



WATER-RIGHT DOCKET

Ozark National Scenic Riverways

Docket No: 3

TWO RIVERS WELL

Supporting Hydro Data

01-20-1971: letter to nps from department of interior regarding reports of the well drilled at round spring, alley spring and big spring



UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Water Resources Division
P.O. Box 340
Rolla, Missouri 65401

January 20, 1971

Mr. Don Barrett
U.S. Department of Interior
National Park Service
Western Service Center
450 Golden Gate Ave., Box 36035
San Francisco, California 94102

Dear Mr. Barrett:

Enclosed are reports of the wells drilled at Round Spring, Alley Spring and Big Spring. Each report consists of:

1. Location map of well with respect to the 50-year flood.
2. Description of the drilling and completion of the well.
3. Insoluble residue log by Missouri Geological Survey.
4. Driller's log.
5. Pump test data and drawdown curves.
6. Water analysis by Missouri Geological Survey.
7. Copy of strip chart from observation well at Round Spring only.

In addition we are furnishing a summary of the data obtained from the ~~six~~ wells drilled to date and their relationships to the knobs area in the vicinity of Eminence and Two Rivers and to the specific capacity map of the southern part of Missouri taken from Mineral and Water Resources of Missouri.

Time spent on the well drilling activities at the three sites consisting of well location, drilling, pump testing and report writing is summarized below:

Walter Oakes	34 days well location, drilling & pump testing.
Gerald Feder	2 days pump testing.
Leo Emmett	4 days pump testing & data analysis.
E. J. Harvey	6 days, drilling, pump testing & report writing.

It has been a pleasure to work with you on the drilling activities. If you have any questions regarding these reports or the data gathered please do not hesitate to write us.

Sincerely,

A handwritten signature in cursive script, appearing to read "E. J. Harvey".

*E. J. Harvey
Assistant District Chief*

Enclosures

SUMMARY

We are including a summary of the drilling to date in the tabulation below. The wells are listed in the order of decreasing specific capacities.

<u>Site</u>	<u>Formation penetrated</u>	<u>T.D.</u>	<u>Casing depth</u>	<u>Open Hole Dia.</u>	<u>Length</u>	<u>Yield</u>	<u>DD</u>	<u>Sp. Cap.</u>
Big Spring	Potosi 190-520	520	370	8	150	230	20	11
Pulltite Spring	Potosi 240-310	308	205	6	103	118	26	4.5
Round Spring	Potosi 180-400	400	200	8	200	120	43	2.8
Austin House	Potosi 225-250	250	200	8	50	6	11	.55 *
Owls Bend	Potosi 75±303	303	202	6	101	50	112	.45
Alley Spring	Eminence 475-650	650	300	8	350	55	214	.26
Two Rivers	Potosi 160-350	350	100	8	250	11	110	.10

Some significance may become apparent from a comparison of the results in the tabulation, the graphs of the wells drilled, and the map showing their locations with respect to the igneous knobs in the area around Eminence. The wells at Big Spring, Pulltite Spring, Round Spring, Owls Bend and Two Rivers penetrated a substantial part of the Potosi section. The Austin House well penetrated a small part of the section. Big Spring well is located farthest from the center of the igneous knobs and had the highest specific capacity (11 gpm per foot of drawdown). Pulltite Spring well is a little closer in and has a good specific capacity (4.5 gpm per foot of drawdown). Austin House well, although it penetrated only a few feet of the Potosi, had a specific capacity that was much lower than those at Pulltite and Round Springs, but was higher than those obtained at Owls Bend and Two Rivers. Owls Bend well near the eastern flank of the knobs area had a rather low specific capacity for the thickness of Potosi penetrated but not as low as that of the Two Rivers well which probably penetrated most of the Potosi section. The Two Rivers well is essentially surrounded by igneous knobs. The well at Alley Spring did not penetrate the Potosi and for this reason is not included in the comparison.

* Rounding of numbers I had done in the past accounts for some small differences in the two tables and the figures shown on the map.

The comparison suggests that circulation of water in the Potosi is slower and retarded in the knobs area perhaps because of lack of fracture and bedding plane openings through which water might travel. Mineralization along fractures may have sealed openings to retard flow. Whatever the cause, lower yields might be expected in the knobs area and higher yields outside the knobs. Of course exceptions to this probably will be found as additional sites are developed.

Projected yields for various pumping levels				
SWL (feet)	PWL (feet)	DD (feet)	Yield (gpm)	Sp. Cap. (gpm/ft)
BIG SPRING				
53	78	25	280	11
	100	47	515	
	150	97	1,007	
	370	317	3,500	Bottom of casing
PULLTITE SPRING				
32	58	26	118	4.5
	100	68	306	4.5
	150	118	530	4.5
	200	168	760	4.5 Bottom of casing
ROUND SPRING				
80	123	43	120	2.8
	150	70	196	2.8
	175	95	266	2.8
	200	120	336	Bottom of casing
AUSTIN HOUSE				
57	102	45	23	.51
	150	93	47	
	200	143	73	Bottom of casing
OWLS BEND				
45	155	110	50	.45
	200	155	70	Bottom of casing
ALLEY SPRING				
55	270	215	58	.27
	300	245	66	Bottom of casing
TWO RIVERS				
92	210	118	11	.09 This pumping level is 110 ft. below bottom of casing.



conado Dolomite at an average depth of 500 to 600 feet. The wells that produce from this section are ideal for clubs, schools, small towns, and industries.

