONSINAN STAGES		
Fluvial deposits		
Silt, brown (road fill and soil)	8	8
Silt, sandy, grayish-tan	2	10
Silt, sand, and gravel, fine to medium	5	15
Silt, sandy, tan; contains pebbles of red and brown sandstone	1	16
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Dakota Formation		
Sandstone, white and red	1	17
Clay, sandy, white and red, interbedded with white sandstone	3	20

15-9W-2bbb.—Sample log of test hole in the NW cor. sec. 2, T.15 S., R.9 W., east side of road, 30 feet south of intersection; drilled August 29, 1961. Altitude of land surface, 1,640 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
KANSAN STAGE		
Sappa and Grand Island Formations		
Silt, clayey, dark-brown	5	5
Silt, brown; contains caliche	4	9
Sand, very fine, silty, light-brown	10	19
Clay, dark-grayish-brown; contains much fine sand	1	20
Silt, dark-brown	5	25
Sand, very fine, silty, light-brown	4	29
Silt, grayish-brown; contains some caliche	7	36
Sand, medium	14	50
Sand, coarse, and fine gravel	22	72
CRETACEOUS SYSTEM		
LOWER CRETACEOUS SERIES		
Dakota Formation		
Sandstone, hard, dark-reddish-brown ..	8	80

ELLSWORTH COUNTY
INDEPENDENT/REPORTER

AFFIDAVIT OF PUBLICATION

State of Kansas, County of Ellsworth, ss:

I, Linda J. Denning, being first duly sworn, depose and say: That I am publisher of the Ellsworth County Independent/Reporter, a weekly newspaper printed in the State of Kansas, and published in and of general circulation in Ellsworth County, Kansas, with a general paid subscription on a yearly basis in Ellsworth County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is a weekly published at least 50 times a year; has been so published continuously and uninterruptedly in said county and state for a period of more than one year prior to the first publication of said notice; and has been admitted at the post office of Ellsworth in said County as second class matter.

That the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for 3 consecutive weeks, the first publication thereof being made as aforesaid on the 30th day of June, 2016 with subsequent publications being made on the following dates:

Second Publication 7/7, 2016

Third Publication 7/14, 2016

Fourth Publication _____, 2016

Fifth Publication _____, 2016

Subscribed and sworn to before me this 14th day of July, 2016.

Juanita Kepka
NOTARY PUBLIC

My commission expires March 22, 2017.

Examined and approved by me this _____ day of _____, 2016.

Clerk of District Court, Ellsworth County, Kansas
Probate Judge, Ellsworth County, Kansas

Printers' Fee: \$163.80

Additional Copies: \$ _____

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JUL 25 2016

COPY OF NOTICE

Office
DIVISION OF WATER RESOURCES

City of Ellsworth Water Applications

(First Published in the Ellsworth County Independent/Reporter June 30, 2016)

PUBLIC NOTICE

File Nos. 49,424 and 49,510

The City of Ellsworth has filed Applications, File Nos. 49,424 and 49,510, for permit to appropriate water for beneficial use, with the Division of Water Resources, Kansas Department of Agriculture. Application File No. 49,424 is requesting 104.79 million gallons of groundwater, and Application File Nos. 49,510 is requesting 162.9 million gallons of groundwater, for municipal use. Both Files are requesting a diversion rate of 800 gallons per minute from a battery of four wells. The geographic centers of the well batteries are located in the Northeast Quarter (NE 1/4) of Section 29 and the Northwest Quarter (NW 1/4) of Section 28, respectively, in Township 15 South, Range 8 West in Ellsworth County, Kansas.

Anyone with existing wells in the immediate vicinity of these proposed points of diversion is invited to submit written comments regarding Applications, File Nos. 49,424 and 49,510. Persons submitting comments should specifically indicate their interest in the proposed appropriations of water. Comments regarding these applications will be accepted through July 29, 2016.

Written comments or questions regarding the applications may be directed to the Office of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502. If you wish more information concerning these applications, you may also contact Douglas Schemm, Environmental Scientist, in the Water Appropriation Program at 785-296-3495.

3t 7/14

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JUL 21 2016

KS DEPT OF AGRICULTURE



SCANNED

WATER RIGHTS INVESTIGATIVE SERVICE
209 SOUTH ASH ST. STOCKTON, KANSAS 67669-1921 (785) 543-8254

May 25, 2016

RE: Application File Nos. 49,424
and 49,510

Division of Water Resources
Doug Schemm
1320 Research Park DR
Manhattan, KS. 66502

RECEIVED
JUL 25 2016
Topeka Field Office
DIVISION OF WATER RESOURCES

Dear Mr. Schemm

Enclosed with this correspondence is the Public Notice, along with the verification of publication regarding Application File Nos. 49,424 and 49,510. The City of Ellsworth submits this notice of publication pursuant to your instructions for the notification of nearby well owners.

If you have other questions or need additional information, please feel free to contact us.

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JUL 21 2016
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Sincerely;



Scott E. Ross

General Manager

Water Rights Investigative Services

Enclosure:

SCANNED

To comply with Battery requirements

Application File No. 49,424 (*Revised individual well locations*)

(1) well 5011' North X 475' West (4,952' N & 398' W)

(1) well 4898' North X 278' West (4,898' N & 290' W)

(1) well 4581' North X 45' West (4,618' N & 56' W)

(1) well 4494' North X 6' West (4,516' N & 60' W)

Geo Center 4746' North X 201' West ✓

All in Section 29, Township 15 South, Range 8 West in Ellsworth County, KS.

To comply with Battery requirements

Application File No. 49,510 (*Revised individual well locations*)

(1) well 4001' North X 4510' West (3,990' N & 4,366' W)

(1) well 3889' North X 4148' West (3,908' N & 4,210' W)

(1) well 3753' North X 4108' West (3,780' N & 4,120' W)

(1) well 3701' North X 3966' West (3,666' N & 4,036' W)

Geo Center 3836' North X 4183' West ✓

All in Section 28, Township 15 South, Range 8 West in Ellsworth County, KS.

These should be the approximate well locations for each battery of (4) wells.

Schemm, Doug

From: Scott Ross <water.rights.llc@gmail.com>
Sent: Monday, June 27, 2016 3:30 PM
To: Schemm, Doug
Subject: Re: Battery well locations File Nos. 49,424 and 49,510

Doug,

Those are approximate, so move them as you need to. Geo Centers are based on the best test hole locations.

Scott

Scott E. Ross
General Manager
Water Rights Investigative Service LLC
209 South Ash ST. Stockton, KS. 67669
785-543-8254

On Mon, Jun 27, 2016 at 12:19 PM, Schemm, Doug <Doug.Schemm@kda.ks.gov> wrote:

Scott,

Need to revise these individual wells a bit for both of these apps. They need to be moved closer in order to fall within 300 feet of geo-ctr.

Thanks, Doug

From: Scott Ross [mailto:water.rights.llc@gmail.com]
Sent: Monday, June 27, 2016 11:08 AM
To: Schemm, Doug; Scott Moore
Subject: Battery well locations File Nos. 49,424 and 49,510

Doug,

The following are the approximate locations of the proposed wells under these applications.

Kopp, Kenneth

From: Scott Ross <water.rights.llc@gmail.com>
Sent: Saturday, October 24, 2015 9:44 AM
To: Kopp, Kenneth
Subject: Re: City of Ellsworth New Application File No. 49,424
Attachments: Ellsworth_27.pdf

Ken,

Yes we did and attached is the log with the GPS coordinates on the log.

Scott

Scott E. Ross
General Manager
Water Rights Investigative Service LLC
209 South Ash ST. Stockton, KS. 67669
785-543-8254

On Thu, Oct 22, 2015 at 3:31 PM, Kopp, Kenneth <Kenneth.Kopp@kda.ks.gov> wrote:

Hi Scott,

Did the city do any test drilling at this location? We did not get any test hole logs.

Thanks,

Ken

From: Scott Ross [mailto:water.rights.llc@gmail.com]
Sent: Thursday, July 30, 2015 8:30 AM
To: Kopp, Kenneth; Carey Hipp
Subject: City of Ellsworth New Application File No. 49,424

Ken,

Ellsworth want to establish the location of the Geo Center of the point of diversion under this application as being 4746 feet North and 201 feet West of the Southeast Corner of Section 29, Township 15 South, Range 8 West in Ellsworth County, KS.

Scott

Scott E. Ross

General Manager

Water Rights Investigative Service LLC

209 South Ash ST. Stockton, KS. 67669
785-543-8254

Further, the Public Notice regarding nearby wells will be published this week and the following 2 weeks, meeting the 3 weekly publication criteria for notice. Please advise if you have any questions that need my input. I would also be interested in any additional hydrologic data submitted regarding these applications or this general area.

Scott

Scott E. Ross

General Manager

Water Rights Investigative Service LLC

209 South Ash ST. Stockton, KS. 67669
785-543-8254

#49,424

Quantity Reduced
to meet safe
yield.

Analysis Results

The selected PD is in an area to new appropriations.

The safe yield, based on the variables listed below is 780.90 AF.

Total prior appropriation in the circle is 1,485.38 AF. $-999.84 = 485.58 - 26.3 \text{ AF (1well)} = 459.28$

Total quantity of water available for appropriation is ~~0.00~~ AF.

321.6 AF (104.79 million)

Safe Yield Variables

The area used for the analysis is set at 6576 acres.

Potential annual recharge of the area is estimated to be 1.9 inches.

The percent of recharge available for appropriation is 75%.

Authorized Quantity values are as of 22-JUN-2016 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 6 water right(s) and 8 point(s) of diversion within the circle.

