

# NOTICE

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.

Submit To: CHIEF ENGINEER  
 Division of Water Resources  
 Kansas Department of Agriculture  
 1320 Research Park Drive  
 Manhattan, Kansas 66502  
 http://agriculture.ks.gov/dwr

**APPLICATION FOR APPROVAL TO  
 CHANGE THE PLACE OF USE, THE  
 POINT OF DIVERSION OR THE USE  
 MADE OF THE WATER UNDER AN  
 EXISTING WATER RIGHT**



State of Kansas

**Filing Fee Must Accompany the Application**  
 (Please refer to Fee Schedule on signature page of application form.)

Paragraph Nos. 1, 2, 3, 4 & 8 must be completed. Complete all other applicable portions. A topographic map or detailed plat showing the authorized and proposed points(s) of diversion and /or place of use must accompany this application.

1. Application is hereby made for approval of the Chief Engineer to change the
- Place of Use
  - (Check one or more)  Point of Diversion
  - Use Made of Water

**WATER RESOURCES  
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**DEC 12 2016**

1:05  
**KS DEPT OF AGRICULTURE**

File No. Sumner County Vested Right No. 002

2. Name of applicant: City of Mulvane - Attn Kent Hixson

Address: 211 N. 2nd Avenue

City, State and Zip: Mulvane, Kansas 67110

Phone Number: ( ) \_\_\_\_\_ E-mail address: khixson@mulvanekansas.org

What is your relationship to the water right;  owner  tenant  agent  other? If other, please explain. \_\_\_\_\_

Name of water use correspondent: City of Mulvane

Address: 211 N. 2nd Avenue

City, State and Zip: Mulvane, KS 67110

Phone Number: ( ) \_\_\_\_\_ E-mail address: khixson@mulvanekansas.org

3. The change(s) proposed herein are desired for the following reasons (please be specific): See Attached Documentation

Existing City Well No. 3 has been inactive for an extended period of time, and significant rehabilitation or re-drilling would be required to bring this well back into service.

The City is experiencing increasing demand from normal growth and the recently built casino. Rather than re-drill three well sites at extended cost and in proximity to existing contamination sources, the City would like

to consolidate Sumner County Vested Right No. 2 and Water Right No. 02724.

The change(s) (was) (will be) completed by \_\_\_\_\_ December 31, 2017  
 (Date)

<b>For Office Use Only:</b>							
F.O. Code	<u>2</u>	GMD	<u>CGT</u>	Meets K.A.R. 5-5-1 (YES/NO)	Use	Source	County
				<u>(YES)</u>	<u>MUN</u>	<u>(GIS)</u>	<u>SU</u>
Fee \$	<u>200</u>	TR #		Receipt Date	<u>12/16/16</u>	By	Date
						<u>ADW</u>	<u>12/12/16</u>
				Check #	<u>43396</u>		

12/14/2016 LLM

4. The presently authorized place of use is:

Owner of Land — NAME: No Changes

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES		
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼			

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼				

List any other water rights that cover this place of use. \_\_\_\_\_

(If there are more than two landowners, attach additional sheets as necessary.)

5. It is proposed that the place of use be changed to:

Owner of Land — NAME: No Changes

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES				
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼					

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES					
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼						

List any other water rights that cover this place of use. \_\_\_\_\_

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

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- 6. The presently authorized point(s) of diversion (is) (are) One Well (Mulvane City Well No. 3)  
(Provide description and number of points)
- 7. The proposed point(s) of diversion (is) (are) One Well  
(Provide description and number of points)

**List all presently authorized point(s) of diversion:**

8. **Presently authorized point of diversion:**  
 One in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter of Section 6, Township 30 South, Range 2E (E/W), in Sumner County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Authorized Rate 552 GPM Authorized Quantity 55 MGY or 168.789AF  
 (DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  
**Proposed point of diversion: (Complete only if change is requested)**  
 One in the Northwest Quarter of the Northeast Quarter of the Northeast Quarter of Section 1, Township 30 South, Range 1E (E/W), in Sumner County, Kansas, 4035 feet North 1585 feet West of Southeast corner of section.  
 Proposed Rate No Change Proposed Quantity No Change  
 This point is:  Additional Well  Geo Center List other water rights that will use this point 02724 Pending Change App

9. **Presently authorized point of diversion:**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_  
 (DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  
**Proposed point of diversion: (Complete only if change is requested)**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_  
 This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

10. **Presently authorized point of diversion:**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_  
 (DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  
**Proposed point of diversion: (Complete only if change is requested)**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_  
 This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

- 11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. Existing Well No. 3 will be plugged and abandoned or placed into inactive status in compliance with KDHE and DWR regulations

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

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12. The presently authorized use of water is for Municipal purposes.  
It is proposed that the use be changed to No Changes purposes.