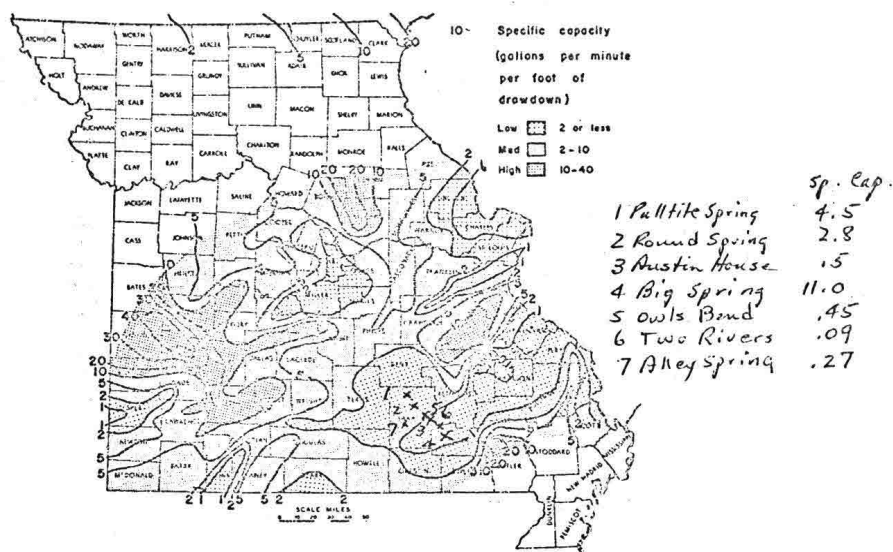


FIGURE 66.—Specific capacities of typical wells in the Ozarks.

Throughout the area numerous municipal and industrial wells yield 500 to 1,000 gallons per minute. These wells vary in depth. Wells that produce 300 to 500 gallons per minute average 1,000 to 1,500 feet in depth. Wells at Springfield in Greene County, for example, average 1,400 to 1,700 feet in depth and produce 500 to 1,000 gallons per minute. Wells at Rolla in Phelps County and Sullivan in Franklin County are 1,000 to 1,200 feet in depth and produce 400 to 600 gallons per minute.

Throughout the area requirements of 15 to 25 gallons per minute can normally be met by drilling to a depth of 300 to 350 feet through the Roubidoux Formation. This is usually an ideal depth for farm wells. Private wells for farms and dwellings in the central Ozarks average 300 feet in depth, whereas in the southwest part of the State the average depth to the Roubidoux is 800 feet.

Descriptions of aquifers

Lamotte Sandstone.—The Lamotte Sandstone is geologically the oldest aquifer in the State and is the basal unit of the Cambrian Sys-



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division
P.O. Box 340
Rolla, Missouri 65401

September 17, 1969

Mr. Gerard S. Witucki
Supervisory Hydrologist, Division of
Water Resources, SSC
National Park Service
450 Golden Gate Avenue
Box 36025
San Francisco, Calif. 94102

Dear Mr. Witucki:

Enclosed are our reports on the wells at Two Rivers and Austin House. We are also including the water analysis for Powder Mill Ferry well. Enclosed are the following:

1. Two descriptions of drilling and pump tests.
2. Two sample logs furnished by Mr. Robert Knight, Missouri Geological Survey and Water Resources.
3. Two water-level measurements taken during the pumping tests.
4. Two analyses of well waters.
5. Two letters recommending casing depth.
6. Flood profile and location map showing 50-year flood for Two Rivers well site.

A total of 16 days was spent on the project by U.S. Geological Survey personnel.

Sincerely,

Anthony Homyk
District Chief

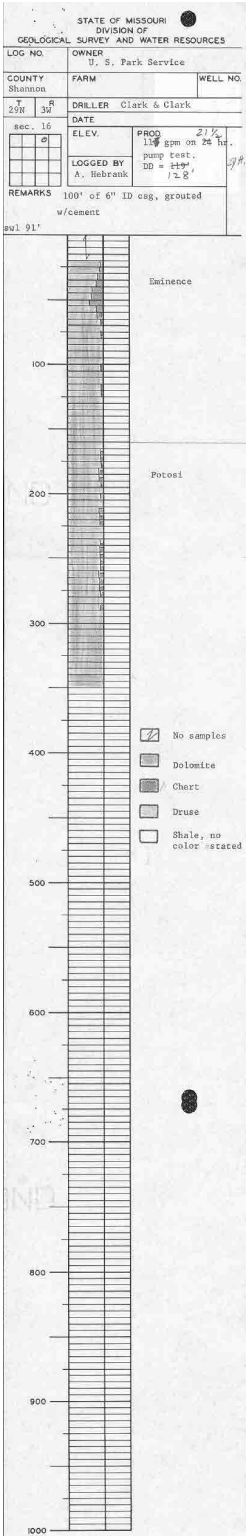
Enclosures

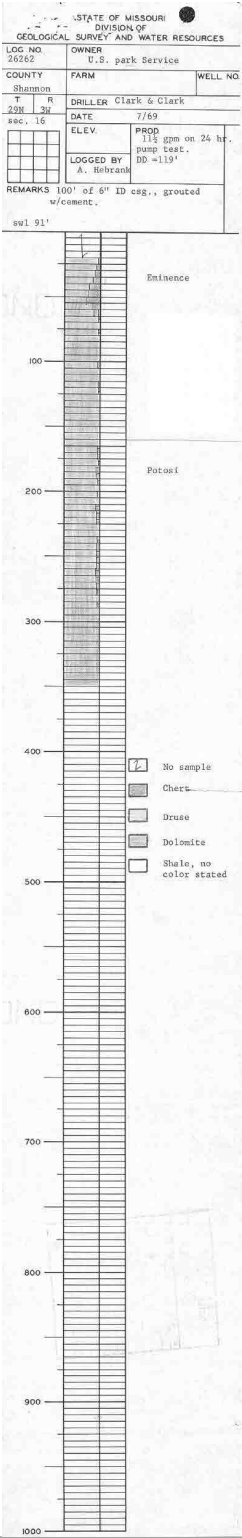
cc: Mo. Geol. Survey & Water Resources
P.O. Box 250, Rolla, Mo.

Two Rivers Well

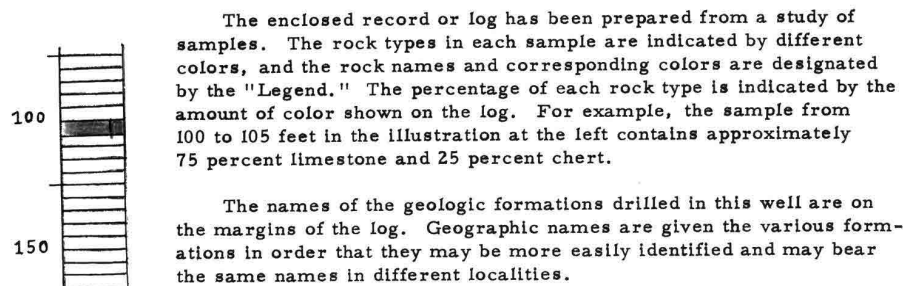
The first 20 feet of the well was drilled in clayey residuum. From 20 to 160 feet the well penetrated cherty Eminence Dolomite. The water yield from this formation was low. From 160 to 350 feet the well penetrated Potosi Dolomite. Despite the considerable thickness of Potosi penetrated the yield was poor. Apparently the close proximity to Precambrian granite hills limited ground-water circulation in the sedimentary strata in the vicinity of the well and the development of secondary porosity. The well was cased to 100 feet and pressure grouted with cement. The diameter of the remaining 249 feet is 8 inches.

