

# 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.

1320 Research Park Drive  
Manhattan, KS 66502  
785-564-6700  
www. agriculture.ks.gov



900 SW Jackson, Room 456  
Topeka, KS 66612  
785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

**P/U Ellis RWD No. 6  
and vicinity**

**50956**

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

2/3/2023, 4:32 PM

**APPLICATION FOR PERMIT TO  
APPROPRIATE WATER FOR BENEFICIAL USE**

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

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): Ellis County Rural Water District No. 6  
Address: 1845 310<sup>th</sup> Ave  
City: Hays State KS Zip Code 67601  
Telephone Number: (785) 623-6767

2. The source of water is:  surface water in \_\_\_\_\_ (stream)  
OR  groundwater in Big Creek North (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 32.26 acre-feet OR 10512000 gallons per calendar year, to be diverted at a maximum rate of 20 gallons per minute OR 0.0535 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 \_\_\_\_\_ Meets K.A.R. 5-3-1 (YES/NO) Use MUN Source G/S County EL By ALB Date 2/3/2023  
Code \_\_\_\_\_ REG Fee \$ 200 TR # PY00053296 Receipt Date 2/3/2023 Check # CC

2/14/2023  
LMoody



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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 NW quarter of the NW quarter of the NW quarter of Section 14, more particularly described as being near a point 5122 feet North and 5066 feet West of the Southeast corner of said section, in Township 12 South, Range 18 Hays, Ellis County, Kansas.

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

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

(D) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ East/West (circle one), \_\_\_\_\_ County, Kansas.

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

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

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

ELLIS COUNTY RURAL WATER DISTRICT No. 6

(name, address and telephone number)

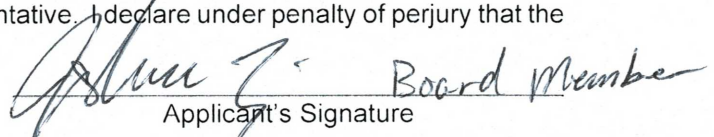
1845 310th AVE HAYS, KS 67601

(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 1-25-2023, 20  

 Board Member  
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 One (1) well  
(number of wells, pumps or dams, etc.)  
and completed (by) KP Hydrotech (Keith Pfannenstiel) #478  
(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 2023  
(Mo/Day/Year)

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- 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 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- 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.

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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	6-26-2020	_____	_____	_____
Total depth of well	100FT	_____	_____	_____
Depth to water bearing formation	83FT	_____	_____	_____
Depth to static water level	70FT	_____	_____	_____
Depth to bottom of pump intake pipe	100FT	_____	_____	_____

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

Agent  
(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):

Ellis County Rural Water District No. 6 - Ellis County, Kansas -- 1845 310<sup>th</sup> Ave Hays, KS 67601  
Tom Walters, Jr. -- District Manager -- 785-623-6767  
(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 HAYS, Kansas, this 25<sup>th</sup> day of JANUARY, 2023.  
(month) (year)

Hale Sloan, P.E.  
(Applicant Signature)  
Sloan Engineering & Consulting  
By Hale Sloan, P.E. KS # 25564  
(Agent or Officer Signature)

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HALE SLOAN, P.E.  
(Agent or Officer - Please Print)

Assisted by \_\_\_\_\_ Date: \_\_\_\_\_  
(office/title)

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**FEE SCHEDULE**

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic use, shall be (see paragraph No. 2 below if requesting storage):

ACRE-FEET	FEE
0-100	\$200.00
101-320	\$300.00
More than 320	\$300.00 plus \$20.00 for each additional 100 acre-feet or any part thereof.

2. The fee for an application in which storage is requested, except for domestic use, shall be:

ACRE-FEET	FEE
0-250	\$200.00
More than 250	\$200.00 plus \$20.00 for each additional 250 acre-feet of storage or any part thereof.

Note: If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for a permit to appropriate water for water power or dewatering purposes shall be \$100.00 plus \$200.00 for each 100 cubic feet per second, or part thereof, of the diversion rate requested.

Note: The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works for diversion has been completed, except that for applications filed on or after July 1, 2009, for works constructed for sediment control use and for evaporation from a groundwater pit for industrial use shall be accompanied by a field inspection fee of \$200.00.

**MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE**

**ATTENTION**

A Water Conservation Plan may be required per K.S.A. 82a-733. A statement that your application for permit to appropriate water may be subject to the minimum desirable streamflow requirements per K.S.A. 82a-703a, b, and c may also be required from you. After the Division of Water Resources has had the opportunity to review your application, you will be notified whether or not you will need to submit a Water Conservation Plan. You also may be required to install a water flow meter or water stage measuring device on your diversion works prior to diverting water. There may be other special conditions or Groundwater Management District regulations that you will need to comply with if this application is approved.

**CONVERSION FACTORS**

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet



Applicant's Name <i>Ellis Co PWD</i> <i>No 6-</i> (Please Print)	MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION SUPPLEMENTAL INFORMATION SHEET	Application File Number  (assigned by DWR)
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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.

(2021)

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)
11,177,000	1,702,000	- 0 -	- 0 -	9,693,000	- 0 -	3,186,000
TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER

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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:

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

For Water Total Water (Columns 1,2)

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

*We are replacing old meters, fixing leaks as they are found. We are also looking into setting away from self read meter systems and going to electronic read.*

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	14,762,000	- 0 -	- 0 -	- 0 -	12,327,000	- 0 -	2,435,000
15 years ago	12,297,000	- 0 -			10,461,000	8,000	1,918,000
10 years ago	11,693,000	5,383,000			12,908,000	- 0 -	4,168,000
5 years ago	2,841,000	10,110,000			110,356,000	- 0 -	3,665,000
	TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6				UNACCOUNTED FOR WATER

DWR 1-100.24 (Revised 08/15/2002)

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	13,000,000	3,000,000			13,600,000		2,400,000
Year 10	15,000,000	3,000,000			14,500,000		3,500,000
Year 15	16,000,000	3,000,000			16,500,000		2,500,000
Year 20	18,000,000	3,000,000			17,850,000		3,150,000

**SECTION 4: POPULATION AND SERVICE CONNECTIONS**  
 ESTIMATE THE NUMBER OF PERSONS DIRECTLY SERVED BY YOUR WATER DISTRIBUTION SYSTEM

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PAST POPULATION - PROVIDE INFORMATION BELOW: PROJECTED FUTURE POPULATION

(CENSUS BUREAU INFORMATION) ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS

LAST 20 YEARS	POPULATION
20 years ago	130
15 years ago	149
10 years ago	161
5 years ago	170
Last Year	183

Active meters

Active meters

NEXT 20 YEARS	POPULATION
Year 5	185
Year 10	190
Year 15	195
Year 20	200

Active meters

370 population on average

Provide number of current active service connections:

Residential	Industrial	Other (specify)
	Pasture/ Stockwater/ Feedlot	183
Commercial		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

$12,879,000 \div 370 \div 365 \text{ Days/Year} = 95.3$  GALLONS PER PERSON PER DAY.

Amount of water in  
 Columns 5, 6, and 7  
 of Section 1

Population from Last  
 Year of Section 4

There are a number of cattle watered  
 on our system as well.

**SECTION 6: AREA TO BE SERVED**

Looking for another water source, in dry years we have lost the use of some.

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): well fields





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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**

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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



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**REAL ESTATE PURCHASE AGREEMENT**

This Agreement made and entered into this 27<sup>th</sup> day of September, 2022, by and between **Frank Joy Farms, LLC**, a Kansas Limited Liability Company, hereinafter called "Seller" and **Ellis County Rural Water District No. 6, Ellis County, Kansas**, hereinafter called "Buyer".

WITNESSETH:

WHEREAS, Seller agrees to sell to Buyer and Buyer agrees to purchase from Seller the following described real estate situated in Ellis County, Kansas, to-wit:

A 2.634 acre tract of real estate located in the Northwest corner of the Northwest Quarter (NW/4) of Section Fourteen (14), Township Twelve (12) South, Range Eight (8) West of the 6<sup>th</sup> P.M., Ellis County, Kansas, as specifically set forth in a survey attached hereto, marked Exhibit "A" and made a part hereof by reference;

Under the following terms and conditions:

1. **Purchase Price.** The purchase price shall be the sum of Fifteen Thousand Dollars (\$15,000.00) which shall be paid in full at the time of closing.
2. **Title.** Buyers shall obtain a title insurance policy from Field Abstract & Title, LLC covering the above-described property which title insurance shall evidence merchantable title in Seller. Buyers shall have a reasonable time to examine such policy commitment and Seller shall have a reasonable time after such examination to remedy or cure any title defects shown thereon. In the event of a complete failure of title, Buyers may rescind this agreement. The Title Standards of the Kansas Bar Association shall apply if and when necessary. The buyer agrees to pay the cost of the title insurance policy.
3. **Closing.** It is agreed that the closing shall take place as soon as reasonably practicable upon approval of title and upon satisfaction of contingency requirements as hereinafter set forth. Closing shall take place at Field Abstract & Title, LLC and may be extended upon mutual agreement of the parties for a reasonable time, if necessary, to cure title defects. At closing, Seller shall deliver to Buyer a warranty deed of conveyance containing the usual warranties of title free and clear of all mortgages, liens and encumbrances and Buyer shall pay the purchase price in the amount of \$15,000.00.
4. **Taxes.** Seller shall pay all real estate taxes for 2021 and prior years. The real estate taxes for 2022 shall be prorated to date of closing.
5. **Possession.** Buyers shall be entitled to possession of property at the time of closing.

