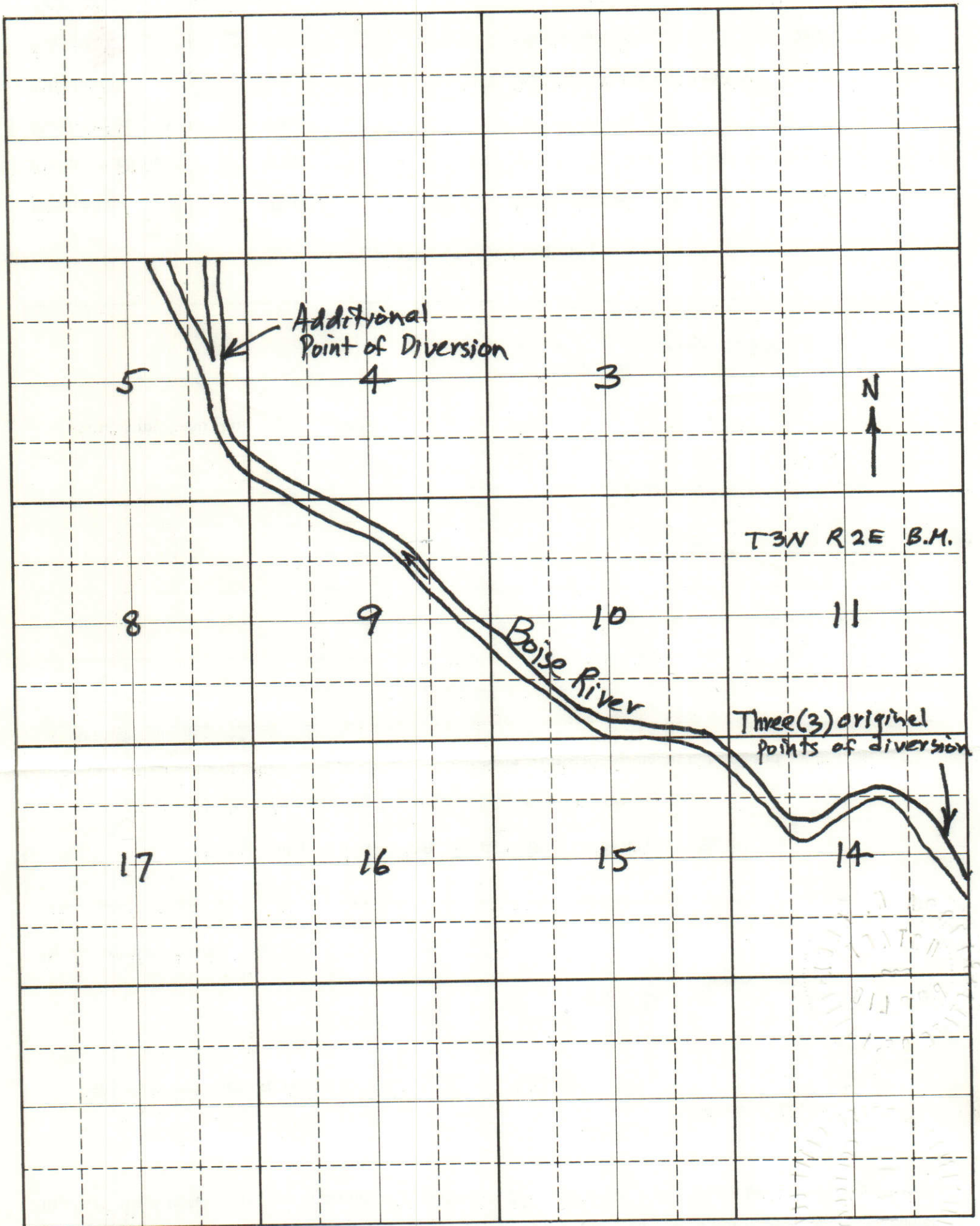


3. Draw a map indicating the new point(s) of diversion and/or the new land to be irrigated. Show clearly the land involved by section, township and range number.



SCALE: 2 inches equal 1 mile. Draw plan in ink.

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STATE OF IDAHO)

) ss.

COUNTY OF ADA )

AP ✓

issue of November 5, 1981, and ending with the  
issue of November 12, 1981.

issue of November 12, 1981.

day of November, 1981.

Notary Public for Idaho, Residing at Boise, Idaho

Notice is hereby given that Boise Water Corporation of Boise, Idaho has applied to the Department of Water Resources for a change of the point of diversion of the water of groundwater - Boise River. The right sought to be changed is evidenced by Water Right License 63-2892 and is recorded as follows:

Amount: 15.00 CFS

Priority 2/7/1952

Point(s) of Diversion: 3 points within the SENE 1/4, Sec. 14, T3N, R2E.

The water is used for Municipal purposes from 1/1 to 12/31 within the Boise Water Corporation service area.

TO BE CHANGED AS FOLLOWS

Amount: 15.00 CFS

Point(s) of Diversion: 3 points within the SENE $\frac{1}{4}$ , Sec. 14 and the SENE $\frac{1}{4}$ , Sec. 5, T3N, R2E.

The water will be used for Municipal purposes from 1/1 to 12/31 within the Boise Water Corporation service area.

Any protest against approval of the proposed change of water right application must be filed with the Department of Water Resources, 92 S. Cole Road, Boise, Idaho 83709 on or before November 23, 1981.

A. KENNETH DUNN

**Director**

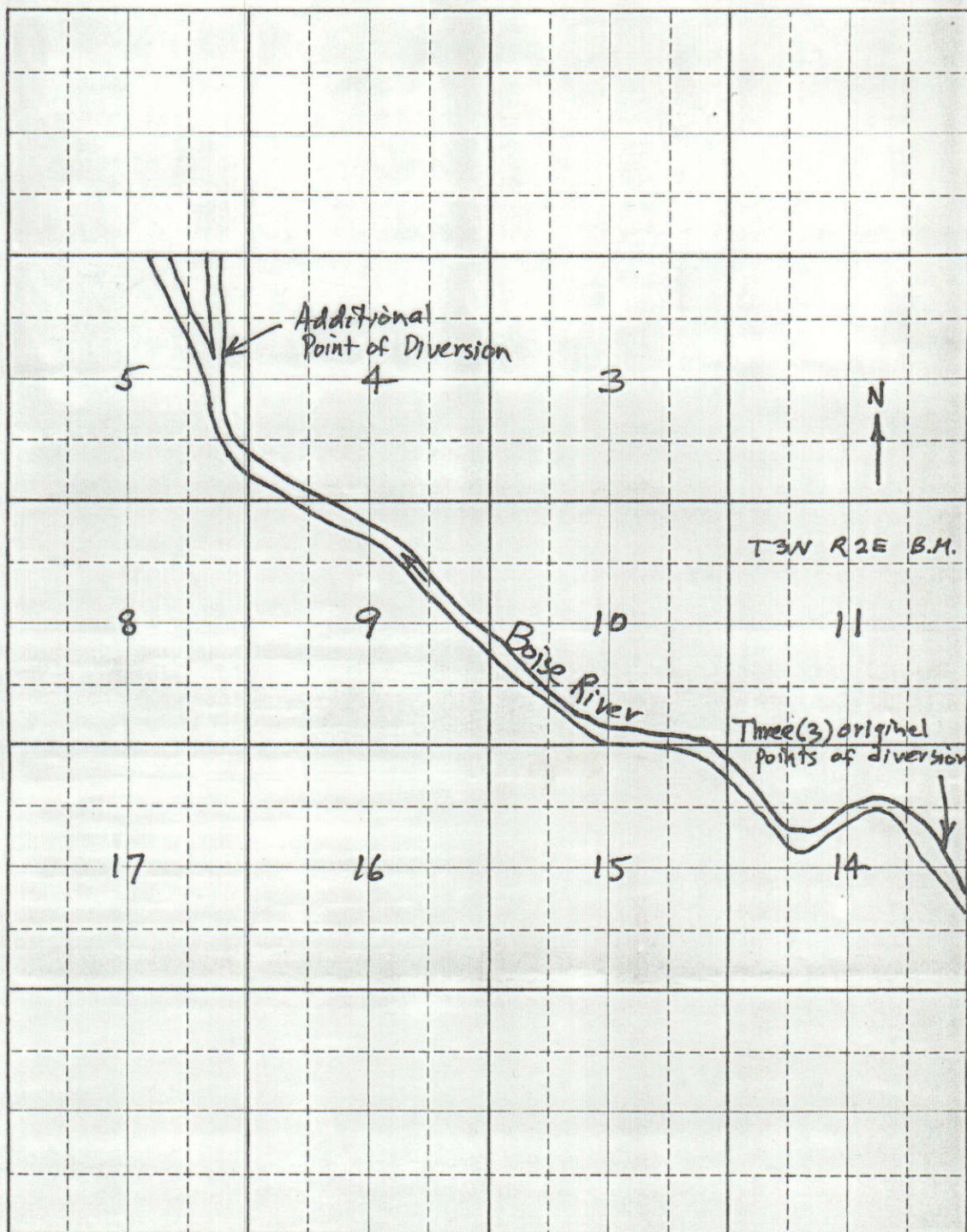
Pub. Nov. 5, 12, 1981

1645

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NOV 19 1981

Department of Water Resources  
Western Regional Office

3. Draw a map indicating the new point(s) of diversion and/or the new land to be irrigated. Show clearly the land involved by section, township and range number.



SCALE: 2 inches equal 1 mile. Draw plan in ink.

MICROFILMED

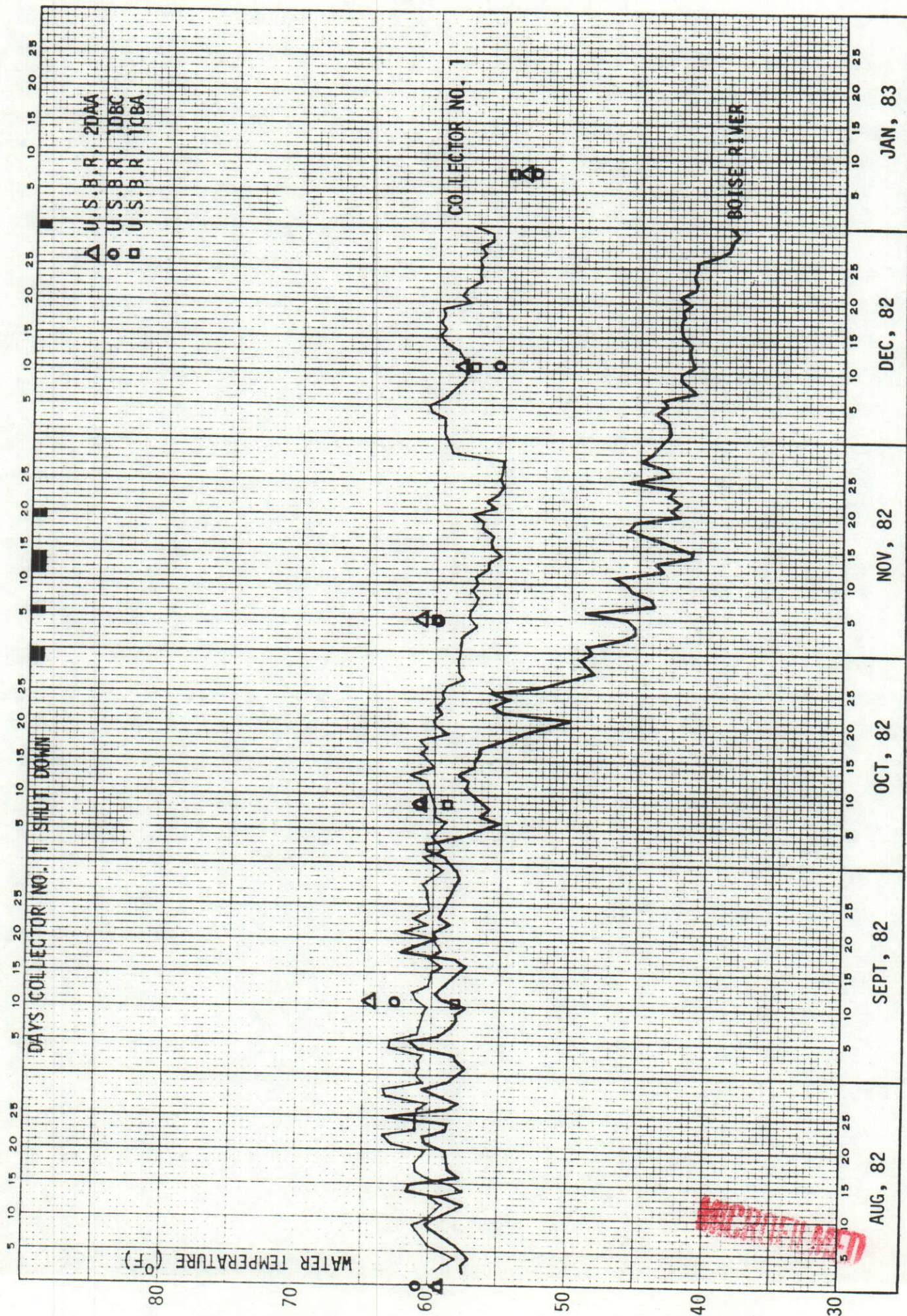


FIGURE 1. WATER TEMPERATURES OF THE BOISE RIVER, COLLECTOR NO. 1, AND THREE U.S.B.R. SHALLOW WELLS



FIGURE 2. Location of Wells

Boise Water Corporation  
Ranney Collector Well No. 4

Boise Water Corporation  
Ranney Collector Wells 1, 2, 3

U.S.G.S. Well No. 316

U.S.G.S. Well No. 322

U.S.B.R. Well 1CBA

U.S.B.R. Well TDBC

U.S.B.R. Well 2DAA

30 POINTS

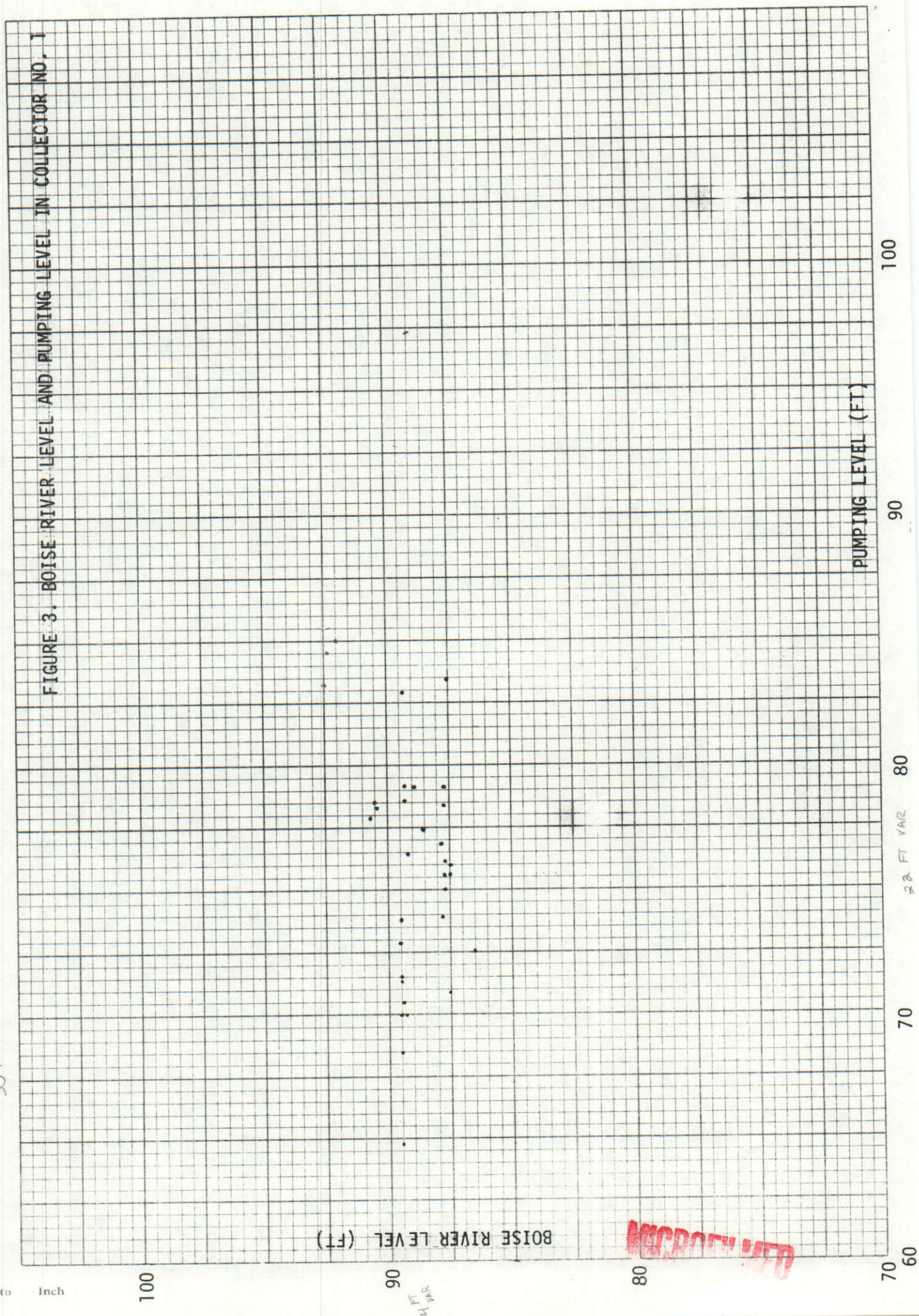
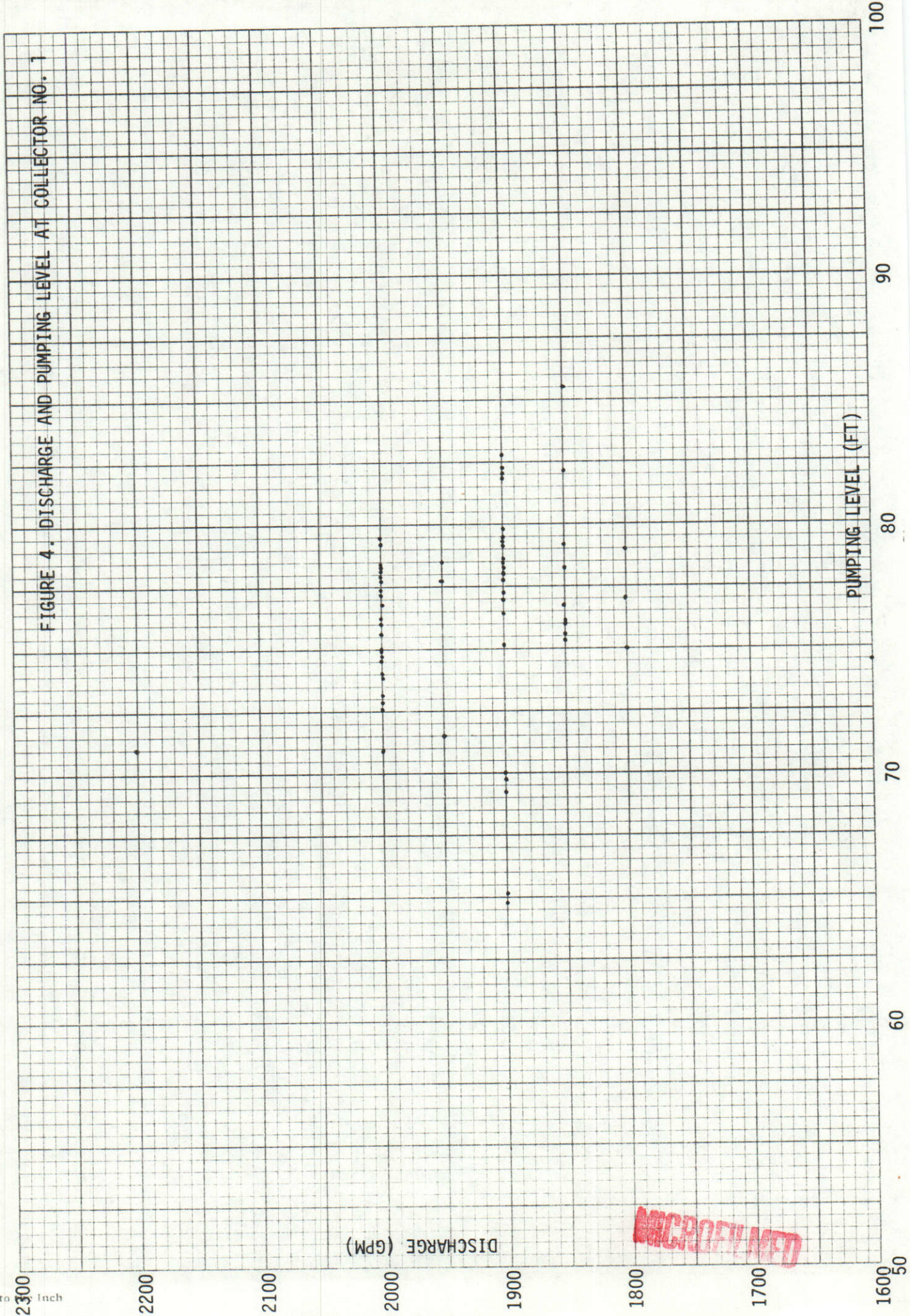
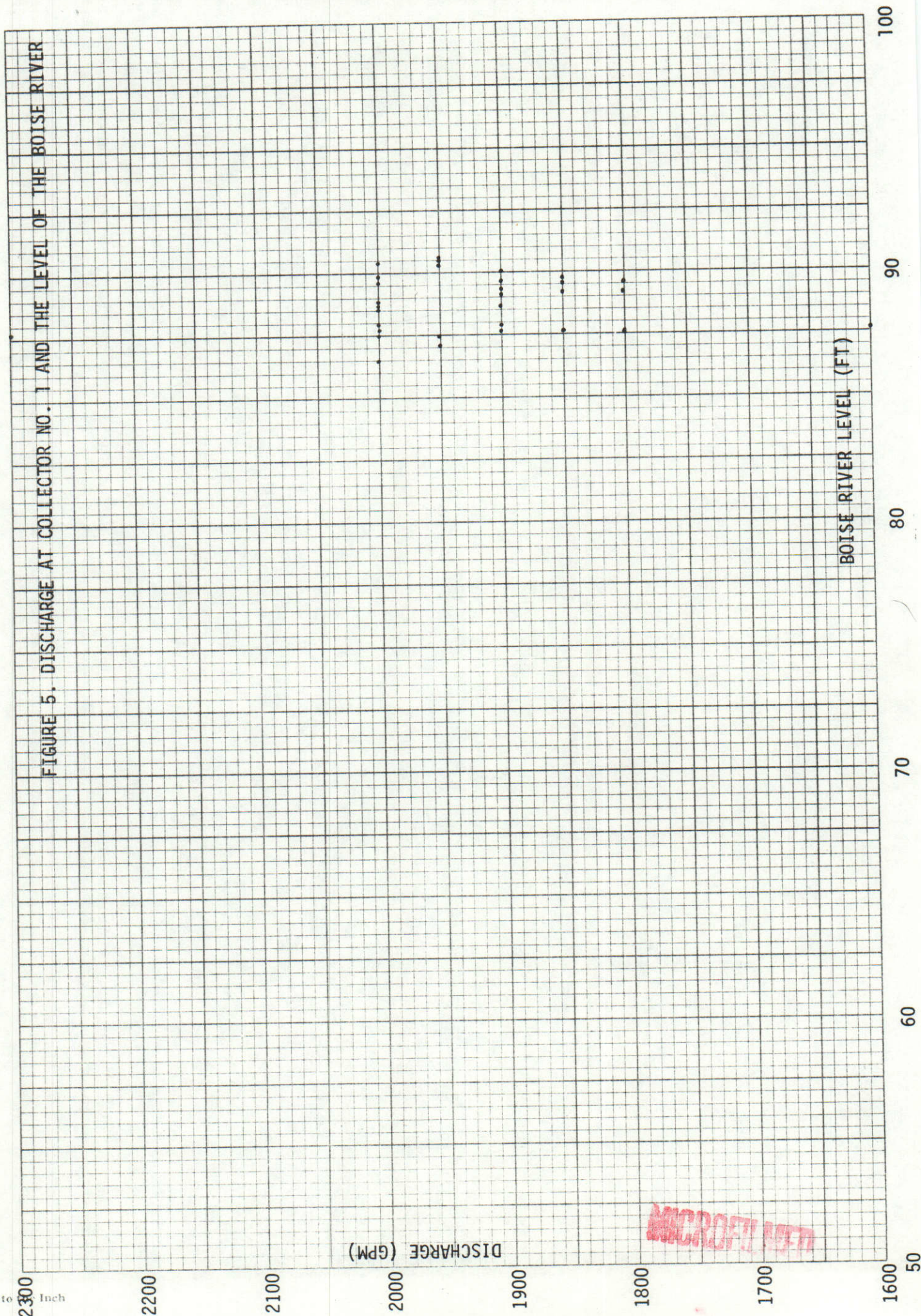


FIGURE 4. DISCHARGE AND PUMPING LEVEL AT COLLECTOR NO. 1



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FIGURE 5. DISCHARGE AT COLLECTOR NO. 1 AND THE LEVEL OF THE BOISE RIVER



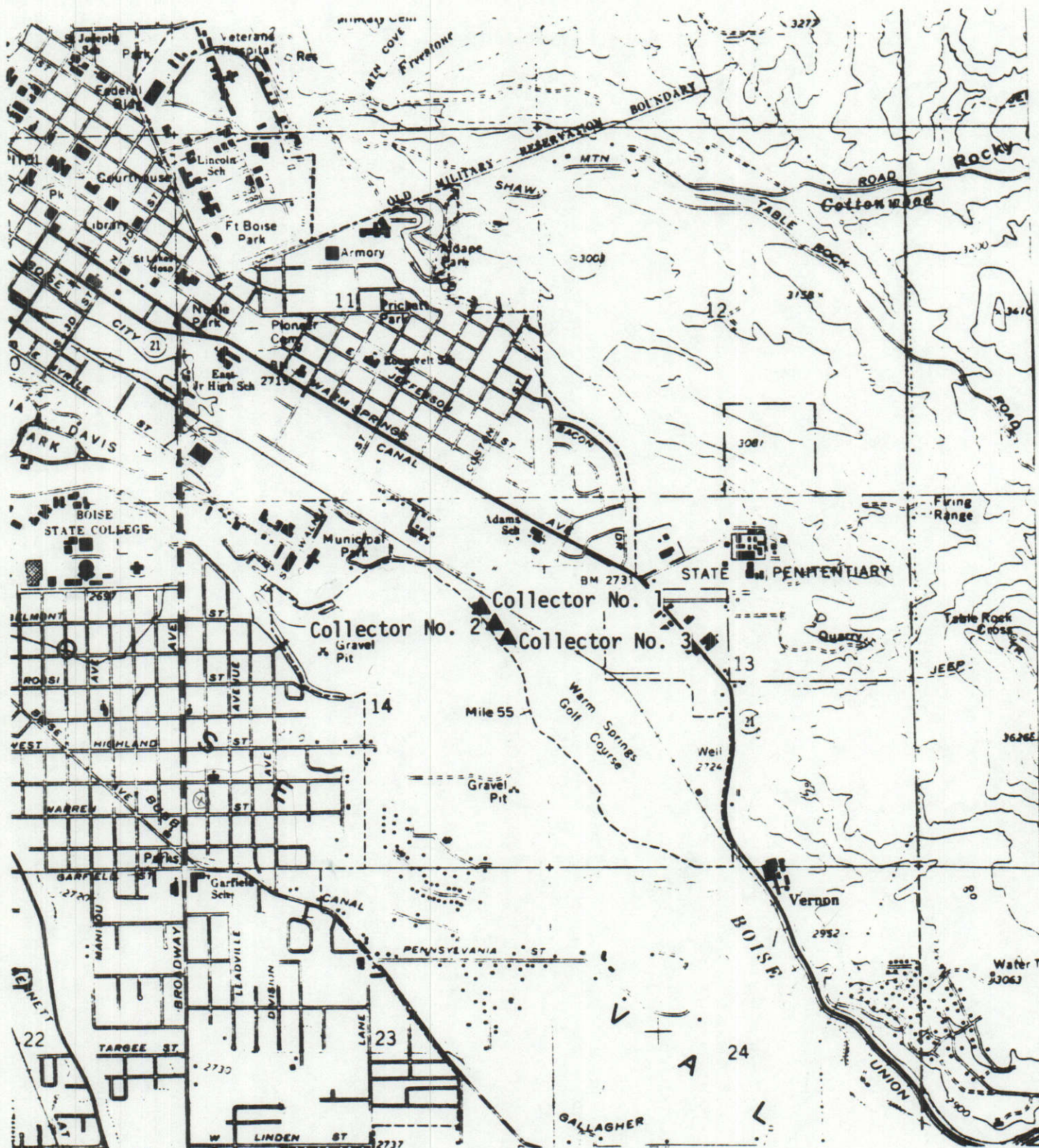


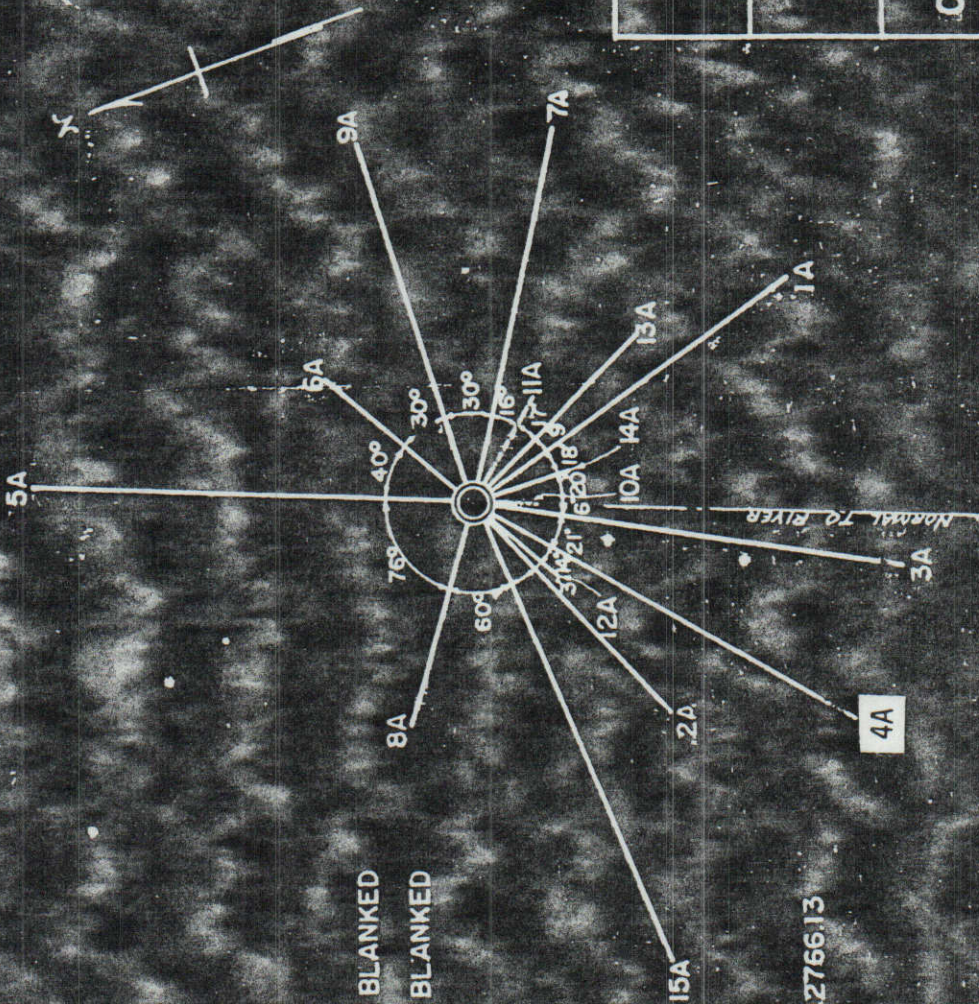
FIGURE 1. Location of Boise Water Corporation's Ranney Collector Wells.