A step-drawdown test showed 90 feet of drawdown at 10 gpm (gallons per minute) and 220 feet of drawdown at 20 gpm. This gave a specific capacity of about 0.1 gpm per foot of drawdown. A 24-hour pump test was performed and this also resulted in a specific capacity of approximately 0.1 gpm per foot of drawdown. Toward the end of the 24-hour pump test slight variations in the pumping rate caused fluctuations in the water level which made accurate analysis of the data difficult. However, the test indicated that for a sustained yield of 10 gpm a pump should be set at least 310 feet below the surface. Pumping rates above 10 gpm should not be attempted from this well.





EXPLANATION OF RECORD



The enclosed record or log has been prepared from a study of samples. The rock types in each sample are indicated by different colors, and the rock names and corresponding colors are designated by the "Legend." The percentage of each rock type is indicated by the amount of color shown on the log. For example, the sample from 100 to 105 feet in the illustration at the left contains approximately 75 percent limestone and 25 percent chert.

The names of the geologic formations drilled in this well are on the margins of the log. Geographic names are given the various formations in order that they may be more easily identified and may bear the same names in different localities.

WELL DRILLER'S REPORT

NATIONAL PARK SERVICE - LWSSC

Permit No. _____

1 WELL OWNER

Name U.S. Park Service PARK Ozark National Forest
 Address _____ Owners Well No. _____
 Local Site Name Two Rivers

10 CONSTRUCTION

Gravel Packed? Yes ☐ No ☒
 Washed gravel? Yes ☐ No ☐ Gravel Size _____ in.
 Gravel placed from _____ ft. To _____ ft.

2 LOCATION OF WELL

STATE Mu
 County Shannon Ground Water Basin _____
 N/S _____ Ft., E/W _____ Ft. From _____ Corner _____
 of Sec. 16, T. 59 N/S, R. 3 E/W, _____ M
 Distance from cities, roads, railroads etc. 3 miles, North of Hwy 106 on Hwy B

Surface seal provided? Yes ☒ No ☐ Casing Seal? Yes ☐ No ☐To what depth? 100 ft. Size or Diam. 6"Seal material 50 SKS CementDid any strata contain unpotable water? Yes ☐ No ☒

Type of contam. _____ Strata depth _____

Sealing method Pressure GroutingFrom 0 ft. To 100 ft.

" " " " " "

3 TYPE OF WORK

(check) New Well ☒
 Replacement Well ☐ Deepening ☐ Repair ☐
 Destroying ☐ If destroying, describe material & procedure _____

4 NATURE OF USE

(check) Testwell ☒
 Domestic ☐ Industrial ☐ Municipal ☐
 Stockwater ☐ Irrigation ☐ Mining ☐
 Others ☐

5 DRILLING METHOD

(check) Rotary ☐ Cable Tool ☒ Other ☐

6 BORE DIAMETER & DEPTHS

10 in. from 0 ft. to 100 ft.
6 " " 100 " " 350 "
 " " " " " "
 " " " " " "

7 CASING SCHEDULE

None ☐
 Steel ☒ Welded ☐ Threaded ☒
 Other ☐ New ☒ Used ☐
6 in. I.D. from 0 ft. to 100 ft. Gage 1.45
 " " " " " "
 " " " " " "
 " " " " " "
 Casing extends above ground level _____ ft.

8 PERFORATIONS

Perforated? Yes ☐ No ☒
 Type of perforator used _____
 Size of perforations _____ in. by _____ in.
 Perforation per row _____ Rows per ft. _____
 _____ perforations from _____ ft. to _____ ft.
 " " " " " "
 " " " " " "
 " " " " " "

9 SCREENS

Well screen installed? Yes ☐ No ☒
 Mfr's name _____ Model No. _____
 Type _____
 Diam.(in.) Slot size(in. x in.) Placed from (ft.) To (ft.)
 _____ x _____ to _____
 _____ x _____ to _____
 _____ x _____ to _____

11 WATER LEVELS

(feet below ground surface)

Depth water first found 34 ft. date June 1-69

Static water level before perforating _____ " "

" " " " after _____ " "

" " " " developing 91 " " July 10-69

12 FLOWING WELL

(check) No control ☐Controlled by? Valve ☐ Cap ☐ Plug ☐Does well leak around casing? Yes ☐ No ☐

Artesian pressure _____ ft. above ground surface,

Artesian flow _____ g.p.m., date _____

13 WELL TESTS

Dd - Drawdown is the distance in feet the water level is lowered below the static level

Developed? Yes ☒ No ☐ low the static levelBailed 6 hrs., rate _____ gpmPumped 29 " " 11 "

Surged _____ hrs. method _____ rate _____

Pump test? Yes ☒ No ☐ By whom? Clark & ClarkPump type Sum H.P. 30 Outlet size 3"Depth pumped from 335 ft., date July 10-69Yield 10 gpm w/ 87 ft., Dd., after 28 hrs" 50 " " 203 " " 140 "" 11 " " 136 " " 212 "

Bailer test _____ " " _____ " " _____

Recovery 84 ft. in 43 min (Time)Electric log? Yes ☐ No ☐ Chemical analysis? Yes ☐ No ☐Water temp. 72 °F Quality Good

14 PUMP

Installed? Yes ☐ No ☒

Mfr's name _____ Cap. _____

Type _____ H.P. _____ Model No. _____

Outlet size _____ in. Driven by _____

Depth to pump or bowels _____ ft. date _____

15 WELL DRILLER'S STATEMENT

Date started May 27 Date completed July 10-69State log filed? Yes ☒ No ☐

This well was drilled under my supervision and this report is true to the best of my knowledge and belief.