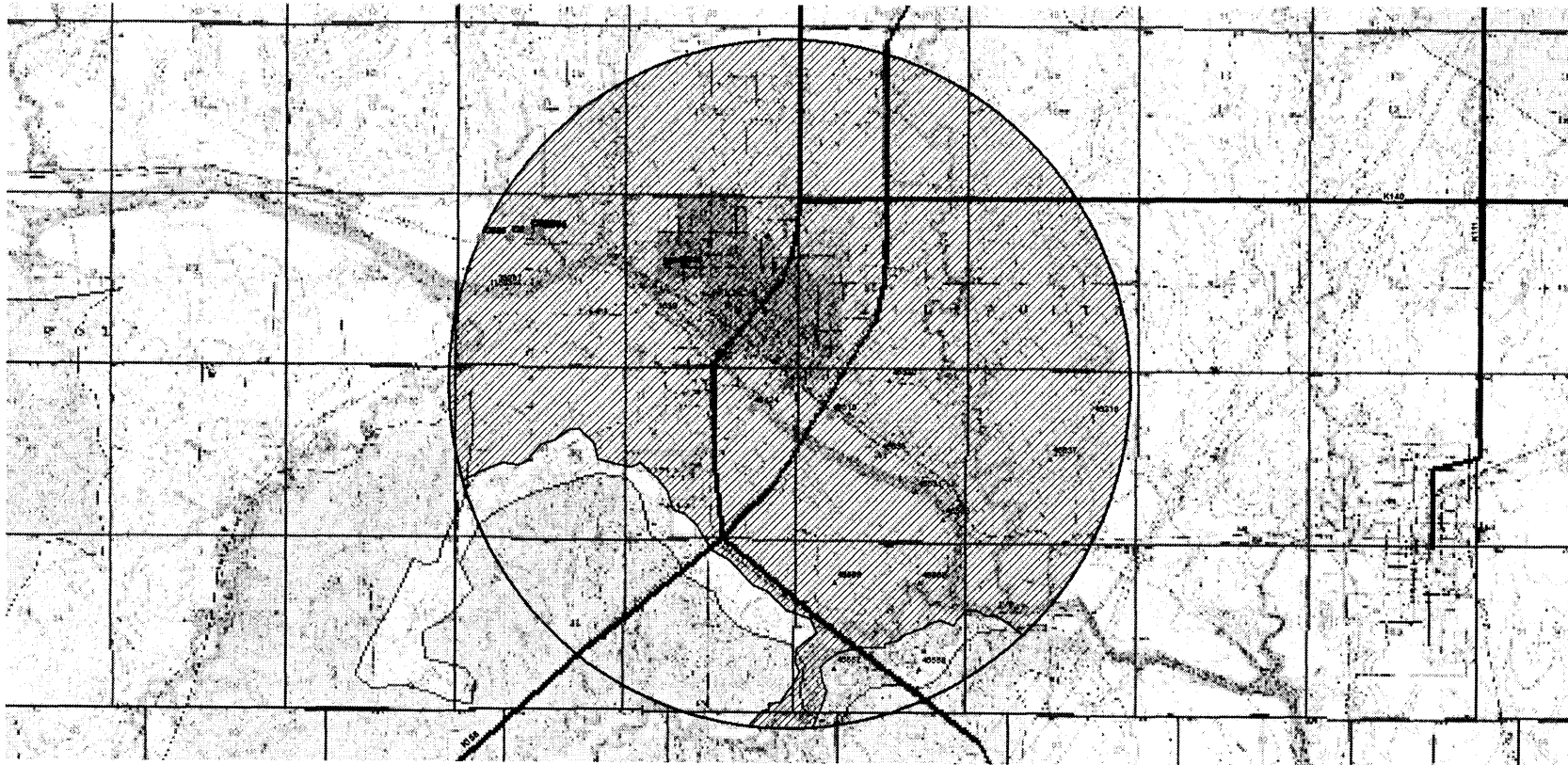
File Number	Use	ST	SR	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Qind	Auth_Quant	Add_Quant	Tacres	Nacres
A 12885 00	MUN	NK	G					3000	4100	20	15	08W	1	PD	30.80	16.62		
Same	MUN	NK	G		SE	NE	NW	4140	3120	19	15	08W	2	PD	128.86	68.21		
Same	MUN	NK	G					3000	3720	20	15	08W	2	PD	36.68	19.79		
Same	MUN	NK	G		CN	SW	NW	3880	4530	19	15	08W	3	PD	154.17	83.16		
Same	MUN	NK	G		NW	SE	NW	3930	3620	19	15	08W	4	PD	130.30	69.99		
Same	MUN	NK	G		SE	NE	NW	4100	2680	19	15	08W	1	PD	26.83	14.48		
A 38775 00	MUN	NK	G		SE	NE	NW	4100	2680	19	15	08W	1	WR	139.94	29.15		
A 38776 00	MUN	NK	G					3000	4100	20	15	08W	1	WR	141.21	0.00		
A 49424 00	MUN	AY	G				NE	3960	1320	29	15	08W	1	WR	499.92	499.92		
A 49510 00	MUN	AY	G		NE	SW	NW	3836	4183	28	15	08W	7	WR	499.92	499.92		
V EW 2 00	MUN	AA	G					3000	4100	20	15	08W	1	WR	184.13	184.13		
Same	MUN	AA	G		SE	NE	NW	4140	3120	19	15	08W	2	WR				
Same	MUN	AA	G					3000	3720	20	15	08W	2	WR				
Same	MUN	AA	G		CN	SW	NW	3880	4530	19	15	08W	3	WR				
Same	MUN	AA	G		NW	SE	NW	3930	3620	19	15	08W	4	WR				
Same	MUN	AA	G		SE	NE	NW	4100	2680	19	15	08W	1	WR				

> Pending

Vested Right, EW-2 has 7 wells authorized, with Blanket Quantity of 184.13 AF or 26.3 acre-feet perwell if equally distributed. 1 of the wells is located outside of 2 mile circle.

#49,424

Safe Yield Report Sheet
Proposed Water Right Application
Point of Diversion in SENENE 29-15S-08W
File No. 49,424 (4,746'N & 201'W)



Schemm, Doug

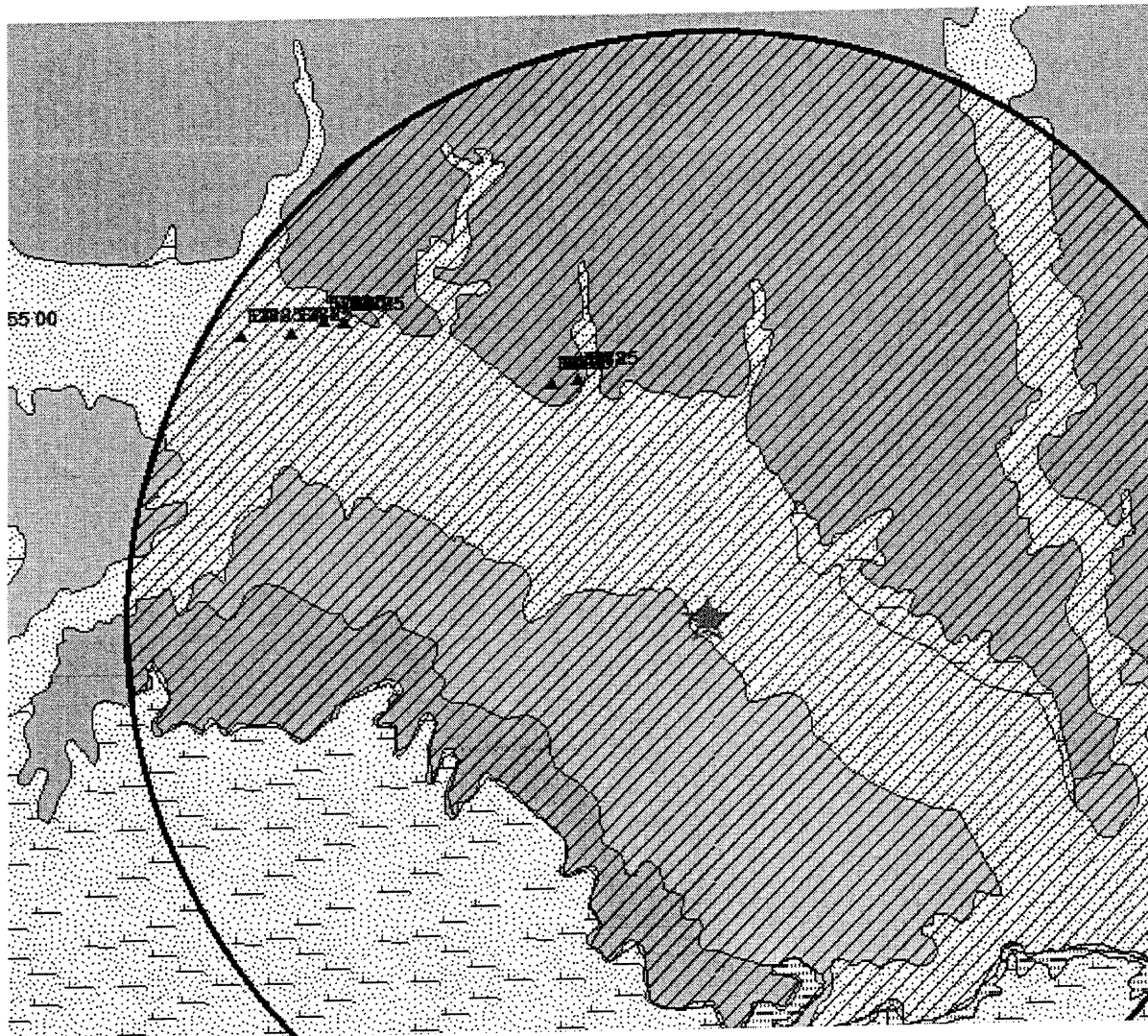
From: Stewart, Kelly
Sent: Wednesday, June 22, 2016 11:21 AM
To: Schemm, Doug
Cc: Billinger, Mark
Subject: RE: City of Ellsworth, File Nos. 49,424 and 49,510