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| Line No | Total Length | Elevation |
|---------|--------------|-----------|
| 1A      | 57.0'        | 2718.13   |
| 2A      | 41.0         | "         |
| 3A      | 65.0         | "         |
| 4A      | 64.0         | "         |
| 5A      | 66.5         | "         |
| 6A      | 27.0         | "         |
| 7A      | 58.0         | "         |
| 8A      | 33.0         | "         |
| 9A      | 54.0         | "         |
| 10A     | 6.0          | "         |
| 11A     | 15.0         | "         |
| 12A     | 16.0         | "         |
| 13A     | 29.0         | "         |
| 14A     | 13.0         | "         |
| 15A     | 71.0         | "         |
| Total   | 615.5'       |           |

BLANKED  
BLANKED

GRADE ELEV.: 2760.00  
ELEV. TOP OF PUMP SLAB: 2766.13



COLLECTORS



FIGURE 2

RANNEY METHOD  
WATER SUPPLIES, INC.  
COLUMBUS, OHIO

BOISE WATER CORP.  
BOISE, IDAHO

COLLECTOR PIPE DIAGRAM,  
COLLECTOR # 1

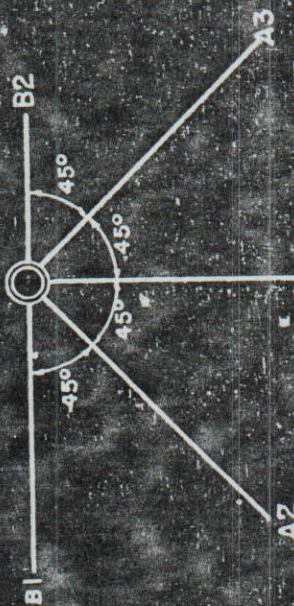
DRAWN BY: G. K. Y. A=PROVED: T. M. C. R.  
SCALE: 1"=30' D-3, NO. SW-1-PD  
DATE: 12/1/52 SHEET N. 1

BOISE RIVER

FIGURE 3

| Line No | Total Length | Elevation |
|---------|--------------|-----------|
| A 1     | 44.0'        | 2724.30   |
| A 2     | 57.0         | "         |
| A 3     | 49.0         | "         |
| B 1     | 41.0         | 2740.30   |
| B 2     | 25.0         | "         |
| Total   | 216.0'       |           |

GRADE ELEV.: 2750.0  
 TOP OF PLUG: 2722.30  
 TOP-PUMP SLAB: 2762.05



FRANNEY METHOJ  
 WATER SUPPLIES, INC.  
 CO., JMBUE, OHIO

BOISE WATER CORP.  
 BOISE, IDAHO

COLLECTOR PIPE DIAGRAM  
 COLLECTOR #2

DRAWN BY: C. Y. APPROVED: J. TOMCIK

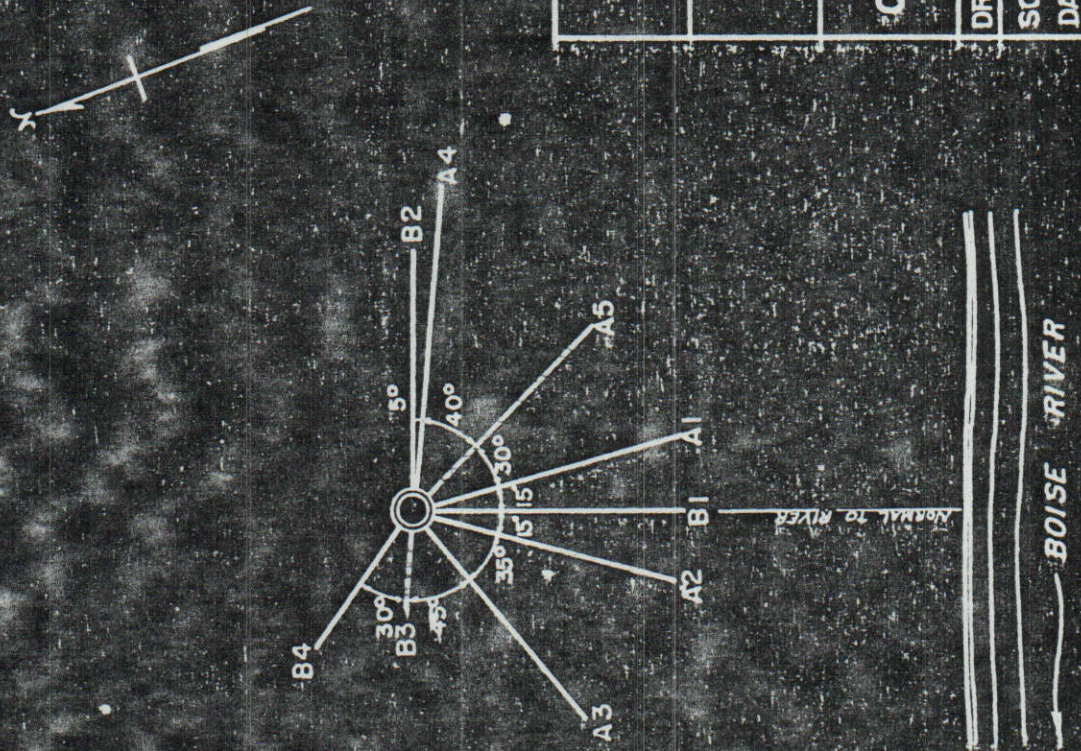
SCALE: 1" = 20'

DATE: 12/1/52 SHEET 0.33

FIGURE 4

| Line No | Total Length | Elevation |
|---------|--------------|-----------|
| A1      | 41.0'        | 2725.74   |
| A2      | 38.0         | "         |
| A3      | 37.0         | "         |
| A4      | 47.0         | "         |
| A5      | 37.0         | "         |
| B1      | 38.5         | 2741.74   |
| B2      | 37.0         | "         |
| B3      | 12.0         | "         |
| B4      | 25.0         | "         |
| Total   | 312.5'       |           |

GRADE/ELEV. 2761.0  
 TOP OF PLUG. 2723.74  
 TOP OF PUMP SLAB. 2763.49



RANNEY METHOD  
 WATER SUPPLIES, INC.  
 COLUMBUS, OHIO

BOISE WATER CORP.  
 BOISE, IDAHO

COLLECTOR PIPE DIAGRAM  
 COLLECTOR # 3

|                  |                     |
|------------------|---------------------|
| DRAWN BY: C.K.Y. | APPROVED: J. Tomcik |
| SCALE: 1"=30'    | DWG. NO.: SW-2-PD   |
| DATE: 12/17/52   | SHEET NO. 4         |

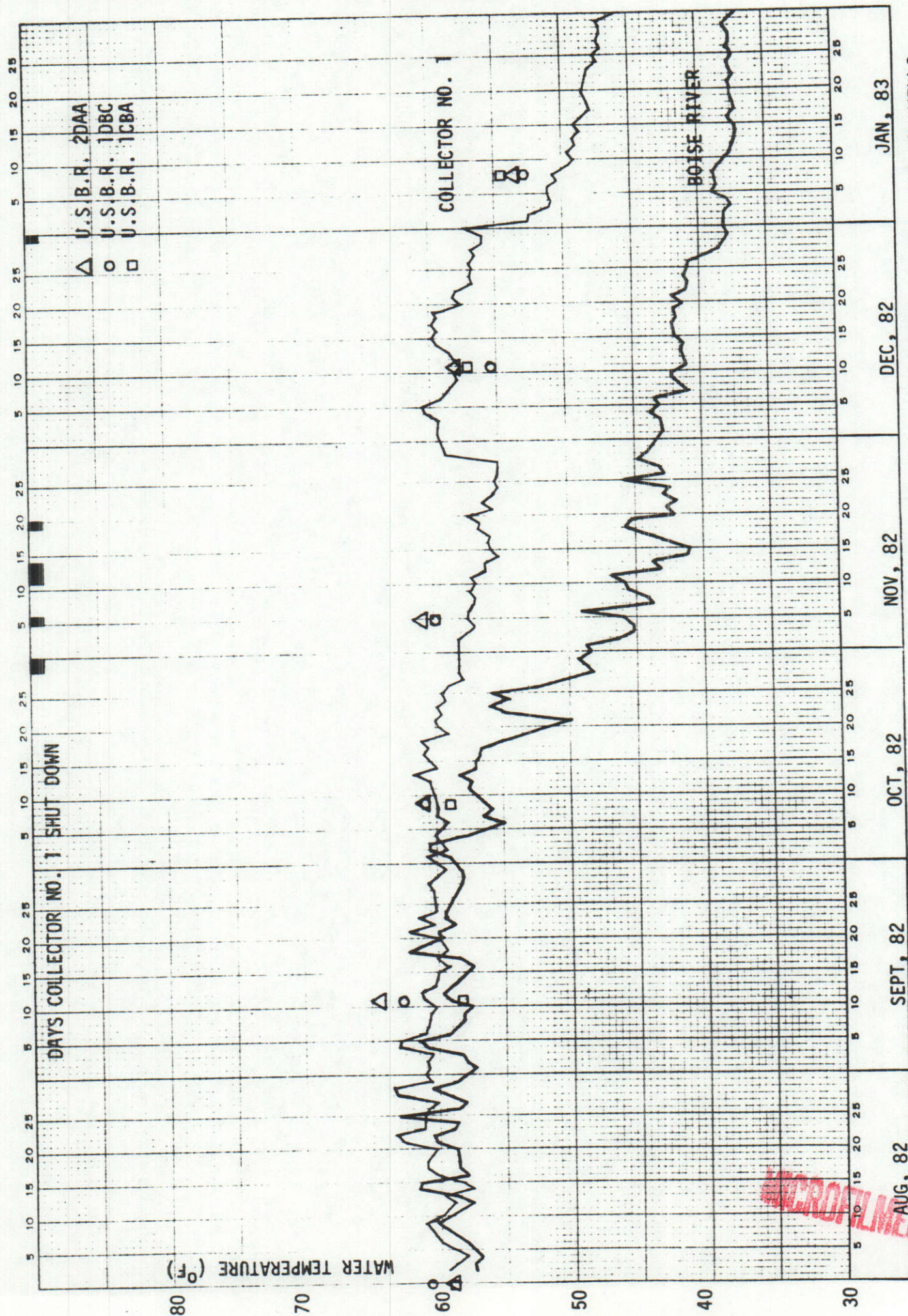


FIGURE 5. WATER TEMPERATURES OF THE BOISE RIVER, COLLECTOR NO. 1, AND THREE U.S.B.R. SHALLOW WELLS

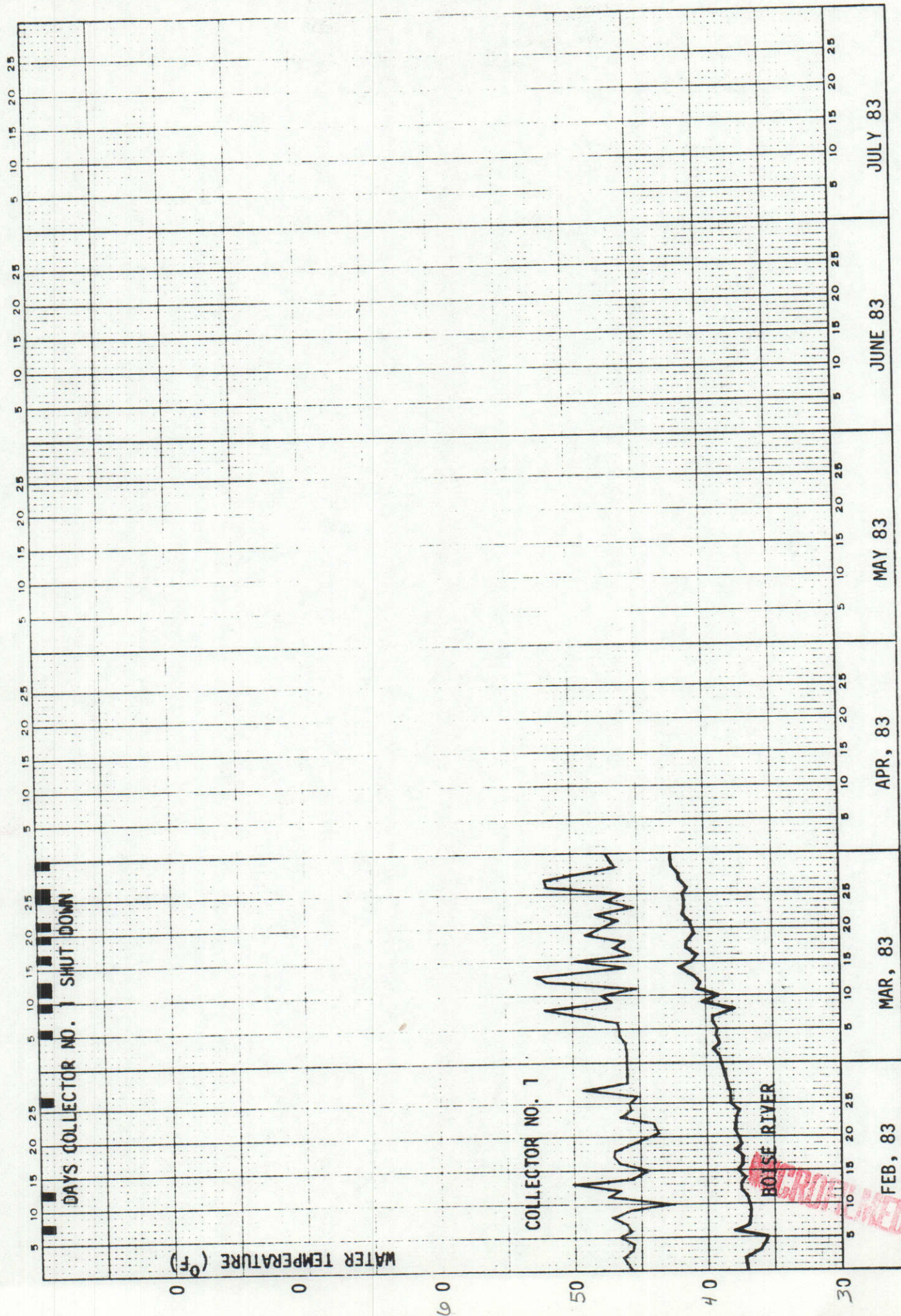
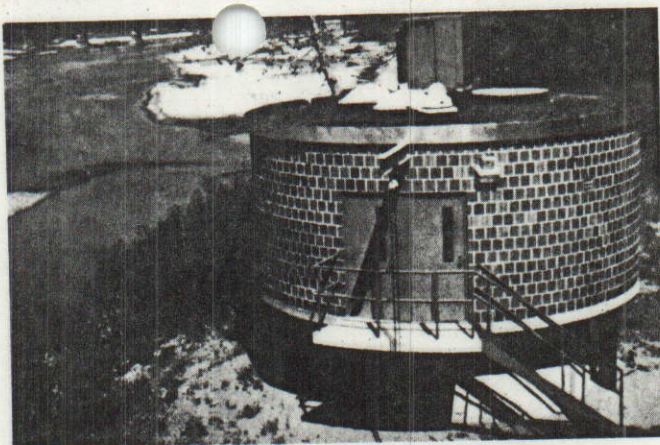
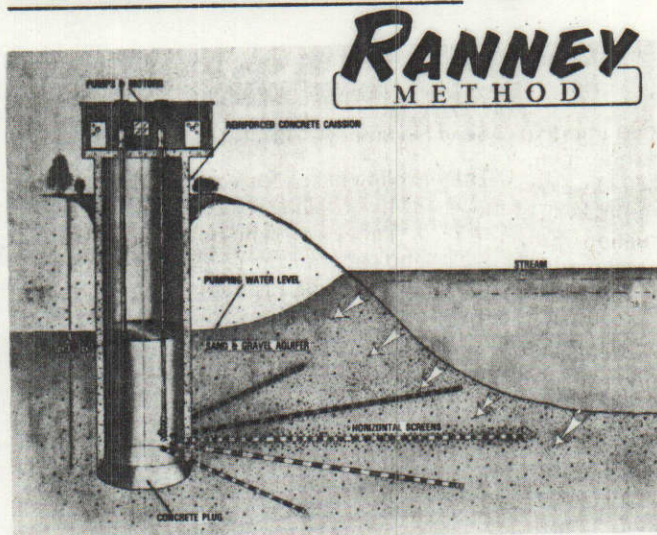


FIGURE 5. (Continued).



## Get **LOW COST GROUND WATER** with **RADIAL COLLECTOR WELLS** by



**MUNICIPALITIES and INDUSTRIES** have long depended upon Ranney radial collector wells as an assured source of high volume, clear, cool ground water. This system uses one small pump house and a network of horizontal perforated collector screens each up to 300 ft. in length.

**LOWER OPERATING COSTS** result from the concentration of the water collection system into one unit. Less land is needed, feeder lines and connections are simplified and less auxiliary equipment is used for a given capacity. Larger and more efficient pumps are used for further economy of operation. Often Ranney can successfully develop a supply of water at a suitable site, of a quality and quantity not usually economically feasible by using conventional multiple well methods.

Ranney has been active in water development for Municipalities and Industries since 1933. Our motto, "**Creative Water Engineering since 1933**" is proven by successful installation of **Radial Ground Water Collectors, Raw Water Intakes, Infiltration Galleries, and Artificial Recharge Systems**, world wide. Also contact Ranney for information about the revolutionary new **Vyredox** method of removing iron and manganese from ground water **Organically** . . . no chemicals are used. Write or phone TODAY.

### The **RANNEY** Company

P.O. Box 72, Westerville OH 43081 Phone: 614/882-3104

Ranney Method Western Company P.O. Box 6387, Kennewick WA 99336

"Creative Water Engineering since 1933"

(Circle 35 Reader Service Coupon)

## CALENDAR

Information: Continuing Engineering Studies, College of Engineering, Cockrell Hall 2.102, The University of Texas, Austin, TX 78712. Tel: 512/471-3506 or 512/471-3396.

VANDERBILT UNIVERSITY  
MAY 17-19

**OPERATIONS, CONTROL AND MANAGEMENT OF ACTIVATED SLUDGE PLANTS, \$575.**

MAY 17-19

**MANAGEMENT OF HAZARDOUS MATERIAL RELEASES, \$575.**

Information: Continuing Engineering Education, School of Engineering, Vanderbilt University, Box 1525, Station B, Nashville, TN 37235. Tel: 615/322-2924.

UC BERKELEY EXTENSION  
MAY 24-26

**MICROPROCESSOR BACKGROUND FOR MANAGEMENT PERSONNEL, \$565.**

At the Hyatt-Rickey's Hotel, Palo Alto, CA. Information: Continuing Education in Engineering, Dept. 532N, University of California Extension, 2223 Fulton St., Berkeley, CA 94720. Tel: 415/642-4151.

UNIVERSITY OF MISSOURI-COLUMBIA  
MAY 26-27

**WIND EFFECTS ON BUILDINGS AND STRUCTURES, \$395.**

At Crown Center Hotel, Kansas City, MO. Information: Frank Seibert, Engineering Conferences, 1020 Engineering Building, University of Missouri, Columbia, MO 65211. Tel: 314/882-3266.

CANADIAN SOCIETY  
FOR CIVIL ENGINEERING  
MAY 31-JUNE 1

**WATER SUPPLY AND SANITATION FOR DEVELOPING COUNTRIES, \$250 (early registration) \$300 (late registration).**

At Colonel By Hall, University of Ottawa, Ontario, Canada. Information: Dr. E.W. Wright, 57 Sunnyside Avenue, Ottawa, Ontario, Canada K1S 0P9. Tel: 613/521-7146 or 613/233-6438.

TOURO COLLEGE  
JUNE 13-15

**INSPECTION, ACCEPTANCE & WARRANTIES, \$675.**

At MGM Grand Hotel, Reno, NV. Information: N.P. Singer, Seminar Division Office, 5th Floor South, 1120 20th St. NW, Washington, DC 20036. Tel: 202/337-700.

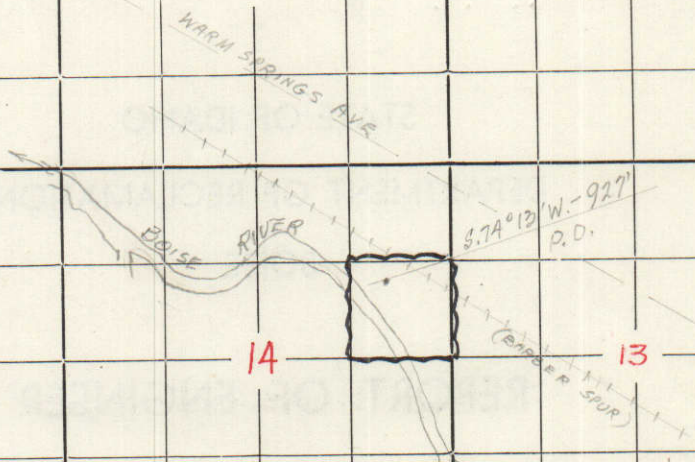
UNIVERSITY OF MICHIGAN  
JUNE 20-22

**FLOW VISUALIZATION TECHNIQUES: PRINCIPALS AND APPLICATIONS, \$500.**

Information: Continuing Engineering Education, 300 Chrysler Center, North Campus, Ann Arbor, MI 48109. Tel: 313/764-8490.

R-2E.

T.  
3  
N.



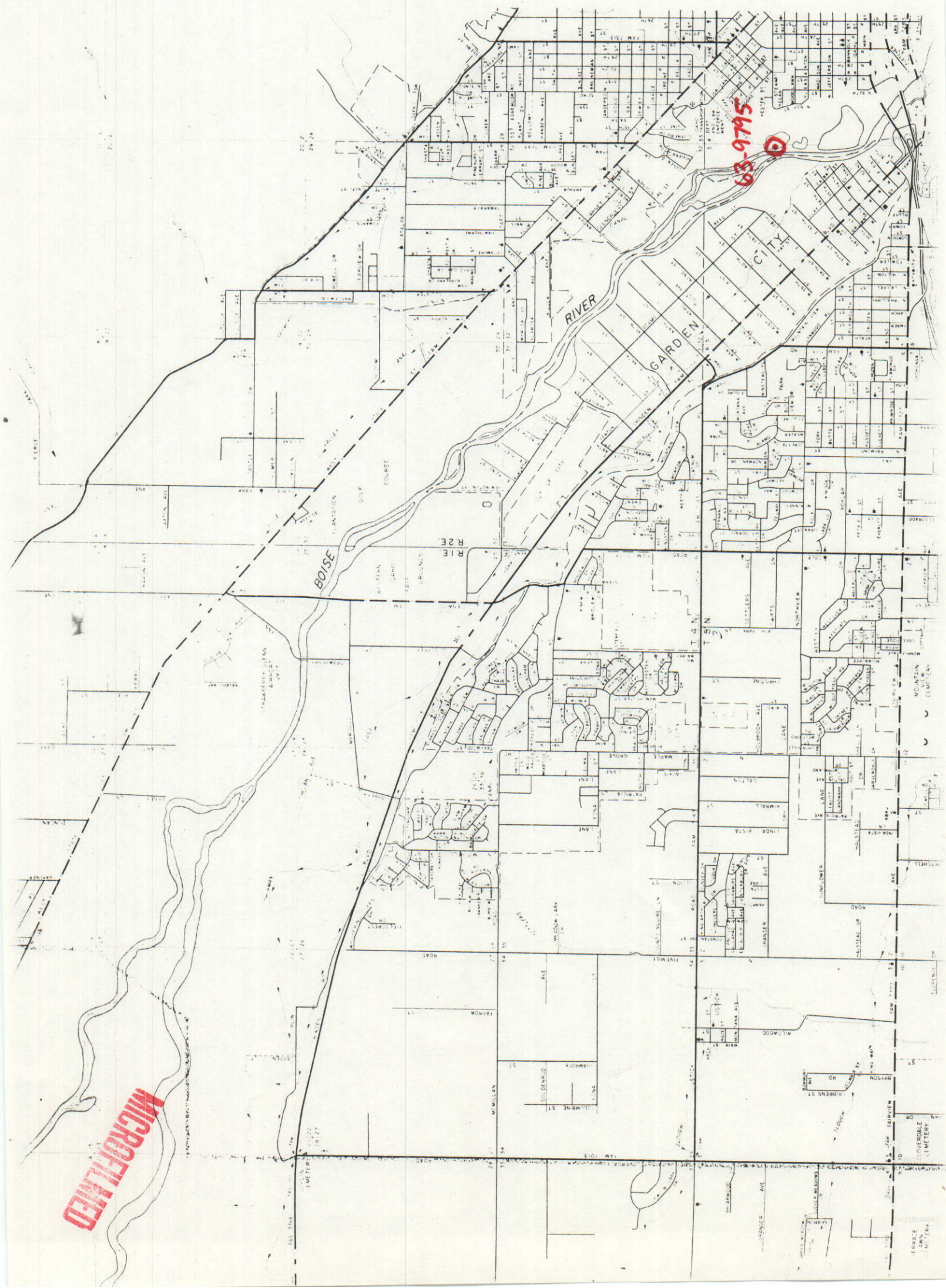
Three P.D's in SENE S14  
See enclosed map.

c/w fee = ~~\$9.50~~ 6.50  
B/w fee = ~~5.00~~ 5.00  
\$14.50  
11.50

Use is municipal and domestic  
Q = 15 cfs.

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546-93  
63-9795



MICROFILMED

63-2892



BOISE

RIVER

BOISE

BOISE

BOISE

BOISE

BOISE

RECEIVED  
FEB 14 1957  
Department of Reclamation

STATE OF IDAHO, }  
COUNTY OF ADA } ss.

Patricia Branson

, being duly sworn,  
deposes and says: That she is the Principal Clerk of The Idaho  
Daily Statesman, a daily newspaper printed and published at  
Boise, Ada County, State of Idaho, and having a general circula-  
tion therein and which said newspaper has been continuously  
and uninterruptedly published in said County during a period of  
twelve consecutive months prior to the first publication of the  
notice, a copy of which is attached hereto; that said notice was  
published in the regular Monday edition of The Idaho Daily  
Statesman in conformity with Sec. 60-108, Idaho Code, for

four

consecutive weekly insertions

beginning with the issue of January 7, 1957,

and ending with the issue of January 28, 1957.

Patricia Branson, Principal Clerk

Subscribed and sworn to before me this 28th day of

January, 1957.

Ruth Upmire  
Notary Public for Idaho, Residing at Boise, Idaho.

NOTICE OF PROOF OF  
COMPLETION OF WORKS

and  
APPLICATION OF WATER TO  
BENEFICIAL USE

Notice is hereby given that at  
10:00 A. M., on the 12th day of Feb-  
ruary, 1957, at Boise, County of Ada,  
State of Idaho, before Carey H.  
Nixon, Notary Public, proof will be  
submitted of the completion of works  
for the diversion of 25 cubic feet  
per second of underground waters  
from a well, and of the application  
to beneficial use of said water, in  
accordance with the terms and con-  
ditions of Permit No. G-22594 here-  
tofore issued by the Department of  
Reclamation of the State of Idaho.

1. The name and postoffice ad-  
dress of the person or corporation  
holding said permit are Boise Water  
Corporation, P. O. Box 548, Boise,  
Idaho.

2. Said works of diversion will  
be fully completed on the date set  
for such completion, and the amount  
of water which said works are ca-  
pable of conveying to the place of  
use is 25 cubic feet per second.

3. The use to which said water  
has been applied is municipal and  
domestic purposes, and the amount  
applied to beneficial use is 15 cubic  
feet per second.

4. The point of diversion of said  
water is SE $\frac{1}{4}$  of NE $\frac{1}{4}$  of Section 14,  
Twp. 3N, Range 2E, B.M., County  
of Ada.

5. The place where said water is  
used is City of Boise, Idaho, and  
adjacent territory.

6. The date of priority which said  
user is prepared to establish is Feb-  
ruary 7, 1957.

M. K. R. KULP  
State Reclamation Engineer.  
At-Jan. 7, 1957. H. 28

22594

T.4N. R.2E. B.M.

T.3N. R.2E. B.M.

3

2

1

N

10

11

12

15

14

13

Location of Well

S. 74° 13' W - 927'

Point of diversion of water supply is S. 74° 13' W. 927 ft. from the Northeast corner of the Southeast Quarter of the Northeast Quarter of Section 14, T. 3 N., R. 2 E., B.M. in Ada County, Idaho

Permit Map No. 6-22594

As Approved

FEB 14 1952

MARK R. KULP

State Reclamation Engineer

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES  
OF THE  
STATE OF IDAHO

|                                                  |   |                     |
|--------------------------------------------------|---|---------------------|
| IN THE MATTER OF PROTEST AGAINST APPROVAL OF     | ) |                     |
|                                                  | ) | MEMORANDUM DECISION |
| APPLICATION FOR TRANSFER NO. 2605 OF LICENSE NO. | ) |                     |
|                                                  | ) | AND ORDER           |
| 63-2892 IN THE NAME OF BOISE WATER CORPORATION   | ) |                     |
|                                                  | ) |                     |

On October 30, 1981, Boise Water Corporation applied to the Department of Water Resources to add a point of diversion within the SE1/4NE1/4, Sec. 5, Twp. 3N, Rge. 2E B.M., Ada County for water license No. 63-2892.

Notice of this application was published in the Idaho Statesman newspaper, Boise, Idaho on November 5 and 12, 1981. A protest against approval of the application for transfer was received from Harry A. Vogt, secretary of Farmers Union Ditch Co., Ltd. on November 20, 1981.

On December 21, 1981, a conference was held in Boise, Idaho. The applicant was represented by Robert P. Walker and the protestant was represented by Harry A. Vogt, secretary and by Bill M. Flack, boardmember. The issue raised by the protestant which can be considered by the Director is whether the transfer, if approved, would affect the protestant's water right. The issues of expansion of the applicant's water right and local public interest were also discussed at the conference.

Based on the information collected at the conference, the official files and records of the Department of Water Resources and the Director's understanding of the law, the Director of the Department of Water Resources makes the following Findings of Fact, Conclusions of Law, Analysis and Order:

FINDINGS OF FACT

1) The applicant is the owner of license No. 63-2892 for the diversion of 15.00 cubic feet per second of water through Ranney Collector Wells located adjacent to and under the Boise River within the SE1/4NE1/4, Sec. 14, Twp. 3N, Rge. 2E B.M., Ada County.

2) The applicant is seeking to add a point of diversion, also using

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Ranney Collector Wells adjacent to and under the Boise River, within the SE1/4NE1/4, Sec. 5, Twp. 3N, Rge. 2E B.M., Ada County.

3) The existing point of diversion is upstream from the protestant's point of diversion and the proposed point of diversion is downstream from the protestant's point of diversion.

4) The description of the proposed diverting works and construction procedure given by the applicant does not support the likelihood of physical damage to the protestant's diversion works.

5) The applicant stated it is always physically able to divert the full entitlement at the upper point of diversion.

6) The applicant has proposed to add the requested point of diversion to provide better water service to northwest Boise, an area in which large producing cold water wells have not been successful.

7) The applicant seeks to divert up to 5.00 cubic feet per second from the proposed point of diversion.

#### CONCLUSIONS OF LAW

1) The addition of the proposed point of diversion by the applicant will not cause injury to other existing water rights.

2) The addition of the proposed point of diversion will not expand or enlarge the applicant's water right.

3) It is in the local public interest to provide northwest Boise with adequate water service for which the applicant seeks the proposed additional point of diversion.

4) The applicant is entitled to add a point of diversion with certain conditions and limitations.

#### ANALYSIS

The applicant's license shows the source of water as groundwater; however, there is a concern by the protestant and other Boise River water users that the source of water is actually Boise River water. The applicant's existing and proposed diversion works consists of Ranney Collection Wells which, depending on installation, take water from 30 to 60 feet below surface and include horizontal collectors of perforated pipe or screens that project radially from the vertical well. Several of these horizontal members project under the bed of the Boise River.

With the diversion arrangement it is probable the applicant's water diversion will affect the flow of the Boise River; however, it is also probable the total effect on the surface flow of the Boise River will be less than the total diversion by the applicant. At present there are no measurement data or analytical analysis to quantify the extent of interconnection, if one exists, between the Ranney Collector Wells and the Boise River.

While the issue of interconnection of the applicant's diversion works to the Boise River must be resolved, it is not an issue that directly affects the consideration of the application for transfer presently before the Director. Since the applicant is proposing the same method of diversion at the proposed point of diversion as is presently used at the existing points of diversion, the net effect on the Boise River will not change. In particular, the existing diversion is upstream from the protestant's point of diversion and the proposed diversion is downstream; therefore, any effect on the Boise River will result in more water being available in the river at the protestant's point of diversion.

The proposed diversion works and methods of construction described by the applicant should not harm the protestant's diversion works. The applicant will install a vertical caisson on the river bank downstream from the protestant's diversion works. The radial collectors will then be installed from within the caisson by boring horizontally outward and pushing the perforated pipe and/or screens into place. No construction will take place in the bed of the river or on the protestant's diversion works.

The protestant also expressed concern about the applicant's use of their right-of-way and/or easement and a crossing of their canal. While these are valid concerns of the protestant and may represent issues to be resolved between the protestant and applicant, they are not proper issues to be considered by the Director in his examination of the application for transfer presently before him.

The issue of expansion of the applicant's water right was raised at the conference. Expansion will not occur, however, so long as the total diversion rate from all points of diversion does not exceed 15.00 cubic feet per second. The applicant stated it is presently possible to divert 15.00 cubic feet per second from the existing points of diversion at any time of the year. From a water supply standpoint, therefore, there is no advantage to add a downstream point of diversion as this application for transfer requests.

The applicant raised the issue of public interest only to state they felt it was in the local public interest to provide an adequate water supply for northwest Boise. The applicant explained their need for the proposed point of diversion as it relates to their overall distribution system and to northwest Boise in particular.

ORDER

IT IS, THEREFORE, HEREBY ORDERED that the protest be set aside and the Application for Transfer No. 2605 of License No. 63-2892 be APPROVED subject to the following conditions:

1) The maximum rate of diversion of water within the SE1/4NE1/4, Sec. 5, Twp. 2E, B.M. under this water right shall be limited to 5.00 cubic feet per second.

2) The maximum rate of diversion from all points of diversion shall be limited to 15.00 cubic feet per second under this water right.

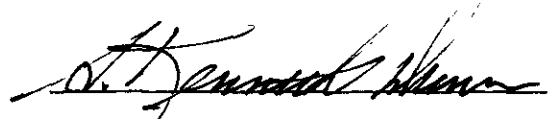
3) The approval of this transfer in no way grants any right-of-way or easement across the land of another.

4) Until further notice, Boise Water Corporation shall furnish to the Department of Water Resources simultaneous flow measurement records from all points of diversion under this water right. Such measurements to include one set of measurements recorded during the maximum peak demand period for each week during the months of June, July, August and September, and such other measurement records as may reasonably be requested from time to time by the department. All measurement records sought by the department shall be delivered within 15 days of the end of the measurement period (week) or within 15 days of any request by the department.

5) Boise Water Corporation shall commence a study by May 1, 1982 to determine the hydraulic interconnection of their Ranney Collector Wells and the surface flows of the Boise River at the various flow levels of the Boise River. This study shall be developed in cooperation with the department with the results available no later than June 15, 1983. Should Boise Water Corporation choose not to conduct this study, the diversion of water under this water right shall be placed under the control of the watermaster of Water District 63 as a Boise River diversion.

6) The Director of the Department of Water Resources retains jurisdiction over this right for the purpose of determining if the diversion will affect the flow of the Boise River.

Dated this 5<sup>th</sup> day of January, 1982.



A. KENNETH DUNN

Director

**MICROFILMED**

BEFORE THE DIRECTOR OF DEPARTMENT OF WATER RESOURCES  
OF THE  
STATE OF IDAHO

IN THE MATTER OF PROTEST AGAINST APPROVAL OF )  
APPLICATION FOR TRANSFER NO. 2605 OF LICENSE NO. ) CERTIFICATE OF MAILING  
63-2892 IN THE NAME OF BOISE WATER CORPORATION )

I HEREBY CERTIFY That on this 5th day of January, 1982 a true and correct  
copy of the foregoing MEMORANDUM DECISION AND ORDER was mailed postage prepaid to:

Boise Water Corporation  
P. O. Box 7488  
Boise, ID 83707

Harry A. Vogt, Secretary  
Farmers Union Ditch Co., Ltd.  
Route 1  
Eagle, ID 83616

  
RITA I. FLECK  
Sr. Secretary  
Idaho Department of Water Resources



Transfer No. 2605  
Water Right No. 63-2892

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**APPLICATION FOR TRANSFER OF WATER RIGHT** **APPROVED**  
To Change the Point of Diversion and/or the Place of Use

Name of applicant Boise Water Corporation Phone 208-362-2618  
Post office address P.O. Box 7488, Boise, Idaho 83707

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:
- a. Decree to \_\_\_\_\_ (Name)  
in case of \_\_\_\_\_ vs \_\_\_\_\_  
dated \_\_\_\_\_ in \_\_\_\_\_ county of \_\_\_\_\_  
(Name of court)
- b. License No. (G-22594) 63-2892 issued by the Idaho Department of Water Resources
- c. Claim No. \_\_\_\_\_ on file with the Idaho Department of Water Resources
2. If applicant is not the original holder of this right, explain how it was acquired and attach a copy of the deed or other evidence of ownership of the land to which the right is appurtenant \_\_\_\_\_
3. Source of water Groundwater - Boise R. (see Remarks Det) tributary to N.A.
4. Date of priority February 7, 1952
5. Water is used for the following purposes:  
amount 15 cfs for Municipal Water purposes from Jan. 1 to Dec. 31  
amount \_\_\_\_\_ for Supply purposes from \_\_\_\_\_ to \_\_\_\_\_  
amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_  
(month/day - both dates inclusive)
6. Total amount of water under right: a. 15.0 cubic feet per second  
&/or  
b. \_\_\_\_\_ acre feet per annum
7. Location of original point of diversion is (s) SE  $\frac{1}{4}$  of NE  $\frac{1}{4}$  of Section 14  
Township 3N Range 2E, B.M., in Ada County  
Additional points of diversion, if any (3 points of diversion in the SE  $\frac{1}{4}$  NE  $\frac{1}{4}$ )

8. Lands irrigated or place of use: Municipal Water Supply System

| TWP. | RANGE | SEC. | NE $\frac{1}{4}$ |                  |                  |                  | NW $\frac{1}{4}$ |                  |                  |                  | SW $\frac{1}{4}$ |                  |                  |                  | SE $\frac{1}{4}$ |                  |                  |                  | TOTALS |
|------|-------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|
|      |       |      | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ |        |
|      |       |      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|      |       |      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|      |       |      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|      |       |      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
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|      |       |      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|      |       |      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |

Total number of acres to be irrigated \_\_\_\_\_

9. Describe any other water rights used for the same purposes as described above \_\_\_\_\_  
Numerous other individual well licenses.

B. DESCRIPTION OF PORTION OF RIGHT OWNED BY APPLICANT (If the entire right is owned by the applicant, omit part B). N.A.

1. Amount of water: a. cubic feet per second  
&/or  
b. acre feet per annum
2. Point of diversion ¼ ¼, Section Township  
Range , B.M., County  
Additional points

3. Place of use:

| TWP. | RANGE | SEC. | NE¼ |     |     |     | NW¼ |     |     |     | SW¼ |     |     |     | SE¼ |     |     |     | TOTALS |
|------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|      |       |      | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
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|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |

C. DESCRIPTION OF RIGHT OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

1. Change in point of diversion

a. Amount of water to be diverted 15.0 c.f.s. &/or acre feet

b. Point(s) of diversion SE ¼ NE ¼, Section 5 Township 3N  
Range 2E , B.M., Ada County  
Additional points Three (3) original points of diversion in SE¼ NE¼ Sec. 14  
T3N R2E B.M. Ada County

c. Description of diverting works Ranney radial well collectors

d. Describe the reasons for applying for a change in the point(s) of diversion to increase  
distribution system efficiency due to changing daily and seasonal demand of  
customers.