Co. Name Clark & Clark Drilling CoName Leanne McLawAddress P.O. Box 2, Leaning MoLicense No. _____ Date Sept 8, 1969

(18) ADDITIONAL REMARKS

Two Rivers Well Pump Test
7/10/69

Pumping Rate, 10 gallons per minute (gpm)

<u>Time (minutes)</u>	<u>Depth to water (ft)</u>
0	91.93
1	116.6
2	111.75
3	110.98
4	116.48
5	116.58
6	116.87
7	121.24
8	
9	126.75
10	129.0
12	132.96
14	134.77
16	136.28
18	137.59
20	141.65
26	152.66
30	156.88
35	161.50
40	164.65
51	170.87
60	174.83
80	178.03
92	179.75
100	179.58
110	180.25
120	180.15
130	179.70
141	178.87

Two Rivers Pump Test
7/10/69

Pumping Rate, 20 gallons per minute (gpm)

<u>Time (minutes)</u>	<u>Depth to water (ft)</u>
3.5	220
5	222.83
7	224.72
9	228.08
11	234.85
13	240.09
15	244.03
20	255
26	269.58
30	274.57
35	280.6
40	283.3
45	287.4
50	292.38
55	297.13
60	300.02
65	302.36
70	303.98
75	304.45
80	305
85	307.5
101	315

Two Rivers Well Recovery Test

7/10/69

<u>Time (minutes)</u>	<u>Depth to water (ft)</u>
3	255.43
5	250.61
6	240.54
8	232.43
11	219.47
13	211.57
18	194.65
23	176.05
33	156.98
38	148.01
43	141.25