13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.  
No changes to place of use or use made of water, consumptive use will not increase.

(Please show any calculations here.)

14. It is requested that the maximum annual quantity of water be reduced to No Change (acre-feet or million gallons).

15. It is requested that the maximum rate of diversion of water be reduced to No Change gallons per minute (\_\_\_\_ c.f.s.).

16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 ([www.usgs.gov](http://www.usgs.gov)). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.

a. If a change in the location of the point(s) of diversion is proposed, show:

- 1) The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
- 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
- 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.

b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.

17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.

Please see attached documentation regarding same source of supply, aquifer testing, and groundwater to surface water interaction. The City remains committed to investing in sustainable and reliable water resources to meet a growing demand without impairing existing water resources. The proposed changes are not anticipated to significantly impact other local or regional water users.

18. If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.

Please see attached documentation regarding same source of supply, aquifer testing, and groundwater to surface water interaction.

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

**WATER RESOURCES**

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Any use of water that is not as authorized by the water right or permit to authorize water **before** the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

**The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse.** If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

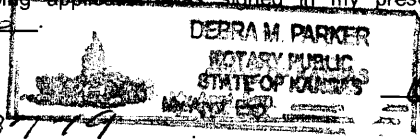
**I declare that I am an owner of the currently authorized place of use as identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.**

Dated at 12-6-16 Mulvane, Kansas, this 6 day of December, 20 16.

<u>Kent L. Hixson</u> (Owner)	_____	(Spouse)
<u>Kent L. Hixson</u> (Please Print)	_____	(Please Print)
_____	_____	(Spouse)
_____	_____	(Please Print)
_____	_____	(Spouse)
_____	_____	(Please Print)

State of Kansas }  
County of Sedgewick } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 6 day of December, 20 16.



Derra M. Parker  
Notary Public

**FEE SCHEDULE**

Each application to change the place of use, the point of diversion or the use made of the water under this section shall be accompanied by the application fee set forth in the schedule below:

- (1) Application to change a point of diversion 300 feet or less ..... \$100
- (2) Application to change a point of diversion more than 300 feet ..... \$200
- (3) Application to change the place of use ..... \$200
- (4) Application to change the use made of the water ..... \$300

Make check payable to **Kansas Department of Agriculture.**

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**Water Well Owners within ½ Mile of Proposed Point of Diversion**

1. Butts, Bradley C, 205 S Central AVE, Mulvane, KS 67110
2. Street, Medlody A, 1486 N Estfan Road, Mulvane, KS 67110
3. Street, Meloday A, 1478 N Estfan Road, Mulvane, KS 67110
4. Rooker, Ronalld Lee, 1466 N Estfan Road, Mulvane, KS 67110
5. McDonald, Larry, 1456 N Estfan Road, Mulvane, KS 67110
6. McDonald, Larry, 1456 N Estfan Road, Mulvane, KS 67110
7. McDonald, Jonathan & Abbie, 1438 N Estfan Road, Mulvane, KS 67110
8. Humbolt, Larry, 1435 N Deacon RD, Mulvane, KS 67110
9. McDonald, Larry, 1247 E 144rth Ave N, Mulvane, KS 67110
10. Moore, 1269 E 144<sup>th</sup> Ave N, Mulvane, KS 67110
11. Humbolt, Bonie 1273 E 144<sup>th</sup> Ave N, Mulvane, KS 67110
12. Parker, Ian & Meliessa, 1456 N Estfan RD, Mulvane, KS 67110
13. Hamm, Larry & Linda, 1299 E 119<sup>th</sup> St, Mulvane, KS 67110
14. BIGGS PROPERTIES LLC, 13889 SW 214TH ST, DOUGLASS, KS 67039
15. LENTZ MELVIN & BERNITA LIVING TRUST, 1325 WOODLAND ST, EMPORIA, KS 66801