Doug,

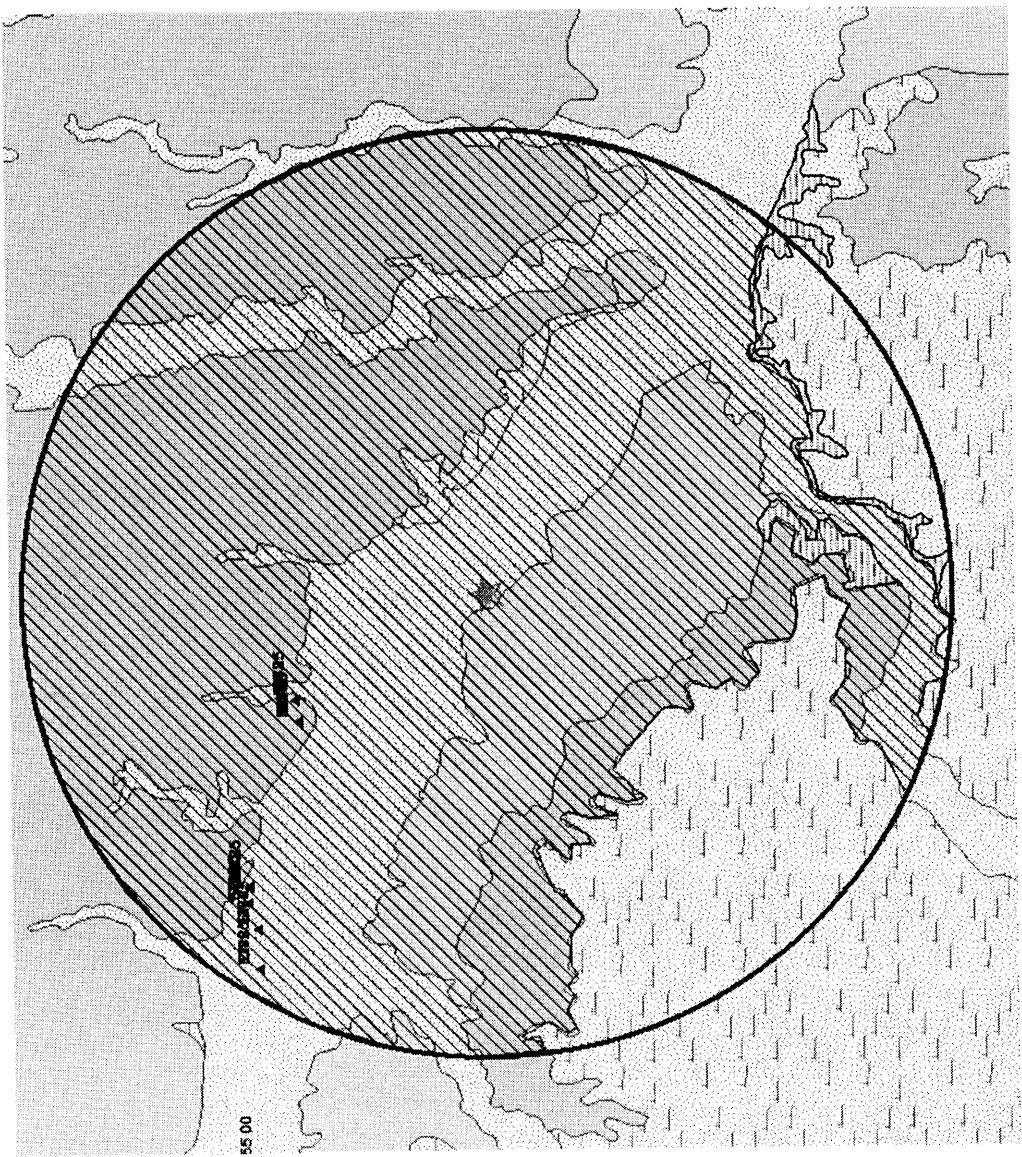
Took a look at the area of consideration using the historical geology map shape file that Mark found somewhere. It looks like we could expand the alluvial/terrace deposit area to about 6537 acres. I do question a little how we define the "area of consideration" given they appear to be tapping into the top of the Dakota Formation. * Per discussion

Kelly

*with Scott Ross - source will be
alluvium.
DWS 10wR
7/12/16*



From: Schemm, Doug
Sent: Wednesday, June 22, 2016 9:34 AM
To: Stewart, Kelly <Kelly.Stewart@KDA.KS.GOV>



Water Rights and Points of Diversion Within 2.00 miles of point defined as:
 4746 ft N and 201 ft W of the SE Corner of Section 29, T 15S, R 8W
 Located at: 98.225573 West Longitude and 38.724136 North Latitude
 GROUNDWATER ONLY

*meets spacing
 > 1,320'*

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit
A__ 12885 00	MUN	NK	G	9044	--	SE	NE	NW	4100	2680	19	15	8W	1		26.83	14.48	AF
Same				9445	--	SE	NE	NW	4140	3120	19	15	8W	2		126.43	68.21	AF
Same				9788	--	NW	SE	NW	3930	3620	19	15	8W	4		130.30	70.30	AF
Same				5219	--	--	--	--	3000	4100	20	15	8W	1		30.80	16.62	AF
Same				4946	--	--	--	--	3000	3720	20	15	8W	2		36.68	19.79	AF
A__ 38775 00	MUN	MM	G	9044	--	SE	NE	NW	4100	2680	19	15	8W	1		142.27	142.27	AF
A__ 38776 00	MUN	MM	G	5219	--	--	--	--	3000	4100	20	15	8W	1		142.27	142.27	AF
A__ 49424 00	MUN	AY	G	1367	--	--	--	NE	3960	1320	29	15	8W	1		499.92	499.92	AF
A__ 49510 00	MUN	AY	G	1636	--	NE	SW	NW	3836	4183	28	15	8W	7		499.92	499.92	AF
T_20099080 00	CON	GY	G	4069	--	SW	SW	NE	3150	2000	20	15	8W	5		16.00	16.00	AF
VEW 2 00	MUN	AA	G	9044	--	SE	NE	NW	4100	2680	19	15	8W	1		184.13	184.13	AF
Same				9445	--	SE	NE	NW	4140	3120	19	15	8W	2				
Same				9788	--	NW	SE	NW	3930	3620	19	15	8W	4				
Same				5219	--	--	--	--	3000	4100	20	15	8W	1				
Same				4946	--	--	--	--	3000	3720	20	15	8W	2				

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	999.84	.00
Total Permitted Amount (AF) =	16.00	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	284.55	.00
Total Certified Amount (AF) =	189.40	.00
Total Vested Amount (AF) =	184.13	.00
TOTAL AMOUNT (AF) =	1673.93	.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:
 98.225573 West Longitude and 38.724136 North Latitude
 GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
A__ 12885 00	MUN	NK	G
>	CITY OF ELLSWORTH		
>	PO BOX 163		
>	ELLSWORTH KS 67439		

A__ 38775 00	MUN	MM	G
>	CITY OF ELLSWORTH		
>	PO BOX 163		
>	ELLSWORTH KS 67439		

>-----
A__ 38776 00 MUN MM G
> CITY OF ELLSWORTH
>
> PO BOX 163
> ELLSWORTH KS 67439
>-----

A__ 49424 00 MUN AY G
> CITY OF ELLSWORTH
>
> PO BOX 163
> ELLSWORTH KS 67439
>-----

A__ 49510 00 MUN AY G
> CITY OF ELLSWORTH
>
> PO BOX 163
> ELLSWORTH KS 67439
>-----

T__20099080 00 CON GY G
> CASHCO INC
>
> 607 W 15TH ST
> ELLSWORTH KS 67439
>-----

VEW 2 00 MUN AA G
> CITY OF ELLSWORTH
>
> PO BOX 163
> ELLSWORTH KS 67439
>-----

=====



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

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

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

August 9, 2016

MARVIN BUSH
202 BLAINE ST
ELLSWORTH KS 67439

Re: Pending Applications, File Nos. 49,424 and 49,510

Dear Mr. Bush:

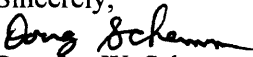
This will acknowledge receipt of your letter received in our office on July 25, 2016, and our subsequent telephone discussion on August 8, 2016, regarding your concerns with the proposed appropriations of groundwater for municipal use by the City of Ellsworth, under the above referenced applications. We are in the process of thoroughly reviewing these applications to ensure that they comply with the Kansas Water Appropriations Act and applicable rules and regulations. The Chief Engineer is required to approve applications for water appropriations unless the proposed appropriation will impair existing water rights or prejudicially and unreasonably affect the public interest per K.S.A. 82a-711.

The applicable rules and regulations (K.A.R. 5-4-4) require that new non-domestic wells must meet specific spacing guidelines based on the source of water supply in order to minimize the potential that existing water wells of any kind would be impaired. The source of water (aquifer) for these pending applications is the Smoky Hill River alluvium based on the geographical location of the proposed wells, and nearby well logs. This aquifer requires a minimum well spacing of 660 feet from any existing domestic well in the same source of supply. Our review indicates that the proposed well locations comply with minimum well spacing criteria to your domestic well.

Your comments will be considered, and approval of the applications if granted, will authorize diversion of water only when it does not impair existing rights. Additionally, the rules and regulations (K.A.R. 5-4-1) require the Chief Engineer to investigate any complaint that a prior right to the use of water is being impaired. If such impairment is found, the Chief Engineer must secure water to satisfy prior water rights. Therefore, if these permit applications are approved by the Chief Engineer and you believe the diversion of water is impairing your existing water right, you should notify Kelly Stewart, Water Commissioner, Stockton Field Office, as follows, so that an investigation can be made.