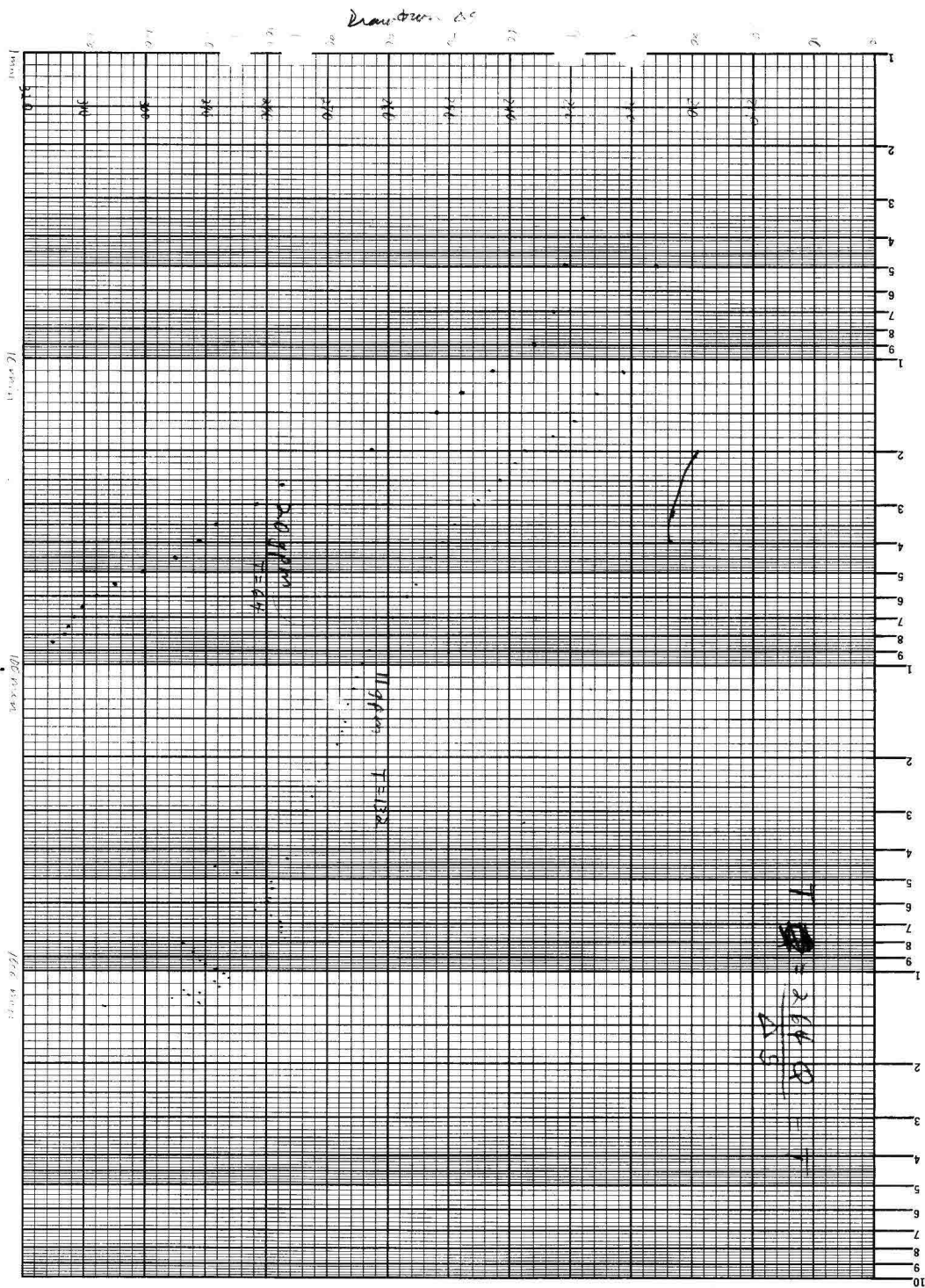
Electric tape caught

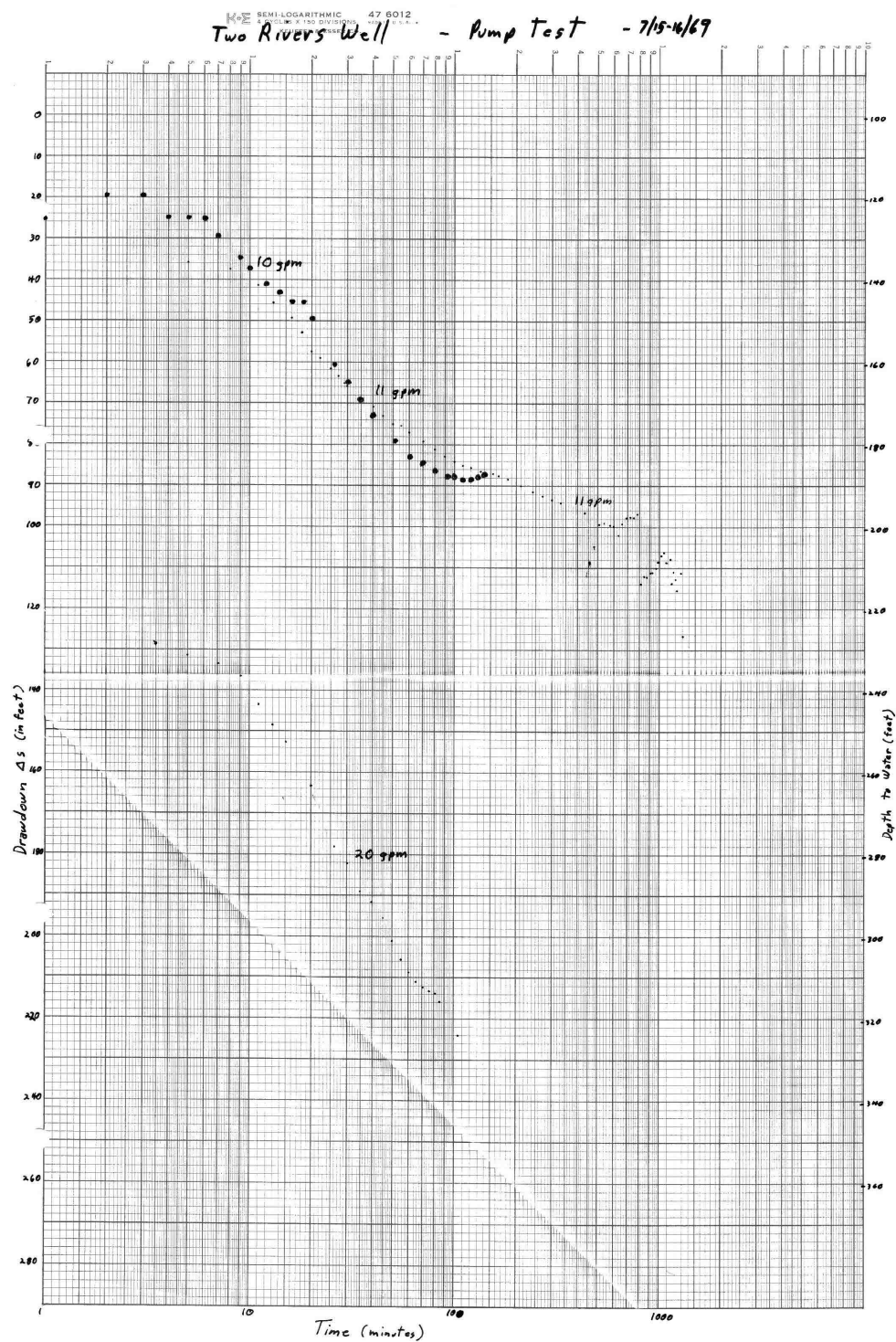
Two Rivers Well Pump Test

7/11/69

Pumping Rate, 11 gallons per minute (gpm)

Time (minutes)	Depth to water (ft)	- 99.59 @ start	
5	136.42	210	190.42 1140 214.20
8	137.85	240	191.85 1172 211.47
11	141.93	270	192.87 1200 213.21
13	145.96	300	193.70 1230 216.20
16	148.87	330	194.59 1260 211.30
18	152.98	430	197.06 1290 227.86
20	158.00	454	209.20
22	159.60	482	205.50
25	162.10	513	199.85
27	163.92	542	199.65
29	165.60	572	200.0
30	166.33	600	200.50
33		630	202.36
35	169.33	660	199.60
40	171.32	690	198.20
45	173.25	720	198.17
50	175.03	750	198.20
55	176.04	780	197.55
60	177.42	810	214.31
70	180.00	841	212.49
80	182.03	870	212.54
90	183.43	900	211.43
100	184.55	930	211.24
110	185.37	960	210.35
120	186.10	990	208.48
135	186.95	1020	207.50
154	187.50	1050	206.87
167	188.20	1080	209.70
181	188.80	1110	209.07





UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER ANALYSIS

2GW

Location Two Rivers, Missouri County Shannon
 Source Drilled Depth (ft) 350 Diam (in.) _____
 Cased to (ft) _____ Date drilled 8/69 Point of coll. Pump outlet
 Owner National Park Service
 Treatment _____ Use Public Supply
 WBF Potosi WL _____ Yield _____
 Temp (°F) 61.8 Appear. when coll. Clear
 Collected July 11, 1969 By G. L. Feder
 Remarks Cond. 520

	ppm	epm		ppm	epm
<u>Silica (SiO₂)</u>	11		<u>Bicarbonate (HCO₃)</u>	373	
<u>Aluminum (Al)</u>			<u>Carbonate (CO₃)</u>	0	
<u>Iron (Fe)</u>					
<u>Manganese</u>	.02		<u>Sulfate (SO₄)</u>	5.2	
			<u>Chloride (Cl)</u>	5.1	
			<u>Fluoride (F)</u>	.00	
<u>Calcium (Ca)</u>	58				
<u>Magnesium (Mg)</u>	43		<u>Nitrate (NO₃)</u>	.5	
<u>Sodium (Na)</u>	3.3				
<u>Potassium (K)</u>	1.0				
Total			Total		

	ppm		
		<u>Specific conductance</u> (micromhos at 25° C)	553
<u>Dissolved solids:</u>		<u>pH</u>	7.7
<u>Calculated</u>	310	<u>Color</u>	2
<u>Residue on evaporation at 180° C</u>	327		
<u>Hardness as CaCO₃</u>	322		
<u>Noncarbonate</u>	16		

Lab. No. 38038

Field No.