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December 2 2016

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

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KS DEPT OF AGRICULTURE

Re: Water Right Nos. Sumner County 002 & 02724

Dear Mr. Barfield:

The City of Mulvane's water supply is currently provided by from two water supply sources:

- Treated surface water from the City of Augusta (raw water sources include Eldorado Lake, Augusta City Lake, Santa Fe Lake)
- Groundwater from the City of Mulvane's Municipal Well Field (Total of 5 Wells)
  - Wells 1,2, and 3 capable of chlorinated groundwater under emergency conditions
  - Wells 4 and 5 sent to new Reverse Osmosis Water Treatment Plant

The recent drought and growing municipal demand from domestic, industrial, and commercial users initiated a supplemental review of existing water resources and infrastructure by the City of Mulvane (City) to ensure that water resources and infrastructure are adequate to meet future requirements. The results of that review indicated a number of water rights and infrastructure challenges that should be addressed as first steps in securing a reliable water supply for the City.

#### **Review of Treated Water Supply from Augusta**

The City entered into a contract with the City of Augusta during July of 1990 to supply treated water to the City to deliver up to 200 Million Gallons per Year (200 MGY). The treated water supply from Augusta currently makes up a majority of the supply for the City of Mulvane. Recent drought has shown the vulnerability of this water supply, and illustrated a number of concerns related to firm capacity, water quality, and condition of transmission lines:

- Drought Vulnerability
  - Santa Fe Lake went dry during the intense drought of 2011
  - Augusta City Lake went dry during the intense drought of 2011
  - Eldorado lake has experienced significant storage losses throughout previous years of low precipitation and illustrated rapid declines during the recent drought
- Aging Pipeline & Infrastructure
  - The line supplying treated water from the City of Augusta to the City of Mulvane was originally installed for water supply to support historic oil and gas field activity, significantly pre-dating the current use of treated water to the City
  - This transmission line consists of steel materials which have already surpassed their anticipated service life, which directly limits peak line capacity and presents an increasing risk of pipeline failure
  - The cost and time to repair or replace portions or the entirety of this line would be significant





David Barfield  
Division of Water Resources  
December 2 2016  
Page 2

- Water Quality Concerns
  - Santa Fe Lake is susceptible to harmful algae blooms during warm dry years
  - Augusta City Lake is susceptible to harmful algae blooms during warm dry years

### **Review of Mulvane Groundwater Wells & Treatment**

The City of Mulvane currently has three wells on the east side of the Arkansas River (Wells 1 through 3 authorized by Water Right Nos 02724 and SU002) and two wells located on the west side (Wells 4 and 5 authorized by Water Right No. 41869) located directly west of the City.

Wells 4 and 5 supply the newly constructed Reverse Osmosis groundwater treatment plant which feeds highly treated water to the City and nearby Kansas Star Casino with up to roughly 45MGY after. A review of the existing municipal wells and raw water collection system, indicates that the wells east of the Arkansas River (Wells 1 through 3) currently offer a limited value to the City due to limited production capacity and age of the pumping equipment. The wells and pumping equipment at wells 1 through 3 would require replacement or significant rehabilitation in order to renew their value to the City. In addition, the quality of water produced from wells 1 through 3 requires the raw water to be blended without additional implemented treatment.

### **Optimization of Existing Water Resources**

Burns & McDonnell was tasked with identifying alternatives capable of increasing the City's firm water supply capacity and reducing direct risk from drought, water quality challenges, and aging infrastructure. Based on historic population growth and anticipated future demands from expansion of the Kansas Star Casino, total City demands are projected to exceed 225MGY within the next 10 years. To account for the projected increases in demand the City constructed a Reverse Osmosis Water Treatment Plant (ROWTP) supplied by City wells 4 and 5 capable of producing roughly 45MGY limited by the existing raw water supply rights authorized by permit no. 31869 (58MGY raw groundwater). With City wells 1 through 3 currently inoperable, the City has access to a total treated water supply of only 245MGY during years when surface water supplies are available.

Burns & McDonnell in collaboration with City staff began examining the value in reactivating water supply from Wells 1, 2, and 3. During the review, the estimated costs of re-drilling and restoring these wells individually became relatively high due to infrastructure upgrades that would be required to accompany new wells:

- The raw water collection lines for wells 1 through 3 are old enough that the service life has been surpassed, new collection lines would be required for re-drilling of the wells to be of value
- The well houses, pumping equipment, metering equipment, piping, and electrical controls for the existing facilities all require reconstruction and full replacement
- In order to meet desirable blending and treatment requirements, raw water from a new collection system would need to be piped west to the new ROWTP, requiring several miles of new pipeline and a costly pipeline boring underneath and crossing the Arkansas River.