Division of Water Resources
Stockton Field Office
820 S Walnut St
Stockton, KS 67669
Telephone: (785) 425-6787

If an applicant without cause fails to comply with the provisions of the permit and its terms, conditions and limitations, it could result in the forfeiture of the priority date, revocation of the permit and dismissal of the application. If you have any further questions, please contact me at 785-296-3495. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

Office of the Chief Engineer
Division of Water Resources
Kansas Dept. of Agriculture
1320 Research Park Drive
Manhattan, Ks. 66502

July 19, 2016

RECEIVED

AUG 01 2016

Topeka Field Office
DIVISION OF WATER RESOURCES

Re: Applications, File No. 49,424 & 49,510

To Whom It May Concern:

We live in the southeast edge of Ellsworth, in Block 6, Rice's First Addition to the City of Ellsworth. We have a water well and are concerned what would happen to our water supply if the city drills water wells in our area.

Thank you for considering our concern in this matter.

Sincerely,

Marvin & Bernita Bush
202 Blaine St.
Ellsworth, Ks. 67439
Ph. 785-472-4274
e-mail – mbbush@eaglecom.net

WATER RESOURCES
RECEIVED

JUL 25 2016

KS DEPT OF AGRICULTURE

SCANNED



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

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

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

August 1, 2016

MARVIN BUSH
202 BLAINE ST
ELLSWORTH KS 67439

Re: Pending Applications, File Nos. 49,424 and 49,510

Dear Sir or Madam:

This is to advise you that the City of Ellsworth has filed the applications referred to above for permits to appropriate groundwater for municipal use. Application, File No. 49,424 is requesting 104.79 million gallons to be diverted at a maximum rate of 800 gallons per minute. Application, File No. 49,510 is requesting 162.9 million gallons to be diverted at a maximum rate of 800 gallons per minute.

For File No. 49,424, the geographic center of the well battery is located in the Northeast Quarter of the Northeast Quarter of the Northeast Quarter of Section 29, in Township 15 South, Range 8 West, Ellsworth County, Kansas.

For File No. 49,510, the geographic center of the well battery is located in the Northeast Quarter of the Southwest Quarter of the Northwest Quarter of Section 28, in Township 15 South, Range 8 West, Ellsworth County, Kansas.

A map is enclosed indicating the locations of the proposed points of diversion. Records in this office indicate that you may have a well or wells in this vicinity and you are being notified of receipt of these applications in order that you may be fully informed of the proposed locations of the applicant's points of diversion and proposed use of water. Consideration will be given to comments or other information which you desire to submit to this office **within 15 days** from the date of this letter.

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

Sincerely,

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

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

Enclosure

pc: City of Ellsworth
Scott Ross



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

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

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

August 1, 2016

ROBERT BLACKBURN
701 E 1ST STREET
ELLSWORTH KS 67439

Re: Pending Applications, File Nos. 49,424 and 49,510

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Sincerely,

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

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

Enclosure

pc: City of Ellsworth
Scott Ross



LAW OFFICES
SHERMAN, HOFFMAN & HIPPI, LC
126 North Douglas
Mailing Address: P. O. Box 83
Ellsworth, Kansas 67439-0083

John Sherman
Gregory R. Hoffman
Carey Hipp
Patrick G. Hoffman

TELEPHONE: 785-472-3186
FAX: 785-472-4767

July 7, 2015

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

Dear Chief Engineer:

Please find enclosed an Application for Permit to Appropriate Water for Beneficial Use for your review. Along with this permit is a check in the amount of \$340.00 and a copy of the temporary easement agreement the City of Ellsworth has entered into with the current landowner.

Please let me know if you have any questions or concerns.

Thank you for your cooperation.

Sincerely,

Carey Hipp
Sherman, Hoffman & Hipp, LC
chipp@shhlawyers.com

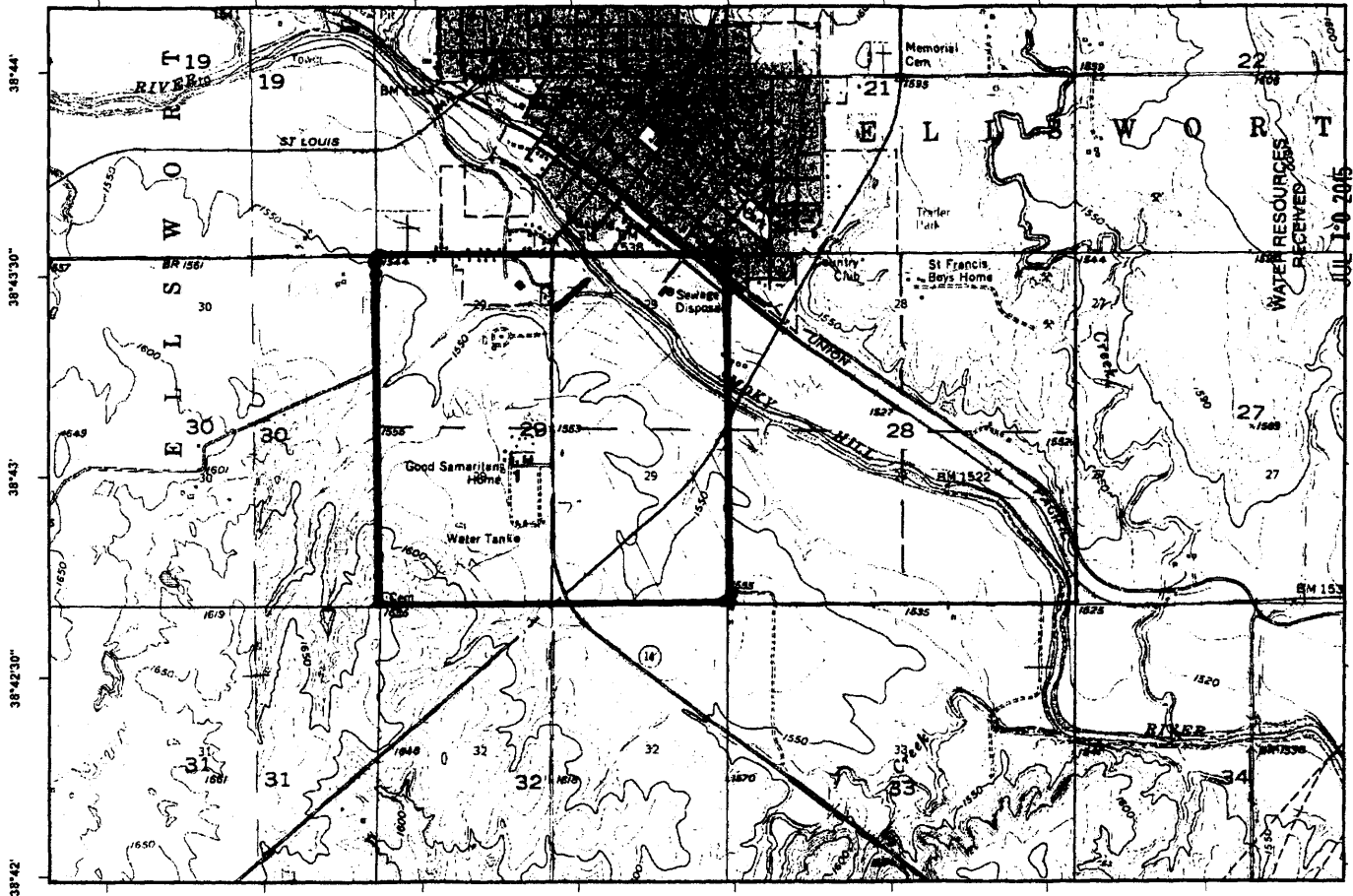
CH/hw

WATER RESOURCES
RECEIVED

JUL 10 2015

KS DEPT OF AGRICULTURE

98°15'30" 98°15' 98°14'30" 98°14' 98°13'30" 98°13' 98°12'30" 98°12'



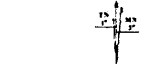
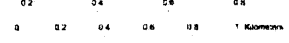
WATER RESOURCES RECEIVED
JUL 10 2015

KS DEPT OF AGRICULTURE

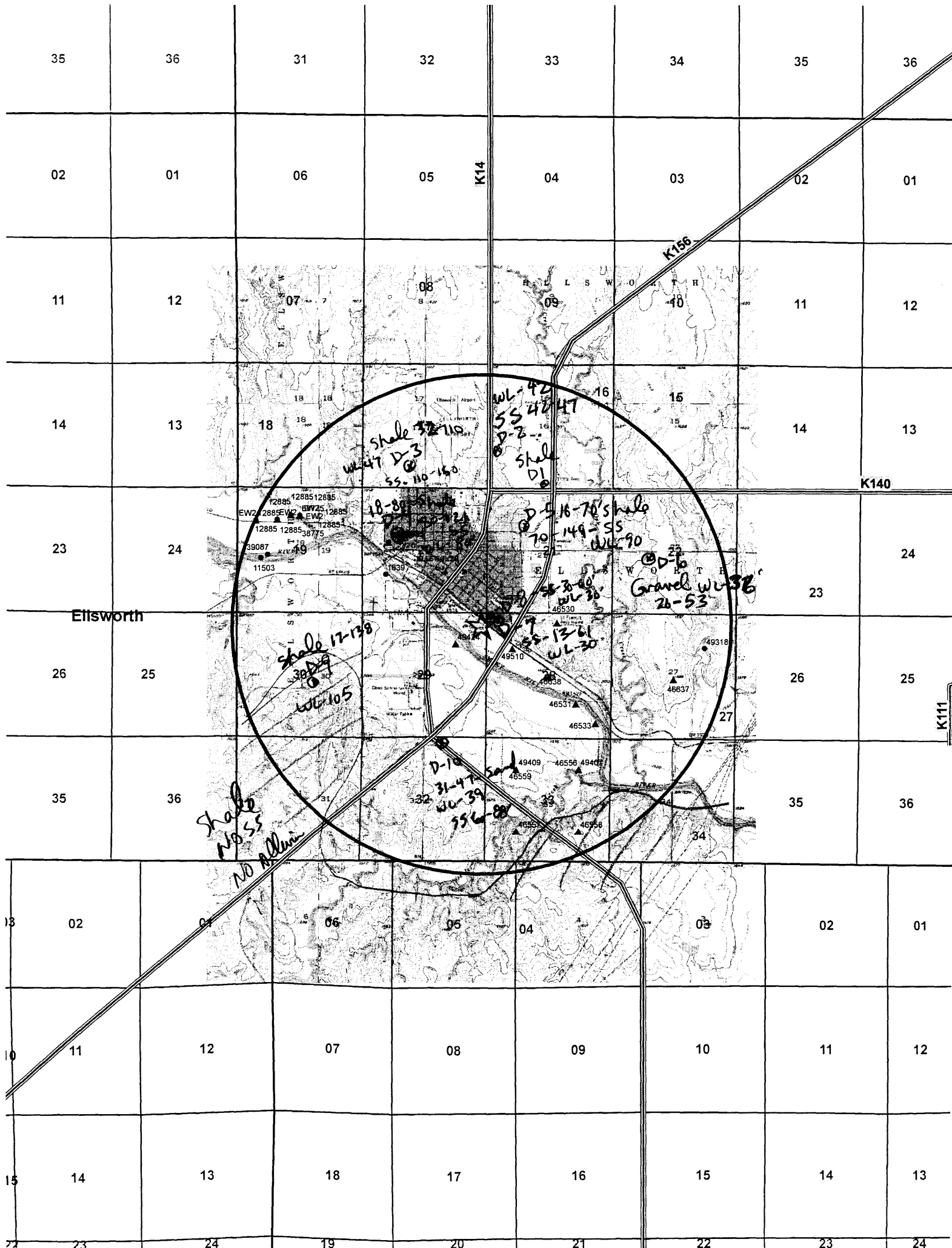
98°15'30" 98°15' 98°14'30" 98°14' 98°13'30" 98°13' 98°12'30" 98°12'