6. **Fees.** The parties agree that all expenses relative to document preparation shall be responsibility of Buyer unless otherwise specifically set forth herein. Seller shall be responsible for any expenses relative to consultation with their own attorney. The closing costs and cost of title insurance shall be the responsibility of and paid by the Buyer.

7. **Contingency Requirements.** The closing of this contract shall be contingent upon Buyer completing a successful test well in sufficient quantity and quality of water together with obtaining from the Kansas Division of Water Resources permits and appropriation rights in order for Buyer to utilize the water for Buyer's system. In the event this contingency is not satisfied to the discretion of the Buyer, then this agreement shall be null and void.

8. **Seller Reversionary Rights.** It is further agreed that in the event Buyer's water rights are ever abandoned, then the ownership of the subject matter property will be transferred to the then current owner of the Northwest Quarter (NW/4) of Section 14, Township 12 South, Range 18 West, Ellis County, Kansas.

9. **Binder.** It is understood and agreed that this agreement shall extend to and be binding upon the heirs, executors, administrators and assigns of the parties hereto. It is further agreed that the mutual obligations of the parties as set forth in this agreement shall survive the closing thereof.

IN WITNESS WHEREOF, the parties have hereunto set their hands the day and year first above written.

SELLER:

FRANK JOY FARMS, LLC , a Kansas Limited Liability Company

By



BUYER:

ELLIS COUNTY RURAL WATER DISTRICT NO. 6,  
Ellis County, Kansas

By



2/3/2023

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STATE OF KANSAS, COUNTY OF ELLIS, ss:

The foregoing instrument was acknowledged before me this 27<sup>th</sup> day of September, 2022, by Frank Jay, member of **Frank Joy Farms, LLC, a Kansas Limited Liability Company.**

Shari Fabrizius  
Notary Public

9-5-2024  
Appointment



STATE OF KANSAS, COUNTY OF ELLIS, ss:

The foregoing instrument was acknowledged before me this 27<sup>th</sup> day of September, 2022, by Travis Braun, for and on behalf of **Ellis County Rural Water District No. 6, Ellis County, Kansas.**

Shari Fabrizius  
Notary Public

9-5-2024  
Appointment



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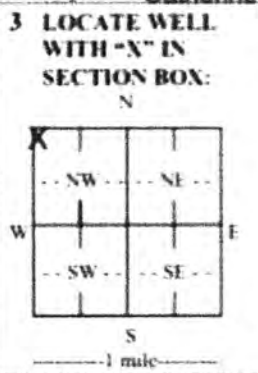
**WATER WELL RECORD Form WWC-5**

Division of Water Resources App No.  Well ID

Original Record  Correction  Change in Well Use

**1 LOCATION OF WATER WELL:** Fraction NW 1/4 NW 1/4 NW 1/4 NW 1/4 Section Number 14 Township Number T 12 S Range Number R 18 E  W

**2 WELL OWNER:** Last Name ellis coutry RWD #6 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   
 Business P.O. Box 11  
 Address Catherine State Kansa/ZIP 67627  
 City Catherine State Kansa/ZIP 67627  
 from intersection of 260th ave and severine rd. the well is south east of the intersection in corner of field



**4 DEPTH OF COMPLETED WELL:** 100 ft  
 Depth(s) Groundwater Encountered 1) 83 ft  
 2)  ft 3)  ft. or 4)  Dry Well  
**WELL'S STATIC WATER LEVEL:** 70 ft  
 below land surface, measured on (mo-day-yr) 06/25/2020  
 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 15 gpm  
 Bore Hole Diameter: 13 in. to 100 ft and  in. to  ft.

**5 Latitude:** 39.0158 (decimal degree)  
**Longitude:** 99.2973 (decimal degree)  
 Datum  WGS 84  NAD 83  NAD 27  
 Source for Latitude/Longitude  
 GPS (unit make model) (WAAS enabled?  Yes  No)  
 Land Survey  Topographic Map  
 Online Mapper

**6 Elevation:** 2154 ft  Ground Level  Top Source  Land Survey  GPS  Topographic Map  Other **KOLAR**

- 7 WELL WATER TO BE USED AS:**
- |  |   |   |
|--|---|---|
| 1 <input type="checkbox"/> Domestic<br><input type="checkbox"/> Household<br><input type="checkbox"/> Lawn & Garden<br><input checked="" type="checkbox"/> Livestock<br>2 <input type="checkbox"/> Irrigation<br>3 <input type="checkbox"/> Feedlot<br>4 <input type="checkbox"/> Industrial | 5 <input type="checkbox"/> Public Water Supply: well ID <span style="border: 1px solid black; padding: 2px 20px;"></span><br>6 <input type="checkbox"/> Dewatering: how many wells? <span style="border: 1px solid black; padding: 2px 20px;"></span><br>7 <input type="checkbox"/> Aquifer Recharge: well ID <span style="border: 1px solid black; padding: 2px 20px;"></span><br>8 <input type="checkbox"/> Monitoring: well ID <span style="border: 1px solid black; padding: 2px 20px;"></span><br>9 Environmental Remediation: well ID <span style="border: 1px solid black; padding: 2px 20px;"></span><br><input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction<br><input type="checkbox"/> Recovery <input type="checkbox"/> Injection | 10 <input type="checkbox"/> Oil Field Water Supply: lease<br>11 Test Hole: well ID <span style="border: 1px solid black; padding: 2px 20px;"></span><br><input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical<br>12 Geothermal: how many bores? <span style="border: 1px solid black; padding: 2px 20px;"></span><br>a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical<br>b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Int. of Water<br>13 <input type="checkbox"/> Other (specify): <span style="border: 1px solid black; padding: 2px 20px;"></span> |
|--|---|---|

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 5 in. to 100 ft. Diameter  in. to  ft. Diameter  in. to  ft.  
 Casing height above land surface 24 in. Weight  lbs. ft. Wall thickness or gauge No. sdr26

**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  Other (Specify)   
 Louvered Shutter  Key Punched  Wire Wrapped  Saw Cut  None (Open Hole)

**SCREEN-PERFORATED INTERVALS:** From 80 ft to 100 ft. From  ft. to  ft. From  ft. to  ft.  
**GRAVEL PACK INTERVALS:** From 20 ft to 100 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:**  No potential source of contamination within 200 ft  
 Septic Tank  Lateral Lines  Pit Privy  Livestock Pens  Insecticide Storage  
 Sewer Lines  Cess Pool  Sewage Lagoon  Fuel Storage  Abandoned Water Well  
 Watertight Sewer Lines  Sepage Pit  Feedyard  Fertilizer Storage  Oil Well Gas Well  
 Other (Specify)   
 Direction from well?  Distance from well?  ft

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO LOG (cont.) or PLUGGING INTERVAL
0	2	topsoil	86	93	brown clay
2	16	clay	93	96	grey clay <span style="float: right;">2/3/2023</span>
16	57	clay w/limestone streaks	96	100	shale
57	62	grey clay			
62	70	tan clay w/white rock			
70	73	grey clay			
73	79	sandrock			
79	83	grey clay			
83	86	sandrock			

**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) 06/26/2020 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 905 This Water Well Record was completed on (mo-day-year) 07/08/2020 under the business name of T & T Water Well Drilling

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## Analytical Results

FINAL

**Submitter:** Ellis Co RWD 6  
**Report To:** Tom Walters Jr.  
 Ellis Co RWD 6  
 1845 310th Ave  
 Hays, KS 67601

**Client ID:** KS2005122  
**State ID:** X3010  
**Collector:** TOM WALTERS  
**Collection ID/Chain#:** 417082

**Lab ID:** 1488588  
**Sample ID:** 28397  
**Description:** TW 2001 TESTWELL 2001  
**Matrix:** Raw Water

**Location Code:** TW 2001  
**Location Description:** TESTWELL 2001  
**Date Collected:** 08/12/2020 11:50  
**Date Received:** 08/13/2020 10:57