# BURNS MCDONNELL

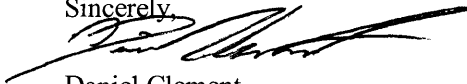
David Barfield  
Division of Water Resources  
December 2 2016  
Page 3

In an alternative method to re-vitalize the City's raw groundwater supply, Burns & McDonnell and the City began an approach to evaluate options to consolidate Wells 1 through 3 to a central well location to reduce additional infrastructure costs. Several sites were examined along the east side of the Arkansas River within the alluvial aquifer corridor, however each of these parcels exhibited substantial water quality or property acquisition issues. To this end the City was obligated to look outside of the traditional one-half mile well relocation rules established by the State of Kansas Division of Water Resources (DWR). Additional site investigations west of the Arkansas River found a single viable site with a willing landowner and property that met the hydrogeologic characteristics and water quality parameters compatible with development of a municipal groundwater source. The proposed well site is located within the same source of groundwater supply, the Arkansas River Alluvium, and indicates a similar aquifer response to flow conditions in the adjacent river flows.

Attached for your review are change in point of diversion applications and maps that illustrate the requested well consolidation. The City and Burns & McDonnell have already endeavored collection of significant amounts of hydrogeological information that demonstrates the viability of the proposed well site, long term sustainability, and the inert projected impacts to the local aquifer and surrounding users. The City will supply DWR with a memo containing additional information that supports and details the well site selection process which has included: water quality sampling, flood plain analysis, hydrogeologic investigations, water level monitoring, well yield projections, and drawdown scenarios. After submission of this memo, the City would like to request a meeting with DWR staff to provide additional information and to answer any questions you or DWR staff might have on the details of the change applications.

Thank you for your consideration, please feel free to contact our offices or the City directly if you have any questions.

Sincerely,



Daniel Clement  
Hydrogeologist

Burns & McDonnell  
800 E. 1<sup>st</sup> Street, Suite 400  
Wichita, KS 67202

DWC

Enclosures

cc: Kent Hixson, City of Mulvane  
Brad Modlin, City of Mulvane

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**KS DEPT OF AGRICULTURE**

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



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

Jackie McClaskey, Secretary

Governor Sam Brownback

December 13, 2016

CITY OF MULVANE KENT HIXSON  
1020 S KANSAS AVE FL 2  
211 N 2ND AVE  
MULVANE , KS

**FILE COPY**

RE: File No. 2

Dear Sir or Madam:

An application for approval of the Chief Engineer to change the following condition or conditions of the file number referred to above has been received:

- place of use PD
- point of diversion
- use made of water

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. You will be contacted regarding this application as soon as it has been examined.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water prior to approval of the application is unlawful. You should not proceed and divert water as indicated by your plans in your application for a change for this file until you receive approval for this change from the Chief Engineer. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