Universal Transverse Mercator (UTM) Projection Zone 14
North American Datum of 1983

1:24000 scale



Magnetic declination of 31' at center of map
on March 17, 2011



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16

WL-42
SS 42-47
D-2
Shale D1

K156

15

14

13

23

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18

18

18

16

D-4 16-70 shale
70-149-SS
WL-90
D-10
Gravel WL 32
26-53

K140

23

24

24

Ellsworth

26

25

Shale 12-138
30-39
WL-105

27

D-10
31-47
WL-39
356-88

27

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Shale No SS
NO Alluvium

35

49409 46556 49408
46559
46558
46557

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K111

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D-1

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

1 LOCATION OF WATER WELL: County: Ellsworth	Fraction ¼ SE ¼ SE ¼ SW ¼	Section Number 16	Township No. T 15 S	Range Number R 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
--	------------------------------	----------------------	------------------------	--

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here .
Downtown Ellsworth, KS

Global Positioning System (GPS) information:
Latitude: (in decimal degrees)
Longitude: (in decimal degrees)
Elevation:
Datum: WGS 84, NAD 83, NAD 27
Collection Method:
 GPS unit (Make/Model:)
 Digital Map/Photo, Topographic Map, Land Survey
Est. Accuracy: <3 m, 3-5 m, 5-15 m, >15 m

2 WATER WELL OWNER: First Bank of Kansas
RR#, Street Address, Box #: P O Box 1337
City, State, ZIP Code : Salina, KS 67401

3 LOCATE WELL WITH AN "X" IN SECTION BOX:
N
W E
S
----- 1 mile -----

4 DEPTH OF COMPLETED WELL: 166 ft.
Depth(s) Groundwater Encountered (1) 54 ft. (2) ft. (3) ft.
WELL'S STATIC WATER LEVEL: 54 ft. below land surface measured on mo/day/yr. 07/21/11
Pump test data: Well water was ft. after hours pumping gpm
EST. YIELD: 15 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: Public water supply Geothermal Injection well
 Domestic Feedlot Oil field water supply Dewatering Other (Specify below)
 Irrigation Industrial Domestic-lawn & garden 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 CASING USED: Steel PVC Other
CASING JOINTS: Glued Clamped Welded Threaded
Casing diameter .5 in. to .86 ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface .12 in., Weight 2.8 lbs./ft., Wall thickness or gauge No. Sch. 40
TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel PVC Other (Specify)
 Brass Galvanized Steel None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
 Continuous slot Mill slot Gauze wrapped Torch cut Drilled holes None (open hole)
 Louvered shutter Key punched Wire wrapped Saw cut Other (specify)
SCREEN-PERFORATED INTERVALS: From .86 ft. to .166 ft., From ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From .30 ft. to .166 ft., From ft. to ft.
From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: Neat cement Cement grout Bentonite 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:
 Septic tank Lateral lines Pit privy Livestock pens Insecticide storage Other (specify below)
 Sewer lines Cesspool Sewage lagoon Fuel storage Abandoned water well
 Watertight sewer lines Seepage pit Feedyard Fertilizer storage Oil well/gas well bank building
Direction from well East Distance from well .85

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	top soil			
2	15	clay			
15	27	sand and gravel			No water
27	80	shale			
80	166	shale with sand rock streaks			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/year) 07/21/11 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 186 This Water Well Record was completed on (mo/day/year) 07/26/11 under the business name of Kelly's Water Well Service, Inc. by (signature) Kathryn A. Good

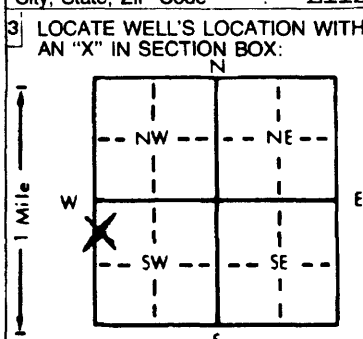
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas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

D-2

1 LOCATION OF WATER WELL: County: Ellsworth Fraction: NW 1/4 NW 1/4 SW 1/4 Section Number: 16 Township Number: T 15 S Range Number: R 8

Distance and direction from nearest town or city street address of well if located within city?
1/2 Mile North of Ellsworth, KS

2 WATER WELL OWNER: Ellsworth Correctional Facility
 RR#, St. Address, Box #: Box 107 Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: Ellsworth, KS 67439 Application Number:



4 DEPTH OF COMPLETED WELL: 145 ft. ELEVATION:
 Depth(s) Groundwater Encountered: 1. 42 ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL: 42 ft. below land surface measured on mo/day/yr 12-27&28-90
 Pump test data: Well water was ft. after hours pumping gpm
 Est. Yield: 12 gpm: Well water was 140 ft. after 3 hours pumping gpm
 Bore Hole Diameter: 8 in. to 15.1 ft., and in. to ft.
 WELL WATER TO BE USED AS:
 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well
 Was a chemical/bacteriological sample submitted to Department? Yes No: X If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes X No

5 TYPE OF BLANK CASING USED:
 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 120 ft., Dia in. to ft.
 Casing height above land surface: 12 in., weight 2.37 lbs./ft. Wall thickness or gauge No. 214
 TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless steel 5 Fiberglass 7 PVC 10 Asbestos-cement
 2 Brass 4 Galvanized steel 6 Concrete tile 8 RMP (SR) 11 Other (specify)
 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify)
 SCREEN-PERFORATED INTERVALS: From 120 ft. to 145 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 25 ft. to 145 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 25 ft., From ft. to ft., From ft. to ft.
 What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage
 Direction from well? South How many feet? 150 ft

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	2	Silty Top Soil	126	127	Limestone (hard)
2	3	Fine Sand	127	135	Gray Shale
3	5	Silty Brown Clay	135	150	Sandstone (hard)
5	11	Tan Clay	150	151	Limestone (very Hard)
11	29	Fine to Medium Sand			
29	37	Sandstone			
37	40	Limestone (Hard)			
40	42	Gray Shale			
42	47	Sandstone			
47	78	Gray Shale			
78	79	Limestone			
79	83	Sandstone			
83	105	Gray Shale			
105	115	Sandstone (hard)			
115	126	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) 12-28-90 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 138 This Water Well Record was completed on (mo/day/yr) 1-19-91 under the business name of Peterson Irrigation, Inc. by (signature) Mike Peterson

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 66620-7320. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY
T
R
EW
SEC

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

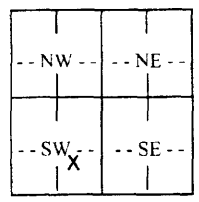
D-3

1 LOCATION OF WATER WELL: County: Ellsworth	Fraction NE ¼ SE ¼ SW ¼	Section Number 17	Township Number T 15 S	Range Number R 8w E/W
---	----------------------------	-----------------------------	---------------------------	--------------------------

Distance and direction from nearest town or city street address of well if located within city?
1N of Ellsworth, KS

2 WATER WELL OWNER: Donald Soukup
RR#, St. Address, Box # : 139 W. 15th St.
City, State, ZIP Code : Ellsworth, KS 67439

Global Positioning Systems (decimal degrees, min. of 4 digits)
Latitude: _____
Longitude: _____
Elevation: _____
Datum: _____
Data Collection Method: _____

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: N  S	4 DEPTH OF COMPLETED WELL <u>151</u> ft. Depth(s) Groundwater Encountered (1)..... <u>47</u> ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL..... <u>47</u> ft. below land surface measured on mo/day/yr. <u>06/10/09</u> . Pump test data: Well water was..... ft. after..... hours pumping..... gpm Est. Yield... <u>12</u> ...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 <u>1 Domestic</u> 3 Feedlot 6 Other (Specify below) 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 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 111 ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface..... 12 in., Weight 2.8 lbs./ft. Wall thickness or gauge No. Sch. 40.....

