

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.

THE STATE OF KANSAS



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

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File Number 49906
This item to be completed by the Division of Water Resources.

SEP 18 2017
11:30
KS DEPT OF AGRICULTURE

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

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

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

1. Name of Applicant (Please Print): CLOUD CO. RWD 1
Address: P.O. BOX 416
City: CONCORDIA State: KS Zip Code: 66901
Telephone Number: (785) 243-7929

2. The source of water is: [] surface water in (stream)
OR [x] groundwater in Republican 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 _____ acre-feet OR 10 million gallons per calendar year, to be diverted at a maximum rate of 400 gallons per minute OR _____ cubic feet per second.

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

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

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

For Office Use Only:
F.O. 1 GMD Meets K.A.R. 5-3-1 (YES/NO) Use MUN Source G/S County CD By KAB Date 9/18/17
Code REG Fee \$ 200 TR # Receipt Date 9/18/17 Check # 3916

9/19/2017

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

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

- (A) One in the NE quarter of the SE quarter of the NW quarter of Section 23, more particularly described as being near a point 3,691 feet North and 3,105 feet West of the Southeast corner of said section, in Township 6 South, Range 3 WEST, CLOUD County, Kansas. (Pdiv ID: 68021)
- (B) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.
- (C) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.
- (D) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ East/West (circle one), _____ County, Kansas.

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

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

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

(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 September 12, 2017. By: Marcia Johnson
Applicant's Signature

7. The proposed project for diversion of water will consist of ONE WELL
(number of wells, pumps or dams, etc.)

and (was)(will be) completed (by) EXISTING
(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 _____
(Mo/Day/Year)

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

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

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

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

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

- If yes, show the Water Structures permit number here _____
- If no, explain here why a Water Structures permit is not required _____

GROUNDWATER WELL

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

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

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

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

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

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

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

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

45,284 OVERLAP IN PD AND PU.

19,812; 35,452; AND 46,173 OVERLAP IN PU.

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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 | <u>See Senior</u> | | | |
| | <u>File</u> | _____ | _____ | _____ |
| Total depth of well | _____ | _____ | _____ | _____ |
| Depth to water bearing formation | _____ | _____ | _____ | _____ |
| Depth to static water level | _____ | _____ | _____ | _____ |
| Depth to bottom of pump intake pipe | _____ | _____ | _____ | _____ |

14. The relationship of the applicant to the proposed place where the water will be used is that of OWNER
(owner, tenant, agent or otherwise)

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

(name, address and telephone number)

(name, address and telephone number)

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

Dated at Concordia, Kansas, this 12 day of September, 2017.
(month) (year)

(Applicant Signature)
Cloud County Rural Water Dist #1
By Marcia Johnson
(Agent or Officer Signature)

APPLICANT(S) SOCIAL SECURITY IDENTIFICATION NUMBER(S)
48-0803194
and/or
APPLICANT(S) TAXPAYER I.D. NO.(S)

Marcia Johnson
(Agent or Officer - Please Print)

(Date)

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

Re: Application
File No. _____

Minimum Desirable Streamflow

Dear Sir:

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

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

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

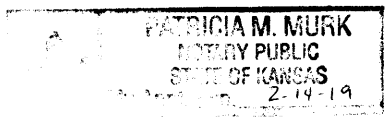
I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

Cloud County RWD #1
Marcia Johnson
Signature of Applicant

State of Kansas)
County of cloud) ss

Marcia Johnson
(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 13 day of September, 2017.



Patricia M. Murk
Notary Public

My Commission Expires: 2-14-19

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**MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN
APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT
TO APPROPRIATE WATER FOR BENEFICIAL USE**

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)
Neosho River

Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River

Applicant's Name: CLOUD CO RWD 1
(Please Print)

MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION SUPPLEMENTAL INFORMATION SHEET

Application File Number

(assigned by DWR)

499900

SECTION 1: PRESENT WATER USE SUMMARY (IF NO PREVIOUS MUNICIPAL WATER USE HAS BEEN UTILIZED, PROCEED TO SECTION 3)
NOTE: WORKSHEET FOR WATER PUMPED, PURCHASED, AND SOLD BY YOUR WATER DISTRIBUTION SYSTEM.

| Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 | Column 7 |
|--------------------------------------|----------------------------------|--|--|---|---------------------|--|
| Raw Water Diverted Under Your Rights | Water Purchased From All Sources | Water Sold to Other Public Water Suppliers | Water Sold to Your Industrial, Stock, and Bulk Customers | Water Sold to Your Residential and Commercial Customers | Other Metered Water | Remaining Water Used (See Below Explanation) |
| 23,351,000 | 0 | 0 | 4167,000 | 12,060,000 | 143,000 | 6,981,000 |
| TOTAL WATER = Columns 1 + 2 | | ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6 | | | | UNACCOUNTED FOR WATER |

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29%

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

- Column 1: The amount of raw water diverted from all of your points of diversion.
- Column 2: The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office.
- Column 3: The amount of water sold wholesale to all other public water supply systems.
- Column 4: The amount of water sold retail to all industrial, pasture, stockwater, feedlot, and bulk water service connections. Include the amount of water sold to all farmsteads using at least 200,000 gallons of water per year.
- Column 5: The amount of water sold retail to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year.
- Column 6: The amount of water used that is metered at individual service connections and supplied free, such as for public service, treatment processes, and connections receiving free water.
- Column 7: The amount of remaining water used. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6.

UNACCOUNTED FOR WATER

Use the following to calculate your distribution system's Unaccounted For Water:

Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Columns 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

Use the following to calculate the percent Unaccounted For Water versus the Total Water of your system:

$$\text{Percent Unaccounted For Water} = \frac{\text{Unaccounted For Water}}{\text{Total Water (Columns 1,2)}} \times 100$$

If this number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it. *- see attached*

SECTION 2: PAST WATER USE

COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

| | Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 | Column 7 |
|-------------------|--------------------------------------|----------------------------------|--|--|---|---------------------|--|
| | Raw Water Diverted Under Your Rights | Water Purchased From All Sources | Water Sold to Other Public Water Suppliers | Water Sold to Your Industrial, Stock, and Bulk Customers | Water Sold to Your Residential and Commercial Customers | Other Metered Water | Remaining Water Used (See Above Explanation) |
| 20 years ago | | | | | | | |
| 15 years ago | | | | | | | |
| 10 years ago 2008 | 25,086,000 | 0 | 0 | 5,765,000 | 11,518,000 | 90,000 | 7,713,000 |
| 5 years ago 2011 | 20,508,000 | 0 | 0 | 6,090,000 | 11,131,000 | 273,000 | 3,014,000 |
| | TOTAL WATER = Columns 1 + 2 | | ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6 | | | | UNACCOUNTED FOR WATER |

SECTION 3: PROJECTED FUTURE WATER NEEDS

PLEASE COMPLETE THE FOLLOWING TABLE SHOWING YOUR FUTURE WATER REQUIREMENTS FOR THE NEXT 20 YEARS:

| | Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 | Column 7 |
|---------|--------------------------------------|----------------------------------|---|--|---|---------------------|--|
| | Raw Water Diverted Under Your Rights | Water Purchased From All Sources | Water Sold to Other Public Water Suppliers | Water Sold to Your Industrial, Stock, and Bulk Customers | Water Sold to Your Residential and Commercial Customers | Other Metered Water | Remaining Water Used (See Explanation on other side) |
| Year 5 | 25,686,000 | 0 | 0 | 5,000,000 | 13,266,000 | 157,000 | 7,630,000 |
| Year 10 | 28,254,000 | 0 | 0 | 6,000,000 | 14,592,000 | 173,000 | 7,489,000 |
| Year 15 | 31,080,000 | 0 | 0 | 7,200,000 | 16,552,000 | 190,000 | 7,638,000 |
| Year 20 | 34,188,000 | 0 | 0 | 8,640,000 | 17,657,000 | 209,000 | 7,682,000 |
| | TOTAL WATER = Columns 1 + 2 | | ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6 | | | | UNACCOUNTED FOR WATER |