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

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

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

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

Sincerely,

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

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



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

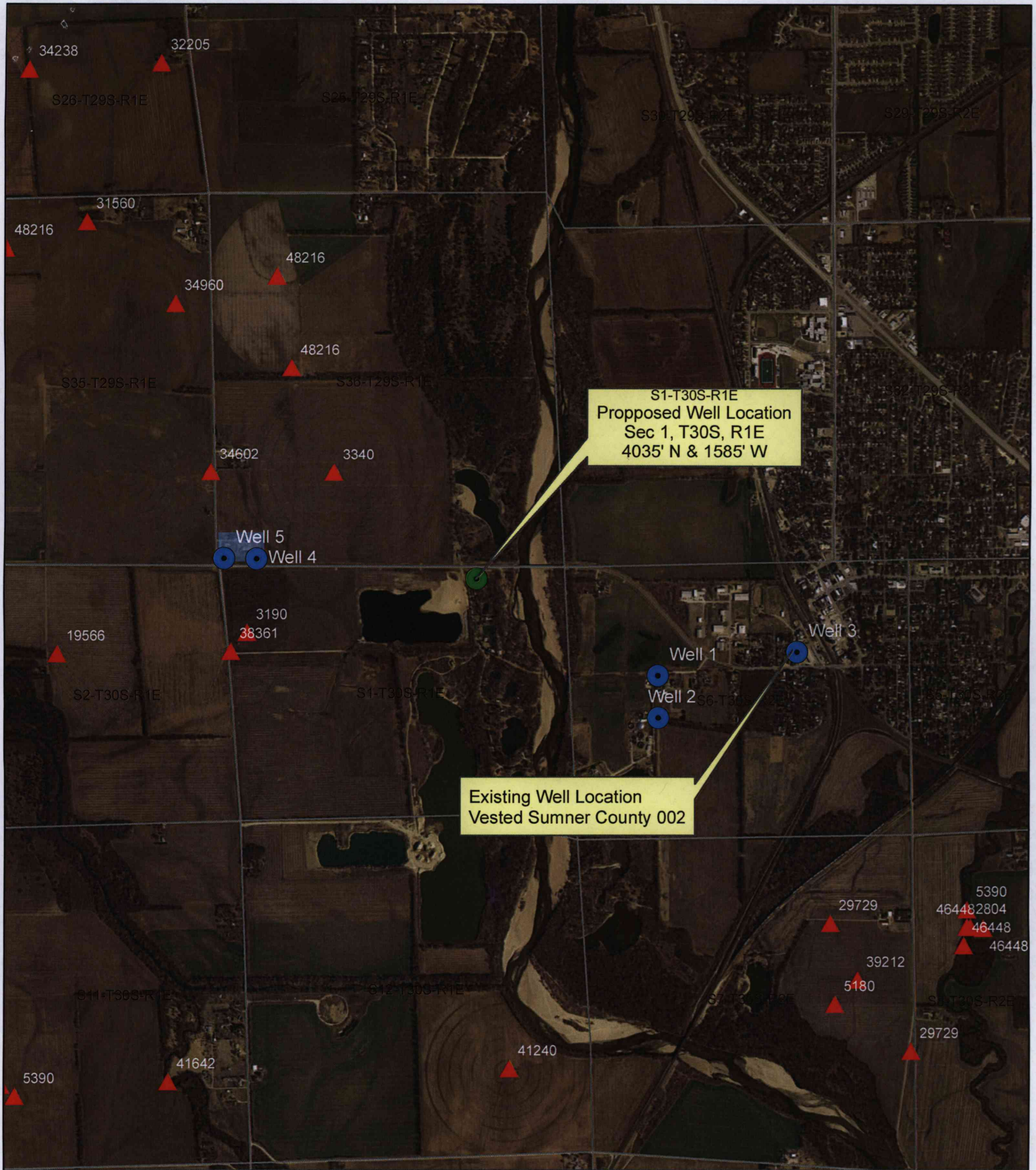
900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

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Jackie McClaskey, Secretary

Governor Sam Brownback

BAT: dlw  
pc: STAFFORD Field Office GMD



**Legend**

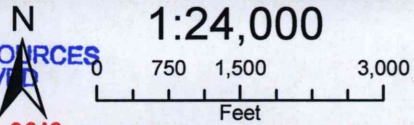
- ▲ Area Water Rights (Priority Number)
- Mulvane City Wells
- Public Land Survey System
- Mulvane ROWTP

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**BURNS & MCDONNELL**



City of Mulvane  
Change Application Map  
Sumner County  
Vested Right 002





Proposed Well Location  
 Sec 1, T30S, R1E  
 4035' N & 1585' W

5135 ft

Well 3

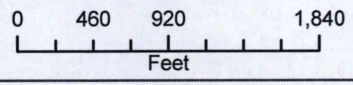
Well 1

Well 2

- Legend**
- Proposed\_Well\_Site
  - Mulvane City Wells
  - NHD FLOWLINES
  - Public Land Survey System