Parameter	Results	Units	RDL	DF	Unc.	Prepared	By	Analyzed	By	Qual	RegLmt
<b>(EPA 150.1, EPA120.1, SM2320B)</b>											
Alkalinity	280	mg/L	20	1		08/17/2020 13:08	ADL	08/17/2020 13:08	ADL		
Conductivity	1000	umho/cm	35	1		08/17/2020 13:08	ADL	08/17/2020 13:08	ADL		
pH	7.9	pH units	0.0	1		08/17/2020 13:08	ADL	08/17/2020 13:08	ADL		
<b>(EPA 180.1)</b>											
Turbidity	10	NTU	0.15	1		08/13/2020 14:12	ASG	08/13/2020 14:12	ASG		
<b>(EPA 245.1)</b>											
Mercury	<0.50	ug/L	0.50	1		08/17/2020 14:23	JAK	08/17/2020 14:23	JAK		
<b>(EPA 305.1)</b>											
Total Phosphorus	0.034	mg/L	0.020	1		09/03/2020 11:43	ADL	09/03/2020 11:43	ADL		

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## Analytical Results

### FINAL

**(EPA 525.2)**

Benzo(a)pyrene	<0.20 ug/L	0.20	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Bis(2-ethylhexyl)adipate	<40 ug/L	40	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Bis(2-ethylhexyl) phthalate	<1.2 ug/L	1.2	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Acenaphthylene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Anthracene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Benzo(a)anthracene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Benzo(b)fluoranthene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Benzo(k)fluoranthene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Benzo(g,h,i)perylene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Chrysene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Dibenzo(a,h)anthracene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Fluorene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Indeno(1,2,3-c,d)pyrene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Phenanthrene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Pyrene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Butyl Benzyl Phthalate	<1.0 ug/L	1.0	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Diethyl Phthalate	<1.0 ug/L	1.0	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Dimethyl Phthalate	<1.0 ug/L	1.0	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Di-n-butyl Phthalate	<1.0 ug/L	1.0	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Acenaphthene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Naphthalene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST
Fluoranthene	<0.50 ug/L	0.50	1		08/26/2020 09:43	KRL	09/08/2020 23:43	ST

**(General Chemistry/EPA 900.0)**

Gross Alpha including Uranium	11 pCi/L	3	1	3.20	08/12/2020 11:50	JTM	08/19/2020 15:09	ALS
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#### HERB515-4RB (EPA 515.4)

2,4-D as Acid	<7.0	ug/L	7.0	1	08/18/2020 16:23	ST	08/19/2020 19:39	ST
Silvex as Acid (2,4,5-TP)	<5.0	ug/L	5.0	1	08/18/2020 16:23	ST	08/19/2020 19:39	ST
Pentachlorophenol (PCP)	<0.10	ug/L	0.10	1	08/18/2020 16:23	ST	08/19/2020 19:39	ST
Dinoseb (DNBP)	<0.70	ug/L	0.70	1	08/18/2020 16:23	ST	08/19/2020 19:39	ST
Picloram (Tordon)	<0.80	ug/L	0.80	1	08/18/2020 16:23	ST	08/19/2020 19:39	ST
Dicamba (Banvel)	<1.0	ug/L	1.0	1	08/18/2020 16:23	ST	08/19/2020 19:39	ST

#### METALS 200.7 (Metals Digestion/EPA 200.7)

Calcium	84	mg/L	0.050	1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Iron	0.13	mg/L	0.010	1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Magnesium	23	mg/L	0.050	1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Potassium	7.2	mg/L	0.050	1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Silica	32	mg/L	0.11	1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Sodium	100	mg/L	0.050	1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Zinc	0.016	mg/L	0.0050	1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Total Hardness as CaCO3	300	mg/L		1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR
Corrosivity	0.66	LSI		1	08/14/2020 16:27	GSK	08/19/2020 16:12	TAR

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#### **METALS 200.8 (Metals Digestion/EPA 200.8)**

Aluminum	340	ug/L	10	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Antimony	<1.0	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Arsenic	2.6	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Barium	63	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Beryllium	<1.0	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Cadmium	<1.0	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Chromium	1.9	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Copper	3.7	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Lead	<1.0	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Manganese	29	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Nickel	4.1	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Selenium	11	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Silver	<1.0	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR
Thallium	<1.0	ug/L	1.0	1	08/14/2020 16:27	GSK	08/18/2020 16:29	TAR

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**PEST507508rb (EPA 507/508/EPA 508)**

Aldrin	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Gamma BHC (Lindane)	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Chlordane	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Dieldrin	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Endrin	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Heptachlor	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Heptachlor Epoxide	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Hexachlorobenzene	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Hexachlorocyclopentadiene	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Methoxychlor	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
PCB-1016	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
PCB-1221	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
PCB-1232	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
PCB-1242	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
PCB-1248	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
PCB-1254	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
PCB-1260	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST
Toxaphene	0.0 ug/L	1	08/17/2020 10:42	KRL	08/20/2020 21:19	ST

**PEST507rb (EPA 507/508/EPA 507)**

Alachlor	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Atrazine	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Butachlor	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Carbofuran (screening)	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Metolachlor (Dual)	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Metibuzin (Sencor)	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Prometon (Pramitol)	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Propachlor (Ramrod)	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST
Simazine	0.0 ug/L	1	08/17/2020 10:42	KRL	08/19/2020 22:38	ST



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**RA226/8rb (General Chemistry/Georgia Tech)**

Ra-226	<1	pCi/L	1	1	0.15	08/12/2020 11:50	JTM	09/16/2020 09:49	ALS
Ra-228	1	pCi/L	1	1	0.34	08/12/2020 11:50	JTM	09/16/2020 09:49	ALS
Combined Radium	1	pCi/L	1			08/12/2020 11:50	JTM	09/16/2020 09:49	ALS

**VOLA524rb (EPA 524.2VOC)**

Vinyl Chloride	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,1-Dichloroethene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Dichloromethane	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
cis-1,2-Dichloroethylene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Carbon tetrachloride	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Benzene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,2-Dichloroethane	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Trichloroethylene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,2-Dichloropropane	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Toluene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Tetrachloroethylene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Chlorobenzene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Ethylbenzene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
m,p-Xylene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
o-Xylene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Xylene	<1.0	ug/L	1.0	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Styrene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,2-Dichlorobenzene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
1,2-Dibromoethane (EDB)	<0.040	ug/L	0.040	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA
Dibromochloropropane	<0.10	ug/L	0.10	1		08/20/2020 18:35	MJA	08/20/2020 18:35	MJA



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## Analytical Results

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#### Sample Comments

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Sample improperly stored before anions was tested - replacement sent

Sample was subcontracted to the Iowa State Hygienic Laboratory, Kansas Drinking Water Certification Number E-10372, for radon analysis. Please see attached report for Accession Number 1176517

Sample exceeded the EPA recommended hold time for pH.

Low Benzo[a]pyrene surrogate recovery. Results may be biased.

SVOC matrix effects, results may be biased.

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## Analytical Results

FINAL

**Submitter:** Ellis Co RWD 6  
**Report To:** Tom Walters Jr.  
 Ellis Co RWD 6  
 1845 310th Ave  
 Hays, KS 67601

**Client ID:** KS2005122  
**State ID:** X3010  
**Collector:** Tom Walters Jr.  
**Collection ID/Chain#:** 421423

**Lab ID:** 1511580  
**Sample ID:** NITRATE TEST WELL  
**Description:** TW 2001 TESTWELL 2001  
**Matrix:** Raw Water

**Location Description:** TW 2001  
**Date Collected:** 08/26/2020 10:30  
**Date Received:** 08/27/2020 11:45

*SEWERIN  
 TEST WELL*

Parameter	Results	Units	RDL	DF	Unc.	Prepared	By	Analyzed	By	Qual	RegLmt
<b>ION CHROM (EPA 300.0)</b>											
Nitrate(measured as N)	4.5	mg/L	0.50	1		08/27/2020 19:13	DET	08/27/2020 19:13	DET		

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KGS	Water
Water	Well Data

## Specific Water Well Detail

STUDY WELL "A"

**Well T12S, R18W, Sec. 10, SW NE SW SE, Action: Constructed**

Location Info		
Owner: Baker, Richard		Status: Constructed
Location: T12S, R18W, Sec. 10, SW NE SW SE		County: Ellis
Directions: From Hays, Hwy 183 N, to Severin Rd on East Side		
Latitude: 39.0182195	Longitude: -99.3032294	Datum NAD 27
Latitude: 39.018232	Longitude: -99.303611	Datum NAD 83
Longitude and latitude from GPS measurements.		
GPS Latitude: 39.018232	GPS Longitude: -99.303611	Datum WGS84
View well on interactive map This link will create a new window and display an interactive map of this well and its neighbors.		
General Info		
Well Depth: 90 ft.	Elevation: 2177 ft.	
Static Water Level: 48 ft.	Est. Yield: 30 gpm.	
Comp. Date: 19-Nov-2014	Well Use: Domestic, Livestock	
DWR Applic. #: Baker	Other ID:	
Driller Info		
Driller: Karst Water Well Drilling & Service, Inc.		License #: 199
Scanned Form		
View scan of this form in PDF format.		
You will need the Acrobat PDF Reader, available free from Adobe, to read this file.		
Chemical Sample Submitted?: No		
Water Well disinfected?: Yes		
Ground water encountered: 65 ft.		
Pump test data: Well water was 54 ft after 1 hours pumping 30 gpm		
Bore hole diameter: 10 inches to 90 ft		
Casing Info		
Casing Type: PVC		Diam: 5 in. to 90 ft
Casing Joints: Glued		
Casing height above land surface: 36 in		
Casing Weight: 2.91 lbs/ft		
Wall thickness or gauge no.: 21		
Screen and Perforation Info		
Screen Type: PVC		Screen Openings: Saw cut
Screen-perforated intervals		From: 50 ft to 90 ft
Gravel pack intervals		From: 0 ft to 20 ft

ADJACENT WELL  
WITHIN 1/2 MILE.  
SEE ATTACHED EXHIBIT  
FOR LOCATION.