SECTION 4: POPULATION AND SERVICE CONNECTIONS

ESTIMATE THE NUMBER OF PERSONS DIRECTLY SERVED BY YOUR WATER DISTRIBUTION SYSTEM

PAST POPULATION - PROVIDE INFORMATION BELOW:
(CENSUS BUREAU INFORMATION)

| LAST 20 YEARS | POPULATION |
|---------------|------------|
| 20 years ago | |
| 15 years ago | |
| 8 years ago | 412 |
| 5 years ago | 431 |
| Last Year | 453 |

PROJECTED FUTURE POPULATION

ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS

| NEXT 20 YEARS | POPULATION |
|---------------|------------|
| Year 5 | 463 |
| Year 10 | 473 |
| Year 15 | 483 |
| Year 20 | 493 |

Provide number of current active service connections:

192 Residential _____ Industrial _____ Other (specify) _____
 _____ Commercial 82 Pasture/ Stockwater/ Feedlot 274 Total

SECTION 5: PRESENT GALLONS PER PERSON PER DAY

CALCULATE YOUR GALLONS PER PERSON PER DAY

Water in Columns 5, 6, and 7 ÷ Population ÷ 365 Days/Year = Gallons per Person per Day

$\frac{19,184,000}{\text{Amount of water in Columns 5, 6, and 7 of Section 1}} \div \frac{453}{\text{Population from Last Year of Section 4}} \div 365 \text{ Days/Year} = \underline{116} \text{ GALLONS PER PERSON PER DAY.}$

SECTION 6: AREA TO BE SERVED

Describe the area to be served or provide the legal description of the location where the water is to be used including any other city of water supply system (i.e. Rural Water District): _____

WITHIN BOUNDARIES OF RWD #1 CLOUD COUNTY

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

CLOUD COUNTY RURAL WATER DISTRICT #1

Explanation of Unaccounted for Water Loss:

With a district as old as ours, we believe there are many undetectable small leaks throughout the system. As leaks are located, we promptly repair them. Very often we find that the pipes were not packed with sand or anything else in rocky areas where it was originally laid. The pipes have rubbed on the rocks over the years and split on the bottom of the pipe with the water running down through the rocks instead of coming up to the ground where it is able to be located.

We have a lot of water line that runs through pastures and fields that are far from the road. The only way to locate these is when a farmer notifies us that he has a soft spot or water is actually spraying out of the ground. Leaks like this may run for a long time before being detected.

We also believe that the expansion and contraction of the pipes cause water to leak that is undetectable. Glue holding pipes together has deteriorated over the years allowing pipes to pull apart. Pipes may contract enough to leak out water that is absorbed into the ground, but once the pipe expands enough, the leak stops. It is extremely difficult to locate these leaks.

Even though the water loss on the report is described as unaccounted water loss, we may know where a large leak happened or the water tower overflowed, etc. but because the water is not metered, we cannot indicate it as other metered water.

Steps Taken to Reduce Water Loss:

We used to be a self read system and it was impossible to know for sure, other than when we did a physical audit, whether exceptional usage was due to inaccurate patron readings or leaks on the system. In 2014 we invested in an AMR system so we now can compute and bill for accurate water usage. This also helps us to know if a leak is being billed for or is on a main line.

We also are monitoring the water pumped out of the wells every day and when the amount pumped is above normal, we look for leaks. We recently installed some AMR master meters on our main lines as a tool to determine where leaks are located and are looking into equipment that will assist with locating the leaks through sound moving through the pipes.

The water district board reviews and discusses water loss at every meeting and is always looking for ways to reduce it.

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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

September 18, 2017

CLOUD CO RWD 1
PO BOX 416
CONCORDIA KS 66901

FILE COPY

RE: Application
File No. 49906

Dear Sir or Madam:

Your application for permit to appropriate water in 23-6S-3W in Cloud County, was received and has been assigned the file number noted above.