Project



DIVISION OF GEOLOGICAL SURVEY AND WATER RESOURCES
DEPARTMENT OF BUSINESS AND ADMINISTRATION
BUEHLER PARK ROLLA MISSOURI 65401 314-364-1752

WILLIAM C. HAYES STATE GEOLOGIST AND DIRECTOR
WALLACE B. HOWE ASSISTANT STATE GEOLOGIST

June 13, 1969

Our File: Shannon County
Sec. 16, T. 29 N., R. 3 W.
U. S. Park Service
Two Rivers Ranch, Well No. 1

Mr. E. J. Harvey
U. S. G. S. Water Resources Division
103 W. 10th Street
Rolla, Missouri 65401

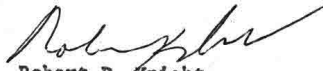
Dear Ned:

We have received and examined cuttings to a depth of 100 feet in the well being drilled for the U. S. Park Service at the above location.

It is believed a satisfactory casing depth has been reached at 100 feet,

If we can be of further help, please feel free to call on us.

Yours truly,


Robert D. Knight
Geologist

RDK:go

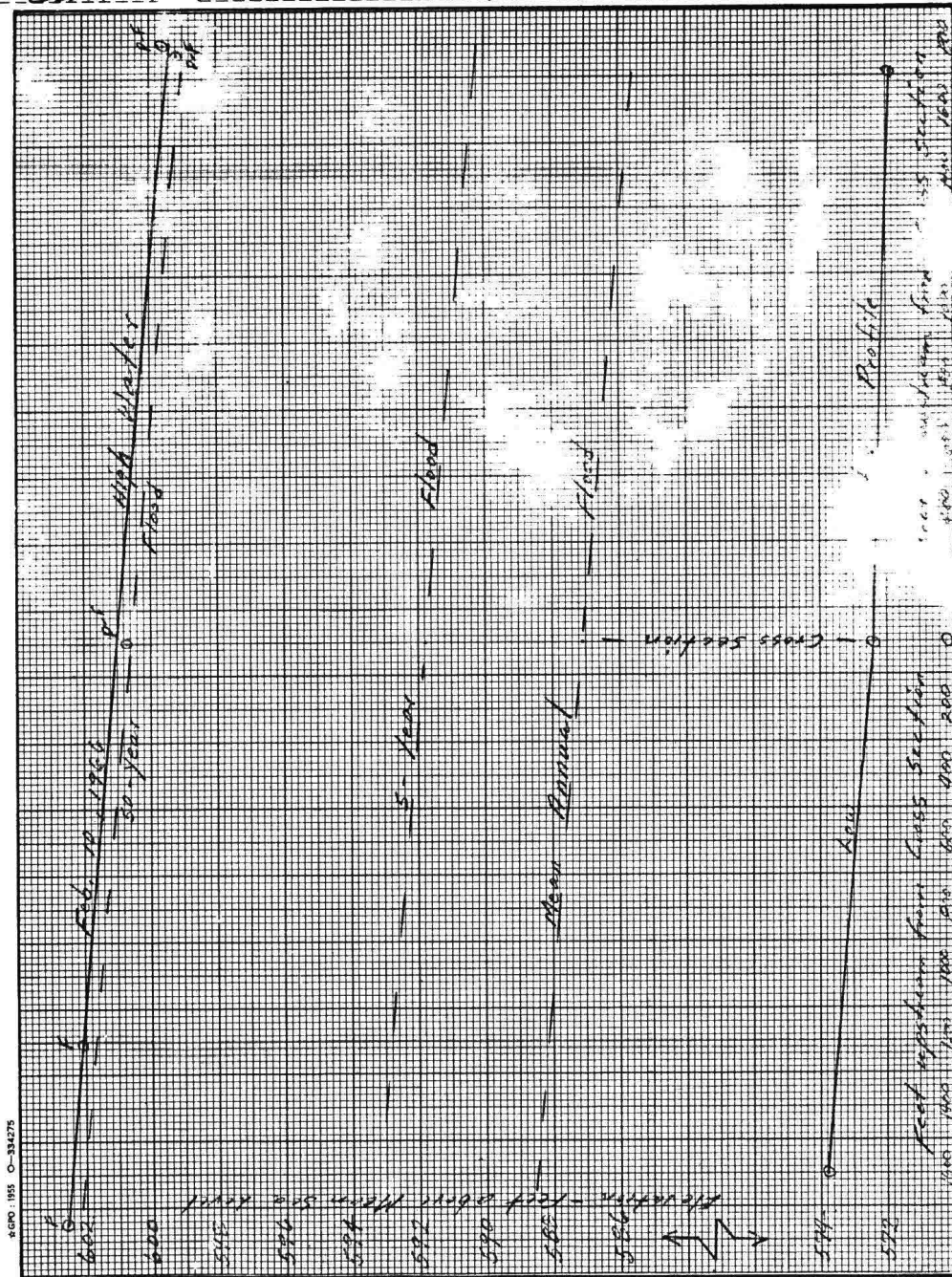
cc: Clark & Clark Drilling Company

9-219-2
(March 1949)
Cross-Section

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

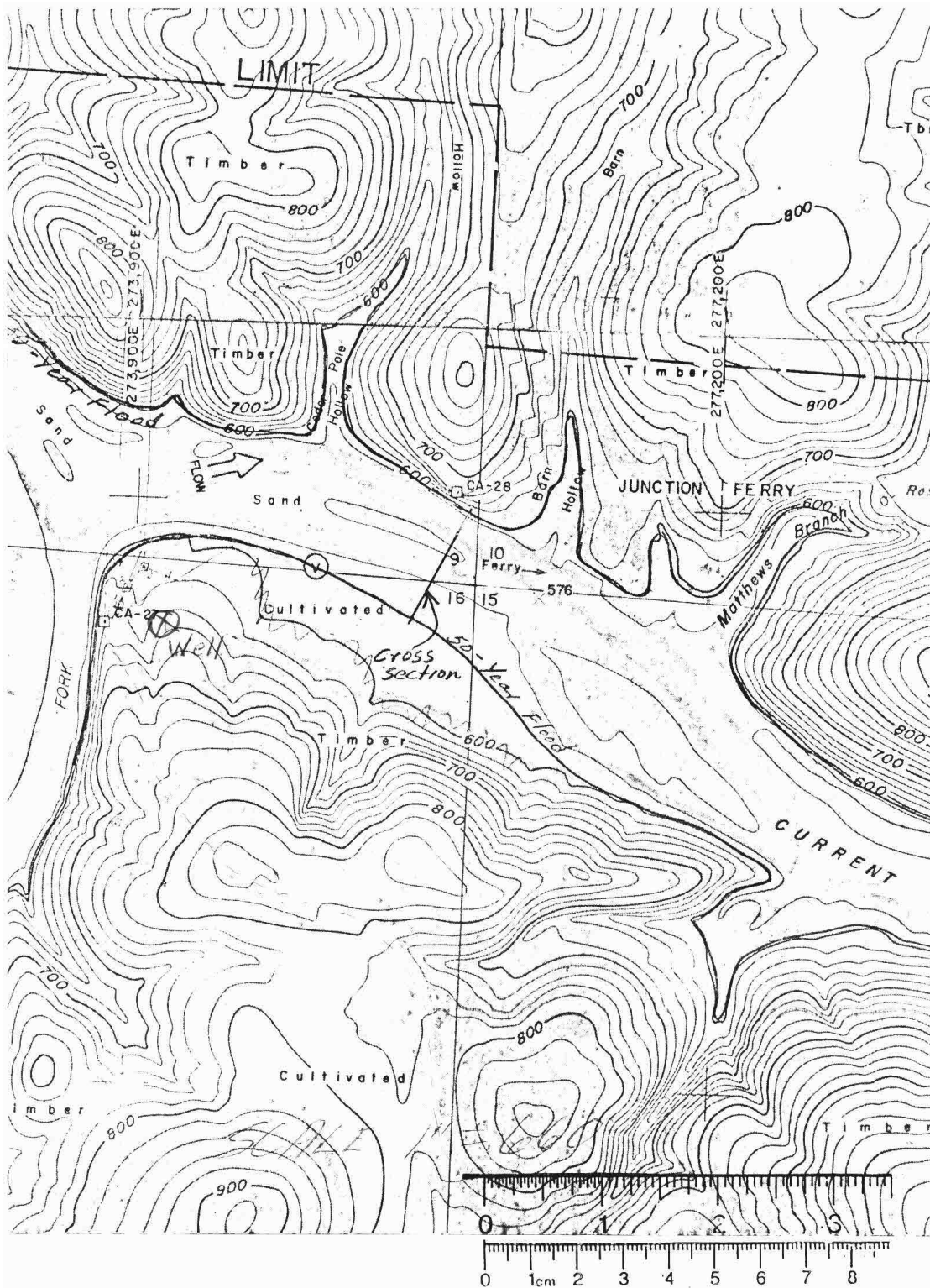
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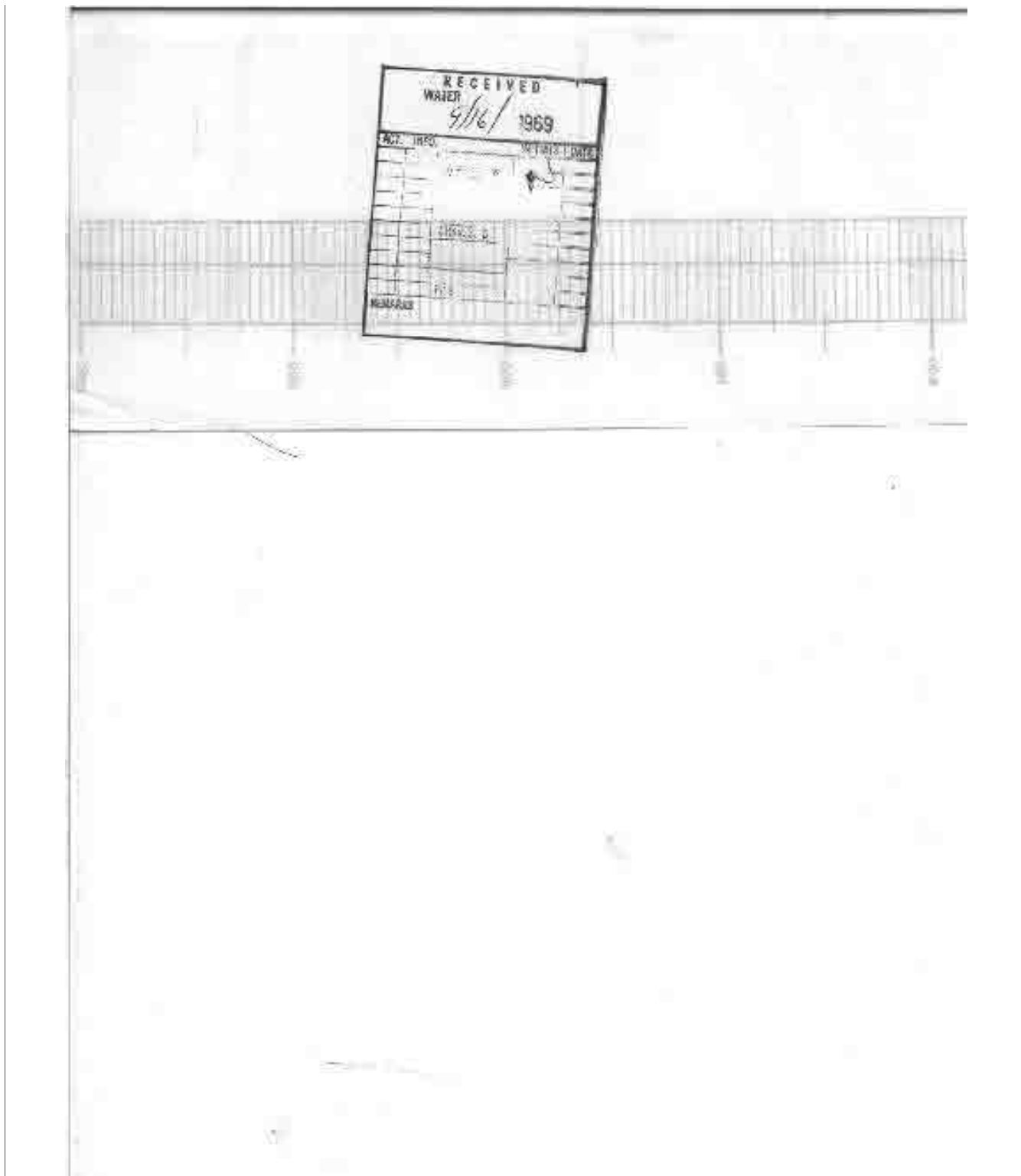
Current River at Two Rivers