2/3/2023

Water Resources  
Received

KS Dept Of Agriculture

<b>Grout Info</b>	
<b>Grout used:</b> Bentonite	<b>From:</b> 0 to 20 ft
<b>Source of Possible Contamination</b>	
<b>Source:</b>	
<b>Direction from well:</b>	<b>Distance:</b> ft
<b>Lithologic Log</b> (Log data entered from KOLAR.)	
<b>From:</b> 0 ft. to 2 ft.	Top Soil
<b>From:</b> 2 ft. to 10 ft.	Clay
<b>From:</b> 10 ft. to 12 ft.	Gravel
<b>From:</b> 12 ft. to 15 ft.	Limestone Clay
<b>From:</b> 15 ft. to 30 ft.	Limestone
<b>From:</b> 30 ft. to 33 ft.	Soft shale
<b>From:</b> 33 ft. to 43 ft.	Limestone
<b>From:</b> 43 ft. to 45 ft.	Soft Shale
<b>From:</b> 45 ft. to 50 ft.	Limestone
<b>From:</b> 50 ft. to 60 ft.	Soft Shale
<b>From:</b> 60 ft. to 63 ft.	Soft Shale
<b>From:</b> 63 ft. to 65 ft.	Limestone
<b>From:</b> 65 ft. to 85 ft.	Limestone and Shale
<b>From:</b> 85 ft. to 90 ft.	Shale

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.

2/3/2023

Water Resources  
 Received

KS Dept Of Agriculture



KGS	Water Well Data base
Water	

Specific Water Well Detail

STUDY WELL "B"  
2/3/2023

Water Resources Received

**Well T12S, R18W, Sec. 10, SE SE SE, Action: Constructed**

KS Dept Of Agriculture

ADJACENT WELL WITHIN 1/2 MILE. SEE ATTACHED EXHIBIT FOR LOCATION.

<b>Location Info</b>		
<b>Owner:</b> Baker, Walter	<b>Status:</b> Constructed	
<b>Location:</b> T12S, R18W, Sec. 10, SE SE SE	<b>County:</b> Ellis	
<b>Directions:</b> From Hays, 8.25 mi N		
<b>Latitude:</b> 39.0169744	<b>Longitude:</b> -99.2982981	Datum NAD 27
<b>Latitude:</b> 39.0169852	<b>Longitude:</b> -99.2986781	Datum NAD 83
Longitude and latitude calculated by Survey from township-range-section-quarter calls. Only good to within the quarter call accuracy.		
<b>View well on interactive map</b> This link will create a new window and display an interactive map of this well and its neighbors.		
<b>General Info</b>		
<b>Well Depth:</b> 100 ft.	<b>Elevation:</b> ft.	
<b>Static Water Level:</b> 25 ft.	<b>Est. Yield:</b> gpm.	
<b>Comp. Date:</b> 01-Dec-1993	<b>Well Use:</b> Domestic	
<b>DWR Applic. #:</b>	<b>Other ID:</b>	
<b>Driller Info</b>		
<b>Driller:</b> Karst Water Well Drilling & Service, Inc.	<b>License #:</b> 199	
<b>Scanned Form</b>		
<a href="#">View scan of this form in PDF format.</a>		
You will need the <a href="#">Acrobat PDF Reader</a> , available free from Adobe, to read this file.		
<b>Chemical Sample Submitted?:</b> No		
<b>Water Well disinfected?:</b>		
<b>Ground water encountered:</b> 45 ft. , 0 ft. , 0 ft.		
Pump test data: Well water was 0 ft after 0 hours pumping 0 gpm		
<b>Casing Info</b>		
<b>Casing Type:</b> PVC	<b>Diam:</b> 5 in. to 80 ft	
<b>Casing Joints:</b>	<b>Diam:</b> 0 in. to 0 ft	
	<b>Diam:</b> 0 in. to 0 ft	
<b>Casing height above land surface:</b> in		
<b>Casing Weight:</b> lbs/ft		
<b>Wall thickness or gauge no.:</b>		
<b>Screen and Perforation Info</b>		
<b>Screen Type:</b> PVC	<b>Screen Openings:</b> Saw cut	
<b>Screen-perforated intervals</b>	<b>From:</b> 80 ft to 100 ft	
	<b>From:</b> 0 ft to 0 ft	
	<b>From:</b> 0 ft to 0 ft	

<b>Gravel pack intervals</b>		<b>From:</b> ft to ft
<b>Grout Info</b>		
<b>Grout used:</b> Bentonite	<b>From:</b> 0 to 20 ft <b>From:</b> 0 to 0 ft <b>From:</b> 0 to 0 ft	
<b>Source of Possible Contamination</b>		
<b>Source:</b> OTHER		
<b>Direction from well:</b>		<b>Distance:</b> 0 ft
<b>Lithologic Log</b> (Log data entered by KGS.)		
<b>From:</b> 0 ft. to 6 ft.	top soil	
<b>From:</b> 6 ft. to 10 ft.	gumbo, clay	
<b>From:</b> 10 ft. to 45 ft.	clay	
<b>From:</b> 45 ft. to 75 ft.	shale	
<b>From:</b> 75 ft. to 81 ft.	white clay	
<b>From:</b> 81 ft. to 100 ft.	Post Rock limestone	

Kansas Geological Survey  
 Comments to [webadmin@kgs.ku.edu](mailto:webadmin@kgs.ku.edu)  
 URL=<http://www.kgs.ku.edu/Magellan/WaterWell/index.html>  
 Display Programs Updated July 2, 2014  
 Data added continuously.

2/3/2023

Water Resources  
 Received

KS Dept Of Agriculture



KGS	Water Well Data base
Water	

Specific Water Well Detail

WARD WELL

Water Resources Received  
KS Dept Of Agriculture

**Well T12S, R18W, Sec. 15, NE SE NE, Action: Constructed**

ADJACENT WELL WITHIN 1/2 MILE. SEE ATTACHED EXHIBIT FOR LOCATION.

<b>Location Info</b>		
<b>Owner:</b> Newcomb, Dr. Ward M.		<b>Status:</b> Constructed
<b>Location:</b> T12S, R18W, Sec. 15, NE SE NE		<b>County:</b> Ellis
<b>Directions:</b> From Hays, 7 mi N, 1 mi E, and 0.75 mi N		
<b>Latitude:</b> 39.0115123	<b>Longitude:</b> -99.2983708	Datum NAD 27
<b>Latitude:</b> 39.0115232	<b>Longitude:</b> -99.2987509	Datum NAD 83
Longitude and latitude calculated by Survey from township-range-section-quarter calls. Only good to within the quarter call accuracy.		
<b>View well on interactive map</b> This link will create a new window and display an interactive map of this well and its neighbors.		
<b>General Info</b>		
<b>Well Depth:</b> 100 ft.	<b>Elevation:</b> ft.	
<b>Static Water Level:</b> 65 ft.	<b>Est. Yield:</b> 80 gpm.	
<b>Comp. Date:</b> 25-Jan-1982	<b>Well Use:</b> Oil Field Water Supply	
<b>DWR Applic. #:</b>	<b>Other ID:</b>	
<b>Driller Info</b>		
<b>Driller:</b> Karst Water Well Drilling & Service, Inc.		<b>License #:</b> 199
<b>Scanned Form</b>		
View scan of this form in PDF format.		
You will need the <a href="#">Acrobat PDF Reader</a> , available free from Adobe, to read this file.		
<b>Chemical Sample Submitted?:</b> No		
<b>Water Well disinfected?:</b>		
<b>Ground water encountered:</b> 0 ft. , 0 ft. , 0 ft.		
Pump test data: Well water was 0 ft after 0 hours pumping 0 gpm		
<b>Casing Info</b>		
<b>Casing Type:</b>	<b>Diam:</b> 0 in. to 0 ft	
<b>Casing Joints:</b>	<b>Diam:</b> 0 in. to 0 ft	
	<b>Diam:</b> 0 in. to 0 ft	
<b>Casing height above land surface:</b> in		
<b>Casing Weight:</b> lbs/ft		
<b>Wall thickness or gauge no.:</b>		
<b>Screen and Perforation Info</b>		
<b>Screen Type:</b>	<b>Screen Openings:</b>	
<b>Screen-perforated intervals</b>	<b>From:</b> 80 ft to 100 ft	
	<b>From:</b> 0 ft to 0 ft	
	<b>From:</b> 0 ft to 0 ft	



<b>Gravel pack intervals</b>		<b>From: ft to ft</b>
<b>Grout Info</b>		
<b>Grout used:</b>	<b>From: 0 to 0 ft</b> <b>From: 0 to 0 ft</b> <b>From: 0 to 0 ft</b>	
<b>Source of Possible Contamination</b>		
<b>Source:</b>		
<b>Direction from well:</b>	<b>Distance: 0 ft</b>	
<b>Lithologic Log</b> (Log data entered by KGS.)		
<b>From: 0 ft. to 4 ft.</b>	top soil	
<b>From: 4 ft. to 26 ft.</b>	yellow clay	
<b>From: 26 ft. to 31 ft.</b>	blue clay	
<b>From: 31 ft. to 48 ft.</b>	brown clay	
<b>From: 48 ft. to 100 ft.</b>	white rock	

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.