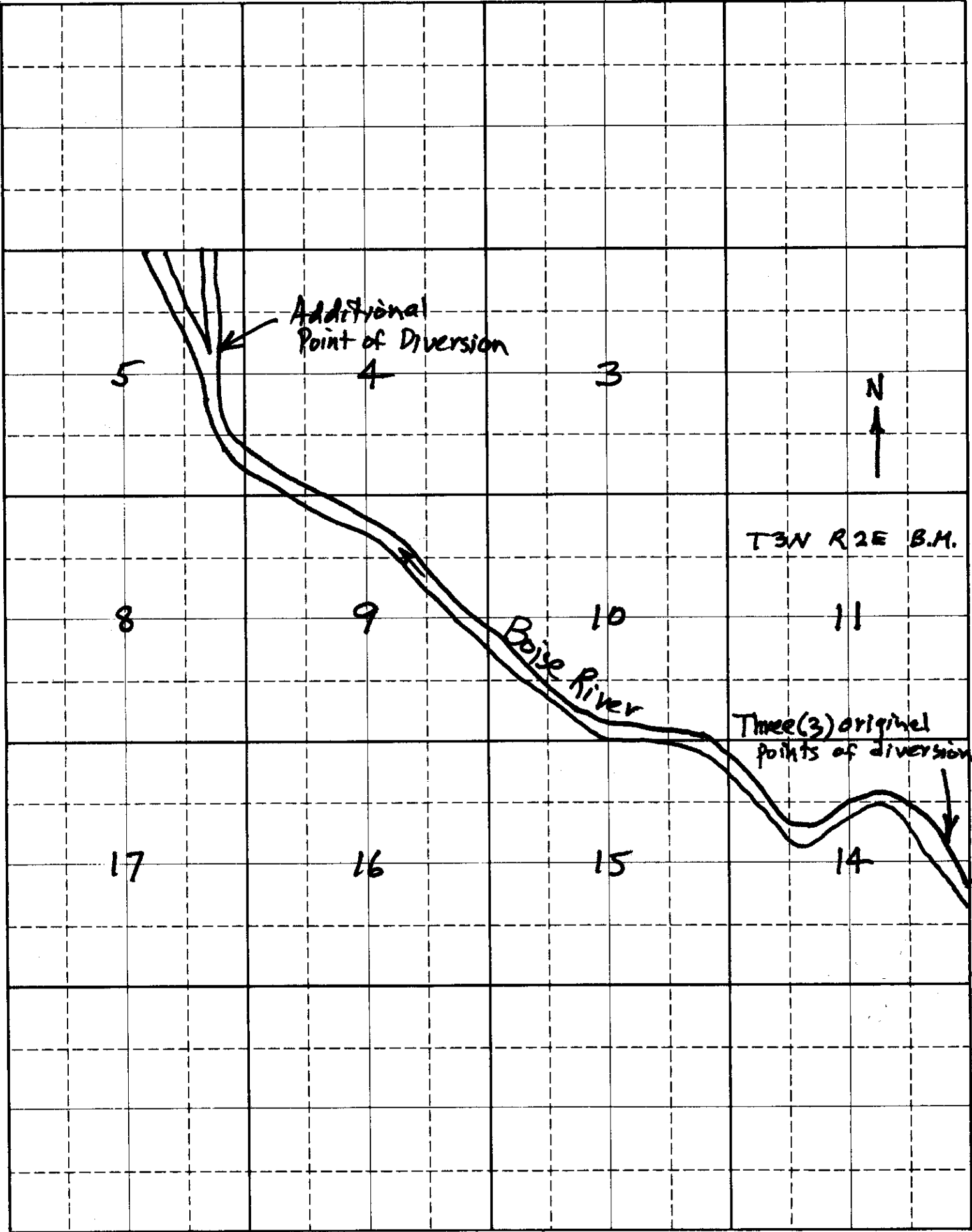
2. Change in place of use

- a. Describe the lands or place of use to which the right will be transferred: N.A.

| TWP. | RANGE | SEC. | NE¼ |     |     |     | NW¼ |     |     |     | SW¼ |     |     |     | SE¼ |     |     |     | TOTALS |
|------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|      |       |      | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |

Total number of acres to be irrigated

3. Draw a map indicating the new point(s) of diversion and/or the new land to be irrigated. Show clearly the land involved by section, township and range number.



SCALE: 2 inches equal 1 mile. Draw plan in ink.

MICROFILMED

4. Remarks Water is to be diverted by means of a Ranney Collector Well approximately 65' deep equipped with two submersible turbine pumping units located adjacent to the Boise River. DRT 10/30/81

I hereby assert that no one will be injured by such change and the change does not constitute an enlargement in use of the original right. The information contained in this application is true to the best of my knowledge.

Benjamin M. Hepler Last Sec  
(Signature of applicant)

Subscribed and sworn to before me this 30<sup>th</sup> day of October, 19 81.

Sandra K. Knox  
(Notary public)

My commission expires December 12, 1985

#### ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. 63-2892 and said application is hereby APPROVED, subject to the following limitations and conditions:  
PURSUANT TO MEMORANDUM DECISION AND ORDER

Witness my hand this 5<sup>th</sup> day of January, 19 82.

[Signature]  
Director

#### FOR DEPARTMENT USE ONLY

|                                               |                                   |                                                      |
|-----------------------------------------------|-----------------------------------|------------------------------------------------------|
| Received by <u>DRT</u>                        | Date <u>OCT 30, 1981</u>          | Protest filed by <u>Farmer's Union Lith. Co.</u>     |
| Prelim. check by <u>DRT</u>                   | Fee <u>50<sup>00</sup> #20544</u> | <u>Harry West, Secretary</u>                         |
| Receipted by <u>RG</u>                        | Date <u>OCT 30, 1981</u>          |                                                      |
| Published in <u>Idaho Statesman</u>           |                                   | Copies of protest forwarded by <u>JP</u>             |
| Pub. date <u>11.5 &amp; 11.12.81</u>          |                                   | Hearing held by <u>DBS, BOF</u> Date <u>12/21/81</u> |
| Watermaster recommendation requested on _____ |                                   | Recommended for <u>approval</u> denial               |
| _____ rec'd. _____                            |                                   | by <u>DBS</u>                                        |

COUNTY OF ADA )

✓

issue of November 12, 1981.

day of November, 1981.

Notary Public for Idaho, Residing at Boise, Idaho

NOV 19 1981

Department of Water Resources  
Western Regional Office

State of Idaho  
License and Certificate of Water Right

Water License No. G-22594

Amount 15.0 c.f.s.

Water District No.

Priority February 7, 1952

THIS IS TO CERTIFY that BOISE WATER CORPORATION  
of Boise, Idaho, made application for a permit to appropriate the  
public waters of the State of Idaho, dated February 7, 1952; that Permit No. G-22594  
was issued under said application; that Certificate of Completion of works, with a carrying capacity of  
15.0 second feet, was issued thereunder on June 17, 1957, showing that said works  
were completed on the 12th day of February, 1957; and that on the 12th  
day of February, 1957, O. P. Newman, Water Utility Operator

of Boise, State of Idaho, made proof to the satisfaction of the  
State Reclamation Engineer of Idaho, of the right to use the waters of 3 wells  
(collector points)  
~~xxxxxxx~~ subterranean flow, for the purpose of Municipal Water Supply  
under Use Permit No. G-22594 of the Department of Reclamation  
and that said right to the use of said waters has been perfected in accordance with the laws of Idaho,  
and is hereby confirmed by the State Reclamation Engineer of Idaho and entered of record in Volume  
10 of Licenses at page 6015, on the 17th day of June, 1957;

The right hereby confirmed dates from February 7, 1952;

The Point of Diversion is located  
in the SE 1/4 NE 1/4, Sec. 14, Tp. 3 N, R. 2 E, B. M. Ada County

That the amount of water to which such right is entitled and hereby confirmed, for the purposes  
aforesaid, is limited to an amount actually needed and beneficially used for said purposes, and shall  
not exceed 15.0 cubic feet per second.

Description and location of use:

| Twp. | Range | Sec. | Forty-acre Tract       | No. Acres<br>Described in Permit | No. Acres<br>Actually Irrigated |
|------|-------|------|------------------------|----------------------------------|---------------------------------|
|      |       |      | MUNICIPAL WATER SUPPLY |                                  |                                 |

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place  
of use herein described, as provided by the laws of Idaho.

WITNESS the seal and signature of the State Reclamation Engineer, affixed at Boise, Idaho, this  
17th day of June, 1957.

/s/ Mark R. Kulp

State Reclamation Engineer.

(SEAL)

63-1832

63-2892

# APPLICATION FOR PERMIT To Appropriate the Subterranean Waters of The State of Idaho

Application No. G- 30336  
Permit No. G- 22594  
District No.

Carey H. Nixon  
Box 699, Boise, Idaho

1. Name of Applicant: **BOISE WATER CORPORATION**  
Postoffice address: **Boise** County: **Ada** State: **Idaho**
2. Quantity of water claimed:
  - (a) Rate of withdrawal in cubic feet per second. **25** or Idaho  
Miners' inches or gallons per minute.
  - (b) Annual withdrawal in acre feet per annum
3. Source of water supply: **Subterranean from well.**
4. Location of point of diversion or well is in the **SE**  $\frac{1}{4}$  of the **NE**  $\frac{1}{4}$  of Section **14**  
Twp. **3 N.**, Rge. **2 E.**, B.M., County of **Ada**
5. Water is to be used for: **Municipal water supply.**
6. If for municipal, industrial or recreational purposes, give:  
**Service area of applicant in Boise City, Ada County, Idaho, and vicinity, as now**  
(a) Point of use of water is in the  $\frac{1}{4}$  of the  $\frac{1}{4}$  of Section **14**, Twp.  
**served or hereafter extended.**  
Rge. **2 E.**, B.M.
- (b) Waste water or sewage effluent is to be returned to  
at a point in the  $\frac{1}{4}$  of the  $\frac{1}{4}$  of Section **14**, Twp. **3 N.**, Rge. **2 E.**, B.M.
7. Kind of works: **Water collector, 13 ft. diam. X 60ft. deep, with horizontal, perforated collector pipes extending for 150 foot radius. To be equipped with 4 deep well turbine pumps (total 600 h.p. and connected to water distribution system of applicant.**
8. Estimated cost of works: **\$ 200,000.00.**
9. (a) Is reservoir to be used? **No**  
(b) Capacity of reservoir:
10. The time required for the completion of such work and complete application of the water to the proposed use is **Five (5)** years.
11. If applicant is a corporation, give:
  - I. (a) Date and place of incorporation: **April 2, 1928- Boise, Idaho**  
(b) Amount of capital stock: **\$ 1,750,000** (c) Amount paid in: **\$1,636,000**  
(d) Names and addresses of directors: **H.R.Vinson, Boise, Idaho; Howard Butcher III, Philadelphia, Pa.; R. Van Horn, Philadelphia, Pa.; Carey H. Nixon, Boise, Idaho; O. P. Newman, Boise, Idaho.**
  - II. The financial resources of the applicant are (a) Cash onhand: **\$41,585.07, as of Dec. 31, 1951**  
(b) Treasury stock: (c) Bonds to be issued:  
(d) Other resources: **\$6,784,457.30, as of Dec. 31, 1951.**
12. The land to be irrigated is described in the following tabulation:
13. Existing water rights and/or valid permits appurtenant to the lands to be irrigated are:
  - (a) (cubic feet per second, inches or gallons per minute) of the water herein applied for is to be supplemental to the existing water rights.
  - (b) (cubic feet per second, inches or gallons per minute) is for new lands.

BE IT KNOWN THAT The undersigned hereby makes appli cation for permit to appropriate the public waters of the State of Idaho as herein set forth.

By O. P. Newman Agent,  
Vice-President.

Corrected application received:

MARK R. KULP  
State Reclamation Engineer.

LEN JORDAN  
Governor

| Twp. | Range | Sec. | NE $\frac{1}{4}$<br>NE $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$  SE $\frac{1}{4}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NW $\frac{1}{4}$<br>NE $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$  SE $\frac{1}{4}$ | SW $\frac{1}{4}$<br>NE $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$  SE $\frac{1}{4}$ | SE $\frac{1}{4}$<br>NE $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$  SE $\frac{1}{4}$ | Totals |
|------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------|
|      |       |      | <p align="center">Permit No. G-22594<br/>           CERTIFICATE OF COMPLETION OF WORKS</p> <hr/> <p>TO ALL WHOM IT MAY CONCERN:</p> <p>This is to certify that BOISE WATER CORPORATION of Boise, County of Ada, and State of Idaho, the holder of Permit No. G-22594, issued upon Application No. 30336 bearing date of priority of February 7, 1952, authorizing the diversion of 25.0 second feet of the waters of three wells-subterranean flow County of Ada, State of Idaho, for Municipal water supply purposes, has fully complied with the provisions of the laws of the State relating to the proof of completion of the works of diversion set out and described in said Permit; that said works are adequate for diverting and conveying to the place of intended use 15.0 second feet of the waters of subterranean flow from three collector points (wells) that the points of diversion of said waters SE<math>\frac{1}{4}</math>NE<math>\frac{1}{4}</math> of Section 14, Township 3 North, Range 2 East, B. M. and that the use of said water is described as follows to wit: Municipal water supply.</p> <p>Proof of Completion of Works made: February 12, 1957<br/>           Witness my hand this 17th day of June, A. D. 1957</p> <p align="right">/s/ MARK R. KULP<br/>           State Reclamation Engineer</p> <p>Proof of Completion of Works made: February 12, 1957<br/>           Certificate of Completion of Works issued June 17, 1957</p> <p align="center">15<br/>           880 FL<br/>           8,6045</p> |                                                                                            |                                                                                            |                                                                                            |        |



IN REPLY  
REFER TO: PN 440

# United States Department of the Interior

BUREAU OF RECLAMATION  
PACIFIC NORTHWEST REGION  
FEDERAL BUILDING & U.S. COURTHOUSE  
BOX 043 - 550 WEST FORT STREET  
BOISE, IDAHO 83724

RECEIVED  
OCT 17 1986

OCT 16 1986

Department of Water Resources

Mr. Benjamin M. Hepler, Manager  
Boise Water Corporation  
P.O. Box 7488  
Boise, Idaho 83707

Dear Mr. Hepler:

Enclosed is a conformed copy of Contract No. 6-07-10-W0623, dated October 8, 1986, for your records. We have received and credited your check for \$17,540 as the payment for 1986. Pursuant to Article 11, the next payment is due on January 1, 1987.

The initialed change in Article 9 is acceptable. The flow meter readings currently taken are an acceptable method of measurement for quantities of water withdrawn at the Ranney Collectors provided they are acceptable to the State Watermaster as stated in Article 12(b).

Our engineer in charge of our water conservation programs will contact you to assist in documenting that your water conservation program meets our regulations.

Sincerely yours,

*David C. Wallace*  
Acting Assistant Regional Director

Enclosure

cc: Mr. Kenneth Dunn  
Idaho Department of Water Resources  
Statehouse  
Boise, Idaho 83720  
(with enclosure)

State Watermaster  
Water District No. 63  
214 Broadway Avenue  
Boise, Idaho 83702  
(with enclosure)

NOV 10 1986

PN DRAFT 2/14/86  
Revised 3/7/86  
Revised 5/28/86  
Revised 8/18/86  
Contract No. 6-07-10-W0623

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

MUNICIPAL WATER SERVICE CONTRACT  
BETWEEN THE UNITED STATES AND THE BOISE WATER CORPORATION

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UNRECORDED

PN DRAFT 2/14/86  
Revised 3/7/86  
Revised 5/28/86  
Revised 8/18/86  
Contract No. 6-07-10-W0623

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

MUNICIPAL WATER SERVICE CONTRACT  
BETWEEN THE UNITED STATES AND THE BOISE WATER CORPORATION

THIS CONTRACT, made this 8th day of October, 1986, pursuant to the Act of Congress approved June 17, 1902 (32 Stat. 388), and acts amendatory thereof or supplementary thereto, and particularly section 9(c)(2) of the Reclamation Project Act of 1939 (53 Stat. 1187), collectively known as the Federal Reclamation laws, between THE UNITED STATES OF AMERICA, hereinafter referred to as the United States, represented by the officer executing this contract, hereinafter referred to as the Contracting Officer, and the BOISE WATER CORPORATION, an Idaho Corporation, with its principal place of business in Boise, Idaho, hereinafter referred to as the Contractor,

WITNESSETH THAT:

EXPLANATORY RECITALS

2. WHEREAS, the United States has constructed and is operating the Anderson Ranch Dam and Reservoir on the Boise River as part of the Boise Project in which there is water stored which can be used for the irrigation of land and for other beneficial uses, which stored water was appropriated by the United States pursuant to the laws of Idaho for beneficial use under the Federal Reclamation Laws; and

Recital 2

APPROVED

3. WHEREAS, the Contractor, under permit from the Idaho Department of Water Resources (IDWR), currently operates four Ranney collectors at sites situated adjacent to the Boise River as part of their municipal water supply; and

4. WHEREAS, as a result of a study required by the IDWR, it has been determined that a portion of the water collected by the Ranney collectors is obtained from surface flows of the Boise River, and the Contractor has, therefore, requested long-term contractual arrangements for 1,000 acre-feet of storage space in Anderson Ranch Reservoir to provide those surface flows; and

5. WHEREAS, the United States is currently involved in the Boise Project Power Modification Study (BPPMS) with the primary objective of arriving at recommendations for hydropower development at Boise River dams in concert with other functional needs of the Boise River system including those of the Contractor; and

6. WHEREAS, the BPPMS operation studies for the Boise River system show that the United States can effectively change the use of the active power space in Anderson Ranch Reservoir to joint municipal and industrial (M&I) and power, thus making reservoir space available to the Contractor. Such joint use of reservoir space will not impair the efficiency of the Boise Project for irrigation nor interfere with the operation of the project for flood control, hydroelectric power generation, or other existing beneficial uses; and

7. WHEREAS, the United States will secure from the IDWR appropriate water use authorizations applicable to the use of water under Idaho law; and

**RECORDED**  
Recitals 3, 4, 5, 6,

8. WHEREAS, compliance with the National Environmental Policy Act of 1969 has been met through a Categorical Exclusion Checklist dated April 2, 1985, which evaluated the impacts of changing the use of this part of the water storage space in Anderson Ranch Reservoir from power to joint-use M&I and power.

NOW THEREFORE, in consideration of the mutual and dependent covenants herein contained, the parties hereto agree as follows:

TERM OF CONTRACT

9. This contract shall become effective on the date first-above written and will continue in effect for a period of 40 years unless previously terminated under the provisions of Article ~~12~~ <sup>13</sup> hereof: Provided, That upon expiration of the 40-year term, this contract may be renewed taking into consideration conditions then existing and under provisions mutually acceptable to the parties.

WATER TO BE MADE AVAILABLE TO THE CONTRACTOR

10. (a) During the term of this contract, the United States shall make available to the Contractor and the Contractor shall pay for, as provided in Article 11 hereof, the water from 1,000 acre-feet of storage space in Anderson Ranch Reservoir. All active space in Anderson Ranch Reservoir will be treated with the same priority for determining the amount of stored water available. Losses or shortages resulting from the storage operation will be prorated equally.

(b) Up to 1,000 acre-feet of water from storage space in Anderson Ranch Reservoir will be released by the United States each year. The amount of water released from this space, the rate at which this water is

released, and the timing of these releases will be done as directed by the State Watermaster. Unused water in this space may be held over in Anderson Ranch Reservoir from year to year.

#### RATE AND METHOD OF PAYMENT

11. (a) Each year the Contractor shall pay for 1,000 acre-feet of storage space in Anderson Ranch Reservoir at the rate of \$17.54 per acre-foot, whether or not the water in this space is utilized and regardless of any held over water.

(b) From time to time, but not less often than once every 5 years, the rate per acre-foot (including operation, maintenance, and replacement costs) will be reviewed by the Contracting Officer and revised, if necessary, taking into account any changes in project costs, allocation of costs, interest rates, or other related factors.

(c) The initial payment to the United States for the first year's water shall be due upon execution of this contract.

(d) Subsequent annual payments shall be due on January 1 of the year following the date of this contract and each year thereafter:

Provided, That the dates of payment may be changed if mutually agreeable to the Contracting Officer and the Contractor.

(e) All payments from the Contractor to the United States under this contract shall be made by the medium requested by the United States on the date payment is due. The required method of payment may include checks, wire transfers, or other types of payment specified by the United States.

## MEASUREMENT AND RESPONSIBILITY FOR DISTRIBUTION

12. (a) The water to be furnished to the Contractor will be measured by facilities operated by the United States and delivered into the Boise River. At the option of the United States, the Anderson Ranch Reservoir stored water to which the Contractor is entitled may be measured and delivered to or for the Contractor at the outlet works of Anderson Ranch Reservoir, Arrowrock Reservoir, or Lucky Peak Reservoir. The Contractor shall incur all transportation and administration losses from the point of such delivery to the place of use.

(b) The Contractor agrees to provide measuring devices which are acceptable to the State Watermaster in charge of the distribution of water from the Boise River at or near the Contractor's point of diversion to measure the quantities of surface and ground water collected by the Ranney collectors. The Contractor is responsible for making any arrangements with the State of Idaho for the collection of such water. The Contractor shall pay any charges required by the IDWR for the State Watermaster's handling or administration of this water.

(c) The United States shall not be responsible for the control, carriage, handling, use, disposal, or distribution of water taken by the Contractor hereunder, and the Contractor shall hold the United States harmless on account of damage or claim of damage of any nature whatsoever, including property damage, personal injury, or death arising out of or connected with the control, carriage, handling, use, disposal, or distribution of such water by the Contractor.

### TERMINATION OF CONTRACT

13. (a) This contract shall be terminated and water service hereunder shall cease at the option of the United States at any time if the Contractor is delinquent in payments required under this contract or upon failure of the Contractor to comply with other provisions herein or to abide by any lawful notice, order, rule, or regulation of the United States and the State of Idaho, now or hereafter established affecting water service hereunder: Provided, That the United States notifies the Contractor of any delinquency or deficiency by written notice and the Contractor fails to comply with said notice within 60 days.

(b) The Contractor shall have the right to terminate this contract for any reason: Provided, That notice of the intent by the Contractor to terminate this contract shall be in writing to the Contracting Officer at least 60 days prior to the termination date proposed: Provided further, That termination under this provision shall become effective no sooner than January 1 of the next calendar year following such written notice.

(c) Termination of this contract for any cause shall not relieve the Contractor of any obligations incurred by way of this contract prior to termination.

### UNITED STATES NOT LIABLE FOR WATER SHORTAGE

14. On account of drought, errors in operation, or other causes, there may occur at times a shortage during any year in the quantity of water available to the Contractor by the United States pursuant to this contract, and in no event shall any liability accrue against the United States or any of its officers, agents, or employees for any damage direct

or indirect, arising therefrom. No proportionate adjustment in payments required will be made to the extent water is not available in Anderson Ranch Reservoir for diversion under this contract.

#### CONTRACT - NOT A WATER RIGHT

15. No provisions of this contract, nor any renewal thereof, nor the furnishing of water hereunder will be construed to either bind the United States after the expiration of this contract or as the basis of a permanent water right.

#### BOOKS, RECORDS AND REPORTS

16. The Contractor shall establish and maintain accounts and other books and records pertaining to administration of the terms and conditions of this contract, including: water supply data, water use data, and other matters that the Contracting Officer may require. Reports thereon shall be furnished as the Contracting Officer may require. Subject to applicable Federal laws and regulations, each party to this contract shall have the right during office hours to examine and make copies of the other party's books and records relating to matters covered by this contract.

#### STANDARD CONTRACT ARTICLES

17. This contract is subject to standard contract provisions listed below. The full text of these articles is attached as Exhibit A and is hereby made a part of this contract.

- A. CHARGES FOR DELINQUENT PAYMENTS
- B. GENERAL OBLIGATION--BENEFITS CONDITIONED UPON PAYMENT
- C. NOTICES
- D. CONTINGENT ON APPROPRIATION OR ALLOTMENT OF FUNDS
- E. OFFICIALS NOT TO BENEFIT

Articles 15, 16, 17

F. ASSIGNMENT LIMITED--SUCCESSORS AND ASSIGNS OBLIGATED

G. RULES, REGULATIONS, AND DETERMINATIONS

H. QUALITY OF WATER

I. WATER AND AIR POLLUTION CONTROL

J. WATER CONSERVATION

K. EQUAL OPPORTUNITY

L. COMPLIANCE WITH CIVIL RIGHTS LAWS AND REGULATIONS

IN WITNESS WHEREOF, the parties hereto have signed their names the day and year first above written.

UNITED STATES OF AMERICA

By John W. Keys, III  
Regional Director, PN Region  
Bureau of Reclamation

(SEAL)

BOISE WATER CORPORATION

By Wayne F. Bone  
Title: President

Attest:

By Benjamin M. Hepler  
Title: Manager and Board Sec.

STATE OF IDAHO )  
 : ss  
County of Ada )

On this 8<sup>th</sup> day of October, 1986, personally  
appeared before me John W. Keys, III, to me known to be the  
official of the United States of America that executed the within and  
foregoing instrument and acknowledged said instrument to be the free and  
voluntary act and deed of said United States, for the uses and purposes  
therein mentioned, and on oath stated that he was authorized to execute  
said instrument.

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

(SEAL)

Diana L. Jacobs  
Notary Public in and for the  
State of Idaho  
Residing at Boise  
My commission expires: 5-23-88

\*\*\*\*\*

STATE OF IDAHO )  
 : ss  
County of Ada )

On this 19<sup>th</sup> day of September, 1986, before me  
Selen J. Wood, a Notary Public, personally appeared  
Wayne L. Boe and Benjamin M. Jesler,  
known to me to be respectively the President and Secretary of the Boise  
Water Corporation, and the persons who executed the within instrument on  
behalf of said corporation, and acknowledged to me that said corporation  
executed the same.

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

(SEAL)

Selen J. Wood  
Notary Public in and for the  
State of Idaho  
Residing at Boise, Idaho  
My commission expires: 9-24-88

## STANDARD CONTRACT ARTICLES

Contract No. 6-07-10-W0623 between the United States of America and the Boise Water Corporation, hereinafter called the Contractor

CHARGES FOR DELINQUENT PAYMENTS

A. (1) The Contractor shall be subject to interest, administrative and penalty charges on delinquent installments or payments, pursuant to section 11 of the Debt Collection Act of 1982 (Public Law 97-365). When a payment is not received within 30 days of the due date, the Contractor shall pay an interest charge for each day the payment is delinquent beyond the due date. When a payment becomes 60 days delinquent, the Contractor shall pay an administrative charge to cover additional costs of billing and processing the delinquent payment. When a payment is delinquent 90 days or more, the Contractor shall pay an additional penalty charge of 6 percent per year for each day the payment is delinquent beyond the due date. Further, the Contractor shall pay any fees incurred for debt collection services associated with a delinquent payment.

(2) The interest charge rate shall be the greater of the rate prescribed quarterly in the Federal Register by the Department of the Treasury for application to overdue payments, or the interest rate of 0.5 percent per month prescribed by section 6 of the Reclamation Project Act of 1939 (Public Law 76-260). The interest charge rate shall be determined as of the due date and remain fixed for the duration of the delinquent period.

(3) When a partial payment on a delinquent account is received, the amount received shall be applied first to the penalty and administrative charges, second, to the accrued interest, and third to the overdue payment.

GENERAL OBLIGATION--BENEFITS CONDITIONED UPON PAYMENT

B. (1) The obligation of the Contractor to pay the United States as provided in this contract is a general obligation of the Contractor notwithstanding the manner in which the obligation may be distributed among the Contractor's water users and notwithstanding the default of individual water users in their obligations to the Contractor.

(2) The payment of charges becoming due hereunder is a condition precedent to receiving benefits under this contract. The United States shall not make water available to the Contractor through project facilities during any period in which the Contractor may be in arrears in the advance payment of water rates due the United States. The Contractor shall not furnish water made available pursuant to this contract for lands or parties which are in arrears in the advance payment of water rates levied or established by the Contractor.

NOTICES

C. Any notice, demand, or request authorized or required by this contract shall be deemed to have been given, on behalf of the Contractor, when mailed, postage prepaid, or delivered to the Regional Director, PN Region, Bureau of Reclamation, Box 043, 550 West Fort Street, Boise, Idaho 83724, and on behalf of the United States, when mailed, postage prepaid, or delivered to the Manager of the Contractor, Boise Water Corporation, P.O. Box 7488, Boise, Idaho 83707. The designation of the addressee or the address may be changed by notice given in the same manner as provided in this article for other notices.

CONTINGENT ON APPROPRIATION OR ALLOTMENT OF FUNDS

D. The expenditure or advance of any money or the performance of any obligation of the United States under this contract shall be contingent upon appropriation or allotment of funds. Absence of appropriation or allotment of funds shall not relieve the Contractor from any obligations under this contract. No liability shall accrue to the United States in case funds are not appropriated or allotted.

OFFICIALS NOT TO BENEFIT

E. No Member of or Delegate to Congress, Resident Commissioner or official of the Contractor shall benefit from this contract other than as a water user or landowner in the same manner as other water users or landowners.

#### ASSIGNMENT LIMITED--SUCCESSORS AND ASSIGNS OBLIGATED

F. The provisions of this contract shall apply to and bind the successors and assigns of the parties hereto, but no assignment or transfer of this contract or any right or interest therein shall be valid until approved in writing by the Contracting Officer.

#### RULES, REGULATIONS, AND DETERMINATIONS

G. (1) The parties agree that the delivery of water or the use of Federal facilities pursuant to this contract is subject to Reclamation law, as amended and supplemented, and the rules and regulations promulgated by the Secretary of the Interior under Reclamation law.

(2) The Contracting Officer shall have the right to make determinations necessary to administer this contract that are consistent with the expressed and implied provisions of this contract, the laws of the United States and the State, and the rules and regulations promulgated by the Secretary of the Interior. Such determinations shall be made in consultation with the Contractor.

#### QUALITY OF WATER

H. The operation and maintenance of project facilities shall be performed in such manner as is practicable to maintain the quality of raw water made available through such facilities at the highest level reasonably attainable, as determined by the Contracting Officer. The United States does not warrant the quality of water and is under no obligation to construct or furnish water treatment facilities to maintain or better the quality of water.

#### WATER AND AIR POLLUTION CONTROL

I. The Contractor, in carrying out this contract, shall comply with all applicable water and air pollution laws and regulations of the United States and the State of Idaho and shall obtain all required permits or licenses from the appropriate Federal, State, or local authorities.

#### WATER CONSERVATION

J. Prior to the delivery of water provided from or conveyed through federally constructed or federally financed facilities pursuant to this contract, the Contractor shall develop an effective water conservation program acceptable to the Contracting Officer. The water conservation program shall contain definite water conservation objectives, appropriate economically feasible water conservation measures, and time schedules for meeting those objectives. At subsequent 5-year intervals, the Contractor shall submit a report on the results of the program to the Contracting Officer for review. Based on the conclusions of the review, the Contracting Officer and the Contractor shall consult and agree to continue or to revise the existing water conservation program.

#### EQUAL OPPORTUNITY

K. During the performance of this contract, the Contractor agrees as follows:

(1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Contracting Officer setting forth the provisions of this nondiscrimination clause.

(2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without discrimination because of race, color, religion, sex, or national origin.

(3) The Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the Contracting Officer, advising the said labor union or workers' representative of the Contractor's commitments under Section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The Contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.

100-100000-100000

(5) The Contractor will furnish all information and reports required by said amended Executive Order and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to its books, records, and accounts by the Contracting Officer and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the such rules, regulations, or orders, this contract may be canceled, terminated, or suspended, in whole or in part, and the Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in said amended Executive Order, and such other sanctions may be imposed and remedies invoked as provided in said Executive Order, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The Contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by the rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of said amended Executive Order, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

#### COMPLIANCE WITH CIVIL RIGHTS LAWS AND REGULATIONS

L. (1) The Contractor shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), Section 504 of the Rehabilitation Act of 1975 (P.L. 93-112, as amended), the Age Discrimination Act of 1975 (42 U.S.C. 6101, et seq.) and any other applicable civil rights laws, as well as with their respective implementing regulations and guidelines imposed by the U.S. Department of the Interior and/or Bureau of Reclamation.

(2) These statutes require that no person in the United States shall, on the grounds of race, color, national origin, handicap, or age, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving financial assistance from the Bureau of Reclamation. By executing this contract, the Contractor agrees to immediately take any measures necessary to implement this obligation, including permitting officials of the United States to inspect premises, programs, and documents.

(3) The Contractor makes this agreement in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts, property discounts or other Federal financial assistance extended after the date hereof to the Contractor by the Bureau of Reclamation, including installment payments after such date on account of arrangements for Federal financial assistance which were approved before such date. The Contractor recognizes and agrees that such Federal assistance will be extended in reliance on the representations and agreements made in this article, and that the United States reserves the right to seek judicial enforcement thereof.

44-38861-10



# United States Department of the Interior

BUREAU OF RECLAMATION  
PACIFIC NORTHWEST REGION  
FEDERAL BUILDING & U.S. COURTHOUSE  
BOX 043-550 WEST FORT STREET  
BOISE, IDAHO 83724

AUG 25 1986

IN REPLY  
REFER TO: PN 440

RECEIVED

AUG 26 1986

Department of Water Resources

Mr. Jeffrey C. Fereday  
Givens, McDevitt, Pursley, Webb & Buser  
P.O. Box 2720  
Boise, Idaho 83701

Dear Mr. Fereday:

This letter is sent in response to your August 7, 1986, letter regarding the proposed municipal water service contract between the United States and the Boise Water Corporation (BWC).

We agree that the requested changes numbered 1 and 4 in your letter are points well taken, and we have changed them as you suggested.

We disagree with your suggested changes to the contract which would allow BWC to take credit for amounts of water held over by paying only for the amount of water which is actually released from the 1,000 acre-feet of storage space each year.

The holdover provisions in paragraphs 10(b) and 11(a) do not allow BWC either to hold or to release more than 1,000 acre-feet in any year. The purpose of the holdover provisions is to serve as a possible hedge against a dry year as noted in your letter. This purpose is the same for all contracts for storage space in Anderson Ranch Reservoir. To change the holdover provisions so that BWC would pay for only the water released each year and not for the entire space would give them a right existing contractors do not have.

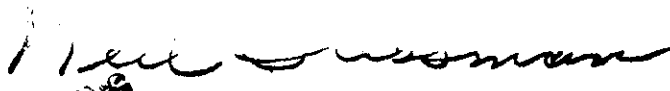
If the 1,000 acre-feet of storage space is found to be too low or too high, this contract can be terminated and replaced by a new one provided space is available at that time. Currently, only 4,200 acre-feet of additional space is available. The limited amount of space available is also a factor in our decision to not permit BWC to pay for what is actually needed each year, as determined by the Idaho Department of Water Resources (IDWR), while actually tying up a greater amount of reservoir space.

As we understand BWC's arrangement with the IDWR, the 1,000 acre-feet of storage is an estimated average of storage space needed during the foreseeable future to replace surface flows taken by Ranney collectors. Therefore, to be able to pay less in years when less than 1,000 acre-feet is needed and to not pay more when more is needed would be having it both ways.

MICROFILMED

We hope you and BWC find the enclosed municipal water service contract (containing the two revisions previously mentioned) for the fixed amount of 1,000 acre-feet of storage acceptable and sufficient. If you still want to discuss the proposed contract, please call Larry Parsons of our office at 334-9504 to arrange a meeting.