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

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

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

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

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

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

Sincerely,

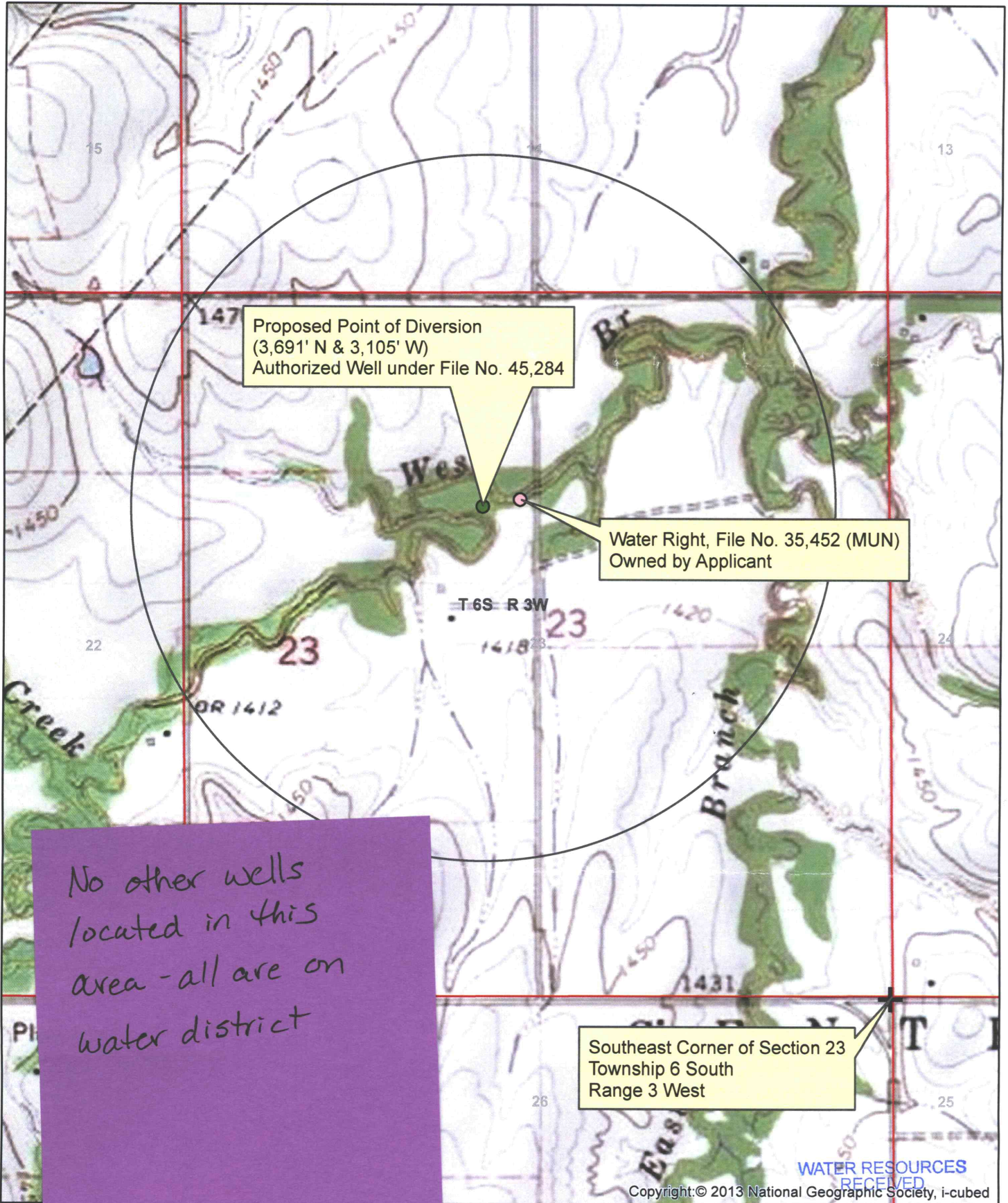
A handwritten signature in cursive script that reads "Kristen A. Baum".

Kristen A. Baum
New Applications Unit Supervisor
Water Appropriation Program

BAT: dlw
pc: TOPEKA Field Office
GMD

CLOUD COUNTY RWD NO. 1
NEW APPLICATION SITE MAP
SEC. 23, T6S, R3W - CLOUD CO.

49900



No other wells located in this area - all are on water district

- Proposed Point of Diversion
- Nearby Well

1:12,000

All known wells within one-half mile of the proposed point of diversion are shown on this map.

SEP 18 2017
MARCIA JOHNSON
DEPT OF AGRICULTURE