2/3/2023

Water Resources  
 Received

KS Dept Of Agriculture



2/3/2023

Water Resources  
Received

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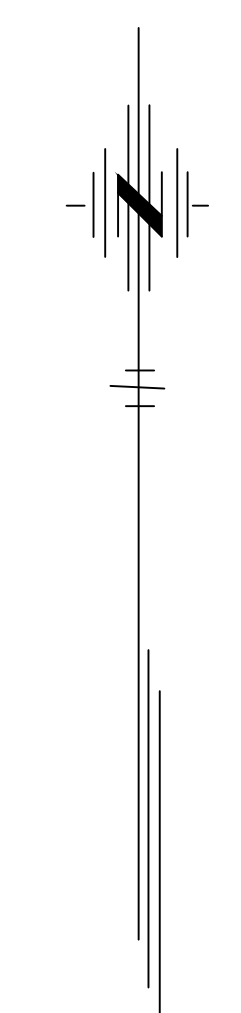
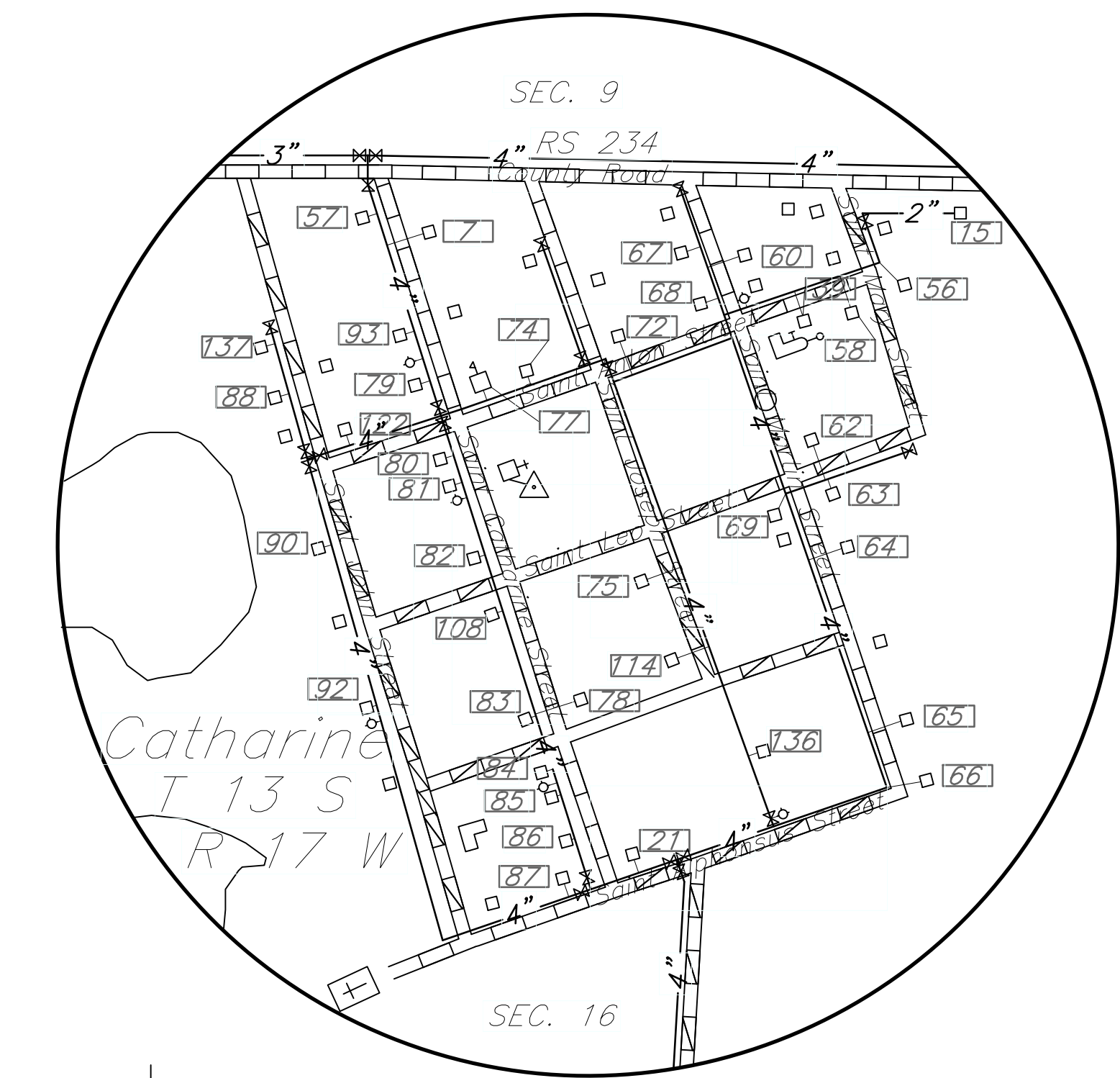


2/3/2023

Water Resources  
Received

KS Dept Of Agriculture

- 1 Alfred Geist
- 2 John Polser
- 3 Frank Polifka
- 4 Maurice Pfeifer
- 5 Alfred Dreiling
- 6 Leon Dinkel
- 8 Mary Dreiling
- 9 Dennis Peterson
- 10 Merlin Romme
- 11 DSNWK
- 12 DSNWK
- 13 Dreiling Oil Inc.
- 14 Kenny Meier
- 16 James Rohleder
- 17 Monte Wolf
- 18 (P) Walter Staab
- 19 Warren Schmidt
- 20 Alfred Staab
- 22 Bill Brungardt
- 23 Dorothy Lang
- 24 Alfred C. Staab
- 25 Dennis Staab
- 26 Alice Polifka
- 27 Marion Staab
- 28 John Karlin
- 29 John Karlin
- 30 Todd Staab
- 31 Benno Staab
- 32 Paul Meis
- 33 Mark Jensen
- 34 Mark Jensen
- 35 Herbert Staab
- 36 Viola Staab
- 37 Tom Walters
- 38 Melvin Schmidt
- 40 (P) Ed Linenberger
- 41 Emery Schmidt
- 42 (P) Leo Dreiling Trust
- 43 (P) Marvin Braun
- 44 (P) Alfred Dreiling
- 45 (P) Allen Leikam
- 46 Elaine Shields
- 47 Hank Rupp
- 48 Tom Berens
- 49 Thiele Corp.
- 50 Leroy Meis
- 51 Brandon Weidenhaft
- 52 Marshall Kitchen
- 53 (P) Pat Staab
- 54 Monte Wolf
- 55 Dave Nehis
- 59 Dorothy Staab
- 61 (P) Charles Cockrell
- 70 Dale Befort
- 71 J. Bradley Rea
- 73 Rick Wolf
- 76 Bob Herl
- 89 Tom Geist
- 91 Rex Chambers
- 94 Total Lease Service Inc.
- 95 Tom White
- 96 Tom Schmidt
- 97 Frank Miller
- 98 Gary Miller
- 99 Bart Willey
- 100 Dan Basgall
- 101 Rick Wolf
- 102 Rodney Magnett
- 103 Jerry Juenemann
- 104 Bob Custer
- 105 Ron Dreher
- 106 Steve Castleman
- 107 Peggy Sue's
- 109 Frank Polifka Jr.
- 110 Marvin Kuhn
- 111 Jim Mall
- 112 Keith Werth
- 113 Donald Lang
- 115 Vernon Walter
- 116 Brian Lang
- 117 Ralph Lang
- 118 Jon Kisner
- 119 Tom Roy
- 120 Lang Diesel Inc.
- 121 Keith Schmidt
- 123 John Dopita
- 124 Stouffer Body Shop
- 125 Jack Polifka
- 126 Joe Glassman
- 127 Dave Hertel
- 128 Justin Scheck
- 129 A.J. Leiker Jr.
- 130 Dale Dreher
- 131 Frank Polifka Jr.
- 132 Mike Schmidt
- 133 Bob Shubert
- 134 Alan Stecklein
- 135 Scott Zimmerman
- 138 Farron Leiker



Scale: 1" = 3000'