TYPE OF SCREEN OR PERFORATION MATERIAL:
1 Steel 3 Stainless Steel 5 Fiberglass 7 PVC 9 ABS 11 Other (Specify)
2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)

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

SCREEN-PERFORATED INTERVALS: From..... 111 ft. to 151 ft., From ft. to ft.
From..... ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From..... 36 ft. to 151 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 ...36..... ft., From ft. to ft., From ft. to ft.

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

Direction from well? East How many feet? 50.....

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	1	top soil			
1	6	clay			
6	32	sand and gravel with clay streaks			
32	110	shale			
110	151	sand rock streaks with shale			
		rock bottom			

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) 06/19/09..... and this record is true to the best of my knowledge and belief.
Kansas Water Well Contractor's License No.186..... This Water Well Record was completed on (mo/day/year) 06/22/09.....
under the business name of Kelly's Water Well Service, Inc. by (signature) Kathryn L. Good

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

1 LOCATION OF WATER WELL: County: Ellsworth	Fraction NE 1/4 SW 1/4 NW 1/4	Section Number 20	Township Number T 15 S	Range Number R 8 W E/W
---	---	-----------------------------	----------------------------------	----------------------------------

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

2 WATER WELL OWNER: **USD 327**
 RR#, St. Address, Box # : **P.O. Box 306**
 City, State, ZIP Code : **Ellsworth, Kansas 67439**
 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: 121 ft. ELEVATION: Unknown
--	---

Depth(s) Groundwater Encountered 1. **80** ft. 2. ft. 3. ft.

WELL'S STATIC WATER LEVEL **80** ft. below land surface measured on mo/day/yr **7/13/95**

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

Est. Yield **3** gpm: Well water was ft. after hours pumping gpm

Bore Hole Diameter **7.7/8** in. to **121** 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 **61** ft., Dia in. to ft., Dia in. to ft.

Casing height above land surface **12** in., weight **2.8** lbs./ft. Wall thickness or gauge No. **Sch. 40**

TYPE OF SCREEN OR PERFORATION MATERIAL:

1 Steel	3 Stainless steel	5 Fiberglass	7 PVC	10 Asbestos-cement
2 Brass	4 Galvanized steel	6 Concrete tile	8 RMP (SR)	11 Other (specify)
			9 ABS	12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:

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

SCREEN-PERFORATED INTERVALS: From **61** ft. to **121** ft., From ft. to ft.

GRAVEL PACK INTERVALS: From **20** ft. to **121** ft., From ft. to ft.

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

Grout Intervals: From **0** ft. to **20** 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	Football Practice Field

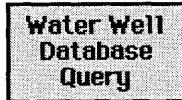
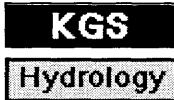
Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	5	Top soil			
5	18	Sand and gravel			
18	80	Shale			
80	121	Sand rock streaks			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) **7/13/95** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **186** This Water Well Record was completed on (mo/day/yr) **7/17/95** under the business name of **Kelly's Water Well Service, Inc** by (signature) *Doris Good*

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
E/W
SEC



Scan of WWC5 Form

D-1

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No.

1 LOCATION OF WATER WELL: Fraction		Section Number		Township Number		Range Number	
County: Ellsworth NW ¼ NW ¼ NW ¼		28		T 15 S		R 8 E/W	
Distance and direction from nearest town or city street address of well # located within city? 202 Blaine Ellsworth, Ks 67439							
2 WATER WELL OWNER: Marvin Rush				Board of Agriculture, Division of Water Resources			
RR#, St. Address, Box #: 202 Blaine				Application Number:			
City, State, ZIP Code: Ellsworth, Ks. 67439							
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:				4 DEPTH OF COMPLETED WELL: 51 ft. ELEVATION:			
				Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.			
				WELL'S STATIC WATER LEVEL: 30 ft. below land surface measured on (mo/day/yr) 8-15-02			
Pump test data: Well water was ft. after hours pumping gpm				Est. Yield: NA gpm; Well water was ft. after hours pumping gpm			
Bore Hole Diameter: 3 7/8 in. to 61 ft., and in. to ft.				WELL WATER TO BE USED AS:			
1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)				5 Public water supply 8 Air conditioning 11 Injection well			
2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well							
Was a chemical/bacteriological sample submitted to Department? Yes. No. <input checked="" type="checkbox"/> If yes, (mo/day/yr) sample was submitted							
Water Well Disinfected? Yes <input checked="" type="checkbox"/> No							
5 TYPE OF BLANK CASING USED:							
1 Steel 3 RMP (SR)		5 Wrought iron 8 Concrete tile		CASING JOINTS: Glued <input checked="" type="checkbox"/> Clamped			
2 PVC 4 ABS		6 Asbestos-Cement 9 Other (specify below)		Welded			
Blank casing diameter: 5 in. to 41 ft., Dia. 0 in. to ft., Dia. in. to ft.		7 Fiberglass		Threaded			
Casing height above land surface: 24 in., weight: SDR-26 lbs./ft. Wall thickness or gauge No.							
TYPE OF SCREEN OR PERFORATION MATERIAL:							
1 Steel 3 Stainless steel 5 Fiberglass 7 PVC 10 Asbestos-cement		2 Brass 4 Galvanized steel 6 Concrete tile 8 RMP (SR)		11 Other (specify)			
2 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) ft.			
SCREEN-PERFORATED INTERVALS: From . 61 ft. to . 41 ft., From ft. to ft.							
GRAVEL PACK INTERVALS: From . 61 ft. to . 20 ft., From ft. to ft.							
6 GROUT MATERIAL: 1 Mortar cement 2 Cement grout 3 Bentonite 4 Other hole plug							
Grout intervals: From . 20 ft. to . 0 ft., From ft. to ft.							
What is the nearest source of possible contamination:							
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)		10 Livestock pens 14 Abandoned water well			
3 Watertight sewer lines 6 Seepage pit 9 Feedyard 13 Insecticide storage house							
Direction from well? North How many feet? 30							
FROM TO LITHOLOGIC LOG		FROM TO PLUGGING INTERVALS					
0 3 top soil							
3 5 sand and gravel							
5 13 fire clay							
13 15 Ironated sand stone							
15 61 sand stone							
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 8-15-02 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No. 134 This Water Well Record was completed on (mo/day/yr) 8-20-02 under the business name of Rosenkrantz-Semis by (signature) <i>Richard Dutton</i>							
INSTRUCTIONS: Use typewriter or ballpoint pen. PLEASE PRESS DEEPLY 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 66605-0001. Telephone 785-290-3524. Send one to WATERWELL, COWNE & retain one for your records. Fee of \$5.00 for each constructed well.							

Kansas Geological Survey
Comments to webadmin@kgs.ku.edu

URL=<http://www.kgs.ku.edu/Magellan/WaterWell/index.html>
Display Programs Updated July 2, 2014
Data added continuously.



9-8

WATER WELL RECORD Form WWC-5 1096825

Division of Water Resources App. No.

Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Ellsworth	Fraction NW ¼ NW ¼ NW ¼ NW ¼	Section Number 28	Township Number T 15 S	Range Number R 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
---	---------------------------------	----------------------	---------------------------	--

2 WELL OWNER: Last Name: Blackburn First: Robert
 Business: _____
 Address: 701 East 1st Street
 Address: _____
 City: Ellsworth State: KS ZIP: 67439
 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here:

3 LOCATE WELL WITH "X" IN SECTION BOX:

N

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

|-----1 mile-----|

4 DEPTH OF COMPLETED WELL: 63 ft.
 Depth(s) Groundwater Encountered: 1) 30 ft.
 2) ft. 3) ft., or 4) Dry Well
 WELL'S STATIC WATER LEVEL: 30 ft.
 below land surface, measured on (mo-day-yr) 08/17/2012
 above land surface, measured on (mo-day-yr)
 Pump test data: Well water was ft.
 after hours pumping gpm
 Well water was ft.
 after hours pumping gpm
 Estimated Yield: 40 gpm
 Bore Hole Diameter: 10 in. to 63 ft. and
 in. to ft.

5 Latitude: 38.725544 (decimal degrees)
Longitude: 98.224129 (decimal degrees)
 Datum: WGS 84 NAD 83 NAD 27
 Source for Latitude/Longitude:
 GPS (unit make/model: Garmin etrex)
 (WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: 1540 ft. Ground Level TOC
 Source: Land Survey GPS Topographic Map
 Other KOLAR

7 WELL WATER TO BE USED AS:

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

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

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded
 Casing diameter 6 in. to 63 ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface 12 in. Weight lbs./ft. Wall thickness or gauge No. SCH40

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

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

SCREEN-PERFORATED INTERVALS: From 40 ft. to 63 ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 20 ft. to 63 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other
 Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify) House
 Direction from well? S Distance from well? 50 ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	7	Top Soil			
7	30	Grav Shale			
30	60	Sandstone			
60	63	Grav Shale			
Notes:					

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 08/17/2012 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 760 This Water Well Record was completed on (mo-day-year) 10/10/2012 under the business name of Associated Drilling, Inc.