Sincerely yours,

  
Regional Director

Enclosure

cc: Mr. Robert P. Walker, P.E.  
District Engineer  
Boise Water Corporation  
P.O. Box 7488  
Boise, Idaho 83707  
(with enclosure)

Mr. Kenneth Dunn  
Idaho Department of Water Resources  
Statehouse  
Boise, Idaho 83720  
(with enclosure)

State Watermaster  
Water District No. 63  
214 Broadway Avenue  
Boise, Idaho 83702  
(with enclosure)

RECEIVED

PN DRAFT 2/14/86  
Revised 3/7/86  
Revised 5/28/86  
Revised 8/18/86  
Contract No.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
  
MUNICIPAL WATER SERVICE CONTRACT  
BETWEEN THE UNITED STATES AND THE BOISE WATER CORPORATION

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RECEIVED

PN AFT 2/14/86  
Revised 3/7/86  
Revised 5/28/86  
Revised 8/18/86  
Contract No.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

MUNICIPAL WATER SERVICE CONTRACT  
BETWEEN THE UNITED STATES AND THE BOISE WATER CORPORATION

THIS CONTRACT, made this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, pursuant to the Act of Congress approved June 17, 1902 (32 Stat. 388), and acts amendatory thereof or supplementary thereto, and particularly section 9(c)(2) of the Reclamation Project Act of 1939 (53 Stat. 1187), collectively known as the Federal Reclamation laws, between THE UNITED STATES OF AMERICA, hereinafter referred to as the United States, represented by the officer executing this contract, hereinafter referred to as the Contracting Officer, and the BOISE WATER CORPORATION, an Idaho Corporation, with its principal place of business in Boise, Idaho, hereinafter referred to as the Contractor,

WITNESSETH THAT:

EXPLANATORY RECITALS

2. WHEREAS, the United States has constructed and is operating the Anderson Ranch Dam and Reservoir on the Boise River as part of the Boise Project in which there is water stored which can be used for the irrigation of land and for other beneficial uses, which stored water was appropriated by the United States pursuant to the laws of Idaho for beneficial use under the Federal Reclamation Laws; and

Recital 2

3. WHEREAS, the Contractor, under permit from the Idaho Department of Water Resources (IDWR), currently operates four Ranney collectors at sites situated adjacent to the Boise River as part of their municipal water supply; and

4. WHEREAS, as a result of a study required by the IDWR, it has been determined that a portion of the water collected by the Ranney collectors is obtained from surface flows of the Boise River, and the Contractor has, therefore, requested long-term contractual arrangements for 1,000 acre-feet of storage space in Anderson Ranch Reservoir to provide those surface flows; and

5. WHEREAS, the United States is currently involved in the Boise Project Power Modification Study (BPPMS) with the primary objective of arriving at recommendations for hydropower development at Boise River dams in concert with other functional needs of the Boise River system including those of the Contractor; and

6. WHEREAS, the BPPMS operation studies for the Boise River system show that the United States can effectively change the use of the active power space in Anderson Ranch Reservoir to joint municipal and industrial (M&I) and power, thus making reservoir space available to the Contractor. Such joint use of reservoir space will not impair the efficiency of the Boise Project for irrigation nor interfere with the operation of the project for flood control, hydroelectric power generation, or other existing beneficial uses; and

7. WHEREAS, the United States will secure from the IDWR appropriate water use authorizations applicable to the use of water under Idaho law; and

Recitals 3, 4, 5, 6, 7

8. WHEREAS, compliance with the National Environmental Policy Act of 1969 has been met through a Categorical Exclusion Checklist dated April 2, 1985, which evaluated the impacts of changing the use of this part of the water storage space in Anderson Ranch Reservoir from power to joint-use M&I and power.

NOW THEREFORE, in consideration of the mutual and dependent covenants herein contained, the parties hereto agree as follows:

TERM OF CONTRACT

9. This contract shall become effective on the date first-above written and will continue in effect for a period of 40 years unless previously terminated under the provisions of Article 12 hereof: Provided, That upon expiration of the 40-year term, this contract may be renewed taking into consideration conditions then existing and under provisions mutually acceptable to the parties.

WATER TO BE MADE AVAILABLE TO THE CONTRACTOR

10. (a) During the term of this contract, the United States shall make available to the Contractor and the Contractor shall pay for, as provided in Article 11 hereof, the water from 1,000 acre-feet of storage space in Anderson Ranch Reservoir. All active space in Anderson Ranch Reservoir will be treated with the same priority for determining the amount of stored water available. Losses or shortages resulting from the storage operation will be prorated equally.

(b) Up to 1,000 acre-feet of water from storage space in Anderson Ranch Reservoir will be released by the United States each year. The amount of water released from this space, the rate at which this water is

released, and the timing of these releases will be done as directed State Watermaster. Unused water in this space may be held over in Anderson Ranch Reservoir from year to year.

RATE AND METHOD OF PAYMENT

11. (a) Each year the Contractor shall pay for 1,000 acre-feet of storage space in Anderson Ranch Reservoir at the rate of \$17.54 per acre-foot, whether or not the water in this space is utilized and regardless any held over water.

(b) From time to time, but not less often than once every 5 years, the rate per acre-foot (including operation, maintenance, and replacement costs) will be reviewed by the Contracting Officer and revised, if necessary, taking into account any changes in project costs, allocation of costs, interest rates, or other related factors.

(c) The initial payment to the United States for the first year's water shall be due upon execution of this contract.

(d) Subsequent annual payments shall be due on January 1 of the year following the date of this contract and each year thereafter:  
Provided, That the dates of payment may be changed if mutually agreeable to the Contracting Officer and the Contractor.

(e) All payments from the Contractor to the United States under this contract shall be made by the medium requested by the United States on the date payment is due. The required method of payment may include checks, wire transfers, or other types of payment specified by the United States.

MEASUREMENT AND RESPONSIBILITY FOR DISTRIBUTION

12. (a) The water to be furnished to the Contractor will be measured by facilities operated by the United States and delivered into the Boise River. At the option of the United States, the Anderson Ranch Reservoir stored water to which the Contractor is entitled may be measured and delivered to or for the Contractor at the outlet works of Anderson Ranch Reservoir, Arrowrock Reservoir, or Lucky Peak Reservoir. The Contractor shall incur all transportation and administration losses from the point of such delivery to the place of use.

(b) The Contractor agrees to provide measuring devices which are acceptable to the State Watermaster in charge of the distribution of water from the Boise River at or near the Contractor's point of diversion to measure the quantities of surface and ground water collected by the Ranney collectors. The Contractor is responsible for making any arrangements with the State of Idaho for the collection of such water. The Contractor shall pay any charges required by the IDWR for the State Watermaster's handling or administration of this water.

(c) The United States shall not be responsible for the control, carriage, handling, use, disposal, or distribution of water taken by the Contractor hereunder, and the Contractor shall hold the United States harmless on account of damage or claim of damage of any nature whatsoever, including property damage, personal injury, or death arising out of or connected with the control, carriage, handling, use, disposal, or distribution of such water by the Contractor.

**MICROFILMED**

#### TERMINATION OF CONTRACT

13. (a) This contract shall be terminated and water service hereunder shall cease at the option of the United States at any time if the Contractor is delinquent in payments required under this contract or upon failure of the Contractor to comply with other provisions herein or to abide by any lawful notice, order, rule, or regulation of the United States and the State of Idaho, now or hereafter established affecting water service hereunder: Provided, That the United States notifies the Contractor of any delinquency or deficiency by written notice and the Contractor fails to comply with said notice within 60 days.

(b) The Contractor shall have the right to terminate this contract for any reason: Provided, That notice of the intent by the Contractor to terminate this contract shall be in writing to the Contracting Officer at least 60 days prior to the termination date proposed: Provided further, That termination under this provision shall become effective no sooner than January 1 of the next calendar year following such written notice.

(c) Termination of this contract for any cause shall not relieve the Contractor of any obligations incurred by way of this contract prior to termination.

#### UNITED STATES NOT LIABLE FOR WATER SHORTAGE

14. On account of drought, errors in operation, or other causes, there may occur at times a shortage during any year in the quantity of water available to the Contractor by the United States pursuant to this contract, and in no event shall any liability accrue against the United States or any of its officers, agents, or employees for any damage direct

or indirect, arising therefrom. No proportionate adjustment in payments required will be made to the extent water is not available in Anderson Ranch Reservoir for diversion under this contract.

CONTRACT - NOT A WATER RIGHT

15. No provisions of this contract, nor any renewal thereof, nor the furnishing of water hereunder will be construed to either bind the United States after the expiration of this contract or as the basis of a permanent water right.

BOOKS, RECORDS AND REPORTS

16. The Contractor shall establish and maintain accounts and other books and records pertaining to administration of the terms and conditions of this contract, including: water supply data, water use data, and other matters that the Contracting Officer may require. Reports thereon shall be furnished as the Contracting Officer may require. Subject to applicable Federal laws and regulations, each party to this contract shall have the right during office hours to examine and make copies of the other party's books and records relating to matters covered by this contract.

STANDARD CONTRACT ARTICLES

17. This contract is subject to standard contract provisions listed below. The full text of these articles is attached as Exhibit A and is hereby made a part of this contract.

- A. CHARGES FOR DELINQUENT PAYMENTS
- B. GENERAL OBLIGATION--BENEFITS CONDITIONED UPON PAYMENT
- C. NOTICES
- D. CONTINGENT ON APPROPRIATION OR ALLOTMENT OF FUNDS
- E. OFFICIALS NOT TO BENEFIT

Articles 15, 16, 17

F. ASSIGNMENT LIMITED--SUCCESSORS AND ASSIGNS OBLIGATED

G. RULES, REGULATIONS, AND DETERMINATIONS

H. QUALITY OF WATER

I. WATER AND AIR POLLUTION CONTROL

J. WATER CONSERVATION

K. EQUAL OPPORTUNITY

L. COMPLIANCE WITH CIVIL RIGHTS LAWS AND REGULATIONS

IN WITNESS WHEREOF, the parties hereto have signed their names the  
day and year first above written.

UNITED STATES OF AMERICA

By

Regional Director, PN Region  
Bureau of Reclamation

(SEAL)

BOISE WATER CORPORATION

By

Title:

Attest:

By

Title:

Article 17 (Continued)

STATE OF IDAHO )  
                  : ss  
County of Ada )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1986, personally

appeared before me \_\_\_\_\_, to me known to be the official of the United States of America that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of said United States, for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument.

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

(SEAL)

\_\_\_\_\_  
Notary Public in and for the  
State of Idaho  
Residing at Boise  
My commission expires:

\*\*\*\*\*

STATE OF IDAHO )  
                  : ss  
County of Ada )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1986, before me

\_\_\_\_\_, a Notary Public, personally appeared

\_\_\_\_\_ and \_\_\_\_\_  
known to me to be respectively the President and Secretary of the Boise Water Corporation, and the persons who executed the within instrument on behalf of said corporation, and acknowledged to me that said corporation executed the same.

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

(SEAL)

\_\_\_\_\_  
Notary Public in and for the  
State of  
Residing at  
My commission expires:

LAW OFFICES  
GIVENS, McDEVITT, PURSLEY, WEBB & BUSER

RAYMOND D. GIVENS  
CHAS. F. McDEVITT  
KENNETH L. PURSLEY  
JAY L. WEBB  
PAUL J. BUSER  
LEO EDWARD MILLER  
CHRISTOPHER J. BEESON  
CELESTE KIM VERNETTI  
TERRY L. MYERS  
KENNETH R. McCLURE  
JEFFREY C. FEREDAY  
JUDITH K. HOLCOMBE

SUITE 200, PARK PLACE  
277 NO. 6TH STREET  
POST OFFICE BOX 2720  
BOISE, IDAHO 83701

TELEPHONE  
(208) 342-6571

TELECOPIER  
(208) 343-9492

August 7, 1986

John W. Keys, III  
Acting Regional Director  
United States Department of  
the Interior  
Bureau of Reclamation  
Pacific Northwest Region  
Federal Building  
Box 043 - 550 W. Fort Street  
Boise, ID 83724

RECEIVED  
AUG 8 1986

Department of Water Resources

Re: Proposed Municipal Water Service Contract with Boise  
Water Corporation

Dear Mr. Keys:

Our client, Boise Water Corporation, has asked us to review the proposed municipal water service contract between the United States and the Boise Water Corporation which you transmitted to Boise Water pursuant to your letter of June 5, 1986.

Generally speaking, the proposed contract appears to be in line with the discussions we understand you have had with Boise Water recently, and we appreciate the changes from the original version of the contract that you have incorporated into this draft. However, we believe that the contract should be clarified and strengthened somewhat, and request the following additional changes:

1. We believe that there is a typographical error in paragraph 10(b). The first two sentences of that paragraph should read as follows: "Up to 1,000 acre-feet of water from storage space in Anderson Ranch Reservoir will be released by the United States each year. The amount of water released from this space . . . ."

2. The holdover provisions in paragraphs 10(b) and 11(a) should be changed to allow Boise Water to take credit for amounts held over. There are several reasons for this. First,

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Boise Water's arrangement with the Idaho Department of Water Resources requires Boise Water to have 1,000 acre-feet available in Anderson Ranch Reservoir each year for release to the river, subject to availability. We do not understand this arrangement as allowing the Department to require Boise Water either to hold or to release more than 1,000 acre feet in any year. Thus, the holdover provisions do not conform to what we understand the contract to allow. Second, and except as a possible hedge against a dry year when less than 1,000 is available, the right to hold water over as provided in the present form of the contract would not benefit Boise Water since it would be required to buy 1,000 acre-feet each year in any event. It also is likely that Boise Water would not be able to require the Watermaster to release any water held over. In short, the contract's "no credit" holdover provisions provide no incentive for Boise Water or the Watermaster to hold any water over, to conserve water or to find alternative supplies (either permanent or temporary) so as to obviate the need to use all of the entitlement each year. In order to provide this incentive, the draft contract should be changed to allow Boise Water to reduce the amount of water it must purchase from the Bureau in any given year by the amount held over from the previous year. In light of these problems, we request that paragraphs 10(b) and 11(a) be changed to provide a conservation incentive. We propose that the last sentence in Paragraph 10(b) be changed to read:

Unused water in this space at the end of an irrigation season shall be held over in Anderson Ranch Reservoir from year to year and credited to Contractor's account.

Section 11(a) of the Contract should be changed to read as follows:

Each year the Contractor shall pay for that amount of the 1,000 acre-foot storage space in Anderson Ranch Reservoir, at the rate of \$17.54 per acre-foot, which has not been filled by water held over, provided, that Contractor shall be entitled to purchase and receive, pursuant to the provisions and restrictions of this Contract, a full 1,000 acre-feet in any given year regardless of any amounts held over.

3. As it now stands, Paragraph 11(a) of the proposed contract requires Boise Water to purchase 1,000 acre-feet each year regardless of whether it is required by the Department. In turn, Paragraph 13(b) entitles Boise Water to terminate the

AMENDED

contract if it has no further need for the water. Thus, the proposed contract would give Boise Water only two options when the 1,000 acre-feet are not needed or required by the Department: Either pay for the unused storage or completely terminate the entire 40-year contract. We suggest that a more flexible and productive arrangement would be to allow Boise Water, after receiving permission from the Department, to avoid filling and paying for some or all of the 1,000 acre-feet of space in any given year, provided that Boise Water gives the Bureau at least sixty days' notice. If notice is not received, Boise Water would be obligated to pay for the storage needed that year to fill the space, taking into account any amount of water held over. We suggest the following language as a new paragraph 11(b); the present paragraphs 11(b) through 11(e) should be redesignated 11(c) through 11(f):

(b) The Contractor may forego the purchase of water sufficient to fill the 1,000 acre-foot space in any given year, provided that, at least sixty (60) days before the date payment is due under this contract, the Contractor provides the United States with notice of his intent to store less water that year, along with written assurance from the IDWR that an amount less than 1,000 acre-feet (including zero) may be stored in that year.

4. The cancellation provision itself, Paragraph 13(b), also should be changed. As presently written, this provision appears to tie Boise Water's right to cancel to the circumstance that it no longer "needs" the stored water. We believe that the question of the contractor's lack of need may be difficult to establish and is unnecessary in any event. Accordingly, we suggest the following changes (underlined):

The Contractor shall have the right to terminate this contract for any reason:  
Provided, That notice of the intent by the contractor to terminate this contract shall be in writing to the Contracting Officer at least sixty days prior to the termination date proposed: Provided, That termination under this provision shall become effective no sooner than January 1 of the next calendar year following such written notice.

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John W. Keys, III  
August 7, 1986  
Page 4

We would appreciate the opportunity to meet with you as soon as possible to discuss these proposed changes.

Very truly yours,

*Jeffrey C. Fereday*

Jeffrey C. Fereday

JFC:gc

cc: Mr. Robert P. Walker, P.E.  
Mr. A. Kenneth Dunn  
Mr. Lee Sisco  
Field Solicitor

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AUG 14 1986



BOISE WATER CORPORATION • P.O. BOX 7488 • BOISE, IDAHO 83707 • (208) 362-1300

NCT  
DRT

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OCT 4 1985

October 2, 1985

Department of Water Resources

State of Idaho  
Department of Water Resources  
State Office  
450 West State Street  
Boise, Idaho 83720

Attention: Norman C. Young

RE: Ranney Collectors - Boise Water Corporation

Gentlemen:

This letter is to inform you that we are in agreement with the changes and additions to the operation plan for the Ranney Collectors as outlined in your memorandum of August 13, 1985. We have contacted the Bureau of Reclamation and are in the process of negotiating a contract for storage water on the Boise River System. This should be completed by early next spring so that storage water will be available for our 1986 usage.

We appreciate your assistance and cooperation in this matter over the last two years. If you have any questions or need additional information, please let me know.

Sincerely yours,

*R. P. Walker*

R. P. Walker  
District Engineer  
General Waterworks

RPW:ce

cc: W. L. Booe

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OCT 7 1985

Tuthill

INTER-DEPARTMENT MEMO — 1

FROM Dave Tuthill

DATE 9/9/86

TO Bob Fleenor, <sup>WCF</sup> Norm Young

Water Plan Policy 16 does not ~~require~~  
require review because this is  
an initial allocation.

SUBJECT 63-2892

WCF

Here is a copy of some correspondence that indicates Boise Water Corp is still pursuing but has not yet finalized a contract for Boise R storage in Anderson Ranch Res.

The Bureau of Rec has submitted an App for Transfer to change the Nature of Use of 5200 AF in Anderson Ranch Res to include "municipal-industrial" use. This transfer is currently being processed & has not yet been approved.

DTC  
SIGNATURE

## INTER-DEPARTMENT MEMO — 1

FROM P. Shaw

DATE 8/19/85

TO D. Tuttle/DAT

SUBJECT 63-2892 &amp; Boise Water Corp. Rainey Collectors

I am sure you will be involved in the future with the operation of this agreement. In summary, after considerable time & expense, BWC and IDWR agreed to the operation plan described in Norms 8/13/85 letter & Bob Walkers memo of 5/31/85. This agreement was prompted by the approval of of transfer #2605 on 1/5/82. All of this info is attached for your reference.

If you would like to discuss or have questions please let me know. Your first involvement will be by April 1, '86 if not before.

SIGNATURE



State of Idaho

## DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:  
Statehouse  
Boise, Idaho 83720  
(208) 334-4440

August 13, 1985

Boise Water Corporation  
P. O. Box 7488  
Boise, ID 83707

ATTENTION: Mr. Robert P. Walker

RE: Ranney Collectors

Gentlemen:

The department is in receipt of your May 31, 1985 memorandum discussing a method to determine an amount of storage water to be released to the Boise River to compensate for diversions through Boise Water Corporation Ranney collectors. The department approves of this general concept and with a few minor revisions and the implementation procedure outlined below, we will approve of the entire plan.

The method for determining the amount of water attributable to surface water is acceptable, providing we start with the calculations for 1984 since this was the first year all four collectors were in production. For the next calculation, the average of 1984 and 1985 should be used to determine the amount of surface water diverted, and from that point forward, the average of the most recent three years as calculated in your Attachment B will be used to determine the amount of surface water diverted. By using the average of the most recent three years, any shift in water usage over time will be reflected, but changes resulting from single-year conditions will be minimized. For example, the amount of storage to be released in 1988 will be determined by the average of the excess of the average monthly productions for 1985, 1986 and 1987.

Prior to April 1 of each year, the amount of storage water as determined above, which will be released to the river for that year, will be reported to this department and to the Boise River watermaster. By copy of this letter, the watermaster is being instructed to release the amount of storage specified at a uniform rate during that portion of the irrigation season when storage water is being utilized by irrigation water users. The

8/13/85

storage water held by Boise Water Corporation and released in this manner will be considered to augment the natural flow of the river during that portion of the irrigation season when storage water is being used.

If the above changes and additions to the procedure described in your May 31, 1985 memorandum are acceptable, you may consider the operation plan approved. The department does reserve the option to review and recommend changes to the plan after several years of experience have been gained. Assuming the operation plan is acceptable, you should contact the Bureau of Reclamation to obtain storage water on the Boise River system. Storage water should be available for release under this plan during the 1986 irrigation season.

If you have questions or would like to discuss any part of this plan further, please feel free to contact me. Thank you for your cooperation in developing an operation plan that recognizes the need to jointly manage surface and ground water as a single resource.

Sincerely,

*Norman C. Young*  
NORMAN C. YOUNG

NORMAN C. YOUNG  
Administrator  
Resource Administration Division

NCY:alw

cc: Ron Golus  
Bureau of Reclamation

Henry Koelling  
Boise River Watermaster



State of Idaho  
[ DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:  
Statehouse  
Boise, Idaho 83720  
(208) 334-4440

August 13, 1985

L. W. Lloyd, Jr., Regional Director  
U.S. Bureau of Reclamation  
550 W. Fort Street, Rm 043  
Boise, ID 83724

RE: Boise Water Corporation Rental Space

Dear Bill:

The Department of Water Resources has just completed negotiations with Boise Water Corporation on an operation plan to mitigate impacts on the Boise River caused by diversions through Boise Water Corporation's Ranney collectors by the release of storage from the Boise River reservoir system. The development of this operation plan has been a necessary step in the department's efforts to protect surface water flows held by owners of senior natural flow rights.

A concern that has been voiced repeatedly by Boise Water Corporation is the high rate they will be charged for storage space on the Boise River system. The amount that has been discussed is \$35/acre foot, and if this amount is based upon the actual construction costs of the Boise River system, then it is appropriate. If, however, \$35/acre foot is based upon the replacement cost of the facilities at today's cost, we do not agree and recommend you base the cost of storage on the recovery of the actual construction costs.

Thank you for your cooperation.

Sincerely,

A. KENNETH DUNN  
Director



AKD:alw

cc: Boise Water Corporation

CONVERSATION MEMORANDUM

DATE 7/29/85

NAME OF PARTY Ron Golus

FILE Boise Water Runway  
Collectors

EMPLOYEE David Shaw

RE: Storage Water

I asked Ron about the need for a transfer to change the nature of use at Anderson. Ron said a transfer would be necessary but one probably would not be filed until after an agreement was reached with BWC.

Ron would like to have a copy of our letter to BWC approving the mitigation plan.

I briefly explained to Ron our plan for determining the amount of releasing the storage.

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CONVERSATION MEMORANDUM

DATE 7/22/85

FILE 63-2892

NAME OF PARTY Hank Koelling

EMPLOYEE David Shaw

RE: Distribution of Storage Water

I explained to Hank our idea of having an amount of storage purchased by Boise Water that would be given to the river to augment flow diverted by their Runney Collectors. I asked Hank if this kind of distribution was possible or if it presented any special problems?

Hank said there would be no problem to distribute the water. His method would be to project the length of time water would be used from storage on the day the river goes on storage and charge a proportionate amount per day and credit that amount to the river.

Hank did not foresee any problems with this approach.



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS  
Governor

A. KENNETH DUNN  
Director

Mailing address:  
Statehouse  
Boise, Idaho 83720  
(208) 334-4440

MEMORANDUM

TO: Norm  
FROM: Dave <sup>pos</sup>  
DATE: July 23, 1985  
RE: Boise Water Ranney Collectors

The basis for the amount of water to be supplied from storage is explained in the paragraph at the bottom of page 1 and the top of page 2 of the May 31, 1985 memo from R. P. Walker. I recommend we start with the 1984 amount since this year is the first year all four collectors were used. To keep the amount of storage current with usage, we should use the average of 1984 and 1985 for next year; and thereafter, use the average of the most recent three years usage.

This is an "after the fact" determination which I recommend we try since we have not arrived at a method of measuring immediate impacts on the river and the overall impact is small.

I talked with Hank Koelling, Boise River Watermaster, about assigning an amount of storage water, purchased by Boise Water Corporation, to him to release as natural flow during the time storage water is used by other irrigation space holders. Hank did not foresee a problem in treating an amount of storage as a supplement to the natural flow of the river. Since we do not have a method of correlating the timing of impacts on the river produced by diversion through the Ranney collectors, I would propose the Boise Water storage be distributed uniformly through the irrigation season starting when the first irrigation user starts using storage.

The result will be more an accounting of the storage purchased by Boise Water than a noticeable impact on river flow, but I think it accomplishes our initial intent to jointly manage surface water and ground water as a single source.



## GENERAL WATERWORKS

MEMO

TO G. B. Flegal, Jr.  
FROM R. P. Walker  
SUBJECT Water Diversion Permit for Ranney Collectors  
PROPERTY Boise Water Corporation  
DATE May 31, 1985

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JUN 17 1985

Department of Water Resources  
Western Regional Office

As you will recall, in order to obtain a water diversion permit for the Veteran's Collector, we had to utilize the groundwater source diversion permit on the original Ranney Collectors and request an additional point of diversion. The Idaho Department of Water Resources granted this request in a Memorandum Decision and Order from the director on January 5, 1982. Transfer No. 2605 of License No. 63-2892 allowed us to transfer up to a maximum of 5 cubic feet per second of the original 15 cubic feet per second diversion right to the Veteran's Collector. In addition to granting this transfer, the Memorandum Decision and Order also discussed the probability that the water being diverted from the collectors affects the flows in the Boise River. Consequently, they also requested that we start furnishing them with simultaneous flow measurement records from all points of diversion and further that we complete a study to determine the hydraulic interconnection of the collectors and the surface flow of the Boise River by June 15, 1983. A copy of the Memorandum Decision and Order is attached herewith for your reference.

Boise Water Corporation did comply with the requests stated in the Memorandum Decision and Order. After completion of their analysis of our production records and the results of our study, the Idaho Department of Water Resources requested a meeting to discuss the conclusions which could be drawn from this information. The meeting was held on May 23, 1985, and was attended by two members of the Idaho Department of Water Resources, our consultant Jack Kelly of Anderson and Kelly, Inc. and myself. The general consensus reached at the meeting was that there is undoubtedly some hydraulic interconnection between the collectors and the Boise River, but it would be extremely difficult to make a realistic determination of the exact amount of water involved. In lieu of undertaking further studies which would be very costly, it was decided that we should attempt to reach a compromise as to what portion of the water pumped by our collectors could be attributed to the surface flows in the Boise River.

The compromise proposed is that the amount of water produced in excess of the average monthly production will be considered as the

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G. B. Flegal, Jr.  
May 31, 1985  
Page 2

portion being contributed from surface flows of the Boise River and consequently would fall under the jurisdiction of the Watermaster of Water District 63. The average monthly production is determined by dividing the annual production from all four collectors by 12. The average monthly production is normally exceeded during the irrigation season. If we utilize the production records for the three collectors utilized during 1983, the average monthly production is 271.8 acre feet. This average was exceeded in 1983 for the months of May through September. The total amount of water produced in excess of the average monthly production for these months amounts to 858.4 acre feet. Refer to Attachment "A". The production records for the four collectors utilized during 1984 indicate that the average monthly production in 1984 was 346.7 acre feet which was once again exceeded in the months of May through September. The total amount of water produced in excess of the average monthly production during 1984 was 1,010.2 acre feet. Refer to Attachment "B".

I feel that in lieu of an extensive study, the above compromise provides a fair basis for determining an estimation of the portion of collector production which can be attributed to the surface flows of the Boise River. The amount of water considered as being contributed from the Boise River will not be covered under the existing groundwater source diversion permit. Consequently, we will have to obtain either surface water rights on the Boise River or purchase uncontracted storage space from the reservoirs on the Boise River system. The only water available at present is storage space in Anderson Ranch Reservoir and in Arrowrock Reservoir. See attached memo from the Bureau of Reclamation. An estimated annual cost for the storage water is \$35 per acre foot. This would have resulted in a total cost of (858.4 acre feet) (\$35 per acre foot) = \$30,044 in 1983 and (1,010.2 acre feet) (\$35 per acre foot) = \$35,357 in 1984. This is a considerable increase in operating costs when you consider the water previously cost us nothing, but at the present time we have little choice in the matter. The important point is that the Bureau of Reclamation is finalizing their study on the allocation of the uncontracted space in the storage reservoirs on the Boise River system, and they want to know what the intentions of Boise Water Corporation are in regards to this. I recommend that we proceed to make arrangements for securing up to a maximum of 2,500 acre feet of the uncontracted storage space from the Bureau of Reclamation so that we will have the water available to provide for the collector useage. Payment for the storage water is based upon actual useage and not the amount contracted for. We would appreciate your early review of this matter.

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G. B. Flegal, Jr.  
May 31, 1985  
Page 3

The above discussion indicates that we need to pursue the purchase of unused water rights on the Boise River for future source rather than attempting to provide for this from storage. It will not take long paying \$30,000 to \$40,000 per year for storage water to make the one time purchase of actual water rights on the Boise River seem feasible. We will increase our concentration on this alternative during the next few months.

If you have any questions or need additional information, please let me know.

*Bob Walker*

R. P. Walker

RPW:ce

cc: W. L. Booe  
Ben Hepler  
Jack Kelly, Anderson & Kelly, Inc.  
David Shaw, Idaho Department of Water Resources

RECEIVED



# United States Department of the Interior

BUREAU OF RECLAMATION  
PACIFIC NORTHWEST REGION  
FEDERAL BUILDING & U.S. COURTHOUSE  
BOX 013-550 WEST FORT STREET  
BOISE, IDAHO 83721

IN REPLY  
REFER TO  
840. PN 440

APR 11 1985

APR 12 1985

Mr. Robert P. Walker  
District Engineer  
Boise Water Corporation  
8150 West Victory Road  
Boise, Idaho 83707

Dear Mr. Walker:

This is in regard to a recent inquiry from the city of Boise expressing interest in obtaining a long-term contract for 340 acre-feet of water per year from the Boise River for the irrigation of city parks.

There are only two quantities of uncontracted space in the Boise River system from which the needs of the city of Boise could be met. One is 5,200 acre-feet of storage space in Anderson Ranch Reservoir and the other is 22,800 acre-feet of space in Arrowrock Reservoir.

## 5,200 acre-feet of storage space in Anderson Ranch Reservoir

This space has heretofore been reserved for power generation but could be made available for irrigation or other purposes. The Boise Water Corporation has expressed an interest in contracting for up to 5,000 acre-feet of storage water supplies and this space may satisfy that need. Our letter to you of July 18, 1983, offered the Boise Water Corporation the opportunity to enter into contract negotiations for an interim (2-year) contract for storage water from Lucky Peak Reservoir. We have not received a formal response concerning that letter.

## 22,800 acre-feet of storage space in Arrowrock Reservoir

This space was originally reserved for the Hillcrest Division of the Boise Project. The Boise Project Board of Control has rented this space for several years and has been offered the opportunity to enter into contract negotiations for a permanent right to this 22,800 acre-feet of Hillcrest storage space.

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APR 12 1985

We are interested in attempting to satisfy identified water needs, including those of the city of Boise, and in obtaining a return on the Federal investment in Boise Project facilities. We would appreciate your comments and suggestions with respect to this matter and also need to know the intentions of the Boise Water Corporation concerning the offer discussed in our letter of July 18, 1983.

Sincerely yours,

*L.W. Lloyd*

Regional Director

cc: Mr. Norman Young  
Idaho Department of Water Resources  
Statehouse  
Boise, Idaho 83720

*Ron Golus*

*334-1147*

*Rich Rigby*

*334-1160*

ATTACHMENT "A"  
 1983 PRODUCTION RECORDS  
 RANNEY COLLECTORS  
 BOISE WATER CORPORATION  
 =====

| MONTH               | TOTAL<br>MG | TOTAL<br>HRS. | AVERAGE<br>CFS | TOTAL<br>ACRE-FEET | EXCEEDS<br>AVERAGE<br>ACRE-FEET |
|---------------------|-------------|---------------|----------------|--------------------|---------------------------------|
| JAN.                | 50.99       | 449.00        | 4.22           | 156.49             | 0.00                            |
| FEB.                | 41.88       | 341.00        | 4.56           | 128.53             | 0.00                            |
| MARCH               | 44.33       | 306.50        | 5.37           | 136.05             | 0.00                            |
| APRIL               | 65.07       | 374.50        | 6.45           | 199.71             | 0.00                            |
| MAY                 | 98.47       | 400.00        | 9.14           | 302.21             | 30.46                           |
| JUNE                | 164.37      | 582.50        | 10.48          | 504.47             | 232.71                          |
| JULY                | 164.69      | 577.00        | 10.60          | 505.45             | 233.69                          |
| AUG.                | 160.75      | 570.00        | 10.47          | 493.36             | 221.60                          |
| SEPT.               | 134.14      | 503.00        | 9.90           | 411.69             | 139.93                          |
| OCT.                | 70.75       | 398.50        | 6.59           | 217.14             | 0.00                            |
| NOV.                | 18.09       | 124.50        | 5.40           | 55.52              | 0.00                            |
| DEC.                | 49.02       | 330.00        | 5.52           | 150.45             | 0.00                            |
| TOTAL               | 1,062.55    | 4,956.50      |                | 3,261.07           | 858.40                          |
| AVERAGE ACRE FEET = |             |               |                | 271.76             |                                 |

ATTACHMENT "B"  
 1984 PRODUCTION RECORDS  
 RANNEY COLLECTORS  
 BOISE WATER CORPORATION  
 =====

| MONTH               | TOTAL<br>MG | TOTAL<br>HRS. | AVERAGE<br>CFS | TOTAL<br>ACRE-FEET | EXCEEDS<br>AVERAGE<br>ACRE-FEET |
|---------------------|-------------|---------------|----------------|--------------------|---------------------------------|
| JAN.                | 62.47       | 414.5         | 5.60           | 191.73             | 0.00                            |
| FEB.                | 65.75       | 452           | 5.40           | 201.79             | 0.00                            |
| MARCH               | 67.3        | 505           | 4.95           | 206.55             | 0.00                            |
| APRIL               | 70.4        | 542.5         | 4.82           | 216.06             | 0.00                            |
| MAY                 | 131.19      | 642.5         | 7.58           | 402.63             | 55.94                           |
| JUNE                | 169.2       | 685.5         | 9.17           | 519.29             | 172.60                          |
| JULY                | 239.65      | 744           | 11.96          | 735.51             | 388.81                          |
| AUG.                | 198.71      | 744           | 9.92           | 609.86             | 263.16                          |
| SEPT.               | 155.23      | 694           | 8.31           | 476.42             | 129.72                          |
| OCT.                | 95.88       | 519           | 6.86           | 294.26             | 0.00                            |
| NOV.                | 44.92       | 359           | 4.65           | 137.86             | 0.00                            |
| DEC.                | 54.86       | 366           | 5.57           | 168.37             | 0.00                            |
| TOTAL               | 1,355.56    | 6,668.00      |                | 4,160.34           | 1,010.23                        |
| AVERAGE ACRE FEET = |             |               |                | 346.70             |                                 |

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

|                                                  |   |                     |
|--------------------------------------------------|---|---------------------|
| IN THE MATTER OF PROTEST AGAINST APPROVAL OF     | ) |                     |
| APPLICATION FOR TRANSFER NO. 2605 OF LICENSE NO. | ) | MEMORANDUM DECISION |
| 63-2892 IN THE NAME OF BOISE WATER CORPORATION   | ) | AND ORDER           |
|                                                  | ) |                     |

On October 30, 1981, Boise Water Corporation applied to the Department of Water Resources to add a point of diversion within the SE1/4NE1/4, Sec. 5, Twp. 3N, Rge. 2E B.M., Ada County for water license No. 63-2892.