- 7 Agnes Zwenger
- 15
- 19 Warren Schmidt
- 21 Dave Schmidt
- 39 Schmidt's Store
- 51 Steve Dinkel
- 56 Phyllis Schmidt
- 57 Keith Campbell
- 58 Nora Schmidt
- 60 Dennis Schelden
- 62 Tony Meginnis
- 63 Joe Dinkel
- 64 Joe Staab
- 65 Ed Meis
- 66 Vterson Schmidt
- 67 Mike Meis
- 68 Joanne Dreiling
- 69 Ken Meis
- 72 Butch Davis
- 74 Church
- 75 Tom Sauer
- 77 Church
- 78 Alfred Walters
- 79 Charles Dorzweiler
- 80 Jan Walters
- 81 Pat Walters
- 82 Irma Staab
- 83 Joe Wilkerson
- 84 A.J. Leiker
- 85 Keith Brull
- 86 Keith Brull
- 87 LaVern Dreiling
- 88 Nick Dorzweiler
- 90 James Walters
- 92 Dan Dorzweiler
- 93 Keith Campbell
- 114 Vernon Walter
- 122 Christine Schmidt
- 136 Ron Smith
- 137 Ellis Co. Rural Fire #2

**LEGEND**

- House Hold Meter - [Symbol]
- Pasture Meter - [Symbol]
- Meter Number - [Symbol]
- Stand Pipe or Storage Tank - [Symbol]
- Pump or Water Well - [Symbol]
- Valves - [Symbol]
- Water District and Boundary - [Symbol]
- Fire Hydrant - [Symbol]

Updated 3/15/04

CATHARINE WATER DISTRICT

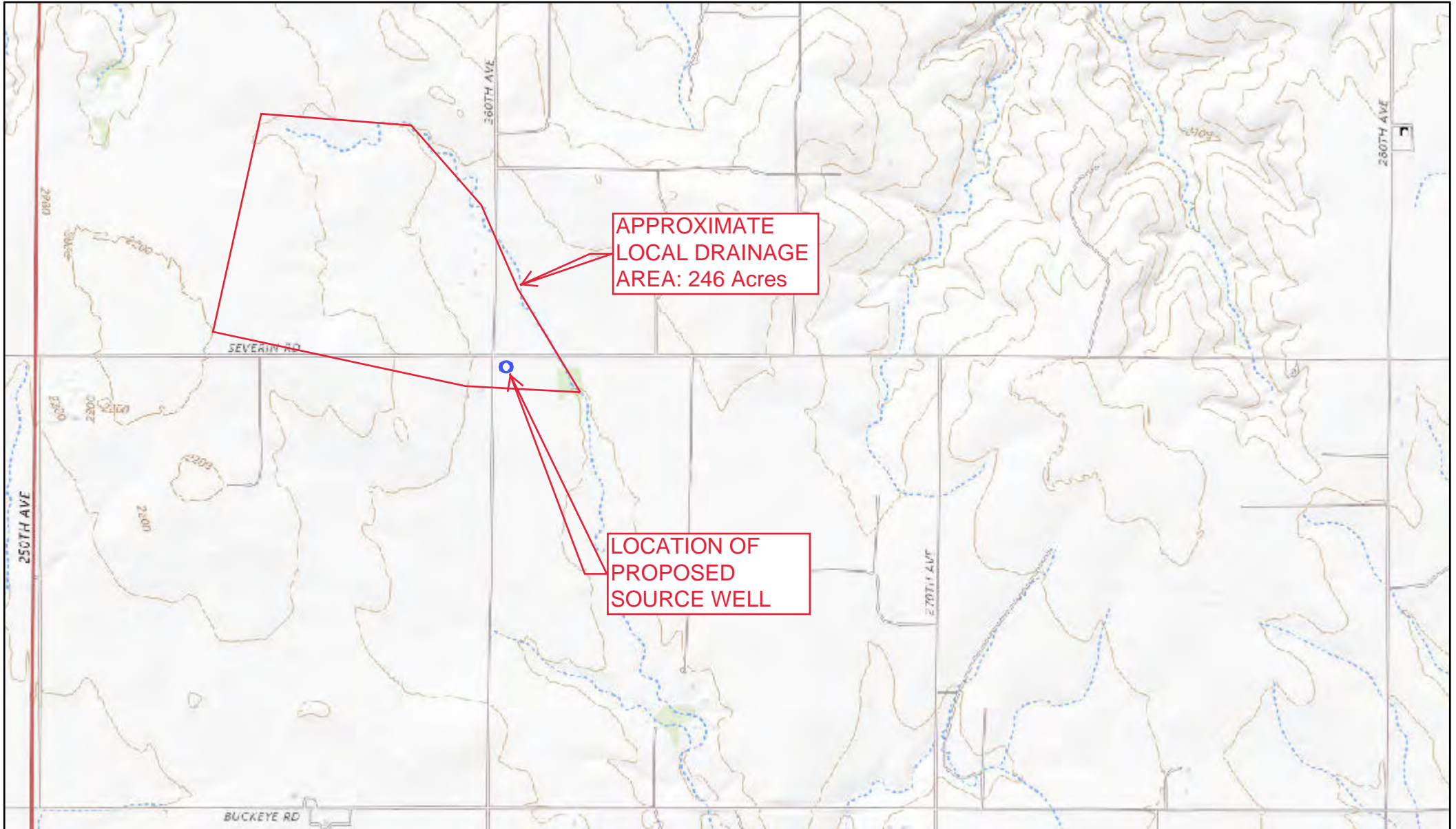
RURAL WATER DISTRICT NO. 6  
ELLIS COUNTY, KANSAS

PENCO ENGINEERING, P.A.  
PLAINVILLE, KS

DESIGNED BY: JJD	SCALE: 1" = 3000'
CHECKED BY: DKO	JOB NO.: D099012
DRAWN BY: KLF	DATE: NOV 1999



# Ellis County RWD No. 6

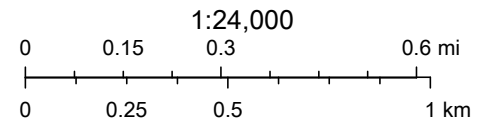


2/3/2022, 12:37:51 PM

2/3/2023

Water Resources  
Received

KS Dept Of Agriculture



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

Web AppBuilder for ArcGIS

mywaterway.epa.gov/community/102600070401/overview

Let's get started!

WATERSHED: Upper North Fork Big Creek (102600070401) Go OR Use My Location

waters in your community are connected within a local watershed. The **status outline on the map shows your watershed.**

Water quality is monitored for physical, chemical and biological factors. The monitoring results are assessed against EPA approved water quality standards or thresholds. Water can be impaired, meaning it is not able to be used for certain purposes.... [show more](#)

DISCLAIMER

**1** Waterbodies **4** Monitoring & Sensors **N/A** Permitted Dischargers

Waterbodies | Monitoring & Sensors | Permitted Dischargers

**Waterbody Conditions:**

● Good ● Impaired ▲ Condition Unknown Expand All

Overall condition of **1** waterbody in the *Upper North Fork Big Creek* watershed.

● **Big Cr, N Fk**  
State Waterbody ID: KS-102600074

**Year Last Reported:** 2020  
**Waterbody Condition:** Impaired  
**Organization Name (ID):** Kansas (21KAN001)

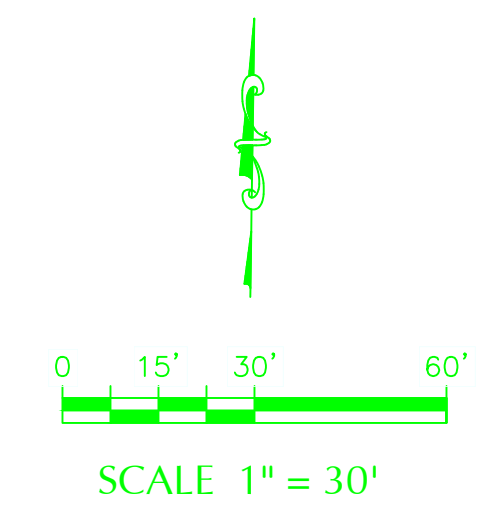
Evaluated Use	Condition
Drinking Water	Impaired
Aquatic Life	Impaired
Recreation	Good
Other	Good

2/3/2023

Water Resources  
Received

KS Dept Of Agriculture





LEGEND

- DIRECTION OF SURFACE FLOW
- EXISTING GRADE CONTOUR

P:\Sloan E&C\PROJECTS\2105-22-001\_Ellis Co RWD No. 6 - Catherine\Working Drawing\Ellis Co RWD No.6 - APR 2021.dwg Jan. 25, 23 3:57 pm