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 DEC 12 2016

1:14,000



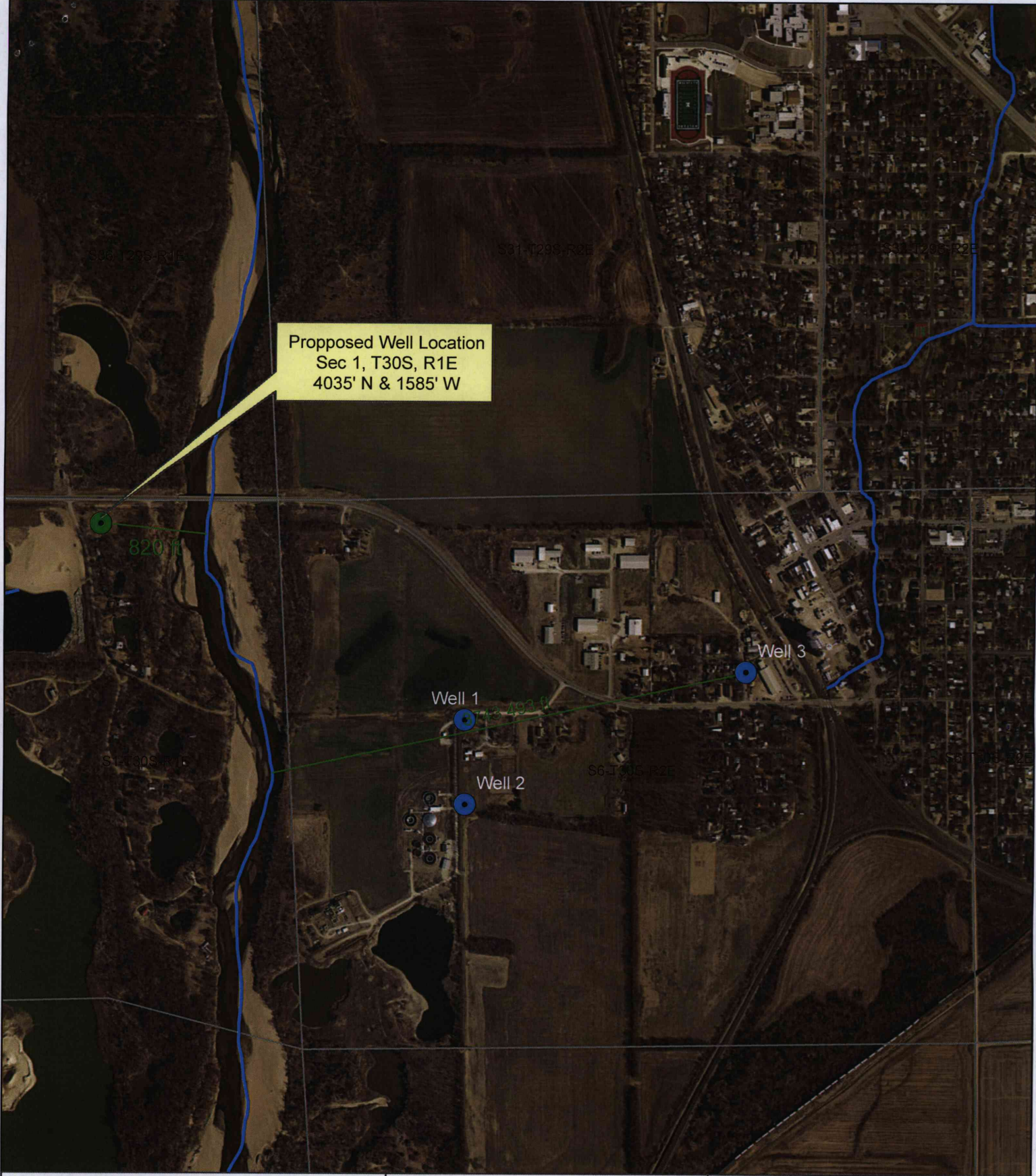
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**BURNS  
 McDONNELL**



City of Mulvane  
 Change Application Map  
 Water Right No. SU002  
 Well Relocation Distance





Proposed Well Location  
 Sec 1, T30S, R1E  
 4035' N & 1585' W





820 ft

Well 1

Well 2

Well 3

**Legend**

-  Proposed\_Well\_Site
-  Mulvane City Wells
-  NHD FLOWLINES
-  Public Land Survey System