Notice of this application was published in the Idaho Statesman newspaper, Boise, Idaho on November 5 and 12, 1981. A protest against approval of the application for transfer was received from Harry A. Vogt, secretary of Farmers Union Ditch Co., Ltd. on November 20, 1981.

On December 21, 1981, a conference was held in Boise, Idaho. The applicant was represented by Robert P. Walker and the protestant was represented by Harry A. Vogt, secretary and by Bill M. Flack, boardmember. The issue raised by the protestant which can be considered by the Director is whether the transfer, if approved, would affect the protestant's water right. The issues of expansion of the applicant's water right and local public interest were also discussed at the conference.

Based on the information collected at the conference, the official files and records of the Department of Water Resources and the Director's understanding of the law, the Director of the Department of Water Resources makes the following Findings of Fact, Conclusions of Law, Analysis and Order:

FINDINGS OF FACT

1) The applicant is the owner of license No. 63-2892 for the diversion of 15.00 cubic feet per second of water through Ranney Collector Wells located adjacent to and under the Boise River within the SE1/4NE1/4, Sec. 14, Twp. 3N, Rge. 2E B.M., Ada County.

2) The applicant is seeking to add a point of diversion, also using

Ranney Collector Wells adjacent to and under the Boise River, within the SE1/4NE1/4, Sec. 5, Twp. 3N, Rge. 2E B.M., Ada County.

3) The existing point of diversion is upstream from the protestant's point of diversion and the proposed point of diversion is downstream from the protestant's point of diversion.

4) The description of the proposed diverting works and construction procedure given by the applicant does not support the likelihood of physical damage to the protestant's diversion works.

5) The applicant stated it is always physically able to divert the full entitlement at the upper point of diversion.

6) The applicant has proposed to add the requested point of diversion to provide better water service to northwest Boise, an area in which large producing cold water wells have not been successful.

7) The applicant seeks to divert up to 5.00 cubic feet per second from the proposed point of diversion.

#### CONCLUSIONS OF LAW

1) The addition of the proposed point of diversion by the applicant will not cause injury to other existing water rights.

2) The addition of the proposed point of diversion will not expand or enlarge the applicant's water right.

3) It is in the local public interest to provide northwest Boise with adequate water service for which the applicant seeks the proposed additional point of diversion.

4) The applicant is entitled to add a point of diversion with certain conditions and limitations.

#### ANALYSIS

The applicant's license shows the source of water as groundwater; however, there is a concern by the protestant and other Boise River water users that the source of water is actually Boise River water. The applicant's existing and proposed diversion works consists of Ranney Collection Wells which, depending on installation, take water from 30 to 60 feet below surface and include horizontal collectors of perforated pipe or screens that project radially from the vertical well. Several of these horizontal members project under the bed of the Boise River.

With the diversion arrangement it is probable the applicant's water diversion will affect the flow of the Boise River; however, it is also probable the total effect on the surface flow of the Boise River will be less than the total diversion by the applicant. At present there are no measurement data or analytical analysis to quantify the extent of interconnection, if one exists, between the Ranney Collector Wells and the Boise River.

While the issue of interconnection of the applicant's diversion works to the Boise River must be resolved, it is not an issue that directly affects the consideration of the application for transfer presently before the Director. Since the applicant is proposing the same method of diversion at the proposed point of diversion as is presently used at the existing points of diversion, the net effect on the Boise River will not change. In particular, the existing diversion is upstream from the protestant's point of diversion and the proposed diversion is downstream; therefore, any effect on the Boise River will result in more water being available in the river at the protestant's point of diversion.

The proposed diversion works and methods of construction described by the applicant should not harm the protestant's diversion works. The applicant will install a vertical caisson on the river bank downstream from the protestant's diversion works. The radial collectors will then be installed from within the caisson by boring horizontally outward and pushing the perforated pipe and/or screens into place. No construction will take place in the bed of the river or on the protestant's diversion works.

The protestant also expressed concern about the applicant's use of their right-of-way and/or easement and a crossing of their canal. While these are valid concerns of the protestant and may represent issues to be resolved between the protestant and applicant, they are not proper issues to be considered by the Director in his examination of the application for transfer presently before him.

The issue of expansion of the applicant's water right was raised at the conference. Expansion will not occur, however, so long as the total diversion rate from all points of diversion does not exceed 15.00 cubic feet per second. The applicant stated it is presently possible to divert 15.00 cubic feet per second from the existing points of diversion at any time of the year. From a water supply standpoint, therefore, there is no advantage to add a downstream point of diversion as this application for transfer requests.

The applicant raised the issue of public interest only to state they felt it was in the local public interest to provide an adequate water supply for northwest Boise. The applicant explained their need for the proposed point of diversion as it relates to their overall distribution system, and to northwest Boise in particular.

ORDER

IT IS, THEREFORE, HEREBY ORDERED that the protest be set aside and the Application for Transfer No. 2605 of License No. 63-2892 be APPROVED subject to the following conditions:

1) The maximum rate of diversion of water within the SE1/4NE1/4, Sec. 5, Twp. 2E, B.M. under this water right shall be limited to 5.00 cubic feet per second.

2) The maximum rate of diversion from all points of diversion shall be limited to 15.00 cubic feet per second under this water right.

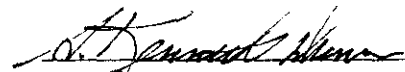
3) The approval of this transfer in no way grants any right-of-way or easement across the land of another.

4) Until further notice, Boise Water Corporation shall furnish to the Department of Water Resources simultaneous flow measurement records from all points of diversion under this water right. Such measurements to include one set of measurements recorded during the maximum peak demand period for each week during the months of June, July, August and September, and such other measurement records as may reasonably be requested from time to time by the department. All measurement records sought by the department shall be delivered within 15 days of the end of the measurement period (week) or within 15 days of any request by the department.

5) Boise Water Corporation shall commence a study by May 1, 1982 to determine the hydraulic interconnection of their Ranney Collector Wells and the surface flows of the Boise River at the various flow levels of the Boise River. This study shall be developed in cooperation with the department with the results available no later than June 15, 1983. Should Boise Water Corporation choose not to conduct this study, the diversion of water under this water right shall be placed under the control of the watermaster of Water District 63 as a Boise River diversion.

6) The Director of the Department of Water Resources retains jurisdiction over this right for the purpose of determining if the diversion will affect the flow of the Boise River.

Dated this 5<sup>th</sup> day of January, 1982.



A. KENNETH DUNN

Director

RECEIVED

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**APPLICATION FOR TRANSFER OF WATER RIGHT**

### To Change the Point of Diversion and/or the Place of Use

Name of applicant Boise Water Corporation Phone 208-362-2618

Post office address P.O. Box 7488, Boise, Idaho 83707

**A. DESCRIPTION OF RIGHT AS RECORDED**

**1. Right evidenced by:**

a. Decree to \_\_\_\_\_ (Name)  
in case of \_\_\_\_\_ vs \_\_\_\_\_  
dated \_\_\_\_\_ in \_\_\_\_\_ county of \_\_\_\_\_  
(Name of court)

b. License No. (G-22594) 63-3892 issued by the Idaho Department of Water Resources

c. Claim No. \_\_\_\_\_ on file with the Idaho Department of Water Resources

2. If applicant is not the original holder of this right, explain how it was acquired and attach a copy of the deed or other evidence of ownership of the land to which the right is appurtenant

3. Source of water Groundwater - Boise R. (see Remarks Det) tributary to N.A.

4. Date of priority February 7, 1952

5. Water is used for the following purposes:

amount 15 cfs for Municipal Water purposes from Jan. 1 to Dec. 31  
Supply  
 amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_  
 amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_  
 (month/day – both dates inclusive)

6. Total amount of water under right: a. 15.0 cubic feet per second  
&/or  
b. \_\_\_\_\_ acre feet per annum

7. Location of original point of diversion is SE <sup>(a)</sup> % of NE % of Section 14  
Township 3N Range 2E, B.M., in Ada County  
Additional points of diversion, if any (3 points of diversion in the SE 1/4 NE 1/4)

8. Lands irrigated or place of use: Municipal Water Supply System

[illegible]

Total number of acres to be irrigated

9. Describe any other water rights used for the same purposes as described above

~~Numerous other individual well licenses~~

B. DESCRIPTION OF PORTION OF RIGHT OWNED BY APPLICANT (If the entire right is owned by the applicant, omit part B). N.A.

1. Amount of water: a. \_\_\_\_\_ cubic feet per second &/or  
b. \_\_\_\_\_ acre feet per annum
2. Point of diversion \_\_\_\_\_ ¼ \_\_\_\_\_ ¼, Section \_\_\_\_\_ Township \_\_\_\_\_  
Range \_\_\_\_\_, B.M., \_\_\_\_\_ County \_\_\_\_\_  
Additional points \_\_\_\_\_
3. Place of use:

| TWP. | RANGE | SEC. | NE¼ |     |     |     | NW¼ |     |     |     | SW¼ |     |     |     | SE¼ |     |     |     | TOTALS |
|------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|      |       |      | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |

C. DESCRIPTION OF RIGHT OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

1. Change in point of diversion
  - a. Amount of water to be diverted 15.0 c.f.s. &/or \_\_\_\_\_ acre feet
  - b. Point(s) of diversion SE ¼ NE ¼, Section 5 Township 3N  
Range 2E, B.M., Ada County \_\_\_\_\_  
Additional points Three (3) original points of diversion in SE¼ NE¼ Sec. 14  
T3N R2E B.M. Ada County
  - c. Description of diverting works Ranney radial well collectors
  - d. Describe the reasons for applying for a change in the point(s) of diversion to increase  
distribution system efficiency due to changing daily and seasonal demand of  
customers.

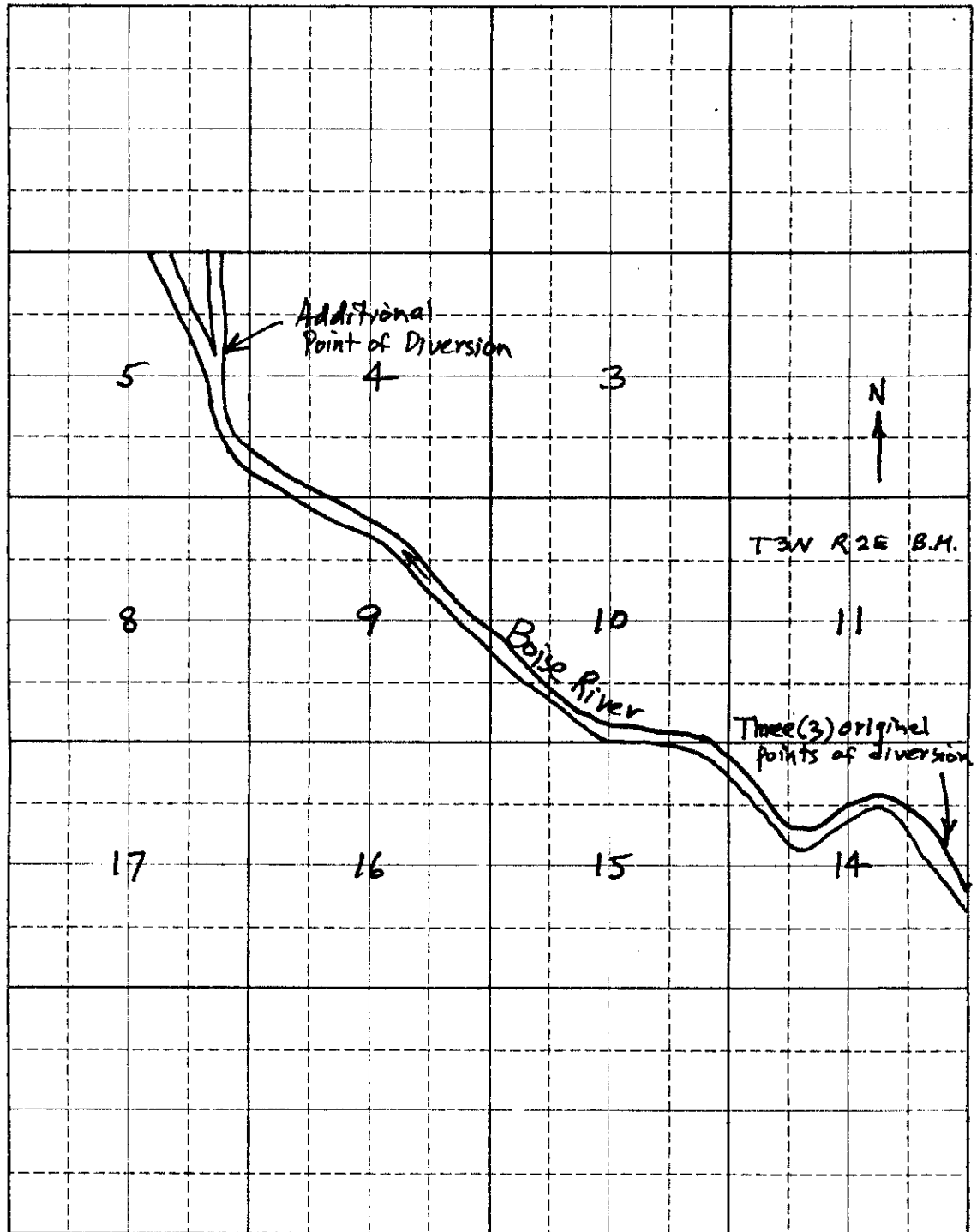
2. Change in place of use

- a. Describe the lands or place of use to which the right will be transferred: N.A.

| TWP. | RANGE | SEC. | NE¼ |     |     |     | NW¼ |     |     |     | SW¼ |     |     |     | SE¼ |     |     |     | TOTALS |
|------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|      |       |      | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|      |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |

# Total number of acres to be irrigated \_\_\_\_\_

3. Draw a map indicating the new point(s) of diversion and/or the new land to be irrigated. Show clearly the land involved by section, township and range number.



SCALE: 2 inches equal 1 mile. Draw plan in ink.

4. Remarks Water is to be diverted by means of a Ranney Collector Well approximately  
65' deep equipped with two submersible turbine pumping units located adjacent to the  
Boise River. Det 10/30/81

I hereby assert that no one will be injured by such change and the change does not constitute an enlargement  
in use of the original right. The information contained in this application is true to the best of my knowledge.

Benjamin M. Herles Det 10/30/81  
(Signature of applicant)

Subscribed and sworn to before me this 30<sup>th</sup> day of October, 19 81.

Sandra K. Koff  
(Notary public)

My commission expires December 12, 1985

#### ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. 63-2892  
and said application is hereby APPROVED, subject to the following limitations and conditions:  
PURSUANT TO MEMORANDUM DECISION AND ORDER

Witness my hand this 5<sup>th</sup> day of January, 19 82.

[Signature]  
Director

#### FOR DEPARTMENT USE ONLY

|                                               |                                 |                                                      |
|-----------------------------------------------|---------------------------------|------------------------------------------------------|
| Received by <u>DET</u>                        | Date <u>OCT 30, 1981</u>        | Protest filed by <u>[Signature]</u>                  |
| Prelim. check by <u>DET</u>                   | Fee <u>50.00</u> # <u>20544</u> | <u>[Signature]</u>                                   |
| Received by <u>RG</u>                         | Date <u>OCT 30, 1981</u>        |                                                      |
| Published in <u>ISDAE 12/21/81</u>            |                                 | Copies of protest forwarded by <u>15</u>             |
| Pub. dates <u>12/21/81</u>                    |                                 | Hearing held by <u>DBS, BDF</u> Date <u>12/21/81</u> |
| Watermaster recommendation requested on _____ |                                 | Recommended for <u>approval</u> <u>denial</u>        |
| _____ rec'd. _____                            |                                 | by <u>DBS</u> <u>FD</u>                              |

BEFORE THE DIRECTOR OF DEPARTMENT OF WATER RESOURCES

OF THE  
STATE OF IDAHO

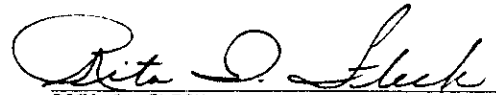
IN THE MATTER OF PROTEST AGAINST APPROVAL OF  
APPLICATION FOR TRANSFER NO. 2605 OF LICENSE NO.  
63-2892 IN THE NAME OF BOISE WATER CORPORATION

CERTIFICATE OF MAILING

I HEREBY CERTIFY That on this 5th day of January, 1982 a true and correct  
copy of the foregoing MEMORANDUM DECISION AND ORDER was mailed postage prepaid to:

Boise Water Corporation  
P. O. Box 7488  
Boise, ID 83707

Harry A. Vogt, Secretary  
Farmers Union Ditch Co., Ltd.  
Route 1  
Eagle, ID 83616



RITA I. FLECK  
Sr. Secretary  
Idaho Department of Water Resources



INTER-DEPARTMENT MEMO — 1

DATE 6/14/55

FROM Dave

Department of Water Resources  
Western Regional Office

TO Norm

SUBJECT Boise Water Runney Collectors

Although it is not spelled out in this memo it would be planned to use the storage purchased by Boise Water to supplement Boise River Flows during the irrigation season. An amount equal to about 1000 acre feet, under present conditions, would be released to the river during the irrigation season & charged to Boise Water.

We can discuss if you wish.

SIGNATURE



RECEIVED

**ANDERSON & KELLY, INC.**  
**Consultants in Engineering and Geology**

# ANDERSON & KELLY

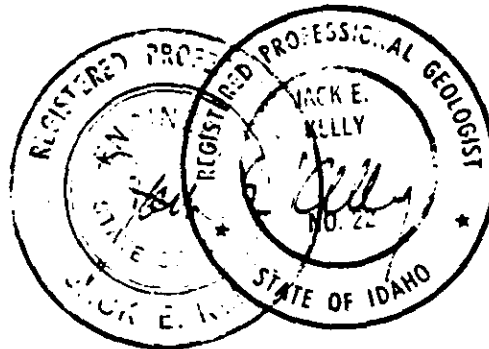
CONSULTANTS IN ENGINEERING AND GEOLOGY  
8700 EMERALD STREET BOISE, IDAHO 83704

KEITH E. ANDERSON  
JACK E. KELLY  
W. L. BURNHAM

AREA CODE 208  
TELEPHONE: 375-9226  
CABLE ADDRESS: ANKEL

## INVESTIGATION TO DETERMINE HYDRAULIC INTERCONNECTION OF THE BOISE RIVER AND BOISE WATER CORPORATION'S RANNEY COLLECTOR WELLS

Prepared for  
Boise Water Corporation  
Boise, Idaho



**MICROFILMED**

February 1983

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44-2011-100

**Investigation to Determine Hydraulic Interconnection  
of the Boise River and Boise Water Corporation's Ranney Collector Wells**

Boise Water Corporation (BWC) filed an application to change the point of diversion, place of use and/or nature of use of License No. 63-2892 on October 30, 1981. Under License No. 63-2892, BWC can pump a total of 15.0 cubic feet per second from three (3) Ranney Collector wells location in the SE 1/4, NE 1/4, Sec. 14, T. 3 N., R 2 E.. The application was filed to add a fourth point of diversion under the existing license without increasing the diversion. The fourth diversion is located in the SE 1/4, NE 1/4, Sec. 5, T. 3 N., R. 2 E.. A protest of the transfer was filed on November 20, 1981 with the Department of Water Resources (I.D.W.R.) by the Farmers Union Ditch Co..

As a result of the protest, a hearing was held on December 21, 1981 with the Department's findings issued in the January 5, 1982, "Memorandum Decision and Order". The protest was set aside and the application approved subject to several conditions. The Fifth Condition requires Boise Water Corporation to conduct a study to determine the hydraulic interconnection of the Boise River and their Ranney Collector wells or have the diversion of water under this license treated as a diversion of the Boise River.

**MICROFILMED**

At a meeting on March 29, 1982, the scope of the study was discussed with David Shaw and Bill Ondrechen (IDWR), Robert Walker (BWC), and Jack Kelly (A&K, Inc.). Boise Water Corporation elected to proceed with the study which includes the following activities:

- 1) Periodic water temperature measurements in the collectors and the Boise River.
- 2) Periodic water quality monitoring in the collectors and the Boise River.
- 3) Periodic water level readings in the collectors and the Boise River.
- 4) Periodically check the pumping rates of the collectors and compare to Boise River stage.
- 5) Attempt to measure the flow contribution from each lateral supplying the collectors.

Since late July 1982, the following data has been gathered on an almost daily basis from each of the collectors: 1) Pump status; 2) depth to water; 3) water temperature; and 4) river level. In addition, the river temperature is recorded along with the time of day, and the total discharge rate for the three collectors. From September to the present, water samples have been taken on a monthly basis from Collector No. 1 and the Boise River. The following is an analysis of the data collected by Boise Water Corporation through December 31, 1982. Collector No. 1 was pumped at various rates (1600-2300 gpm) all but eight days from August through

**MACROFILMED**

December. Therefore, any connection between Collector No. 1 and the Boise River should have been fully developed by December. Collectors No. 2 and No. 3 were not used as often. Figure 1 shows a time plot of the water temperature in the Boise River and Collector No. 1.

During the months of August and September, the water temperatures varied from 57° to 64°F for both Collector No. 1 and the Boise River. The ground water temperature at Collector No. 1 mirrored the temperature fluctuations of the Boise River part of the time, but at other times, the temperature moved in opposite directions. In October the temperature of the Boise River began to decline, reaching a low of 37.7°F on December 30, 1982. During this same time the temperature of the ground water at Collector No. 1 stayed between 55° and 61°F. The U.S.G.S. as part of the cooperative data collection program with I.D.W.R. collects ground-water quality samples, but sample frequencies were less than desired. The U.S. Bureau of Reclamation (U.S.B.R.) as part of their Boise Valley Shallow Ground Water Study have collected monthly ground-water samples from several shallow wells near Northview St. and Mable Grove Rd.. As the direction of ground-water flow is northwest towards the Boise River, three miles away, the ground-water temperatures are not affected by the river. Ground-water temperatures from three of the wells are shown on Figure 1. The ground-water temperatures measured at Collector No. 1 corresponds very well to the trend and temperature of the samples from the U.S.B.R. study. The location of the Collector wells, the Boise River, and the shallow wells are shown in Figure 2.

ENCLOSURE

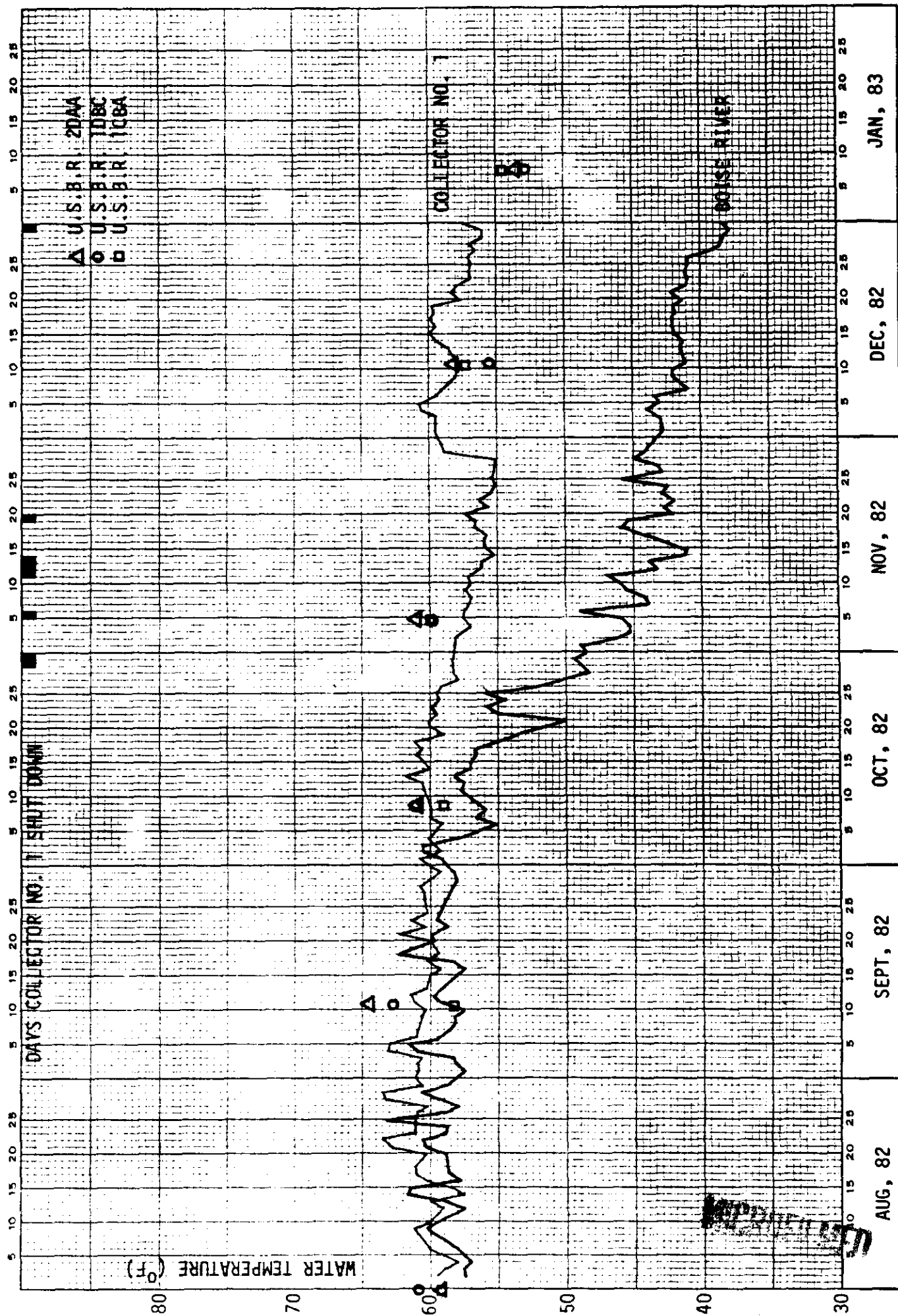
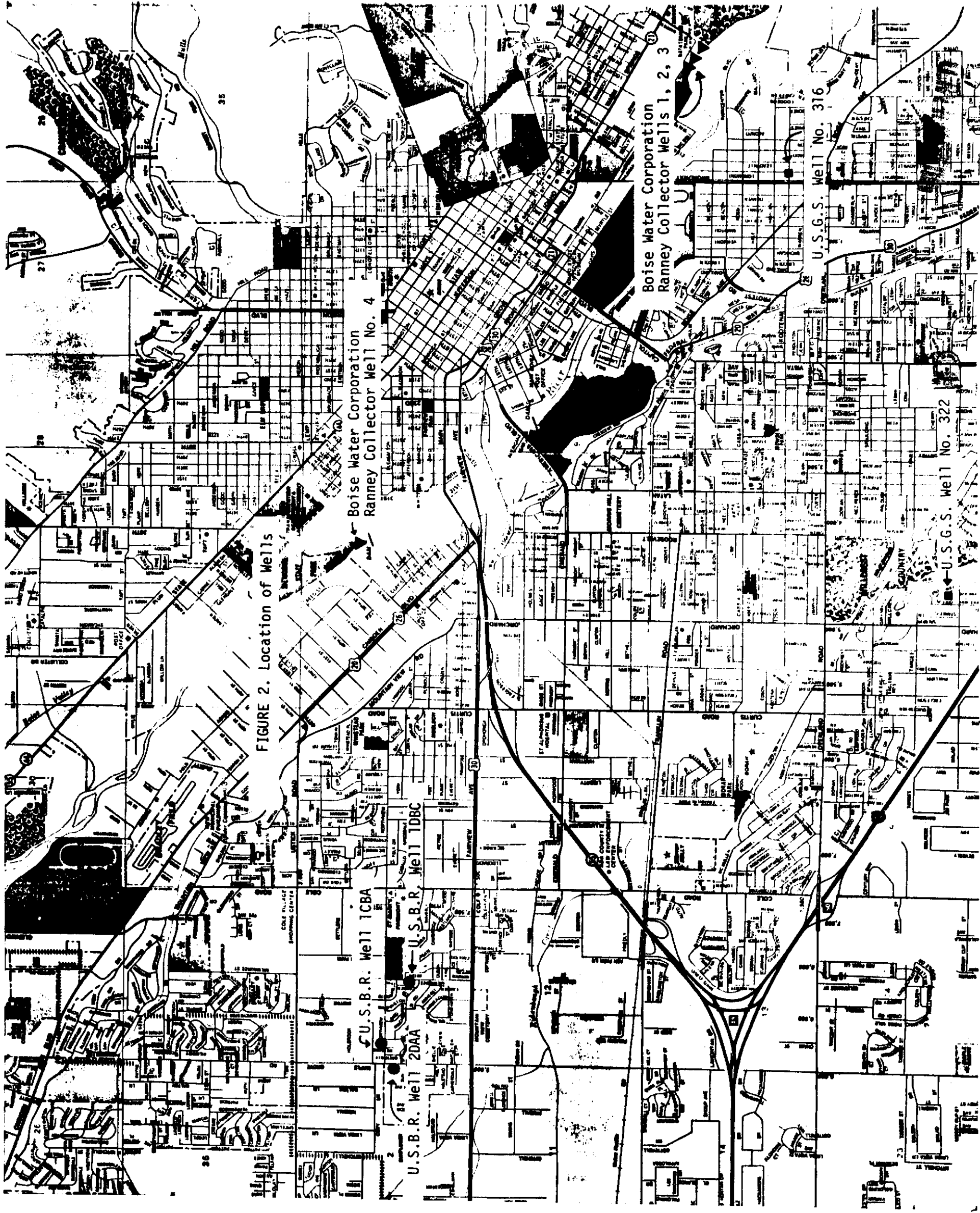


FIGURE 1. WATER TEMPERATURES OF THE BOISE RIVER, COLLECTOR NO. 1, AND THREE U.S.B.R. SHALLOW WELLS



Water temperatures shown on Figure 1 indicate that the water pumped from Collector No. 1 is similar to shallow ground-water temperatures and not the temperatures of the Boise River.

Water quality data for Collector No. 1 and the Boise River are shown in Table 1. Water samples from the U.S.B.R. study were not analyzed for the same constituents as measured by Boise Water Corporation at Collector No. 1. The U.S. Geological Survey published a compilation of ground-water quality data from 664 wells in southwestern Idaho (Sept., 1982). Data from the report for two shallow wells in Boise Valley is presented in Table 1. The pH values from Collector No. 1 ranged from 6.4 to 6.5 while the Boise River values were consistently higher ranging from 6.8 to 7.75. The two U.S.G.S. wells have pH values of 6.5 and 7.8. Hardness and alkalinity concentrations from Collector No. 1 were 4 to 12 mg/l higher than the Boise River concentrations for the four samples. As discussed above, the temperatures measured in the collector did not decline as those of the river (Figure 1). Fluoride concentrations in the Boise River were lower than those measured at the collector except for the December sample. Water quality data from the U.S.G.S. wells is similar to the values from Collector No. 1, especially fluoride. The data from Collector No. 1 indicates a consistently lower pH, and higher hardness, alkalinity and fluoride concentration than the Boise River.

Table 1. Water Quality data from Collector No. 1, the Boise River, and two U.S.G.S. wells.

| <u>Date</u> | <u>Sample</u> | <u>pH</u> | <u>Hardness</u><br>(mg/l) | <u>Alkalinity</u><br>(mg/l) | <u>Temp.</u><br>(°F) | <u>Fluoride</u><br>(mg/l) |
|-------------|---------------|-----------|---------------------------|-----------------------------|----------------------|---------------------------|
| 10-26-81    | USGS #316*    | 6.5       | 87                        | 90                          | 59.0                 | .5                        |
| 9-16-80     | USGS #322*    | 7.8       | 61                        | 48                          | 60.8                 | .3                        |
| 9-20-82     | River         | 7.75      | 25                        | 25                          | 62                   | .23                       |
|             | Collector     | 6.40      | 37                        | 37                          | 60                   | .30                       |
| 10-07-82    | River         | 7.7       | 24                        | 32                          | 60                   | .25                       |
|             | Collector     | 6.5       | 37                        | 36                          | 56.5                 | .30                       |
| 11-18-82    | River         | 6.8       | 31                        | 37                          | 51.3                 | .25                       |
|             | Collector     | 6.5       | 38                        | 42                          | 55.7                 | .32                       |
| 12-17-82    | River         | 7.3       | 28                        | 37                          | 42.0                 | .28                       |
|             | Collector     | 6.4       | 36                        | 42                          | 54.8                 | .26                       |

\*Compilation of ground-water quality data for selected wells in Elmore, Owyhee, Ada, and Canyon Counties, Idaho, 1945 through 1982, USGS, Open-File Report 83-39.