No.	REVISION	BY	DATE

DATE:	1/25/23
SCALE:	1" = 30'
PROJECT NO:	2105-22-001
DESIGNED BY:	HCS
DRAWN BY:	HCS
CHECKED BY:	XXX
REVISED BY:	XXX



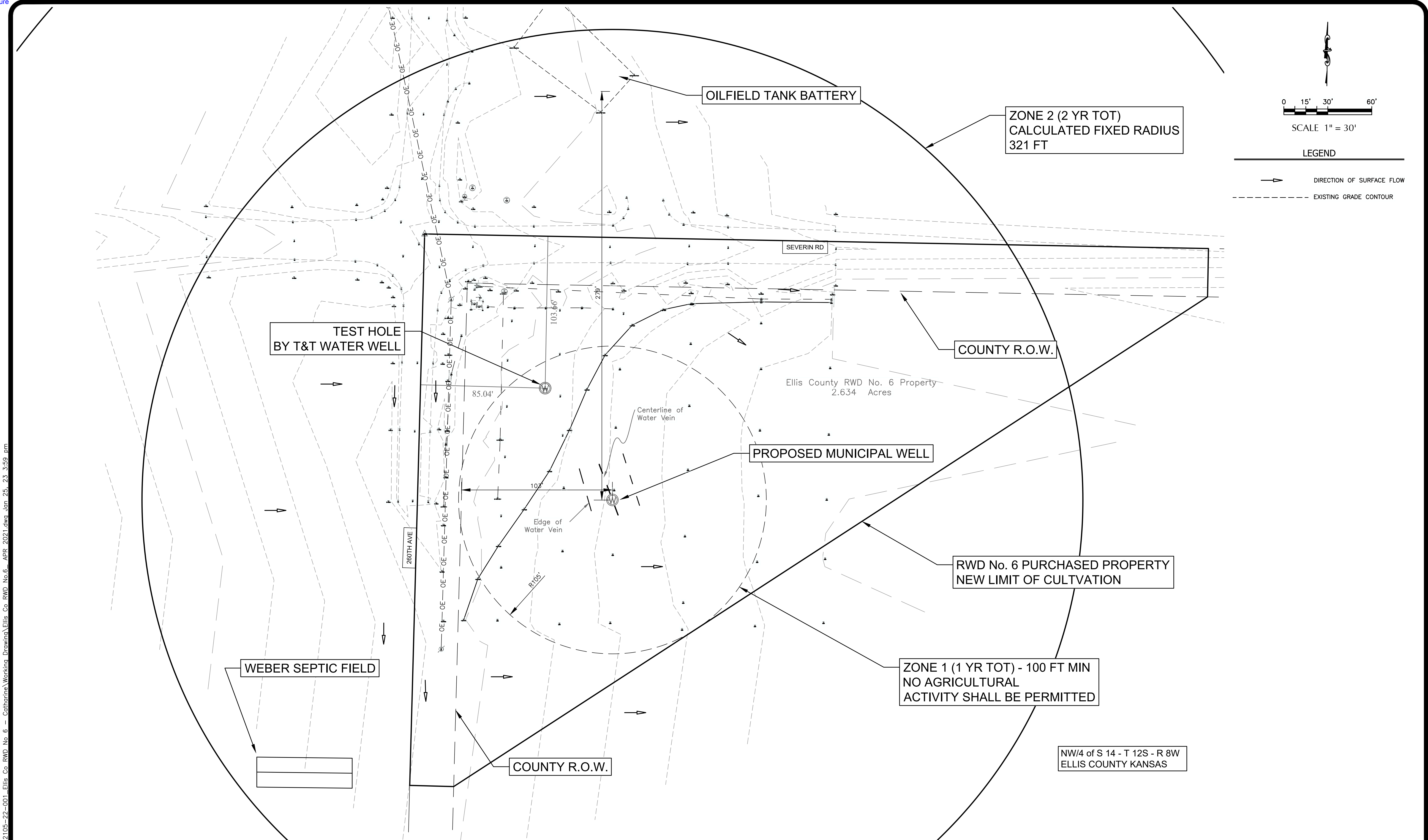
FOR REVIEW:  
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF HALE SLOAN, P.E., REG. #22564 ON 1/25/23. IT IS NOT TO BE USED FOR BIDDING, PERMIT OR CONSTRUCTION.



ELLIS COUNTY RURAL WATER DISTRICT No. 6  
CATHERINE  
PUBLIC WATER SUPPLY SURVEY  
PROJECT NO: 2105-22-001

SHEET NO.  
1 OF 1





0 15' 30' 60'  
 SCALE 1" = 30'

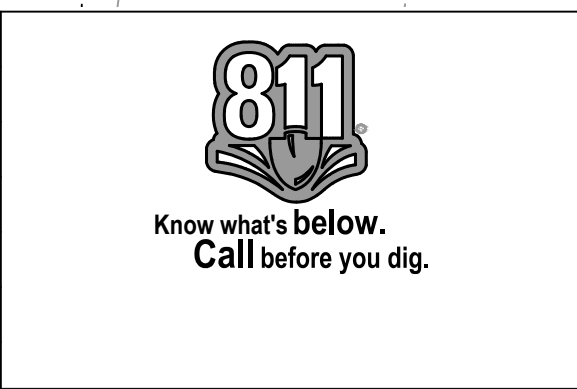
LEGEND

→ DIRECTION OF SURFACE FLOW  
 - - - - - EXISTING GRADE CONTOUR

P:\Sloan E&C\PROJECTS\2105-22-001\_Ellis Co RWD No. 6 - Catherine Working Drawing\Ellis Co RWD No. 6 - APR 2021.dwg Jan. 25, 23 3:59 pm

No.	REVISION	BY	DATE

DATE: 1/25/23  
 SCALE: 1" = 30'  
 PROJECT NO: 2105-22-001  
 DESIGNED BY: HCS  
 DRAWN BY: HCS  
 CHECKED BY: XXX  
 REVISED BY: XXX



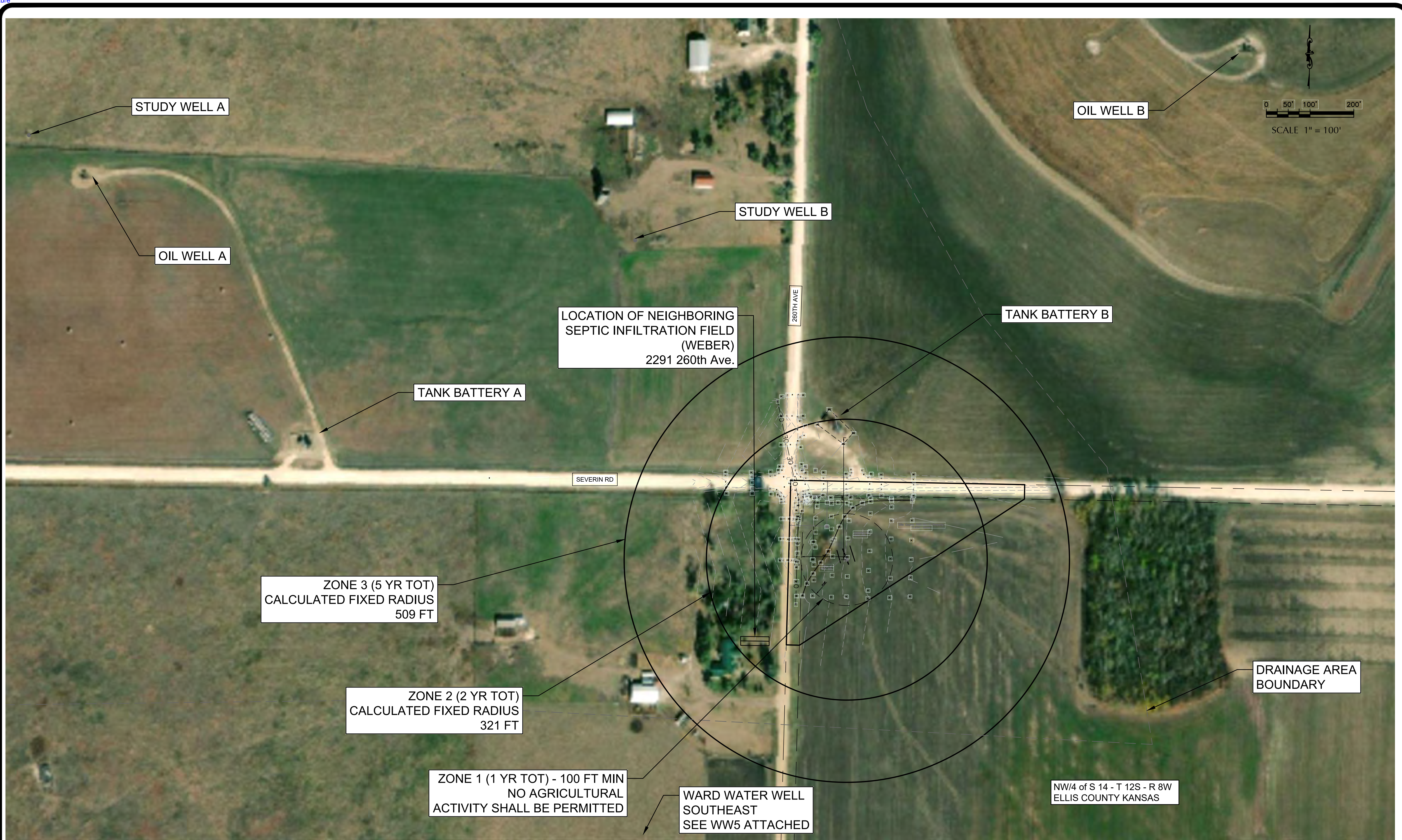
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ELLIS COUNTY RURAL WATER DISTRICT No. 6  
 CATHERINE  
 PUBLIC WATER SUPPLY SURVEY  
 PROJECT NO: 2105-22-001