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No. D-9

1 LOCATION OF WATER WELL: County: Ellsworth		Fraction NW ¼ NW ¼ SE ¼	Section Number 30	Township Number T 15 S	Range Number R 8W E/W														
Distance and direction from nearest town or city street address of well if located within city? 1/2W of Ellsworth, KS			Global Positioning Systems (decimal degrees, min. of 4 digits) Latitude: _____ Longitude: _____ Elevation: _____ Datum: _____ Data Collection Method: _____																
2 WATER WELL OWNER: David Bircher RR#, St. Address, Box # : 1246 14th Road City, State, ZIP Code : Ellsworth, KS 67439																			
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: N <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td>--NW--</td><td>X</td><td>--NE--</td></tr> <tr><td>W</td><td> </td><td>E</td></tr> <tr><td>--SW--</td><td> </td><td>--SE--</td></tr> <tr><td> </td><td>S</td><td> </td></tr> </table>				--NW--	X	--NE--	W		E	--SW--		--SE--		S		4 DEPTH OF COMPLETED WELL 138 ft. Depth(s) Groundwater Encountered (1)..... 105 ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL..... 105 ft. below land surface measured on mo/day/yr. 05/19/06 Pump test data: Well water was.....ft. after..... hours pumping..... gpm Est. Yield.....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			
--NW--	X	--NE--																	
W		E																	
--SW--		--SE--																	
	S																		
5 TYPE OF CASING USED: 5 Wrought Iron 8 Concrete tile CASING JOINTS: <u>Glued</u> 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 98 ft., Diameter, in. to ft., Diameter in. to ft. Casing height above land surface..... 12 in., Weight... 2.8 lbs./ft. Wall thickness or gauge No. Sch. 40 TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless Steel 5 Fiberglass <u>7 PVC</u> 9 ABS 11 Other (Specify) 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 3 Mill slot 5 Guazed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped <u>8 Saw Cut</u> 10 Other (specify) SCREEN-PERFORATED INTERVALS: From..... 98 ft. to 138 ft., From ft. to ft. From..... ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From..... 20 ft. to 138 ft., From ft. to ft. From..... ft. to ft., From ft. to ft.																			
6 GROUT MATERIAL: 1 Neat cement 2 Cement grout <u>3 Bentonite</u> 4 Other Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft. What is the nearest source of possible contamination: 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide Storage 16 Other (specify below) 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well house..... Direction from well? <u>Southwest</u> How many feet? <u>120</u>																			
FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS														
0	1	top soil																	
1	5	clay																	
5	17	sand rock																	
17	95	shale																	
95	138	shale with sand rock streaks																	

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) 05/19/06 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 186. This Water Well Record was completed on (mo/day/year) 05/23/06 under the business name of Kelly's Water Well Service, Inc. by (signature) Kathryn R. Hood

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

D-10

1 LOCATION OF WATER WELL
 County: Ellsworth Fraction: NW 1/2 NE 1/4 NE 1/4 Section Number: ##32 Township Number: T 15 S Range Number: R 8 EW

Distance and direction from nearest town or city: Hy. 156 + Hy. 14 Street address of well if located within city?
Ellsworth, Kansas 38-1E

2 WATER WELL OWNER: Ilus Industries Inc.
 RR#, St. Address, Box #: Kanopolis, Kansas 67454 Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: Application Number:

3 DEPTH OF COMPLETED WELL: 88 ft. Bore Hole Diameter: 9 in. to 15 ft., and 7 in. to 88 ft.
 Well Water to be used as:
 1 Domestic 3 Feedlot 5 Public water supply 8 Air conditioning 11 Injection well
 2 Irrigation 4 Industrial 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 7 Lawn and garden only 10 Observation well
 Well's static water level: 39 ft. below land surface measured on 7 month 6 day 1977 year
 Pump Test Data: Bailed Well water was X ft. after hours pumping. gpm
 Est. Yield: 12 gpm. Well water was ft. after hours pumping. gpm

4 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile Casing Joints: Glued Clamped Welded Threaded
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below)
 7 Fiberglass
 Blank casing dia: 5 1/2 in. to 60 ft., Dia in. to ft., Dia in. to ft.
 Casing height above land surface: 18 in., weight lbs./ft. Wall thickness or gauge No: .250 in.

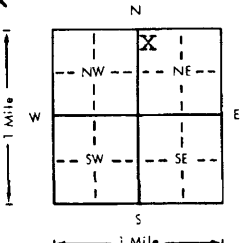
TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify)
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)

Screen or Perforation Openings Are:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes 10 Other (specify)

Screen-Perforation Dia: 5 1/2 in. to 88 ft., Dia in. to ft., Dia in. to ft.
 Screen-Perforated Intervals: From 60 ft. to 88 ft., From ft. to ft., From ft. to ft.
 Gravel Pack Intervals: From 50 ft. to 88 ft., From ft. to ft., From ft. to ft.

5 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other
 Grouted Intervals: From 5 ft. to 15 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)
Natural Gas Pipeline
 Direction from well: E How many feet: 80? Water Well Disinfected? Yes X No
 Was a chemical/bacteriological sample submitted to Department? Yes No X If yes, date sample was submitted month day year: Pump Installed? Yes No
 If 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

6 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on 7 month 6 day 1977 year and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 157
 This Water Well Record was completed on 6 month 28 day 1981 year under the business name of Boeken & Burrows Water Well Co. by (signature) Dallas Boeken

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


FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	2	Topsoil			
2	9 01	Clay-Soft-Brown			
9	31 04	Clay-Sandy-Brown			
31	40 17	Sand+Gravel-Compact-Brown-*dry			
40	47 09	Sand-Coarse-Brown-*6gpm			
47	60 04	Clay-Sandy-Grey			
60	88 23	Clay-Sandrock in layers-Grey *6gpm			

ELEVATION: 1500

Depth(s) Groundwater Encountered 1. 39 ft. 2. 60 ft. 3. ft. 4. ft. (Use a second sheet if needed)

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

OFFICE USE ONLY
T
15
R
8
EW
SEC.
32
NW 1/4
NW 1/4
NE 1/4

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

September 1, 2015

CITY OF ELLSWORTH
PO BOX 163
ELLSWORTH KS 67439

Re: Pending Application, File No. 49,424

Dear Sir or Madam:

The Division of Water Resources returned the above referenced application to you for additional information on July 28, 2015, and the current deadline for your response is September 28, 2015. The purpose of this letter is to provide a reminder that in order for you to retain your priority of filing, the original application and requested information needs to be returned to this office on or before **September 28, 2015**, or within any authorized extension of time thereof. According to law, default in refileing of the completed application and attachments within the time allowed shall constitute forfeiture of priority date and dismissal of the application.

If an extension of time is necessary to supply the requested information, please request the extension of time in writing before **September 28, 2015**. Provide information as to why the additional time is needed and how much additional time is requested. Please note that since there are instances when the Chief Engineer may deny your request for an extension of time, there is no guarantee that future requests for more time will be granted.

If you have any questions, please contact me at (785) 564-6627 or by email at kristen.baum@kda.ks.gov. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,

A handwritten signature in cursive script that reads "Kristen A. Baum".

Kristen A. Baum
Environmental Scientist
Water Appropriation Program

SCANNED

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

July 28, 2015

CITY OF ELLSWORTH
PO BOX 163
ELLSWORTH KS 67439

Re: Pending Application, File No. 49,424

Dear Sir or Madam:

After a preliminary review of your above referenced application for permit to appropriate water received in this office on July 10, 2015, it is being returned to you for additional information. In your original application, you requested a 60-day period of time in which to determine the precise location for your point of diversion within a specified quarter section tract of land described as the Northeast Quarter (NE¼) of Section 29, in Township 15 South, Range 8 West, Ellsworth County, Kansas. Your 60-day period will start as of the date of this letter.

Once you've determined the precise location for your point of diversion, complete the rest of Paragraph No. 5 of your application by providing the description for the 10-acre tract location of the point of diversion as well as the feet distances North and West of the Southeast corner of the Section. The location of the point of diversion must also be plotted on the topographical map included. In the case of a battery of wells, please provide the description of the location of the proposed geographic center of the well battery, as well as **the location for each of the individual wells comprising the battery of wells**.

The locations of all other water wells of every kind within one-half mile (½) of the point of diversion must be plotted on the topographical map as well. Each well should be identified as to its use (e.g. domestic, irrigation, industrial, etc.) and must **include the name and mailing address of the well owner**. A signed statement should be included on the map declaring that all wells within one-half mile (½) of the point of diversion have been plotted, or it should declare that none exist. Please provide this information once you have established your point of diversion.

Paragraph No. 13 of the application requests well information so the source of supply of the proposed well may be determined. Pursuant to K.A.R. 5-3-4d, this office requires a stratigraphic log of a well or test hole within 300 feet of the proposed point of diversion. Please supply the indicated information and a test hole log or a driller's log with the returned application. Also, the enclosed "Minimum Desirable Streamflow" form must be signed and notarized, and the enclosed "Municipal Application Supplemental Information Sheet" form must be completed. These forms should be returned with your application as well.

In order to retain its priority of filing, the original application and attachments must be returned to this office with the requested information on or before **September 28, 2015**, or within any authorized extension of time thereof. According to law, default in refileing of the completed application and attachments within the time allowed shall constitute forfeiture of priority date and dismissal of the application.

(over)

City of Ellsworth
July 28, 2015
Page 2 of 2

If you have any questions, please contact me at (785) 564-6627 or by email at kristen.baum@kda.ks.gov. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,

A handwritten signature in black ink that reads "Kristen A. Baum". The signature is written in a cursive style with a large, stylized initial 'K'.

Kristen A. Baum
Environmental Scientist
Water Appropriation Program

enclosures

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

July 28, 2015

CITY OF ELLSWORTH
PO BOX 163
ELLSWORTH KS 67439

Re: Pending Application, File No. 49,424

Dear Sir or Madam:

After a preliminary review of your above referenced application for permit to appropriate water received in this office on July 10, 2015, it is being returned to you for additional information. In your original application, you requested a 60-day period of time in which to determine the precise location for your point of diversion within a specified quarter section tract of land described as the Northeast Quarter (NE $\frac{1}{4}$) of Section 29, in Township 15 South, Range 8 West, Ellsworth County, Kansas. Your 60-day period will start as of the date of this letter.

Once you've determined the precise location for your point of diversion, complete the rest of Paragraph No. 5 of your application by providing the description for the 10-acre tract location of the point of diversion as well as the feet distances North and West of the Southeast corner of the Section. The location of the point of diversion must also be plotted on the topographical map included. In the case of a battery of wells, please provide the description of the location of the proposed geographic center of the well battery, as well as **the location for each of the individual wells comprising the battery of wells**.