Figure 3 is a hydrograph of the Boise River level and the pumping level in Collector No. 1. The pumping level is independent of the water level in the Boise River. All water levels have been measured from an arbitrary reference point of 100 ft. at Collector No. 1 are shown on Figure 4. Collector No. 1 yields 1,900 gallons per minute (gpm) from a depth of 82.8

20 miles

10 Squares to Inch

FIGURE 3. BOISE RIVER LEVEL AND PUMPING LEVEL IN COLLECTOR NO. 1

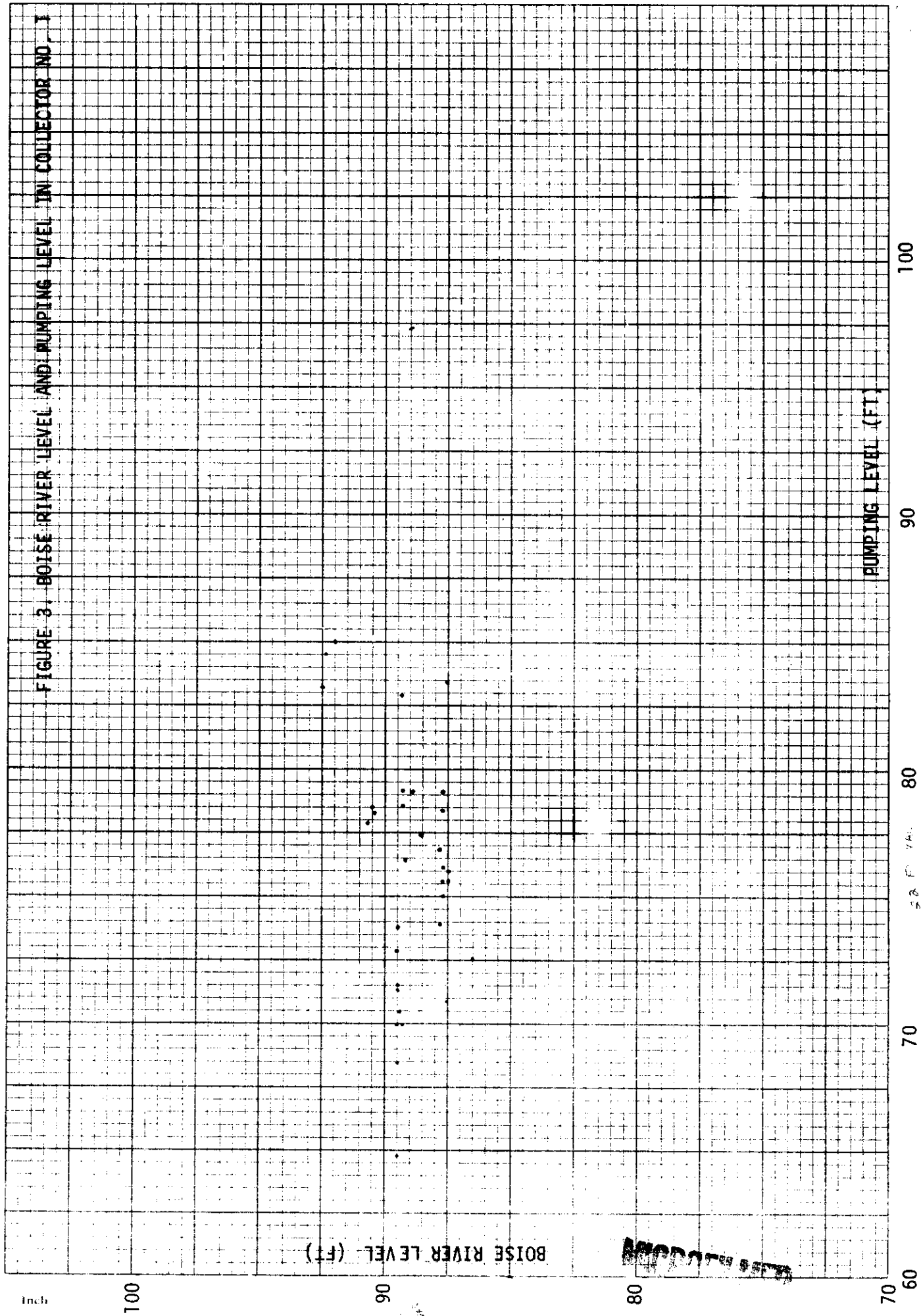
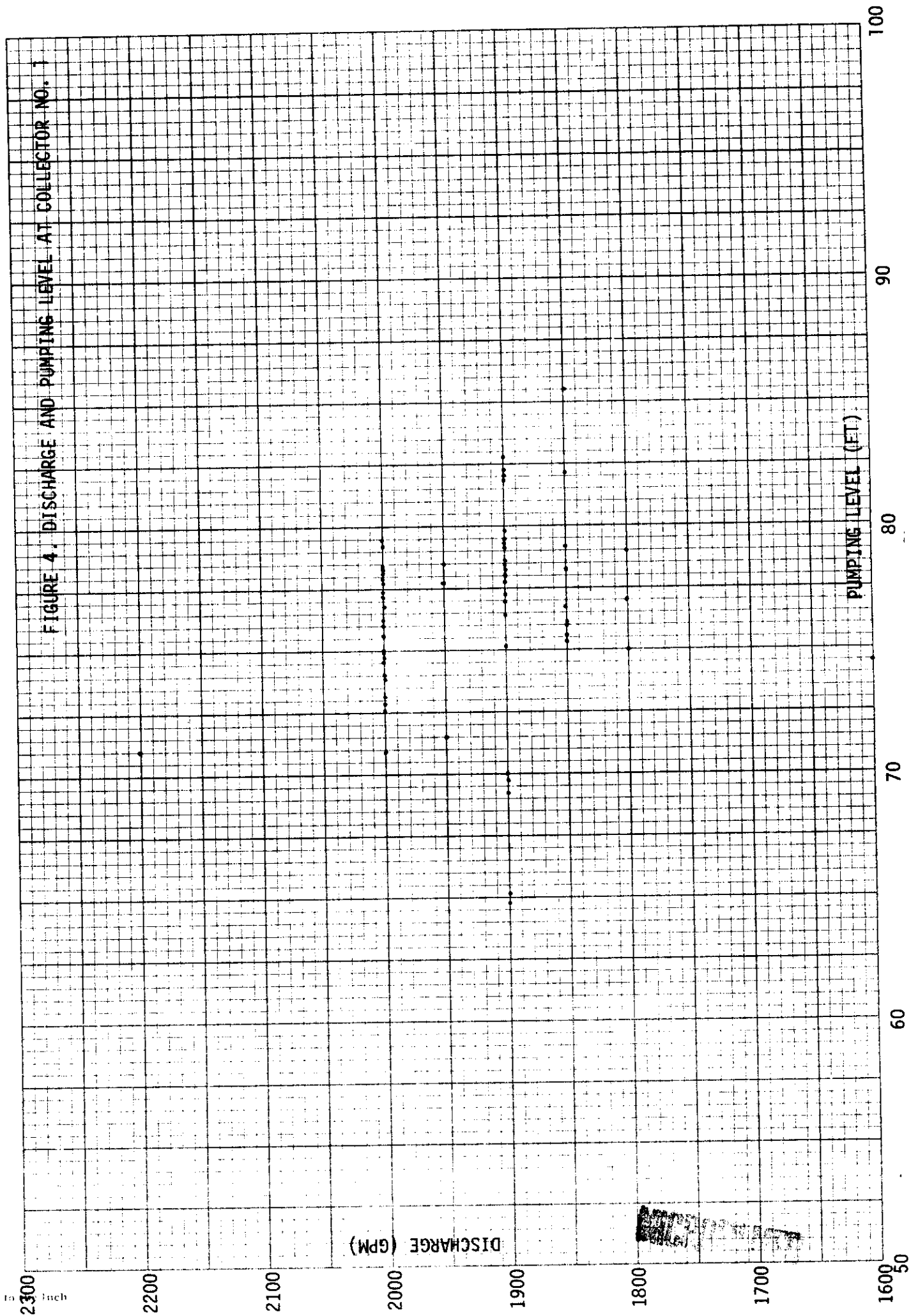


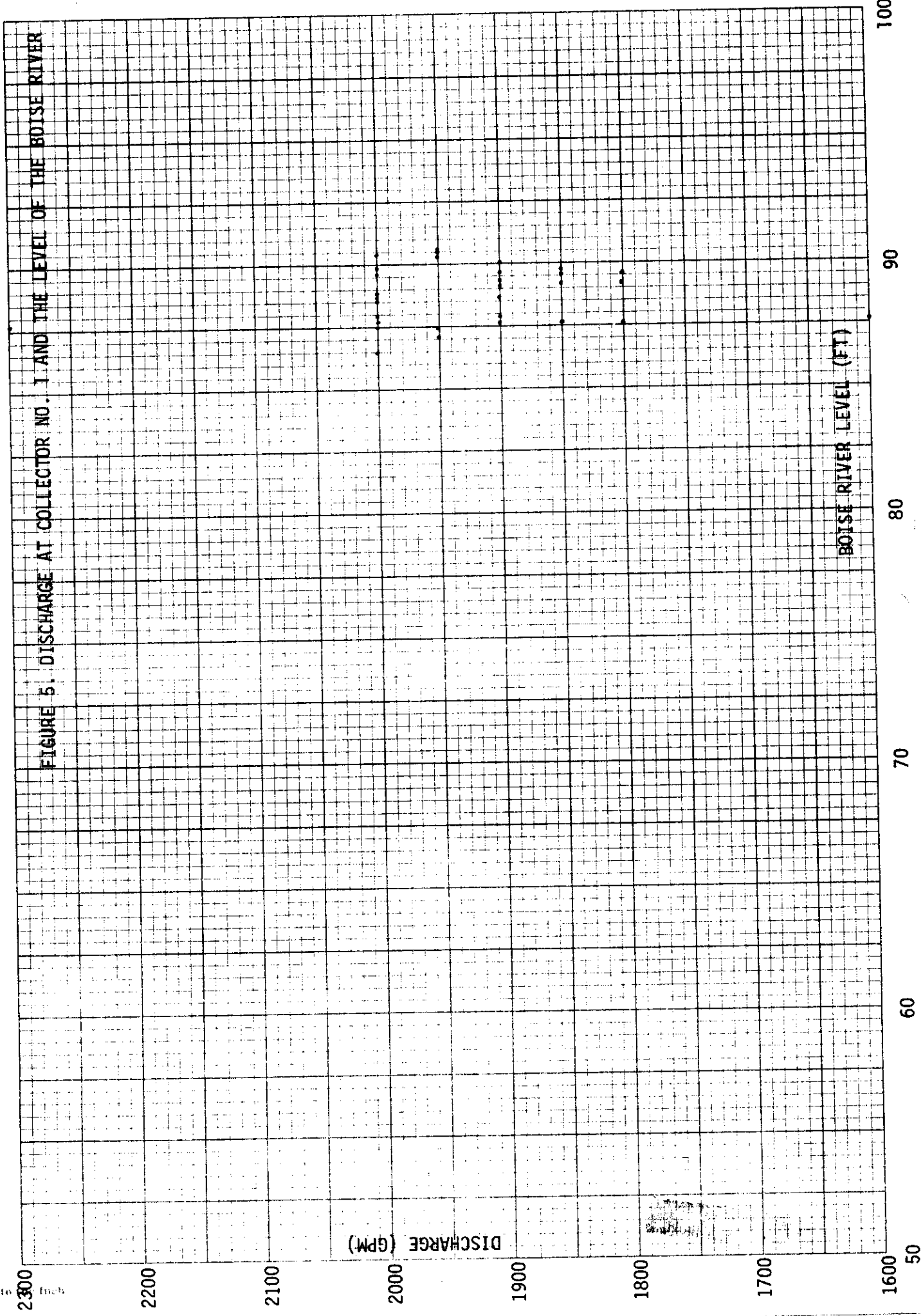
FIGURE 4. DISCHARGE AND PUMPING LEVEL AT COLLECTOR NO. 1

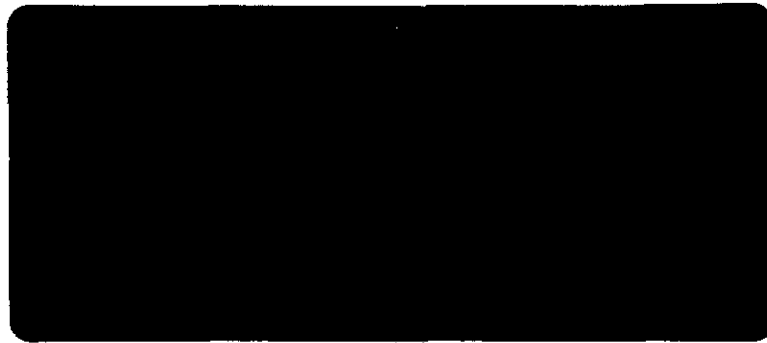


feet to 64.8 feet or a range of pumping levels of 18 feet. Figure 5 is a graph of the discharge from Collector No. 1 and the water level in the Boise River. The discharge from Collector No. 1 is not affected by changes in the pumping level or the water level in the Boise River.

In March or April, 1983 an attempt will be made to determine the amount of discharge from each lateral supplying the collectors. Information from the testing will be made available as soon as possible after the testing and analysis has been completed.

FIGURE 5. DISCHARGE AT COLLECTOR NO. 1 AND THE LEVEL OF THE BOISE RIVER





**REPRODUCTION**  
BY ORDER OF THE  
U.S. ARMY

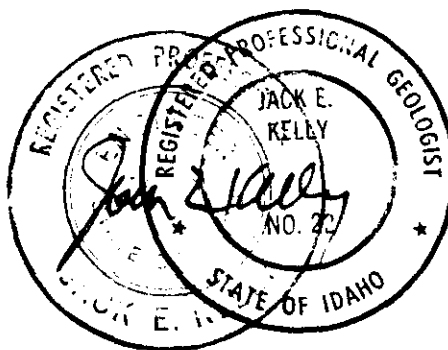
**ANDERSON & KELLY, INC.**  
**Consultants in Engineering and Geology**

# ANDERSON & KELLY, INC.

CONSULTANTS IN ENGINEERING AND GEOLOGY  
6700 EMERALD STREET BOISE, IDAHO 83704  
(208) 375-9220

ADDENDUM TO  
INVESTIGATION TO DETERMINE  
HYDRAULIC INTERCONNECTION OF THE BOISE RIVER  
AND  
BOISE WATER CORPORATION'S RANNEY COLLECTOR WELL

Prepared for  
Boise Water Corporation  
Boise, Idaho



February 1983

STATE OF IDAHO

## TESTING

### General

On April 15, 1983, Jack Kelly and Marc Norton of Anderson & Kelly, Inc. met with Jim Mooney, Don Mays, and Bob Lawrence of Boise Water Corporation (BWC) at BWC's Ranney Collector Well No. 1. Collector No. 1 is located next to the Boise River at the end of Marden Street on the east side of Boise (Figure 1). An attempt was made at Collector No. 1 to determine the flow from each lateral in the collector and to compare the water temperature from the collector discharge and the Boise River at different discharge rates. This testing, in combination with the report titled, "Investigation to Determine Hydraulic Interconnection of the Boise River and Boise Water Corporation's Ranney Collector Wells" by Anderson & Kelly, Inc., dated February 1983, constitutes the completion of a study requested by the Idaho Department of Water Resources in January 1982.

Three collectors are located within a few hundred feet along the Boise River. The configuration of the collectors is shown on Figures 2, 3, and 4. Collectors Nos. 2 and 3 have fewer individual laterals than No. 1 and are not the primary source of water at this location. Consequently, it was decided to utilize only No. 1 for the testing. Collector No. 1 is equipped with two electric motor-driven pumps and one diesel-powered pump as a stand-by unit. Fifteen laterals, varying in length from 6 to 66.5 feet, radiate out from the collector (Figure 2). At least three of the laterals were sealed. Valves were located and found operational for 10 of the remaining 12 laterals.

### Test Procedure

All the valves were closed and the larger of the two electric-driven pumps was turned on at approximately 9:30 A.M. to lower the water level in the collector. Several minutes later the discharge was increased from 2,900 gallons per minute (gpm) to 3,500 gpm when the smaller pump was turned on. The discharge from both pumps was through the sand lines emptying through a six inch pipe into a small creek approximately 600 feet north of the installation. At 10:18 a valve was opened in the

ENCLOSURE

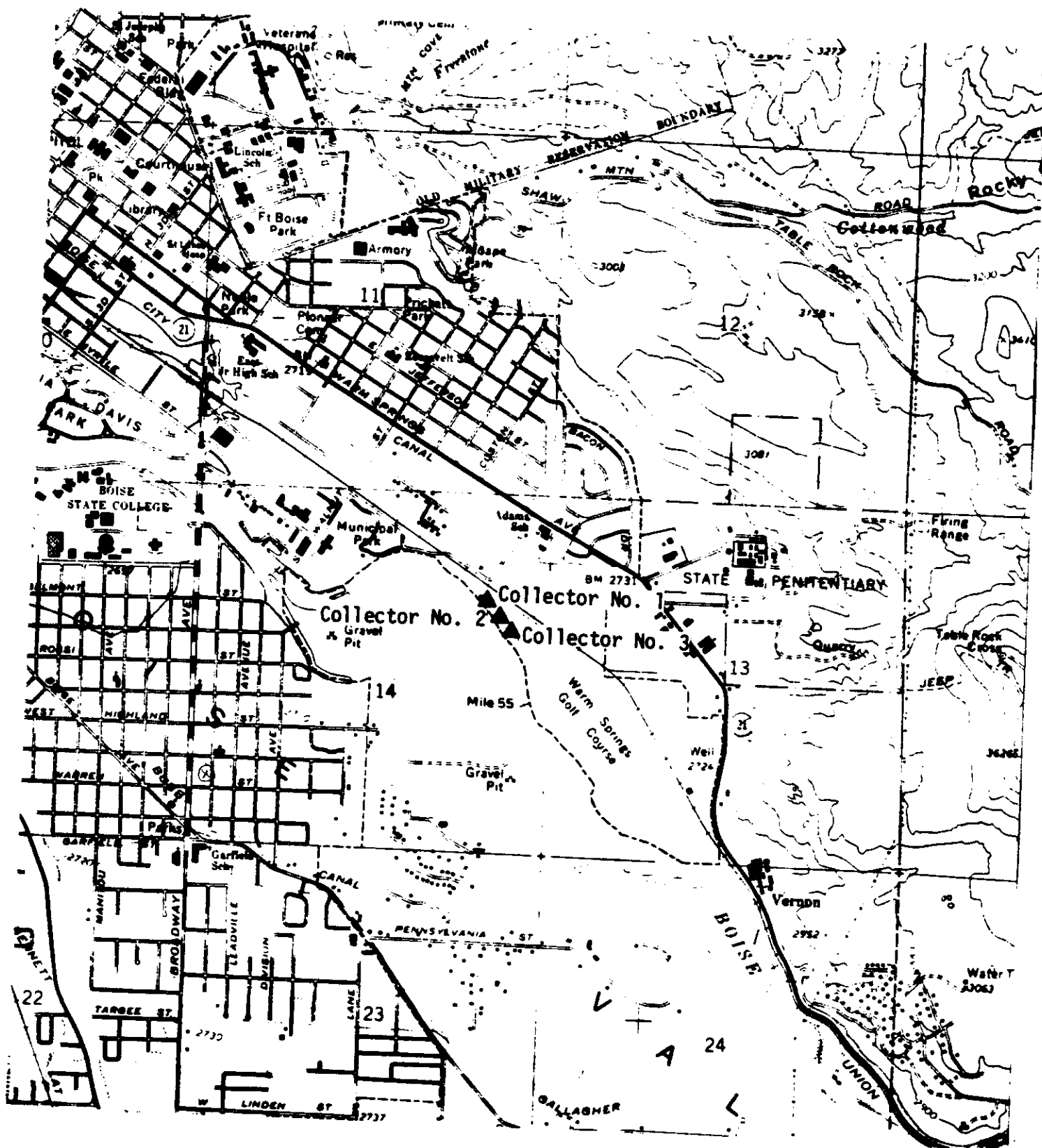
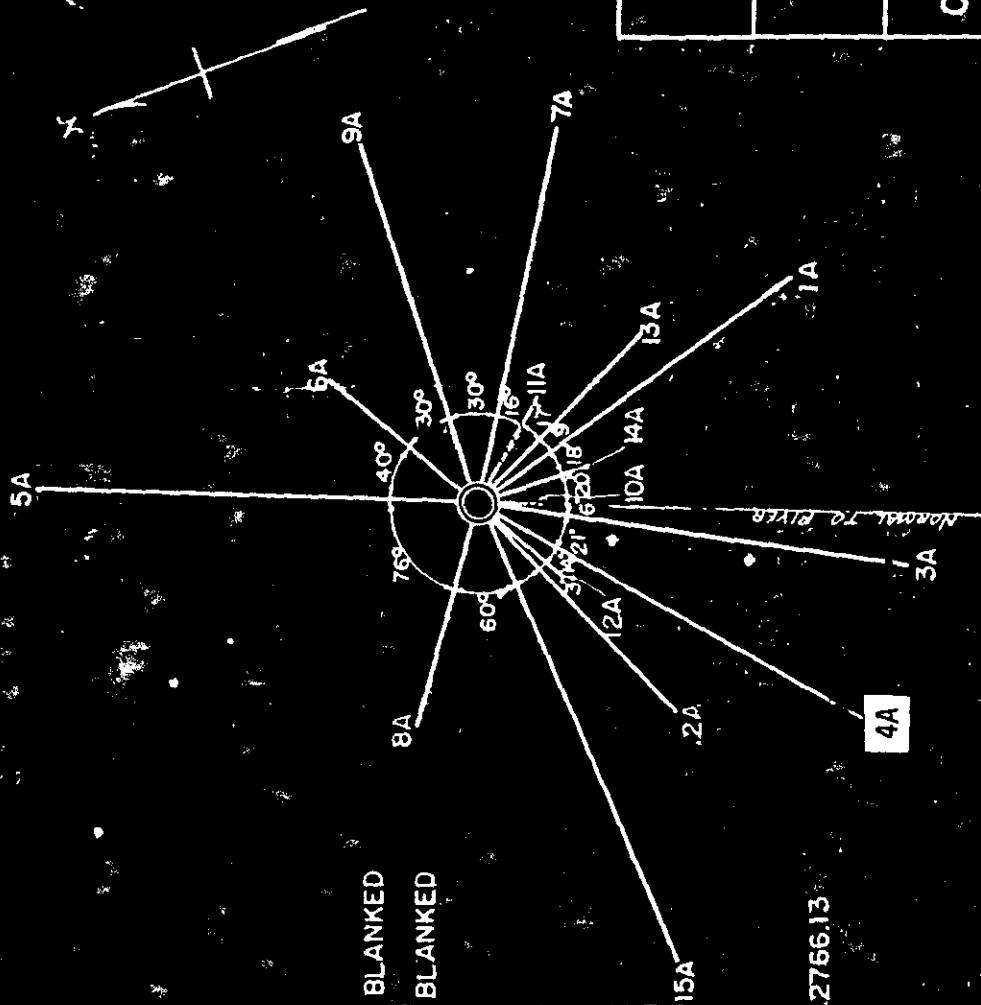


FIGURE 1. Location of Boise Water Corporation's Ranney Collector Wells.

CONFIDENTIAL

| Line No | Total Length | Elevation |
|---------|--------------|-----------|
| 1A      | 57.0'        | 2718.13   |
| 2A      | 41.0         | "         |
| 3A      | 65.0         | "         |
| 4A      | 64.0         | "         |
| 5A      | 66.5         | "         |
| 6A      | 27.0         | "         |
| 7A      | 58.0         | "         |
| 8A      | 33.0         | "         |
| 9A      | 54.0         | "         |
| 10A     | 6.0          | "         |
| 11A     | 15.0         | "         |
| 12A     | 16.0         | "         |
| 13A     | 29.0         | "         |
| 14A     | 13.0         | "         |
| 15A     | 71.0         | "         |
| Total   | 615.5'       |           |

GRADE ELEV. 2760.00  
ELEV. TOP OF PUMP SLAB 2766.13



COLLECTORS  
#1 #2 #3

BOISE RIVER

FIGURE 2

RANNEY METHOD  
WATER SUPPLIES, INC.  
COLUMBUS, OHIO

BOISE WATER CORP.  
BOISE, IDAHO

COLLECTOR PIPE DIAGRAM,  
COLLECTOR #1

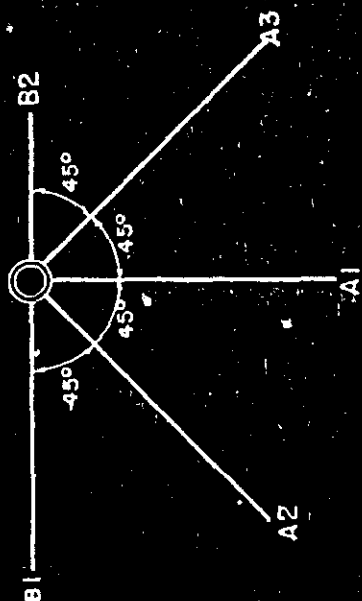
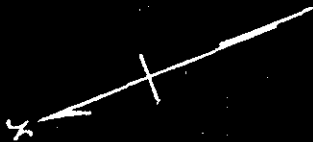
|                  |                  |
|------------------|------------------|
| DRAWN BY: G.K.Y. | APPROVED: TANCER |
| SCALE: 1" = 30'  | D-S. NO. SW-1-PD |
| DATE: 12/1/52    | SHEET NO. 1      |

BOISE RIVER

| Line No | Total Length | Elevation |
|---------|--------------|-----------|
| A 1     | 44.0'        | 2724.30   |
| A 2     | 57.0         | "         |
| A 3     | 49.0         | "         |
| B 1     | 41.0         | 2740.30   |
| B 2     | 25.0         | "         |
| Total   | 216.0'       |           |

GRADE ELEV.: 2750.0  
TOP OF PLUG: 2722.30  
TOP PUMP SLAB: 2762.05

FIGURE 3



FRAN EY METHOD  
WATER SUPPLIES, INC.  
COLUMBUS, OHIO

BOISE WATER CORP.  
IDAHO, IDAHO

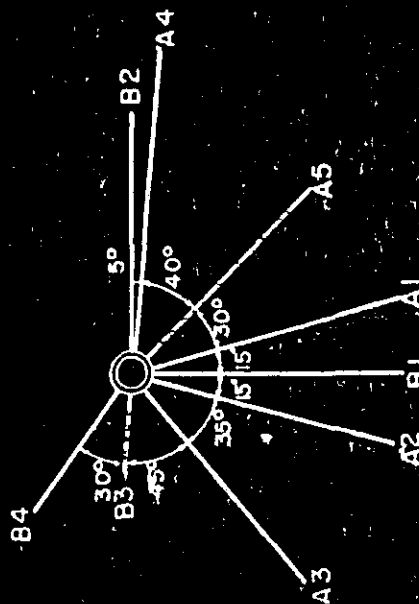
COLLECTOR PIPE DIAGRAM  
PROJECT: #2

|                    |                     |
|--------------------|---------------------|
| DRAWN BY: J. C. Y. | APPROVED: J. Tomcik |
| SCALE: 1" = 20'    | DWG. NO.: W-2-PD4   |
| DATE: 12/1/52      | SHEET: 0.3          |

FIGURE 4

| Line No | Total Length | Elevation |
|---------|--------------|-----------|
| A1      | 41.0'        | 2725.74   |
| A2      | 38.0         | "         |
| A3      | 37.0         | "         |
| A4      | 47.0         | "         |
| A5      | 37.0         | "         |
| B1      | 38.5         | 2741.74   |
| B2      | 37.0         | "         |
| B3      | 12.0         | "         |
| B4      | 25.0         | "         |
| Total   | 312.5'       |           |

GRADE/ELEV. 2761.0  
 TOP OF PLUG. 2723.74  
 TOP OF PUMP SLAB. 2763.49



BOISE RIVER

RANNEY METHOD  
 WATER SUPPLIES, INC.  
 COLUMBUS, OHIO

BOISE WATER CORP.  
 BOISE, IDAHO

# COLLECTOR PIPE DIAGRAM

COLLECTOR #3

DRAWN BY: C K Y. APPROVED: J. Tomcik

SCALE: 1" = 30' DWG. NO. SW-2-PD

DATE: 12/17/52 SHEET NO. 4

pump house allowing some of the discharge to be spilled to the Boise River, relieving back pressure on the pumps and thereby increasing the total discharge. Water diverted to the river bypassed the discharge meter and, therefore the total amount of water being discharged from Collector No. 1 could not be determined. It was estimated that the peak discharge was approximately 4,000 gpm. The rate of decline of the water level in the collector was less than expected, indicating possible leakage of the closed valves. However, by 10:45 the water level in Collector No. 1 was 30.8 feet below the cover in the pump house floor, exposing the three plugged laterals, and the testing of individual laterals began.

The testing sequence consisted of opening an individual valve for 10 minutes, closing the valve for 5 minutes, then opening the next valve on the opposite side of the collector. Data collection included water level and temperature measurements of the water at specific times in the collector and random temperature readings in the Boise River. Water temperatures were taken in Collector No. 1 with a YSI Precision Thermistor Teflon Probe lowered down into the collector to a depth of 45 feet. This method was used to allow for rapid measurement of temperature. The resistance in the probe was measured with a Micronta Digital Multimeter. The thermistor probe had been previously calibrated within the range of temperatures expected at the collector. In addition, the thermistor was field checked with a Reotemp Digital Thermometer several times at the site and was found to be approximately one degree high. The temperature data for Collector No. 1, unless otherwise stated, is the actual thermistor readings converted to degrees Fahrenheit.

Laterals were tested in the following order: 5, 4, 6, 2, 9, 3, 8, 1, 7, and 15. It was noted that, when a lateral was opened, a current on the water surface was created. This, in addition to the change in water level within the collector gives a relative indication of each lateral's ability to yield water to the collector. At 2:10 P.M. all the valves were opened, the diversion to the river was closed, the smaller pump was turned off and the large pump was gated back to a discharge of 1,900 gpm. This allowed the water level to rise in the collector, returning the collector to pre-testing conditions before testing for changes in temperatures at different discharge rates.

UNCLASSIFIED

At 3:30, with only the large pump running, the system was discharging 2,400 gpm with 80 psi back pressure with a depth to water of 21.1 feet. The valve then was opened fully and the discharge increased to over 4,000 gpm with 42 psi back pressure. The smaller pump was turned on at 3:35 with an increase in discharge above 4000 gpm with 58 psi back pressure. It became apparent that the discharge recording device was reading high and the discharge reading was checked with the in-line meter. The meter indicated approximately 3,200 gpm which was comparable to earlier rates. Water was again diverted to the Boise River for a total estimated discharge of 4,000 gpm with all valves open. Water temperatures were measured throughout the changes in discharge rate as shown on Plate 1.

### Analysis

The data collected from the test are shown on Plate 1. When lateral 5 was opened, the water level rose but there was little change in the temperature. When 5 was closed, the water level dropped but the temperature remained constant. When lateral 4 was opened, the water level rose and the temperature dropped. When the lateral was closed, the water level dropped and the temperature started rising towards the temperature that existed before the valve was opened. This cyclic effect was repeated with varying degrees of magnitude depending on the ability of the individual lateral to yield water. Laterals 7, 8, and 9 were the best while laterals 1 and 3 produced very little water. Laterals 2, 4, 5, 6, and 15 were similar in flow characteristics, but flows ranged somewhere between the best and worst.

The direction of the change depended on the location of the lateral with respect to the river. Laterals on the river side of the collector had lower temperatures than the laterals on the opposite side of the collector, with the maximum difference being approximately one degree Fahrenheit. Temperatures in the Boise River rose gradually through the day increasing from 43.3°F to 45.7°F. The water temperature in the collector was within one degree of 46.5° F for most of the day.

APPROVED

The water temperature as related to discharge rates is as follows:

| Temperature<br>(°F) | Discharge<br>(GPM) |
|---------------------|--------------------|
| 47.00               | 2100               |
| 46.55               | 3200               |
| 46.68               | 4000               |

The discharge rate was almost doubled and the water temperature in the collector only dropped 0.32°F.

Monitoring of temperatures in all three collectors and the Boise River by BWC personnel has continued on an almost daily basis since August 1982 (Figure 5). The temperature of the Boise River remained fairly constant through January and February (between 35° and 39° F). In late February the river temperature began to rise and will probably continue to rise until reaching the level of August last year (near 60° F). The water temperature in Collector No. 1 dropped ten degrees in January and then remained near a temperature of 46° F through February and March. Although several unexplained large temperature fluctuations apparently occurred in the collector during this period.

Water quality samples were collected twice in February in addition to the data presented in the earlier report (Table 1). The difference between the pH values of Collector No. 1 and the Boise River remained the same with the river having a higher pH. Values of hardness and alkalinity for Collector No. 1 remained higher while fluoride concentrations were similar.

MICROFILM

## CONCLUSIONS

1. Collector water temperatures are consistently warmer than Boise River temperatures.
2. Collector water temperatures exhibit seasonal fluctuations that are comparable to those observed in shallow wells.
3. Collector water samples have pH values that are consistently lower than those from the Boise River.
4. Collector water samples have a relative uniform value for hardness and alkalinity while river samples have a wider range.
5. On the basis of the foregoing, it is concluded that direct contribution from the surface flow of the Boise River to Boise Water Corporation collector No. 1 is minimal.
6. The designation of "subterranean flow" (or ground water) on Water License No. G-22594 (63-2892) appears appropriate.

APPROVED

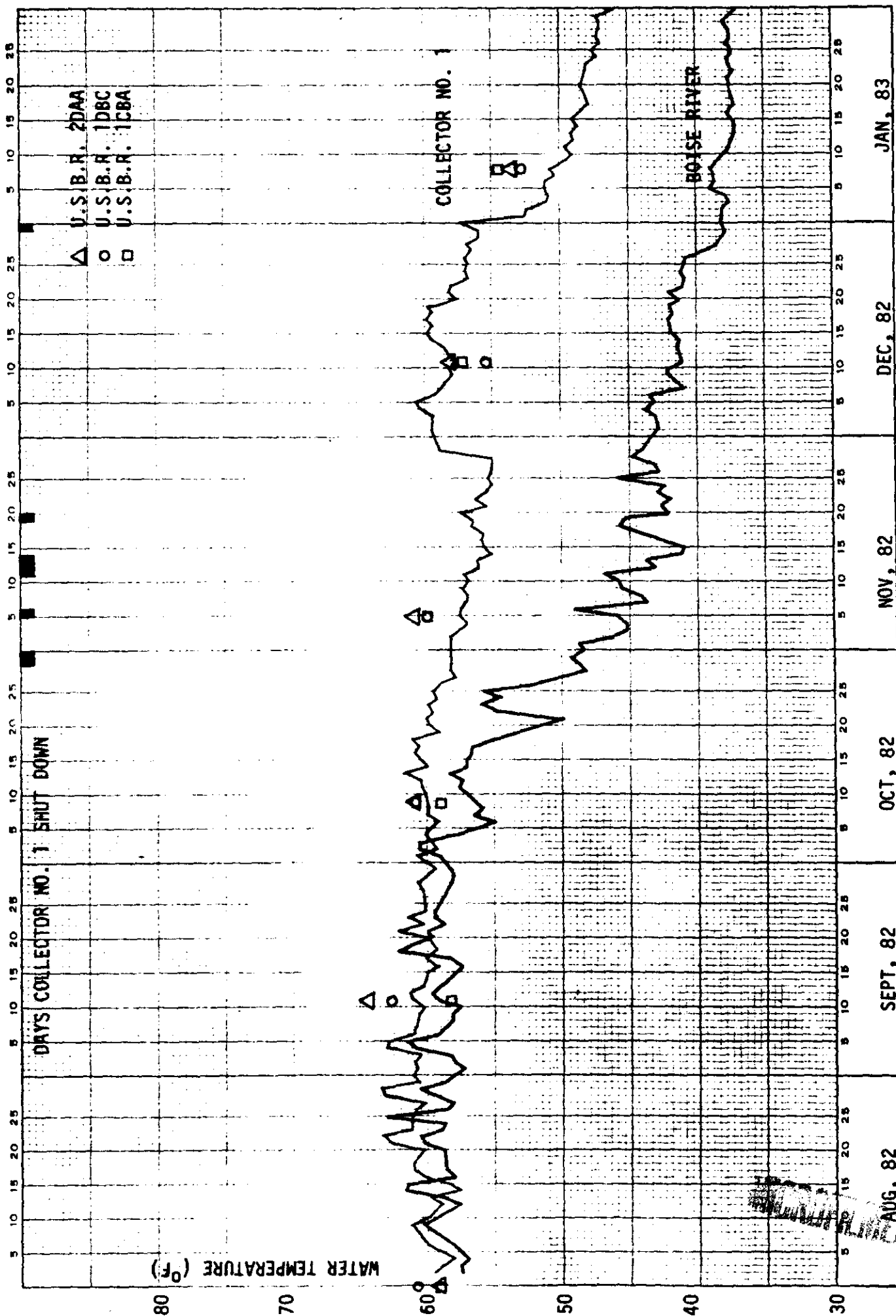


FIGURE 5. WATER TEMPERATURES OF THE BOISE RIVER, COLLECTOR NO. 1, AND THREE U.S.B.R. SHALLOW WELLS

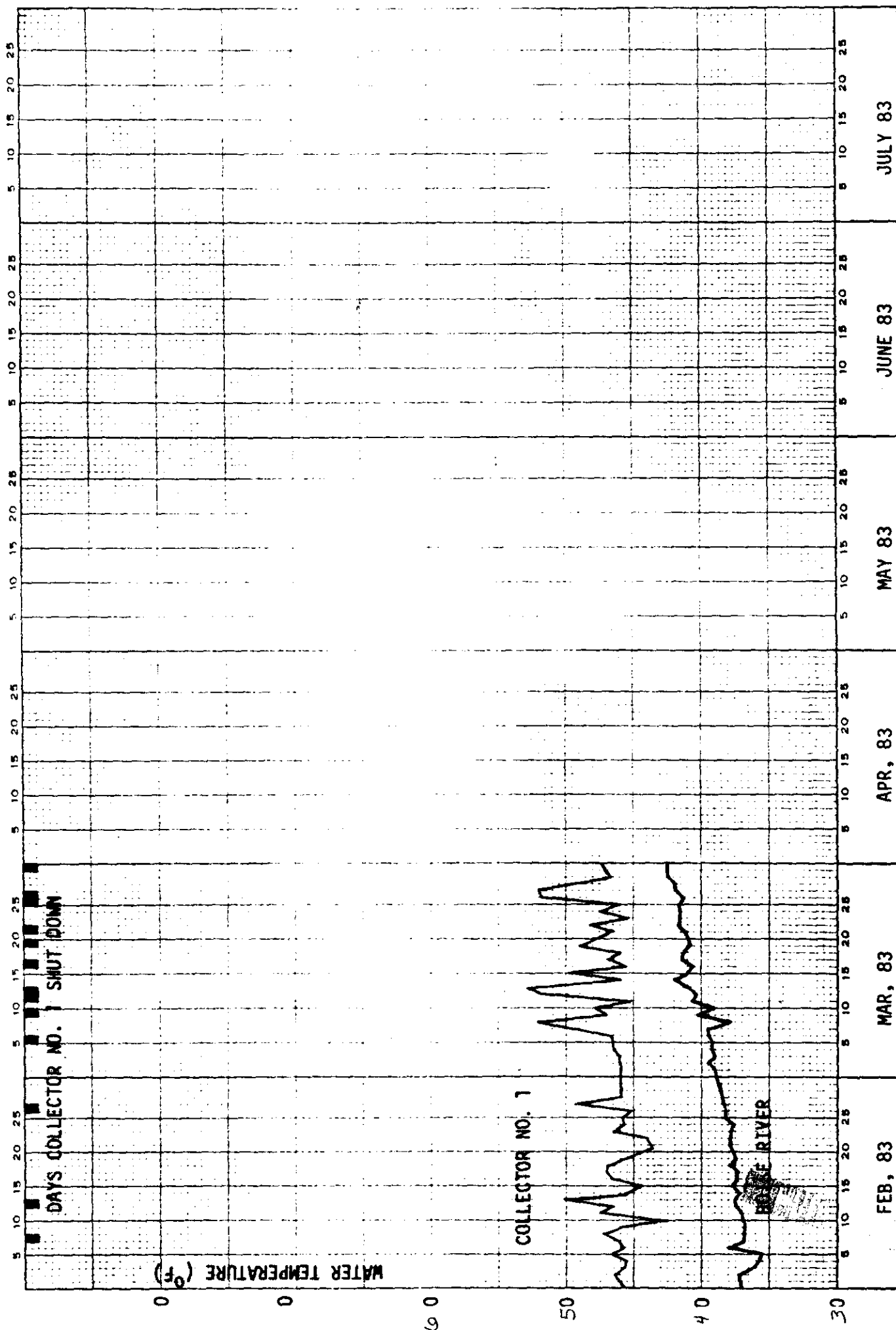


FIGURE 5. (Continued).