SHEET NO.  
 1 OF 1

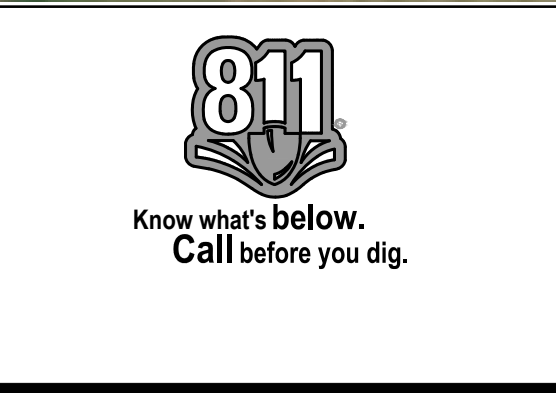




P:\Sloan\_E&C\PROJECTS\2105-22-001\_Ellis Co RWD No. 6 - Catherine Working Drawing\Ellis Co RWD No.6 - APR 2021.dwg Jan. 26, 23 12:59 pm

No.	REVISION	BY	DATE

DATE: 1/26/23  
 SCALE: 1" = 100'  
 PROJECT NO: 2105-22-001  
 DESIGNED BY: HCS  
 DRAWN BY: HCS  
 CHECKED BY: XXX  
 REVISED BY: XXX



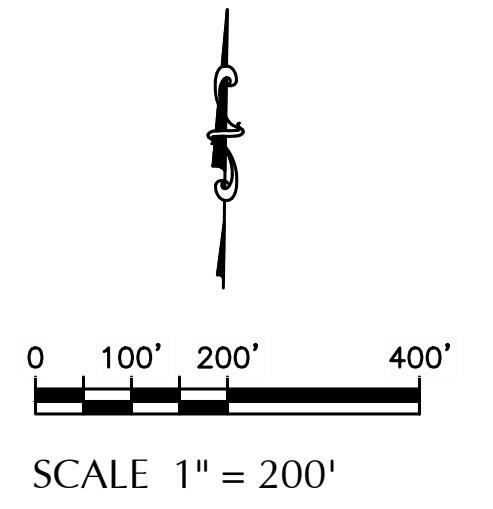
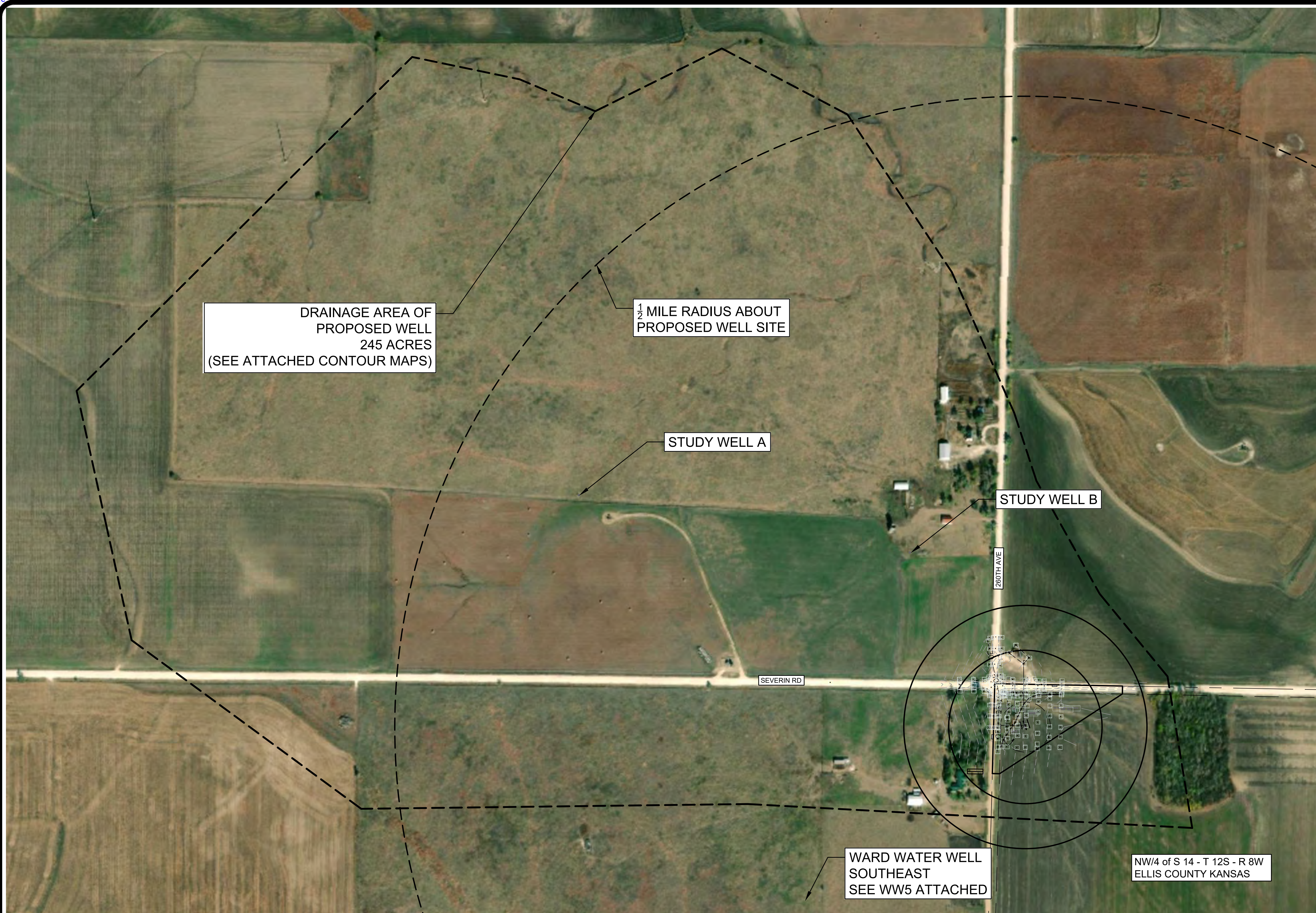
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ELLIS COUNTY RURAL WATER DISTRICT No. 6  
 CATHERINE  
 PUBLIC WATER SUPPLY SURVEY  
 PROJECT NO: 2105-22-001

SHEET NO.  
 1 OF 1





DRAINAGE AREA OF  
PROPOSED WELL  
245 ACRES  
(SEE ATTACHED CONTOUR MAPS)

1/2 MILE RADIUS ABOUT  
PROPOSED WELL SITE

STUDY WELL A

STUDY WELL B

SEVERIN RD

260TH AVE

WARD WATER WELL  
SOUTHEAST  
SEE WW5 ATTACHED

NW4 of S 14 - T 12S - R 8W  
ELLIS COUNTY KANSAS

P:\Sloan E&C\PROJECTS\2105-22-001\_Ellis Co RWD No. 6 - Catherine Working Drawing\Ellis Co RWD No.6 - APR 2021.dwg Jan. 26, '23 1:12 pm

No.	REVISION	BY	DATE

DATE: 1/26/23  
 SCALE: 1" = 200'  
 PROJECT NO: 2105-22-001  
 DESIGNED BY: HCS  
 DRAWN BY: HCS  
 CHECKED BY: XXX  
 REVISED BY: XXX



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ELLIS COUNTY RURAL WATER DISTRICT No. 6  
 CATHERINE  
 PUBLIC WATER SUPPLY SURVEY  
 PROJECT NO: 2105-22-001

SHEET NO.  
 1 OF 1



**DATA ENTRY SYSTEM ID NUMBER SHEET**

**FILE NUMBER** 50956

<b>APPLICANT PERSON ID &amp; SEQ #</b>	<b>PDIV ID</b>	<b>BATTERY ID</b>
<u>15222</u>	<u>90080</u>	

<b>LANDOWNER PERSON ID &amp; SEQ #</b>	<b>PUSE ID</b>
<u>15222</u>	

**WATER USE CORRESPONDENT  
PERSON ID & SEQ #**

15222

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**DATA ENTRY SYSTEM ID NUMBER SHEET**

**FILE NUMBER** \_\_\_\_\_

<b>APPLICANT PERSON ID &amp; SEQ #</b>	<b>PDIV ID</b>	<b>BATTERY ID</b>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

<b>LANDOWNER PERSON ID &amp; SEQ #</b>	<b>PUSE ID</b>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

<b>WATER USE CORRESPONDENT PERSON ID &amp; SEQ #</b>
_____
_____
_____
_____