4670-185 O-334275

Sheet No. of Sheets. Prepared by Date Checked by Date





Other Supporting Information

U.S. ENVIRONMENTAL PROTECTION AGENCY WATER PROGRAM OPERATIONS (WH-450) WASHINGTON, D.C. 20460		INVENTORY OF PUBLIC WATER SUPPLIES (See instructions on the reverse)		KEY IDENTIFICATION NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	
NAME OF WATER UTILITY 15 40 USMPS OZARK NATL SCENIC RIVERWAY					
ADDRESS 47 76 PO BOX 448					
CITY 77 101 VAN BUREN					
COUNTY 102 126 SHANNON					
STATE 127 128 ZIP 129 133 PHONE 134 136 TELEPHONE 137 143 MO 63965 314 3234236					
UTILITY OWNER (Check one) (144) ☐ MUNICIPALITY, DISTRICT, ETC. 1 ☐ INVESTOR 2 ☒ FEDERAL 3 ☐ STATE 4 ☐ OTHER (Specify in remarks) 5					
RETAIL POPULATION SERVED 145 153 NUMBER 154 160 NUMBER 161 167 * 200 10 1					
NUMBER OF WHOLESALE 168 170 0					
PREDOMINANT CHARACTERISTIC(S) OF YOUR SERVICE AREA COMMUNITY COMPANY TOWN RECREATION AREA MOBILE HOME PARK INSTITUTION SCHOOL OR COLLEGE HOTEL RESTAURANT SERVICE STATION CAMPGROUND PICNIC AREA LODGE WIRIWA SKI RESORT BATHING AREA VISITOR CENTER HIGHWAY SAFETY TEST AREA AIRPORT OTHER (Specify in remarks) 171 189					
CAPACITIES PRODUCTION, NORMAL OPERATION (Gal/Day) 190 199 EMERGENCY POWER ONLY (Gal/Day) 200 209 15000 0					
DISTRIBUTION STORAGE, GRAVITY FLOW (Gallons) 210 219 0					
PRODUCTION AVERAGE DAY (Gal/Day) 220 229 MAXIMUM DAY (Gal/Day) 230 239 5000 8000					
DATE FORM COMPLETED 240 243 7509					
SOURCE NO. NAME 0 1 R WELL		INTAKE LOCATION LATITUDE LONGITUDE 37 11 15 91 16 25		MARK (One only) SURFACE GROUND PURCHASED AERATION PRECIPITATION COAGULATION SEDIMENTATION FILTRATION CORROSION CONTROL SOFTENING TASTE AND ODOR CONTROL IRON REMOVAL AMMONIATION FLUORIDE ADJUSTMENT DISINFECTION CHEMICAL BACTERIAL PHYSICAL X	
NO. NAME 0 2 R		LATITUDE LONGITUDE 290		MARK (One only) 539	
NO. NAME 0 3 R		LATITUDE LONGITUDE 506		MARK (One only) 437	
NO. NAME 0 4 R		LATITUDE LONGITUDE 437		MARK (One only) 437	
REMARKS (Up to 50 characters) (783 - 832) *INCLUDES AVERAGE DAILY SUMMER VISITATION TWO RIVERS					

INSTRUCTIONS

1. **IDENTIFICATION NUMBER** – This is a 14 digit code number that geographically identifies the location of the utility. It will be filled in by EPA personnel.
2. **NAME OF WATER UTILITY** – This is the complete, official name of the utility.
3. **ADDRESS** – This is the mailing address of the utility (*this may be but does not necessarily have to be the physical location of the treatment plant*).
4. **CITY, COUNTY, STATE** – This is the city, county and state of the mailing address of the utility.
5. **ZIP CODE** – This is the zip code of the mailing address of the utility.
6. **IS THE UTILITY OWNED BY A MUNICIPALITY, DISTRICT, INVESTOR OWNER, STATE OR OTHER** (*specify in remarks*) – Place an **X** in the box that describes the type of ownership of the utility.
7. **RETAIL POPULATION SERVED - NUMBER SERVICES, METERS** – Fill in these boxes with the most current information available. Do Not include the population served by water utilities that purchase water from you wholesale.
8. **NUMBER OF WHOLESALE CUSTOMERS** – In cases where water is sold to wholesale customers (*customers who buy water from you for resale*) fill in the boxes with the number of this type of customer.
9. **WHAT IS THE CHARACTERISTIC(S) OF YOUR SERVICE AREA?** – Place an **X** in the boxes necessary to describe the predominant characteristic(s) of your service area.
10. **CAPACITIES** – Fill in these boxes with the most current information available. Report all storage that does not have to be pumped into the system, whether it is elevated or ground storage.
11. **PRODUCTION** – Fill in these boxes with the most current information available.
12. **DATE FORM COMPLETED** – Fill in the numeric designation of the month (01-12) and the last two digits of the year when the form was completed.
13. **REMARKS** – Additional information can be provided (*maximum of 50 Alpha and/or Numeric characters*).
14. **SOURCE AND TREATMENT** – Write in the spaces below Name the name of the river, lake, other utility, well field, or other source from which the supply of water is taken. Circle "R" for regular source or "A" for auxiliary source. If more than one source is used, use separate lines for each source. If more than four sources are used, then list on a second form starting with 05. Place an **X** in the block(s) for the types of treatment rendered the raw water. Mark each source separately.
15. **INTAKE LOCATION** – Latitude and Longitude of intake.
16. **LABORATORY CONTROL** – Place an **X** in the box for the type of types of laboratory analyses made at the treatment facility. Leave these blocks blank if no laboratory analyses are performed.

☆U. S. GOVERNMENT PRINTING OFFICE: 1974-625-309/72 3-1

Docket Information

Number of Documents in Docket 29

Documents Dated from 7/10/1969 to 1/20/1971

Docket Compiled: 6/7/2011