Table 1. Water Quality data from Collector No. 1, the Boise River, and two U.S.G.S. wells.

| <u>Date</u> | <u>Sample</u> | <u>pH</u> | <u>Hardness</u><br>(mg/l) | <u>Alkalinity</u><br>(mg/l) | <u>Temp.</u><br>(°F) | <u>Fluoride</u><br>(mg/l) |
|-------------|---------------|-----------|---------------------------|-----------------------------|----------------------|---------------------------|
| 10-26-81    | USGS #316*    | 6.5       | 87                        | 90                          | 59.0                 | .5                        |
| 9-16-80     | USGS #322*    | 7.8       | 61                        | 48                          | 60.8                 | .3                        |
| 9-20-82     | River         | 7.75      | 25                        | 25                          | 62                   | .23                       |
|             | Collector     | 6.40      | 37                        | 37                          | 60                   | .30                       |
| 10-07-82    | River         | 7.7       | 24                        | 32                          | 60                   | .25                       |
|             | Collector     | 6.5       | 37                        | 36                          | 56.5                 | .30                       |
| 11-18-82    | River         | 6.8       | 31                        | 37                          | 51.3                 | .25                       |
|             | Collector     | 6.5       | 38                        | 42                          | 55.7                 | .32                       |
| 12-17-82    | River         | 7.3       | 28                        | 37                          | 42.0                 | .28                       |
|             | Collector     | 6.4       | 36                        | 42                          | 54.8                 | .26                       |
| 02-03-83    | River         | 7.4       | 34                        | 39                          | 36                   | .32                       |
|             | Collector     | 6.3       | 38                        | 41                          | 45.6                 | .31                       |
| 02-18-83    | River         | 7.2       | 36                        | 35                          | 37.8                 | .32                       |
|             | Collector     | 6.3       | 38                        | 36                          | 46.8                 | .33                       |

\*Compilation of ground-water quality data for selected wells in Elmore, Owyhee, Ada, and Canyon Counties, Idaho, 1945 through 1982, USGS Open-File Report 83-39.

INVESTIGATION TO DETERMINE HYDRAULIC  
INTERCONNECTION OF THE BOISE RIVER AND  
BOISE WATER CORPORATION'S RANNEY COL-  
LECTOR WELLS and ADDENDUM TO THE  
INVESTIGATION

RECEIVED

MEMO

TO: File 63-2892 **DBS**  
FROM: David Shaw  
SUBJECT: Meeting with Boise Water Representative on May 23, 1985  
DATE: 5/28/85

On May 23, 1985 a meeting was held with Bob Walker of Boise Water Corporation and Jack Kelly his consultant, Bill Ondrechen and myself. The discussion centered around how diversion of water through Boise Water Corporation's Ranney collectors might affect other water users on the Boise River and how those affects could be mitigated.

We will be receiving from Boise Water Corporation a proposal to buy some storage in the Boise River reservoir system which will be released by the water master during irrigation season when other storage is being utilized. The discussion led to recommending 1000 acre feet of space be purchased and the water from the space be released during the irrigation season to compensate for diversions under the present license and if a new application for an additional 10 cfs is filed that and additional 1000 acre feet will be purchased to mitigate impacts on the river by the new filing.

We will be receiving from Boise Water Corporation a proposal that they will review in-house and which we can also review. This proposal may or may not address a new filing but will address purchasing storage to mitigate river flows for use of water under the existing license.

One reason Boise Water Corporation is reluctant to purchase storage is the apparent cost will be high. No firm figure has been established but \$35.00 per acre foot has been discussed as the likely cost of storage for Municipal and Industrial purposes. It is because of this high cost that Boise Water Corporation is not willing to purchase excess available storage at the present time.

**RECEIVED**

1983 - 3 c Hectors

| Month | Total<br>MG | Total<br>hrs | Average<br>CFB | Acres<br>feet |
|-------|-------------|--------------|----------------|---------------|
| Jan   | 50.99       | 449          | 4.22           | 156.5         |
| Feb   | 41.88       | 341          | 4.56           | 128.5         |
| Mar   | 44.33       | 306.5        | 5.37           | 136.0         |
| Apr   | 65.07       | 374.5        | 6.45           | 199.7         |
| May   | 98.47       | 400          | 9.14           | 302.2         |
| Jun   | 164.37      | 582.5        | 10.48          | 504.5         |
| Jul   | 164.69      | 577          | 10.60          | 505.4         |
| Aug   | 160.75      | 570          | 10.47          | 493.4         |
| Sep   | 134.14      | 503          | 9.91           | 411.7         |
| Oct   | 70.75       | 398.5        | 6.60           | 217.1         |
| Nov   | 18.09       | 124.5        | 5.39           | 55.5          |
| Dec   | 49.02       | 330          | 5.52           | 150.4         |

1062.05      4736.5      7.96      3261.1

for all collection  
+ 50%      1593.82      —      11.94      4891.6

by DBS 3/13/85





# United States Department of the Interior

BUREAU OF RECLAMATION  
PACIFIC NORTHWEST REGION  
FEDERAL BUILDING & U.S. COURTHOUSE  
BOX 049-550 WEST FORT STREET  
BOISE, IDAHO 83721

IN REPLY  
REFER TO:  
840. PN 440

RECEIVED

APR 12 1985

APR 11 1985

Department of Water Resources

Mr. Robert P. Walker  
District Engineer  
Boise Water Corporation  
8150 West Victory Road  
Boise, Idaho 83707

Dear Mr. Walker:

This is in regard to a recent inquiry from the city of Boise expressing interest in obtaining a long-term contract for 340 acre-feet of water per year from the Boise River for the irrigation of city parks.

There are only two quantities of uncontracted space in the Boise River system from which the needs of the city of Boise could be met. One is 5,200 acre-feet of storage space in Anderson Ranch Reservoir and the other is 22,800 acre-feet of space in Arrowrock Reservoir.

5,200 acre-feet of storage space in Anderson Ranch Reservoir

This space has heretofore been reserved for power generation but could be made available for irrigation or other purposes. The Boise Water Corporation has expressed an interest in contracting for up to 5,000 acre-feet of storage water supplies and this space may satisfy that need. Our letter to you of July 18, 1983, offered the Boise Water Corporation the opportunity to enter into contract negotiations for an interim (2-year) contract for storage water from Lucky Peak Reservoir. We have not received a formal response concerning that letter.

22,800 acre-feet of storage space in Arrowrock Reservoir

This space was originally reserved for the Hillcrest Division of the Boise Project. The Boise Project Board of Control has rented this space for several years and has been offered the opportunity to enter into contract negotiations for a permanent right to this 22,800 acre-feet of Hillcrest storage space.

RECEIVED  
APR 13 1985

Department of Water Resources  
Western Regional Office

We are interested in attempting to satisfy identified water needs, including those of the city of Boise, and in obtaining a return on the Federal investment in Boise Project facilities. We would appreciate your comments and suggestions with respect to this matter and also need to know the intentions of the Boise Water Corporation concerning the offer discussed in our letter of July 18, 1983.

Sincerely yours,

**L. W. LERO**

Regional Director

cc: Mr. Norman Young  
Idaho Department of Water Resources  
Statehouse  
Boise, Idaho 83720

2

November 19, 1984

Robert P. Walker  
District Engineer  
Boise Water Corporation  
P. O. Box 7488  
Boise, ID 83707

Dear Bob:

It has been sometime since we discussed with you the use of water from your Ranney collectors and their relationship to the Boise River. In that time we have asked our attorneys to determine if the Ranney collectors could be regulated by the Boise River Watermaster. The attorney's opinion is that, to the extent that factual evidence shows that the water being diverted forms a part of the Boise River system, the Ranney collectors could be properly regulated by the Boise River Watermaster.

It seems this is a question that arose from our last discussion some time ago and unfortunately has taken too long to be answered. As I recall from our last discussions, there seems to be a consensus that some part of the diversion from the Ranney collectors affected the flow of the Boise River, if not immediately in a short time period. The diversion from the Ranney collectors then does have some impact on downstream Boise River Water users.

As I recall no real attempt was made to try to quantify the impact of the Ranney collectors on the river. In fact, there may have been some discussion that any attempts to quantify the impact on the river might be a less straight forward solution than arriving at some agreement by negotiation.

One reason for bringing this to your attention now is that the Bureau of Reclamation has asked for an amendment to change the nature of use of some of the stored water in Lucky Peak Reservoir. One of the alternatives

2

CONVERSATION MEMORANDUM

DATE 11/16/84

FILE 63-28928 3618

NAME OF PARTY Ron Golus

EMPLOYEE David Shaw

RE: Letter to Boise Water Corp.

I told Ron we planned to send a letter to BWC urging them to reach an agreement on the impact of the Runney collectors on the Boise River.

Ron said the Bureau was also interested in a determination. I told him we were doing that to try to reach a solution before the Lucky Peak amendment is final.

Ron said if BWC decides to purchase storage water the Bureau has 5000 ac-ft of storage water for power (multi-use) in Anderson and they would probably offer that water to BWC.

INTER-DEPARTMENT MEMO — 1

FROM Phil Rassier

DATE November 7, 1984

TO Dave Shaw  
Norm Young

SUBJECT Lic. 63-2892 Boise Water Corp.

In my opinion, the Department may properly regulate water diverted under this license as a part of the Boise River to the extent that factual evidence shows that the water being diverted forms a part of the Boise River system. This conclusion applies both to the old point of diversion and to the new point of diversion added in January 1982.

Phil Rassier  
SIGNATURE

# BOISE - WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

1983

### HYDRAULIC STUDY

| DATE       | LOCATION     | STATUS | DRAW DOWN | TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME   |
|------------|--------------|--------|-----------|-------|-------------|-------------|--------|--------|
| Feb<br>25  | COLLECTOR #1 | ON     | 81.7      | 45.8° | 92.6        | 38.1°       | 1900   | 10:30  |
|            | COLLECTOR #2 | OFF    | 91.3      | 45.2° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 51.6° | 92.5        |             |        |        |
| Feb<br>26  | COLLECTOR #1 | ON     | 81.0      | 45.2° | 92.6        | 38.2°       | 1900   | 11:00A |
|            | COLLECTOR #2 | OFF    | 91.3      | 45.2° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 49.9° | 92.5        |             |        |        |
| Feb.<br>27 | COLLECTOR #1 | OFF    | 88.9      | 49.2° | 92.6        | 38.2        | —      | 9:45A  |
|            | COLLECTOR #2 | OFF    | 91.4      | 45.4° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 49.9° | 92.5        |             |        |        |
| Feb.<br>28 | COLLECTOR #1 | ON     | 82.9      | 45.9° | 92.6        | 38.4°       | 1950   | 10:05A |
|            | COLLECTOR #2 | OFF    | 91.5      | 45.5° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 49.8° | 92.5        |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS  
Governor

A. KENNETH DUNN  
Director

Mailing address:  
Statehouse  
Boise, Idaho 83720  
(208) 334-4440

October 18, 1983

MEMO

TO: Glen Saxton, Operations Bureau  
FROM: <sup>WTC</sup> William Ondrechen, Hydrology Section  
SUBJECT: REVIEW OF ANDERSON & KELLY ADDENDUM REPORT ON  
HYDRAULIC INTERCONNECTION OF BOISE WATER CORP.  
RANNEY COLLECTOR WELLS AND THE BOISE RIVER

The additional data presented in the addendum report are consistent with those in the original report. The first four conclusions listed in the report are:

- 1) Collector water temperatures are consistently warmer than the river.
- 2) Collector water temperatures exhibit seasonal fluctuations comparable to shallow groundwater.
- 3) Collector water pH values are lower than river pH values.
- 4) Hardness and alkalinity values for collector water had a smaller range than for river water.
- 5) Direct contribution from the surface flow of the river to the collector well is minimal.

Comparing the hardness and alkalinity values for the collector water with those of the two USGS wells (Table 1) seems to indicate that the collector water is closer to river water in chemical composition than groundwater. These two chemical indicators are more stable than a property like temperature. If river water were induced to flow to the well its temperature would be modified by contact with the aquifer material. Case studies of two Ranney collector installations in the Ohio River Valley (Rorabaugh, 1956 and Rorabaugh, 1963) indicate that water derived from the collectors was intermediate in chemical composition between surface and groundwater sources. Its temperature was also considerably modified from that of the surface water.

100

In both of these studies, hydraulic connection of the aquifer and collector was inferred from geologic conditions and relation of water levels in the collector to river stage. Since river stage varied over a 40 foot range, the change was readily detectable in the collector. Pumping levels in BWC Collector No. 1 appear not to be related to the stage of the Boise River (Figure 3), however, this lack of correlation could be caused by variations in pumping rate being of such short duration that equilibrium conditions have not been established. River stage varied only over a 4 foot range for the points shown in Figure 2, while pumping level varied over a 22 foot range.

Other indicators of hydraulic connection such as time-drawdown data from a pump test are not available to ascertain whether the river acts as a recharge boundary for the well. The data presented in the report (Plate 1) dealing with the testing of the individual laterals don't seem to fully support conclusion number five. The laterals on the river side of the collector yielded cooler (closer to river temperature) water than those away from the river. Since the temperature of the river was only a little more than 1°F less than the combined collector discharge temperature, this implies a more significant effect than that mentioned.

Historic reach gain calculations show that the reach of the Boise River between Lucky Peak and Capitol Blvd. (Boise River at Boise gage) is generally a gaining reach during the months of July through October. Streamflow measurements made at low flow conditions in November and water table contour data presented by Thomas and Dion, 1974, indicate that groundwater flow is toward the river in the vicinity of the collector wells. Geologic conditions in the vicinity of the collectors do not indicate that separation of the alluvium in which the collectors are installed and the Boise River. Indeed, the close proximity of the collectors to the stream channel both horizontal and vertically, make their effects on the groundwater gain to the river most likely. Other more distant wells may affect discharge from the alluvial aquifer to the river as well, but the effect of the collector wells is more immediate due solely to their location.

My point is not to quarrel with the report, because I believe it is entirely unbiased and well presented, but to consider how reasonable the conclusions are when viewed from another perspective. Here we have a collector well located 100 feet from the river with lateral radiating out at a depth of 42 feet below land surface in an alluvial aquifer that discharges to the river. ~~Are we to conclude that since pumping levels don't correlate well with river levels or since water temperatures are not closely related that the well and the river are not connected?~~ A well need not be "directly" connected, that is inducing water from the river directly into the well, in order to have an effect on a stream.

Perhaps designation of "subterranean flow" or groundwater on the license is appropriate, but one must consider the likely effects when this groundwater interacts with the river.

In summary, the data suggest that the well is pumping shallow groundwater from an aquifer which is closely connected to the river. The close proximity of ~~the collector well~~ to the river ~~will allow the effects of the pumping to be felt within a short~~ (perhaps days?) ~~time interval~~, though it will not affect the river in as short a time interval as a direct surface water diversion.

WO:mb

Rorabaugh, M.I., 1956, Ground Water in Northwestern Louisville, Kentucky: USGS Water Supply Paper 1360-B, p. 101-169.

Rorabaugh, M.I., 1963, Streambed Percolation in Development of Water Supplies, in Methods of Collecting and Interpreting Ground-Water Data. USGS Water Supply Paper 1544-H, p. 47-61.

Thomas, C.A. and Dion, N.P., 1974, Characteristics of Streamflow and Ground-Water Conditions in the Boise River Valley, Idaho. USGS Water Resources Investigators 38-74. 59 p.



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS  
Governor

A. KENNETH DUNN  
Director

Mailing address:  
Statehouse  
Boise, Idaho 83720  
(208) 334-4440

October 18, 1983

MEMO

RECEIVED  
OCT 19 1983

TO: Glen Saxton, Operations Bureau  
FROM: William Ondrechen, <sup>WTC</sup>Hydrology Section  
SUBJECT: REVIEW OF ANDERSON & KELLY ADDENDUM REPORT ON  
HYDRAULIC INTERCONNECTION OF BOISE WATER CORP.  
RANNEY COLLECTOR WELLS AND THE BOISE RIVER

Department of Water Resources  
Western Regional Office

The additional data presented in the addendum report are consistent with those in the original report. The first four conclusions listed in the report are:

- 1) Collector water temperatures are consistently warmer than the river.
- 2) Collector water temperatures exhibit seasonal fluctuations comparable to shallow groundwater.
- 3) Collector water pH values are lower than river pH values.
- 4) Hardness and alkalinity values for collector water had a smaller range than for river water.
- 5) Direct contribution from the surface flow of the river to the collector well is minimal.

Comparing the hardness and alkalinity values for the collector water with those of the two USGS wells (Table 1) seems to indicate that the collector water is closer to river water in chemical composition than groundwater. These two chemical indicators are more stable than a property like temperature. If river water were induced to flow to the well its temperature would be modified by contact with the aquifer material. Case studies of two Ranney collector installations in the Ohio River Valley (Rorabaugh, 1956 and Rorabaugh, 1963) indicate that water derived from the collectors was intermediate in chemical composition between surface and groundwater sources. Its temperature was also considerably modified from that of the surface water.

RECEIVED  
OCT 20 1983

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My point is not to quarrel with the report, because I believe it is entirely unbiased and well presented, but to consider how reasonable the conclusions are when viewed from another perspective. Here we have a collector well located 100 feet from the river with lateral radiating out at a depth of 42 feet below land surface in an alluvial aquifer that discharges to the river. Are we to conclude that since pumping levels don't correlate well with river levels or since water temperatures are not closely related that the well and the river are not connected? A well need not be "directly" connected, that is inducing water from the river directly into the well, in order to have an effect on a stream.

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11/1/83 Boise Water Corp.  
Ranney Collectors - Boise River

Draft request for informal  
AG's opinion on changing  
regulation of existing right.

~~EX-100~~

MEMORANDUM

TO: Phil Rassier  
FROM: Norm Young *NY*  
DATE: November 4, 1983  
SUBJECT: Regulation of Boise Water Corporation Ranney Collection Wells,  
Request for Informal Opinion

Boise Water Corporation has a 1952 license No. 63-2892 for 15 cubic per second of water to be diverted through Ranney Collectors located adjacent to the Boise River in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ , Section 14, Township 3N, Range 2E and SE $\frac{1}{4}$ NE $\frac{1}{4}$ , Section 5, Township 3N, Range 2E. The second point of diversion was added by a transfer approved on January 5, 1982.

The conditions of approval of the transfer required Boise Water Corporation to initiate a study to determine the effect of the Ranney Collectors on the surface water flow on the Boise River. That study is now complete and there seems to be general agreement that the Ranney Collectors have some impact on the surface water flow in the Boise River although the portion of flow from the Ranney Collectors that appears as a near term decrease in the flow of the Boise River has not been determined.

Before an extensive effort is made to attempt to determine the quantitative impact of the Ranney Collectors on the surface flow of the Boise River, the legal question of whether the Department can begin to regulate all or part of the waters under this license as Boise River water should be answered. Since 1952 the diversion has not been regulated by the Boise River watermaster and no charge against storage has been made to supply water to this diversion.

A new application had originally been filed for the new point of diversion and the Department had proposed to deny that application because insufficient water was available. Boise Water Corporation subsequently withdrew the new application for permit rather than have it be denied and filed the transfer which was approved.

Please determine the Department's ability, from a legal standpoint, to regulate the old diversion or the new diversion under this existing license as a part of the Boise River. If you have questions about this request, please see Dave Shaw or myself.

RECEIVED  
NOV 10 1983



United States Department of the Interior

BUREAU OF RECLAMATION  
PACIFIC NORTHWEST REGION  
FEDERAL BUILDING & U.S. COURTHOUSE  
BOX 043 - 550 WEST FORT STREET  
BOISE, IDAHO 83724 - 0430

IN REPLY  
REFER TO: PN 440  
840.

*Norm per*  
*Shaw*  
*What is status of A-K study on interceptors*  
**RECEIVED**

**JUL 26 1983**  
Department of Water Resources

**JUL 25 1983**

Mr. Robert P. Walker, P.E.  
District Engineer  
Boise Water Corporation  
P.O. Box 7488  
Boise, Idaho 83707

Dear Mr. Walker:

In response to your formal request of March 21, 1983, enclosed are an original and two copies of an interim municipal water service contract between the United States and the Boise Water Corporation (BWC).

The contract provides that the United States will furnish the BWC up to 5,000 acre-feet of water annually for a period of 2 years from the effective date of the contract. The water will be provided from uncontracted storage capacity in Lucky Peak Reservoir. The contract provides that the BWC will pay \$15,000 on or before the effective date of the contract for the first block of 500 acre-feet to be delivered in the initial contract year and a like amount on or before the first anniversary date of the contract for the first 500 acre-foot block to be delivered in the second contract year. Payment of \$15,000 for each additional 500 acre-foot block to be delivered in either contract year will be due and payable at the time the water is ordered.

If you find the contract acceptable, please have two copies executed, attested, and acknowledged in the spaces provided, and return both copies to this office. When the contract has been executed on behalf of the United States, an original and one copy will be furnished for your records.

If you have questions concerning the contract, you may call Larry Parsons of this office at 334-9504.

Sincerely yours,

**JOHN W. KEYS III**  
**ACTING**  
Regional Director

**RECEIVED**

**AUG 11 1983**

Department of Water Resources  
Western Regional Office

3 Enclosures

cc: Mr. Kenneth Dunn, Director, State of Idaho, Department of  
Water Resources, Statehouse, Boise, Idaho 83720 ✓

**RECORDED**

cc: Colonel Robert Williams  
District Engineer  
Walla Walla District  
Corps of Engineers  
Building 602, City-County Airport  
Walla Walla, Washington 99362

RECEIVED

PN Draft 3/23/83  
Revised 4/7/83  
Revised 7/15/83  
Contract No. 3-07-10-W0502

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

BOISE PROJECT, IDAHO

INTERIM MUNICIPAL WATER SERVICE CONTRACT  
BETWEEN THE UNITED STATES AND THE BOISE WATER CORPORATION

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**UNRECORDED**

PN Draft 3/23/83  
Revised 4/7/83  
Revised 7/15/83  
Contract No. 3-07-10-W0502

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

BOISE PROJECT, IDAHO

INTERIM MUNICIPAL WATER SERVICE CONTRACT  
BETWEEN THE UNITED STATES AND THE BOISE WATER CORPORATION

1           THIS CONTRACT, made this \_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_,  
2   pursuant to the Act of Congress approved June 17, 1902 (32 Stat. 388), and  
3   acts amendatory thereof or supplementary thereto, and particularly  
4   Section 9c(2) of the Reclamation Project Act of 1939 (53 Stat. 1187),  
5   collectively known as the Federal Reclamation laws, between THE UNITED  
6   STATES OF AMERICA, hereinafter referred to as the United States, represented  
7   by the officer executing this contract, hereinafter referred to as the  
8   Contracting Officer, and the BOISE WATER CORPORATION, an Idaho Corporation,  
9   with its principal place of business in Boise, Idaho, hereinafter referred  
10   to as the Contractor,

11           WITNESSETH THAT:

12                   EXPLANATORY RECITALS

13           2. WHEREAS, the United States has constructed and operates the Lucky  
14   Peak Dam and Reservoir on the Boise River in which there is water stored  
15   which can be used for the irrigation of land and for other beneficial uses,  
16   which stored water was appropriated by the United States pursuant to the  
17   laws of Idaho for beneficial use under the Federal Reclamation Laws; and

18           3. WHEREAS, the Contractor, under permit from the Idaho Department  
19   of Water Resources (IDWR), currently operates Ranney collector systems at  
20   two sites situated adjacent to the Boise River as part of their municipal  
21   water supply; and

Recitals 2, 3  
2000-0000

1           4. WHEREAS, the Contractor anticipates that as a result of a study  
2 required by the IDWR to be completed by June 15, 1983, it will be determined  
3 that most of the water collected by the Ranney collector systems is surface  
4 flows of the Boise River in which event use of the water would be placed  
5 under the control of the Boise River Watermaster and the Contractor has,  
6 therefore, requested long-term contractual arrangements for use of Lucky  
7 Peak Reservoir storage capacity to permit continued diversion at the two  
8 sites after June 15, 1983; and

9           5. WHEREAS, the United States is currently involved in the Boise  
10 Project Power Modification Study (BPPMS) with the primary objective of  
11 arriving at recommendations for hydropower development at Boise River dams  
12 in concert with other functional needs of the Boise River system including  
13 those of the Contractor; and

14           6. WHEREAS, It is projected that the BPPMS and subsequent National  
15 Environmental Policy Act compliance procedures will not be completed until  
16 mid or late 1984 and it would be inappropriate to enter into long-term  
17 contractual arrangements prior to completion of those actions;

18           NOW THEREFORE, in consideration of the mutual and dependent  
19 covenants herein contained, the parties hereto agree as follows:

20                               GENERAL DEFINITIONS

21           7. Where used in this contract:

22               a. "Federal Reclamation Laws" means the Act of June 17,  
23 1902 (32 Stat. 388), and all acts amendatory thereof or supplementary  
24 thereto.

25               b. "Secretary" or "Contracting Officer," or either of them  
26 means the Secretary of the Interior or his duly authorized representative.

Recitals 4, 5, 6  
Article 7

1 c. "Contractor" means the Boise Water Corporation.

2 TERM OF CONTRACT

3 8. This contract shall become effective on the date first-above  
4 written and will continue in force for a period of 2 years unless sooner  
5 terminated by mutual agreement of the parties. It is understood and agreed  
6 that the furnishing of water herein provided is temporary and shall not be  
7 considered as binding the Contracting Officer to furnish water to said  
8 Contractor after the end of said contract period. Nor shall this contract  
9 under any circumstances become the basis of a permanent right. The Contractor,  
10 for itself, its successors and assigns, and all persons claiming under or  
11 through it or them, hereby expressly consent that at the expiration hereof,  
12 the right to use water provided for herein shall terminate and revert to the  
13 United States as fully as if this contract had never been made, and no water  
14 had ever been furnished hereunder.

15 AVAILABILITY OF WATER

16 9. The United States grants the Contractor the right, during the  
17 term of this contract, to have delivered at the outlet works of Lucky Peak  
18 Reservoir, as hereinafter provided, up to 5,000 acre-feet of water annually  
19 in blocks of 500 acre-feet. Any request by the Contractor for a release of  
20 water from Lucky Peak Reservoir subsequent to the initial 500 acre-foot  
21 block each contract year shall be made in writing and received at least  
22 7 days in advance of the date of delivery by the Project Superintendent,  
23 Central Snake Projects Office, 214 Broadway, Boise, Idaho 83702.

24 FOR MUNICIPAL USE ONLY

25 10. The water service provided hereunder shall be used by the Contractor  
26 only for municipal purposes. The Contractor shall prepare and furnish  
27 such reports on water use and related data as required by the Contracting  
28 Officer.

Articles 8, 9, 10

#### RATE AND METHOD OF PAYMENT FOR WATER

11. The Contractor will pay to the United States on or before the effective date of this contract \$15,000 for the first block of 500 acre-feet to be delivered to the Contractor in the initial contract year and on or before the first anniversary date of the contract a like amount for the first block of 500 acre-feet to be delivered to the Contractor in the second contract year. Payment of the amount of \$15,000 for each additional block of 500 acre-feet ordered by the Contractor in any contract year will be due and payable on the date the water is ordered.

#### MEASUREMENT AND RESPONSIBILITY FOR DISTRIBUTION

12. (a) The water to be furnished to the Contractor will be measured by facilities of the United States and delivered into the Boise River at the outlet works of Lucky Peak Reservoir. The Contractor shall suffer all distribution and administration losses from the point of such delivery to the place of use. The Contractor agrees to provide a measuring device, which is acceptable to the State Officer in charge of the distribution of water from the Boise River at or near the Contractor's point of diversion to measure the quantity of water delivered and diverted under this contract. The Contractor is responsible for making any arrangements with the State of Idaho and others for the transportation and diversion of such water. The Contractor shall pay any charges from the IDWR office for the distribution, handling, or administration of this water.

(b) The United States shall not be responsible for the control, carriage, handling, use, disposal, or distribution of water taken by the Contractor hereunder, and the Contractor shall hold the United States harmless on account of damage or claim of damage of any nature whatsoever,

Articles 11, 12

1 including property damage, personal injury, or death arising out of or  
2 connected with the control, carriage, handling, use, disposal, or dis-  
3 tribution of such water by the Contractor.

#### 4 TERMINATION OF CONTRACT

5 13. (a) This contract shall be terminated and water service hereunder  
6 shall cease at the option of the United States at any time if the Contractor  
7 is delinquent in payments required under this contract for a period of  
8 30 days or upon failure of the Contractor to comply with other provisions  
9 herein or to abide by any lawful notice, order, rule, or regulation of the  
10 United States and the State of Idaho, now or hereafter established affecting  
11 water service hereunder.

12 (b) The Contractor shall have the right to terminate this contract  
13 in the event it has no further need of the water service provided herein.  
14 Notice of the intent by the Contractor to terminate this contract shall be  
15 in writing to the Contracting Officer at least 30 days prior to the termina-  
16 tion date proposed.

17 (c) Termination of this contract for any cause shall not relieve  
18 the Contractor of any obligations incurred by way of this contract prior to  
19 termination.

#### 20 UNITED STATES NOT LIABLE FOR WATER SHORTAGE - ADJUSTMENTS

21 14. On account of drought, errors in operation, or other causes, there  
22 may occur at times a shortage during any year in the quantity of water  
23 available to the Contractor by the United States pursuant to this contract,  
24 and in no event shall any liability accrue against the United States or any  
25 of its officers, agents, or employees for any damage direct or indirect,  
26 arising therefrom. In any year in which there may occur such a shortage,

Articles 13, 14

1 the United States reserves the right to apportion the available water supply  
2 among the Contractor and others entitled, under existing and future contract,  
3 to receive water from the same water supply all in a manner to be prescribed  
4 by the Contracting Officer.

5 GENERAL OBLIGATION - BENEFITS CONDITIONED UPON PAYMENT

6 15. (a) The obligation of the Contractor to pay the United States  
7 as provided in this contract is a general obligation of the Contractor  
8 notwithstanding the manner in which the obligation may be distributed among  
9 the Contractor's water users and notwithstanding the default of individual  
10 water users in their obligations to the Contractor.

11 (b) The payment of charges becoming due hereunder is a condition  
12 precedent to receiving benefits under this contract. No water will be made  
13 available to the Contractor through project facilities during any period in  
14 which the Contractor may be in arrears in the advance payments due.

15 CHARGE FOR LATE PAYMENTS

16 16. The Contractor shall pay a late payment charge on installments  
17 or charges which are received after the due date. The late payment charge  
18 percentage rate calculated by the Department of the Treasury and published  
19 quarterly in the Federal Register shall be used: Provided, That the late  
20 payment charge percentage rate will not be less than 0.5 percent per month.  
21 The late payment charge percentage rate applied on an overdue payment will  
22 remain in effect until payment is received. The late payment rate for a  
23 30-day period will be determined on the day immediately following the due  
24 date and will be applied to the overdue payment for any portion of the  
25 30-day period of delinquency. In the case of partial late payments, the  
26 amount received will first be applied to the late charge on the overdue  
27 payment and then to the overdue payment.

28 RULES, REGULATIONS, AND DETERMINATIONS

29 17. (a) The Contracting Officer shall have the right to make, after  
30 an opportunity has been offered to the Contractor for consultation, rules  
31 and regulations consistent with the provisions of this contract, the laws of  
32 the United States and State of Idaho, to add or modify them as may be deemed  
33 proper and necessary to carry out this contract, and to supply necessary  
34 details of its administration which are not covered by express provisions of  
35 this contract. The Contractor shall observe such rules and regulations.

Articles 15, 16, 17

1 (b) Where the terms of this contract provide for action to be based  
2 upon the opinion or determination of either party to this contract, whether  
3 or not stated to be conclusive, said terms shall not be construed as permit-  
4 ting such action to be predicated upon arbitrary, capricious, or unreasonable  
5 opinions or determinations. In the event that the Contractor questions any  
6 factual determination made by the Contracting Officer, the findings as to  
7 the facts shall be made by the Secretary only after consultation with the  
8 Contractor and shall be administratively conclusive upon the parties.

#### 9 NOTICES

10 18. Any notice, demand, or request authorized or required by this  
11 contract shall be deemed to have been given, on behalf of the Contractor,  
12 when mailed, postage prepaid, or delivered to the Regional Director, Pacific  
13 Northwest Region, Bureau of Reclamation, Box 043 - 550 West Fort Street,  
14 Boise, Idaho 83724, and on behalf of the United States, when mailed,  
15 postage prepaid, or delivered to the Manager, Boise Water Corporation,  
16 P.O. Box 7488, Boise, Idaho 83707. The designation of the addressee or the  
17 address may be changed by notice given in the same manner as provided in  
18 this article for other notices.

#### 19 CONTINGENT ON APPROPRIATION OR ALLOTMENT OF FUNDS

20 19. The expenditure or advancement of any money or the performance of any  
21 work by the United States hereunder which may require appropriation of money  
22 by the Congress or the allotment of funds shall be contingent upon such  
23 appropriation or allotment being made. The failure of the Congress to  
24 appropriate funds or the absence of any allotment of funds shall not relieve  
25 the Contractor from any obligations under this contract. No liability shall  
26 accrue to the United States in case such funds are not appropriated or  
27 allotted.

#### 28 OFFICIALS NOT TO BENEFIT

29 20. (a) No Member of or Delegate to Congress or Resident Commissioner  
30 shall be admitted to any share or part of this contract or to any benefit  
31 that may arise herefrom. This restriction shall not be construed to extend  
32 to this contract if made with a corporation or company for its general  
33 benefit.

34 (b) No official of the Contractor shall receive any benefit  
35 that may arise by reason of this contract other than as a landowner within  
36 the Project and in the same manner as other landowners within the Project.

#### 37 GENERAL PROVISIONS

38 21. The General Provisions applicable to this contract are listed  
39 below. The full text of these articles is attached as Exhibit A and is  
40 hereby made a part of this contract.