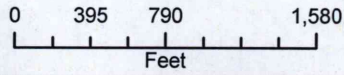
WATER RESOURCES  
 RECEIVED

DEC 12 2016

KS DEPT OF AGRICULTURE

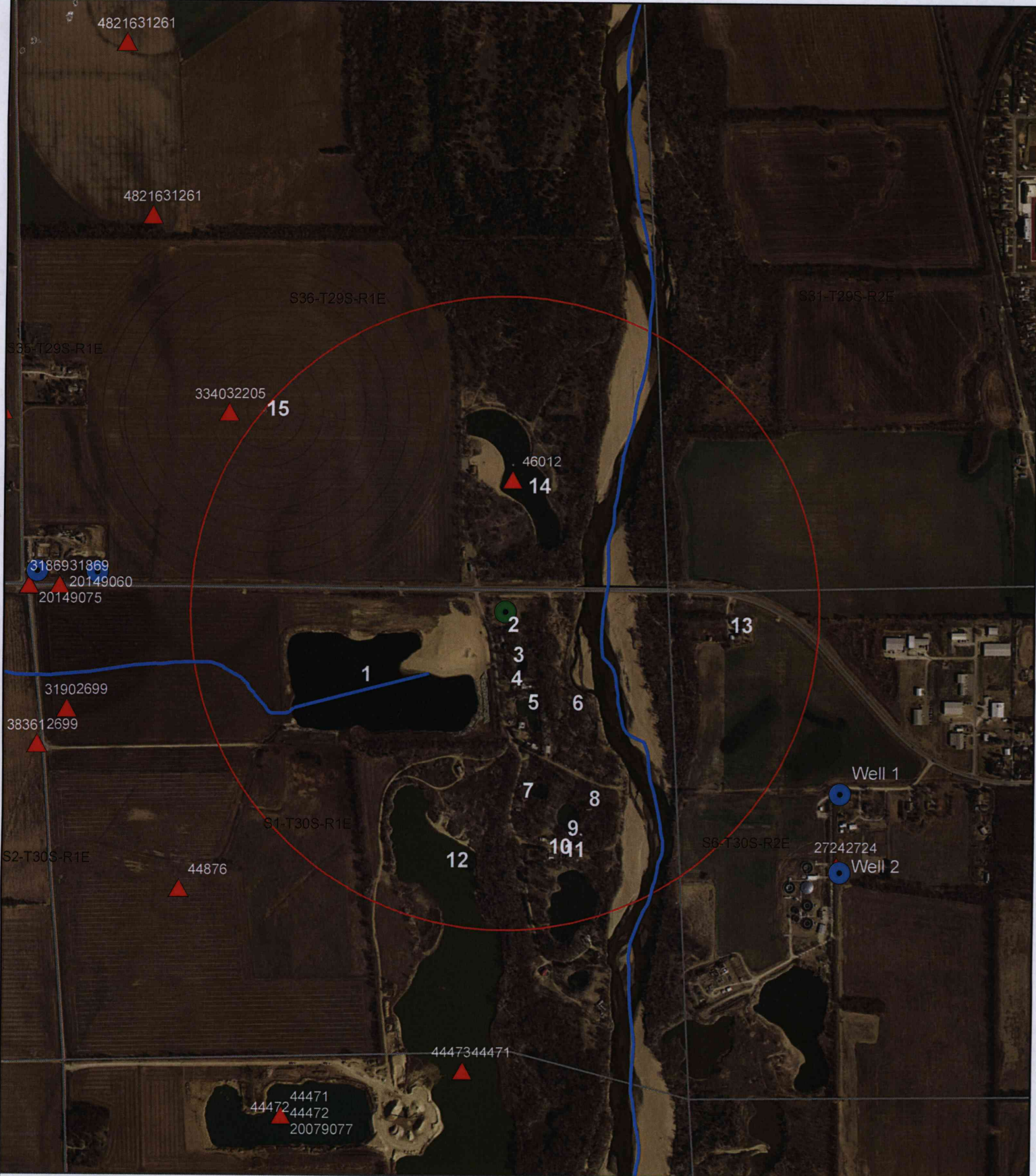


1:12,000







City of Mulvane  
 Change Application Map  
 Water Right No. SU002  
 Distance to River Centerline





**Legend**

-  Proposed\_Well\_Site
-  Mulvane City Wells
-  NHD FLOWLINES
-  Public Land Survey System

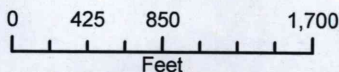
WATER RESOURCES RECEIVED

DEC 12 2016

KS DEPT OF AGRICULTURE



1:12,990



**BURNS  
MCDONNELL**



City of Mulvane  
Change Application Map  
Water Right Nos.  
02724 & SU002  
Well Owners 1/2 Mile