The locations of all other water wells of every kind within one-half mile ($\frac{1}{2}$) of the point of diversion must be plotted on the topographical map as well. Each well should be identified as to its use (e.g. domestic, irrigation, industrial, etc.) and must **include the name and mailing address of the well owner**. A signed statement should be included on the map declaring that all wells within one-half mile ($\frac{1}{2}$) of the point of diversion have been plotted, or it should declare that none exist. Please provide this information once you have established your point of diversion.

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(over)

City of Ellsworth
July 28, 2015
Page 2 of 2

If you have any questions, please contact me at (785) 564-6627 or by email at kristen.baum@kda.ks.gov. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,

A handwritten signature in cursive script that reads "Kristen A. Baum".

Kristen A. Baum
Environmental Scientist
Water Appropriation Program

enclosures

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

July 13, 2015

CITY OF ELLSWORTH
PO BOX 163
ELLSWORTH KS 67439

RE: Application
File No. 49424

Dear Sir or Madam:

Your application for permit to appropriate water in 29-15S-8W in Ellsworth 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) 564-6643. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

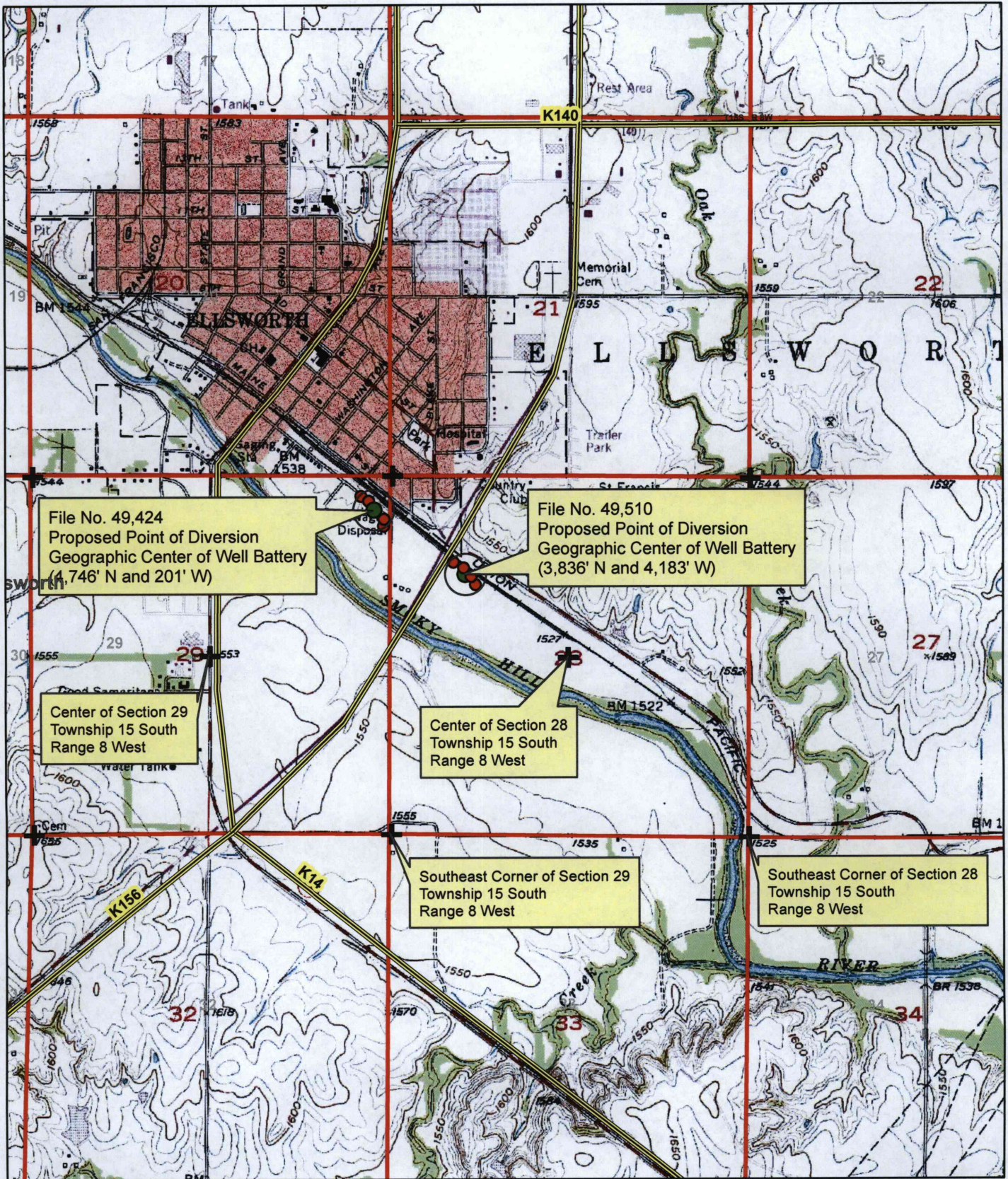
A handwritten signature in cursive script that reads "Brent A. Turney".

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

SCANNED

BAT: dlw
pc: STOCKTON Field Office
GMD 0

CITY OF ELLSWORTH - FILE NOS. 49,424 & 49,510
 Sections 28 and 29, Township 15 South, Range 8 West
 Ellsworth County



File No. 49,424
 Proposed Point of Diversion
 Geographic Center of Well Battery
 (4,746' N and 201' W)

File No. 49,510
 Proposed Point of Diversion
 Geographic Center of Well Battery
 (3,836' N and 4,183' W)

Center of Section 29
 Township 15 South
 Range 8 West

Center of Section 28
 Township 15 South
 Range 8 West

Southeast Corner of Section 29
 Township 15 South
 Range 8 West

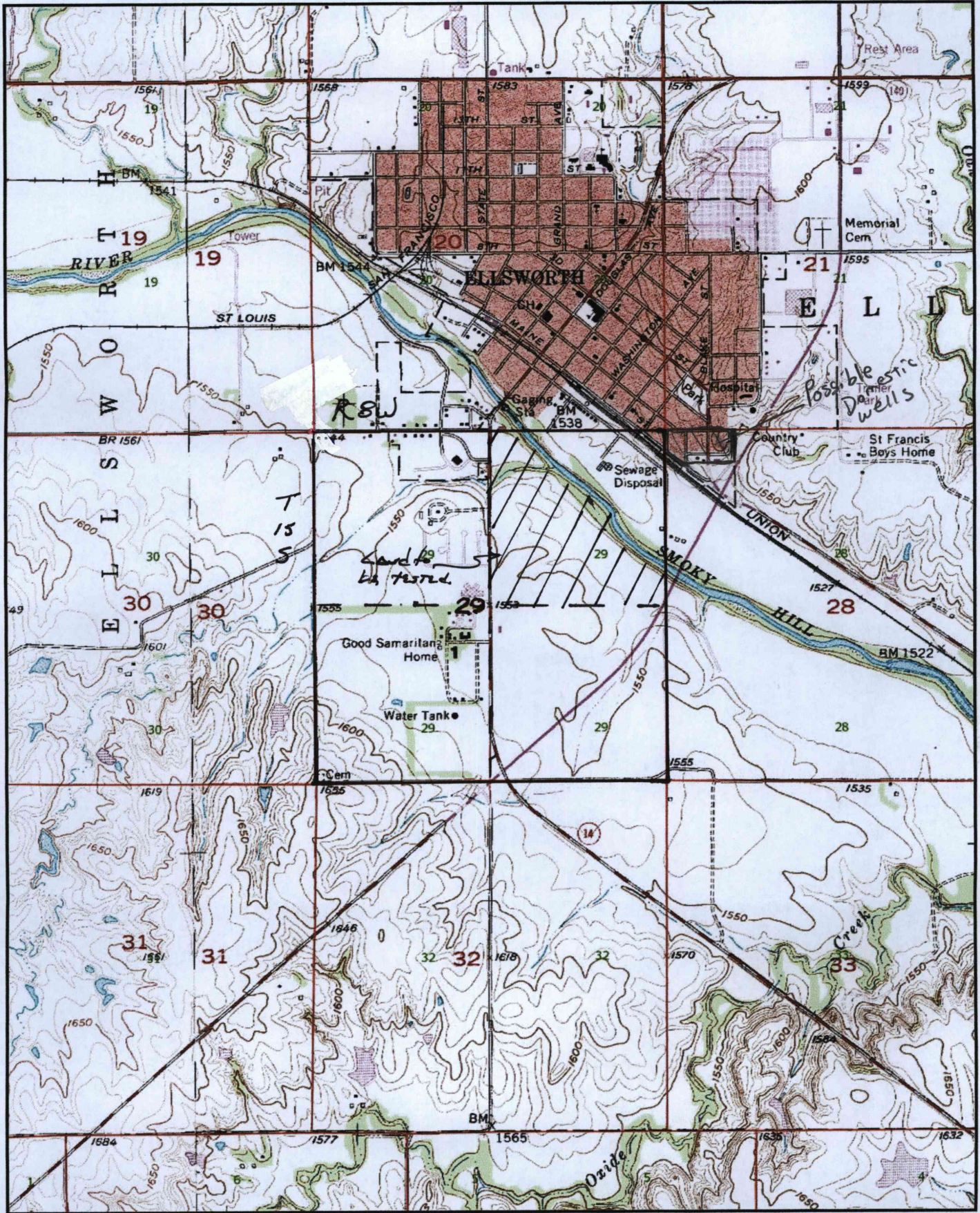
Southeast Corner of Section 28
 Township 15 South
 Range 8 West

● Proposed Point of Diversion

Proposed Place of Use is
 City of Ellsworth & Immediate Vicinity

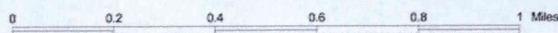
1:24,000

Public Notice Used to Notify Potential Area Well Owners



Universal Transverse Mercator (UTM) Projection Zone 14
North American Datum of 1983

1:24000 scale



WATER RESOURCES
RECEIVED

JUL 10 2015



KS DEPT OF AGRICULTURE