Articles 18, 19, 20, 21

- A. Assignments Limited--Successors and Assigns Limited
- B. Books, Records, and Reports
- C. Quality of Water
- D. Water and Air Pollution Control
- E. Equal Opportunity
- F. Title VI, Civil Rights Act of 1964

IN WITNESS WHEREOF, the parties hereto have signed their names  
the day and year first above written.

UNITED STATES OF AMERICA

By \_\_\_\_\_  
Regional Director, PN Region  
Bureau of Reclamation  
Box 043 - 550 West Fort Street  
Boise, Idaho 83724

BOISE WATER CORPORATION

(SEAL)

By \_\_\_\_\_

Attest:

Title: Vice President

By \_\_\_\_\_

Title: Assistant Secretary

STATE OF IDAHO       )  
                          : ss  
County of Ada        )

On this \_\_\_\_\_ day of \_\_\_\_\_, 198\_\_, personally appeared before me \_\_\_\_\_, to me known to be the official of the United States of America that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of said United States, for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument.

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

(SEAL)

\_\_\_\_\_  
Notary Public in and for the  
State of Idaho  
Residing at Boise

My commission expires:

\* \* \* \* \*

STATE OF IDAHO       )  
                          : ss  
County of Ada        )

On this \_\_\_\_\_ day of \_\_\_\_\_, 198\_\_, before me \_\_\_\_\_, a Notary Public, personally appeared \_\_\_\_\_ and \_\_\_\_\_, known to me to be respectively the Vice President and Assistant Secretary of the Boise Water Corporation, and the persons who executed the within instrument on behalf of said corporation, and acknowledged to me that said corporation executed the same.

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

(SEAL)

\_\_\_\_\_  
Notary Public in and for the  
State of Idaho  
Residing at \_\_\_\_\_

My commission expires:

GENERAL PROVISIONS -- BOISE PROJECT, IDAHO

EXHIBIT A

Contract No. 3-07-10-W0502 between the United States of America and the Boise Water Corporation, hereinafter called the Contractor.

Assignment Limited--Successors and Assigns Obligated

A. The provisions of this contract shall apply to and bind the successors and assigns of the parties hereto, but no assignment or transfer of this contract or any part or interest therein shall be valid until approved by the Contracting Officer.

Books, Records, and Reports

B. The Contractor shall establish and maintain accounts and other books and records pertaining to its financial transactions, land use and crop census, water supply, water use, changes of project works, and to other matters as the Contracting Officer may require. Reports thereon shall be furnished to the Contracting Officer in such form and on such date or dates as he may require. Subject to applicable Federal laws and regulations, each party shall have the right during office hours to examine and make copies of each other's books and records relating to matters covered by this contract.

Quality of Water

C. The operation and maintenance of project facilities shall be performed in such manner as is practicable to maintain the quality of raw water made available through such facilities at the highest level reasonably attainable as determined by the Contracting Officer. The United States does not warrant the quality of water and is under no obligation to construct or furnish water treatment facilities to maintain or better the quality of water.

Water and Air Pollution Control

D. The Contractor, in carrying out this contract, shall comply with all applicable water and air pollution laws and regulations of the United States and the State of Idaho and shall obtain all required permits or licenses from the appropriate Federal, State, or local authorities.

Equal Opportunity  
(Federal Construction)

E. During the performance of this contract, the Contractor agrees as follows:

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Contracting Officer setting forth the provisions of this nondiscrimination clause.
- (2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without discrimination because of race, color, religion, sex, or national origin.
- (3) The Contractor will send to each labor union or representative of workers, with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the Contracting Officer, advising the said labor union or workers' representative of the Contractor's commitments under Section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The Contractor will furnish all information and reports required by said amended Executive Order and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to its books, records, and accounts by the Contracting Officer and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the such rules, regulations, or orders, this contract may be canceled, terminated, or suspended, in whole or in part, and the Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in said amended Executive Order, and such other sanctions may be imposed and remedies invoked as provided in said Executive Order, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The Contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by the rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of said amended Executive Order, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

TITLE VI, CIVIL RIGHTS ACT OF 1964  
(not applicable if Contractor is actual water user)

F. (1) The Contractor agrees that it will comply with Title VI of the Civil Rights Act of July 2, 1964 (78 Stat. 241), and all requirements imposed by or pursuant to the Department of the Interior Regulation (43 CFR 17) issued pursuant to that title, to the end that, in accordance with Title VI of that Act and the Regulation, no person in the United States shall, on the ground of race, color or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Contractor receives financial assistance from the United States and hereby gives assurance that it will immediately take any measures to effectuate this agreement.

(2) If any real property or structure thereon is provided or improved with the aid of Federal financial assistance extended to the Contractor by the United States, this assurance obligates the Contractor, or in the case of any transfer of such property, any transferee for the period during which the real property or structure is used for a purpose involving the provision of similar services or benefits. If any personal property is so provided, this assurance obligates the Contractor for the period during which it retains ownership or possession of the property. In all other cases, this assurance obligates the Contractor for the period during which the Federal financial assistance is extended to it by the United States.

(3) This assurance is given in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts, property, discounts, or other Federal financial assistance extended after the date hereof to the Contractor by the United States, including installment payments after such date on account of arrangements for Federal financial assistance which were approved before such date. The Contractor recognizes and agrees that such Federal financial assistance will be extended in reliance on the representations and agreements made in this assurance, and that the United States shall reserve the right to seek judicial enforcement of this assurance. This assurance is binding on the Contractor, its successors, transferees, and assignees hereof.



BOISE WATER CORPORATION • P.O. BOX 7488 • BOISE, IDAHO 83707 • (208) 362-1300

June 15, 1983

David B. Shaw  
Western Region Supervisor  
State of Idaho Department of Water Resources  
Western Region  
92 South Cole Road  
Boise, Idaho 83709

Dear Dave:

Enclosed herewith is one copy of the initial report prepared by Anderson & Kelly, Inc. which was previously submitted to Glen Saxton plus two copies of an addendum to said report also prepared by Anderson & Kelly, Inc. These reports were prepared in compliance with Condition 5 of the Memorandum Decision and Order issued on January 5, 1982, for Transfer No. 2608 on License No. 63-2892.

After you have had an opportunity to review these reports, we would appreciate the opportunity to meet with you and discuss the findings.

If you have any questions, please let me know.

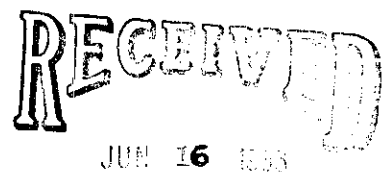
Sincerely yours,

BOISE WATER CORPORATION

Robert P. Walker, P.E.  
District Engineer

RPW:cm  
Enclosures

cc: W. L. Booe  
G. B. Flegal, Jr.



Department of Water Resources  
Western Region Office



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS  
Governor

A. KENNETH DUNN  
Director

Mailing address:  
Statehouse  
Boise, Idaho 83720  
(208) 334-4440

April 18, 1983

MEMO

TO: Glen Saxton, Operations Bureau  
WTO  
FROM: William Ondrechen, Hydrology Section  
SUBJECT: REVIEW OF ANDERSON & KELLY REPORT ON HYDRAULIC  
INTERCONNECTION OF BOISE WATER CORP. RANNEY  
COLLECTOR WELLS AND THE BOISE RIVER

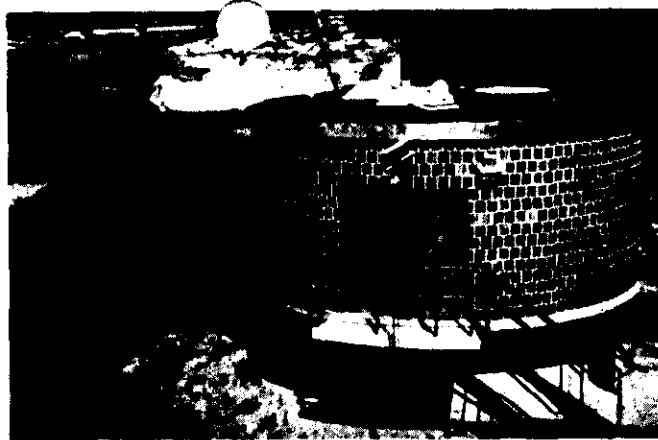
In general, the data presented in the report showed that the water pumped from the Ranney collector well is shallow groundwater and not directly from the Boise River. Given the geologic conditions in the area and the close proximity of the collector well to the river, the conclusion that no hydraulic connection exists between the two seems implausible unless the relative magnitudes of the river discharge and collector discharge are considered. Flows of the river during the August 1 to December 31, 1982 period varied from 170 to over 2600 cfs while collector discharge was only 3.6 to 5.1 cfs.

Because the well pumpage is very small relative to the river and groundwater gain to the river, it is unlikely that a 'direct' connection would be detectable. Measurements of groundwater gain to the Boise River made by the USGS at base flow conditions (Characteristics of Streamflow and Ground-Water Conditions in the Boise River Valley, Idaho, USGS Water Resource Investigation 38-74) showed a 26 cfs gain to the river between the Fairview Bridge and East 47th Street in Garden City. The implicit conclusion in the A & K report is that the collector well and the river are not in direct connection -- that is, pumpage from the well is not inducing significant quantities of river water to flow into the well. Another way of stating the effect of the well might be: The well is pumping water which becomes groundwater gain to the Boise River. The cumulative effect of the pumpage is probably reduced groundwater gain to the river throughout an entire reach and over a long period of time. However, these effects are distributed in both time and space such that the collector well does not affect the river in a manner identical to surface water diversion.

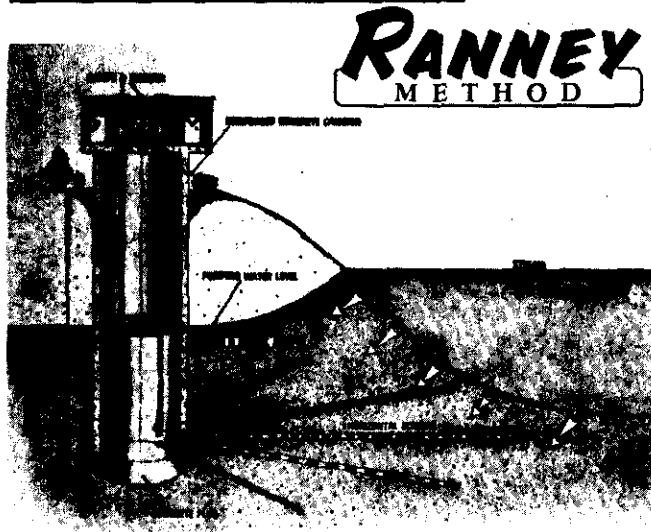
Ranney collector wells are designed to be located near a supply of surface water. Water Resource Engineering by Linsley and Franzini mentions their use as follows: "Radial wells have been installed adjacent to streams where they serve to increase percolation from the stream to the groundwater."

WO:mb





## Get **LOW COST GROUND WATER** with **RADIAL COLLECTOR WELLS** by



**MUNICIPALITIES and INDUSTRIES** have long depended upon Ranney radial collector wells as an assured source of high volume, clear, cool ground water. This system uses one small pump house and a network of horizontal perforated collector screens each up to 300 ft. in length.

**LOWER OPERATING COSTS** result from the concentration of the water collection system into one unit. Less land is needed, feeder lines and connections are simplified and less auxiliary equipment is used for a given capacity. Larger and more efficient pumps are used for further economy of operation. Often Ranney can successfully develop a supply of water at a suitable site, of a quality and quantity not usually economically feasible by using conventional multiple well methods.

Ranney has been active in water development for Municipalities and Industries since 1933. Our motto, "**Creative Water Engineering since 1933**" is proven by successful installation of **Radial Ground Water Collectors, Raw Water Intakes, Infiltration Galleries, and Artificial Recharge Systems**, world wide. Also contact Ranney for information about the revolutionary new **Vyredox** method of removing iron and manganese from ground water **Organically** . . . no chemicals are used. Write or phone TODAY.

### The **RANNEY** Company

P.O. Box 72, Westerville OH 43081 Phone: 614/452-2104

Ranney Method Western Company P.O. Box 6387, Kennewick WA 98501

"Creative Water Engineering since 1933"

(Circle 35 Reader Service Coupon)

## CALENDAR

Information: Continuing Engineering Studies, College of Engineering, Cockrell Hall 2.102, The University of Texas, Austin, TX 78712. Tel: 512/471-3506 or 512/471-3396.

VANDERBILT UNIVERSITY  
MAY 17-19

**OPERATIONS, CONTROL AND MANAGEMENT OF ACTIVATED SLUDGE PLANTS, \$575.**

MAY 17-19

**MANAGEMENT OF HAZARDOUS MATERIAL RELEASES, \$575.**

Information: Continuing Engineering Education, School of Engineering, Vanderbilt University, Box 1525, Station B, Nashville, TN 37235. Tel: 615/322-2924.

UC BERKELEY EXTENSION  
MAY 24-26

**MICROPROCESSOR BACKGROUND FOR MANAGEMENT PERSONNEL, \$565.**

At the Hyatt-Rickey's Hotel, Palo Alto, CA. Information: Continuing Education in Engineering, Dept. 532N, University of California Extension, 2223 Fulton St., Berkeley, CA 94720. Tel: 415/642-4151.

UNIVERSITY OF MISSOURI-COLUMBIA  
MAY 26-27

**WIND EFFECTS ON BUILDINGS AND STRUCTURES, \$395.**

At Crown Center Hotel, Kansas City, MO. Information: Frank Seibert, Engineering Conferences, 1020 Engineering Building, University of Missouri, Columbia, MO 65211. Tel: 314/882-3266.

CANADIAN SOCIETY  
FOR CIVIL ENGINEERING  
MAY 31-JUNE 1

**WATER SUPPLY AND SANITATION FOR DEVELOPING COUNTRIES, \$250 (early registration) \$300 (late registration).**

At Colonel By Hall, University of Ottawa, Ontario, Canada. Information: Dr. E.W. Wright, 57 Sunnyside Avenue, Ottawa, Ontario, Canada K1S 0P9. Tel: 613/521-7146 or 613/233-6438.

TOURO COLLEGE  
JUNE 13-15

**INSPECTION, ACCEPTANCE & WARRANTIES, \$675.**

At MGM Grand Hotel, Reno, NV. Information: N.P. Singer, Seminar Division Office, 5th Floor South, 1120 20th St. NW, Washington, DC 20036. Tel: 202/337-700.

UNIVERSITY OF MICHIGAN  
JUNE 20-22

**FLOW VISUALIZATION TECHNIQUES: PRINCIPALS AND APPLICATIONS, \$500.**

Information: Continuing Engineering Education, 300 Chrysler Center, North Campus, Ann Arbor, MI 48109. Tel: 313/764-8490.

# BOISE WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

### HYDRAULIC STUDY

| TE | LOCATION     | STATUS | DRAW<br>DOWN | OF<br>TEMP. | RIVER<br>LEVEL | RIVER<br>TEMP. | G.P.M. | TIME   |
|----|--------------|--------|--------------|-------------|----------------|----------------|--------|--------|
| 1  | COLLECTOR #1 | ON     | 84.5         | 48.8°       | 92.4           | 42.7°          | 2500   | 10:50A |
|    | COLLECTOR #2 | OFF    | 93.3         | 48.2°       | 93.5           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.4         | 48.8°       | 94.5           |                |        |        |
| 2  | COLLECTOR #1 | ON     | 83.2         | 48.6°       | 92.5           | 42.5°          | 2550   | 9:20A  |
|    | COLLECTOR #2 | OFF    | 93.3         | 48.0°       | 93.5           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.4         | 48.5°       | 94.5           |                |        |        |
| 3  | COLLECTOR #1 | ON     | 85.0         | 48.1°       | 92.4           | 41.5°          | 2550   | 9:40A  |
|    | COLLECTOR #2 | OFF    | 93.3         | 47.6°       | 93.5           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.4         | 47.6°       | 94.4           |                |        |        |
| 4  | COLLECTOR #1 | ON     | 82.4         | 48.0°       | 92.5           | 42.0°          | 2500   | 10:10A |
|    | COLLECTOR #2 | OFF    | 93.2         | 48.0°       | 94.1           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.6         | 48.0°       | 94.1           |                |        |        |
| 5  | COLLECTOR #1 | ON     | 82.9         | 48.0°       | 92.5           | 42.0°          | 2550   | 10:00A |
|    | COLLECTOR #2 | OFF    | 93.4         | 48.0°       | 93.7           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.9         | 48.0°       | 94.8           |                |        |        |
| 6  | COLLECTOR #1 | ON     | 82.9         | —           | 92.5           | —              | 2500   | 10:00A |
|    | COLLECTOR #2 | OFF    | 93.6         | —           | 94.3           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.6         | —           | 94.2           |                |        |        |
| 7  | COLLECTOR #1 | ON     | 82.8         | 49.9°       | 92.6           | 42.6°          | 2500   | 9:45A  |
|    | COLLECTOR #2 | OFF    | 93.9         | 49.4°       | 93.7           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.6         | 50.1°       | 94.8           |                |        |        |
| 8  | COLLECTOR #1 | ON     | 82.8         | 50.7°       | 92.5           | 42.3°          | 2500   | 9:50A  |
|    | COLLECTOR #2 | OFF    | 93.6         | 50.5°       | 93.7           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.6         | 50.1°       | 94.8           |                |        |        |
| 9  | COLLECTOR #1 | ON     | 83.8         | 49.9°       | 92.4           | 42.5°          | 2500   | 9:00A  |
|    | COLLECTOR #2 | OFF    | 93.4         | 49.8°       | 93.5           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.4         | 49.8°       | 94.4           |                |        |        |
| 10 | COLLECTOR #1 | ON     | 90.3         | 49.8°       | 92.4           | 42.5°          | 2500   | 9:00A  |
|    | COLLECTOR #2 | OFF    | 93.3         | 50.4°       | 93.6           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.4         | 50.2°       | 94.4           |                |        |        |
| 11 | COLLECTOR #1 | ON     | 82.7         | 45.3°       | 92.4           | 43.1°          | 2500   | 11:15A |
|    | COLLECTOR #2 | OFF    | 93.9         | 44.9°       | 93.7           |                |        |        |
|    | COLLECTOR #3 | OFF    | 94.5         | 45.7°       | 94.8           |                |        |        |

# BOISE WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

### HYDRAULIC STUDY

| DATE | LOCATION     | STATUS | DRAW DOWN | °F TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME   |
|------|--------------|--------|-----------|----------|-------------|-------------|--------|--------|
| 12   | COLLECTOR #1 | ON     | 84.0      | 45.1°    | 92.4        | 42.7°       | 2500   | 10:45A |
|      | COLLECTOR #2 | OFF    | 93.3      | 45.0°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.6      | 47.5°    | 94.8        |             |        |        |
| 13   | COLLECTOR #1 | ON     | 83.4      | 50.0°    | 92.6        | 42.7°       | 2500   | 10:25A |
|      | COLLECTOR #2 | OFF    | 93.8      | 50.1°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.6      | 50.4°    | 94.8        |             |        |        |
| 14   | COLLECTOR #1 | ON     | 83.0      | 50.7°    | 92.6        | 43.6°       | 2500   | 10:15A |
|      | COLLECTOR #2 | OFF    | 93.8      | 50.7°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.6      | 50.2°    | 94.9        |             |        |        |
| 15   | COLLECTOR #1 | ON     | 88.6      | 49.6°    | 92.6        | 43.0°       | 2500   | 8:45A  |
|      | COLLECTOR #2 | OFF    | —         | 49.8°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.5      | 49.5°    | 94.8        |             |        |        |
| 16   | COLLECTOR #1 | OFF    | 90.4      | 50.2°    | 92.5        | 43.9°       | 1800   | 10:10A |
|      | COLLECTOR #2 | ON     | 83.0      | 50.7°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.5      | 50.8°    | 94.8        |             |        |        |
| 17   | COLLECTOR #1 | OFF    | 91.9      | 53.7°    | 92.6        | 44.0°       | 1700   | 9:40A  |
|      | COLLECTOR #2 | ON     | 82.3      | 54.1°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.7      | 53.7°    | 94.8        |             |        |        |
| 18   | COLLECTOR #1 | ON     | 85.5      | 51.0°    | 92.6        | 45.3°       | 6000   | 10:55A |
|      | COLLECTOR #2 | ON     | 84.3      | 58.2°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | ON     | 90.6      | 54.4°    | 94.9        |             |        |        |
| 19   | COLLECTOR #1 | ON     | 82.5      | 50.0°    | 92.6        | 44.9°       | 2500   | 10:10A |
|      | COLLECTOR #2 | OFF    | 93.3      | 53.4°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.7      | 54.7°    | 94.9        |             |        |        |
| 20   | COLLECTOR #1 | ON     | 84.0      | 54.1°    | 92.6        | 45.2°       | 6400   | 10:20A |
|      | COLLECTOR #2 | ON     | 84.6      | 53.1°    | 93.8        |             |        |        |
|      | COLLECTOR #3 | ON     | 90.8      | 54.7°    | 95.0        |             |        |        |
| 21   | COLLECTOR #1 | ON     | 82.8      | 53.7°    | 92.6        | 45.1°       | 2500   | 10:45A |
|      | COLLECTOR #2 | OFF    | 93.3      | 54.6°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | OFF    | 94.9      | 54.0°    | 94.9        |             |        |        |
| 22   | COLLECTOR #1 | ON     | 84.1      | 52.1°    | 92.6        | 45.9°       | 6000   | 11:15A |
|      | COLLECTOR #2 | ON     | 86.5      | 50.7°    | 93.7        |             |        |        |
|      | COLLECTOR #3 | ON     | 91.2      | 54.1     | 94.9        |             |        |        |

# BOISE WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

### HYDRAULIC STUDY

| DATE | LOCATION     | STATUS | DRAW DOWN | OF TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME               |
|------|--------------|--------|-----------|----------|-------------|-------------|--------|--------------------|
| 23   | COLLECTOR #1 | OFF    | 91.4      | 53.0°    | 92.6        | 45.9°       | —      | 12:00 <sub>N</sub> |
|      | COLLECTOR #2 | OFF    | 93.8      | 52.0°    | 93.8        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.6      | 53.4°    | 94.9        |             |        |                    |
| 24   | COLLECTOR #1 | OFF    | 91.8      | 53.3°    | 92.6        | 43.6°       | —      | 9:30 <sub>A</sub>  |
|      | COLLECTOR #2 | OFF    | 93.8      | 52.5°    | 93.7        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.6      | 54.9°    | 94.9        |             |        |                    |
| 25   | COLLECTOR #1 | ON     | 83.8      | 50.9°    | 92.6        | 44.5°       | 2500   | 10:40 <sub>A</sub> |
|      | COLLECTOR #2 | OFF    | 93.9      | 51.4°    | 93.8        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.5      | 52.6°    | 94.9        |             |        |                    |
| 26   | COLLECTOR #1 | ON     | 82.6      | 49.8°    | 92.6        | 45.3°       | 2500   | 10:50 <sub>A</sub> |
|      | COLLECTOR #2 | OFF    | 93.9      | 51.3°    | 93.8        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.6      | 52.5°    | 95.0        |             |        |                    |
| 27   | COLLECTOR #1 | ON     | 83.2      | 49.2°    | 92.6        | 45.3°       | 2500   | 10:30 <sub>A</sub> |
|      | COLLECTOR #2 | OFF    | 93.8      | 51.4°    | 93.8        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.6      | 52.3°    | 94.9        |             |        |                    |
| 28   | COLLECTOR #1 | ON     | 82.7      | 50.0°    | 92.6        | 46.2°       | 2500   | 11:20 <sub>A</sub> |
|      | COLLECTOR #2 | OFF    | 93.6      | 51.8°    | 93.8        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.6      | 52.4°    | 95.0        |             |        |                    |
| 29   | COLLECTOR #1 | ON     | 83.8      | 50.2°    | 92.6        | 45.6°       | 2500   | 10:10 <sub>A</sub> |
|      | COLLECTOR #2 | OFF    | 93.7      | 51.2°    | 93.8        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.6      | 51.6°    | 94.9        |             |        |                    |
| 30   | COLLECTOR #1 | ON     | 86.3      | 48.6°    | 92.7        | 45.6°       | 2500   | 1:30 <sub>P</sub>  |
|      | COLLECTOR #2 | OFF    | 93.9      | 50.8°    | 93.9        |             |        |                    |
|      | COLLECTOR #3 | OFF    | 94.6      | 51.2°    | 95.0        |             |        |                    |
|      | COLLECTOR #1 |        |           |          |             |             |        |                    |
|      | COLLECTOR #2 |        |           |          |             |             |        |                    |
|      | COLLECTOR #3 |        |           |          |             |             |        |                    |
|      | COLLECTOR #1 |        |           |          |             |             |        |                    |
|      | COLLECTOR #2 |        |           |          |             |             |        |                    |
|      | COLLECTOR #3 |        |           |          |             |             |        |                    |
|      | COLLECTOR #1 |        |           |          |             |             |        |                    |
|      | COLLECTOR #2 |        |           |          |             |             |        |                    |
|      | COLLECTOR #3 |        |           |          |             |             |        |                    |

Weekly Production Records  
 Ranney Collectors No. 1, 2  
 Boise Water Corporation

11-6-83

JUN 10 1983

| <u>Month</u>   | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<sup>2</sup><br/>Peak Production<br/>CFS</u> |
|----------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------------------|
| <u>May '83</u> |                                               |                                                  |                                                  |                                                    |                                        |                                                              |
| 5/1-5/7        | 9.14                                          | 63.5                                             | 5.35                                             | 5/4<br>3.790                                       | 5.86                                   | 5/4<br>13.36                                                 |
| 5/8-5/14       | 11.43                                         | 73.0                                             | 5.82                                             | 5/14<br>4.798                                      | 7.42                                   | 5/14<br>10.57                                                |
| 5/15-5/21      | 28.90                                         | 113.0                                            | 9.50                                             | 5/21<br>7.843                                      | 12.13                                  | 5/20<br>15.02                                                |
| 5/22-5/28      | 49.00                                         | 150.5                                            | 12.09                                            | 5/27<br>7.804                                      | 12.07                                  | 5/25<br>15.21                                                |

Maximum Day Production Corrected to 24 hrs.

Weekly Production Records  
 Manney Collectors No. 1, 2 & 3  
 Boise Water Corporation

RECEIVED

JUL 27 1983

| <u>Month</u> | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Water<br/>Production<br/>CFS</u> |
|--------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|------------------------------------------------------------|
| June 1983    |                                               |                                                  |                                                  |                                                    |                                        |                                                            |
| 5/29-6/4     | 42.04                                         | 152.5                                            | 10.24                                            | 5/30<br>7.920                                      | 12.25                                  | 5/29<br>14.28                                              |
| 6/5-6/11     | 36.15                                         | 140.0                                            | 9.59                                             | 6/7<br>8.505                                       | 13.16                                  | 6/7<br>13.91                                               |
| 6/12-6/18    | 44.46                                         | 154.0                                            | 10.72                                            | 6/16<br>7.959                                      | 12.31                                  | 6/15<br>14.65                                              |
| 6/19-6/25    | 41.72                                         | 136.0                                            | 11.39                                            | 6/22<br>8.150                                      | 12.61                                  | 6/21<br>14.47                                              |

<sup>1</sup> Maximum Day Production Corrected to 24 hrs.

Weekly Production Records  
 Ranney Collectors No. 1, 2 & 3  
 Boise Water Corporation

RECEIVED

SEP 15 1983

| Month           | Total<br>Weekly<br>Production<br>MG | No. of Hrs.<br>of Operation<br>Per Week | Average<br>Weekly<br>Production<br>CFS | Max. Day <sup>1</sup><br>Production<br>MGD | Department of Water Resources |                                         |
|-----------------|-------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------|-----------------------------------------|
|                 |                                     |                                         |                                        |                                            | Max. Day<br>Production<br>CFS | Instantaneous<br>Peak Production<br>CFS |
| <u>July '83</u> |                                     |                                         |                                        |                                            |                               |                                         |
| 6/26-7/2        | 26.68                               | 108.0                                   | 9.18                                   | 6/30<br>7.542                              | 11.67                         | 6/27<br>14.84                           |
| 7/3-7/9         | 30.37                               | 91.0                                    | 12.40                                  | 7/7<br>7.647                               | 11.83                         | 7/4<br>14.84                            |
| 7/10-7/16       | 26.94                               | 102.5                                   | 9.76                                   | 7/12<br>6.628                              | 10.25                         | 7/12<br>15.39                           |
| 7/17-7/23       | 36.79                               | 130.5                                   | 10.47                                  | 7/21<br>7.887                              | 12.20                         | 7/18<br>14.65                           |
| 7/24-7/30       | 43.91                               | 145.0                                   | 11.25                                  | 7/24<br>7.880                              | 12.19                         | 7/28<br>14.47                           |

Maximum Day Production Corrected to 24 hrs.

Weekly Production Records  
Ranney Collectors No. 1, 2 & 3  
Boise Water Corporation

| <u>Month</u>    | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|-----------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>Aug. '83</u> |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 7/31-8/6        | 46.15                                         | 154.0                                            | 11.13                                            | 8/1<br>7.466                                       | 11.55                                  | 8/1<br>14.47                                     |
| 8/7-8/13        | 38.63                                         | 130.0                                            | 11.04                                            | 8/8<br>7.695                                       | 11.90                                  | 8/8<br>14.47                                     |
| 8/14-8/20       | 38.01                                         | 137.5                                            | 10.27                                            | 8/14<br>8.438                                      | 13.05                                  | 8/14<br>14.28                                    |
| 8/21-8/27       | 37.96                                         | 148.5                                            | 9.49                                             | 8/26<br>7.134                                      | 11.04                                  | 8/26<br>14.10                                    |

Maximum Day Production Corrected to 24 hrs.

WMPD

Weekly Production Records  
Ranney Collectors No. 1, 2 &  
Boise Water Corporation

Shaw DBS  
File 63-2892 S.O.

| <u>Month</u> | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|--------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| Sept. 1983   |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 8/28-9/3     | 29.53                                         | 107.0                                            | 10.25                                            | 8/30<br>5.520                                      | 8.54                                   | 8/30<br>14.48                                    |
| 9/4-9/10     | 36.32                                         | 134.0                                            | 10.07                                            | 9/6<br>5.204                                       | 8.05                                   | 9/6<br>15.21                                     |
| 9/11-9/17    | 36.87                                         | 139.0                                            | 9.85                                             | 9/12<br>4.609                                      | 7.13                                   | 9/16<br>15.02                                    |
| 9/18-9/24    | 31.42                                         | 123.0                                            | 9.49                                             | 9/21<br>5.471                                      | 8.46                                   | 9.24<br>15.77                                    |

Maximum Day Production Corrected to 24 hrs.

RECORDED

Weekly Production Records  
Ranney Collectors No. 1, 2 & 3  
Boise Water Corporation

| <u>Month</u> | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|--------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| Oct. 1983    |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 9/25-10/1    | 23.45                                         | 107.0                                            | 8.14                                             | 9/25<br>5.187                                      | 8.02                                   | 9/25<br>16.14                                    |
| 10/2-10/8    | 19.61                                         | 95.0                                             | 7.67                                             | 10/6<br>3.818                                      | 5.91                                   | 10/7<br>10.39                                    |
| 10/9-10/15   | 11.26                                         | 76.5                                             | 5.47                                             | 10/10<br>2.469                                     | 3.82                                   | 10/12<br>10.39                                   |
| 10/16-10/22  | 9.39                                          | 66.5                                             | 5.24                                             | 10/17<br>2.489                                     | 3.85                                   | 10/20<br>6.49                                    |
| 10/23-10/29  | 7.04                                          | 53.5                                             | 4.89                                             | 10/24<br>2.418                                     | 3.74                                   | 10/27<br>5.94                                    |

Maximum Day Production Corrected to 24 hrs.

RECEIVED  
OCT 31 1983

Weekly Production Records  
 Ranney Collectors No. 1, 2 & 3  
 Boise Water Corporation

| <u>Month</u>     | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>Nov. 1983</u> |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 10/30-11/5       | 6.14                                          | 40.0                                             | 5.70                                             | 11/2<br>2.707                                      | 4.19                                   | 11/1<br>7.23                                     |
| 11/6-11/12       | 3.26                                          | 23.5                                             | 5.15                                             | 11/7<br>2.283                                      | 3.53                                   | 11/7<br>6.12                                     |
| 11/13-11/19      | 3.67                                          | 26.5                                             | 5.14                                             | 11/14<br>2.432                                     | 3.76                                   | 11/16<br>5.75                                    |
| 11/20-11/26      | 5.02                                          | 34.5                                             | 5.40                                             | 11/21<br>2.366                                     | 3.66                                   | 11/26<br>6.12                                    |

Maximum Day Production Corrected to 24 hrs.

**RECEIVED**

Weekly Production Records  
Ranney Collectors No. 1, 2 & -  
Boise Water Corporation

| <u>Month</u>     | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>Dec. 1983</u> |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 11/27-12/3       | 5.42                                          | 36.5                                             | 5.52                                             | 11/28<br>2.410                                     | 3.73                                   | 11/27<br>6.31                                    |
| 12/4-12/10       | 9.80                                          | 67.5                                             | 5.39                                             | 12/7<br>2.674                                      | 4.14                                   | 12/8<br>6.86                                     |
| 12/11-12/17      | 10.04                                         | 69.0                                             | 5.40                                             | 12/12<br>2.450                                     | 3.79                                   | 12/17<br>5.94                                    |
| 12/18-12/24      | 11.13                                         | 73.5                                             | 5.62                                             | 12/24<br>2.782                                     | 4.30                                   | 12/24<br>6.49                                    |
| 12/25-12/31      | 12.63                                         | 83.5                                             | 5.62                                             | 12/31<br>2.534                                     | 3.92                                   | 12/30<br>6.31                                    |

Maximum Day Production Corrected to 24 hrs.

Weekly Production Records  
Ranney Collectors No. 1, 2 & 3  
Boise Water Corporation

| <u>Month</u>    | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|-----------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>February</u> |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 1/30-2/5        | 11.59                                         | 75.0                                             | 5.74                                             | Feb. 1<br>3.062                                    | 4.74                                   | Feb. 4<br>4.64                                   |
| 2/6-2/12        | 9.38                                          | 83.0                                             | 4.20                                             | Feb. 6<br>2.991                                    | 4.63                                   | Feb. 12<br>5.01                                  |
| 2/13-2/19       | 10.11                                         | 87.0                                             | 4.32                                             | Feb. 15<br>2.766                                   | 4.28                                   | Feb. 18<br>5.38                                  |
| 2/20-2/26       | 10.80                                         | 96.0                                             | 4.18                                             | Feb. 24<br>2.733                                   | 4.23                                   | Feb. 21<br>5.01                                  |

Maximum Day Production Corrected to 24 hrs.

RECEIVED  
FEB 27 1967

Weekly Production Records  
 Ranney Collectors No. 1, 2  
 Boise Water Corporation

RECEIVED

APR 12 1983

| Month       | Total<br>Weekly<br>Production<br>MG | No. of Hrs.<br>of Operation<br>Per Week | Average<br>Weekly<br>Production<br>CFS | Max. Day <sup>1</sup><br>Production<br>MGD | Max. Day<br>Production<br>CFS | Instantaneous<br>Peak Production<br>CFS |
|-------------|-------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------|-----------------------------------------|
| March       |                                     |                                         |                                        |                                            |                               |                                         |
| 2/27 - 3/5  | 10.96                               | 95                                      | 4.28                                   | 3/3<br>2.008                               | 3.11                          | 2/28<br>7.23                            |
| 3/6 - 3/12  | 13.31                               | 77                                      | 6.42                                   | 3/11<br>4.602                              | 7.12                          | 3/12<br>10.57                           |
| 3/13 - 3/19 | 10.90                               | 77                                      | 5.26                                   | 3/18<br>2.245                              | 3.47                          | 3/13<br>12.80                           |
| 3/20 - 3/26 | 9.16                                | 57.5                                    | 5.92                                   | 3/21<br>2.512                              | 3.89                          | 3/26<br>11.68                           |

Maximum Day Production Corrected to 24 hrs.

RECEIVED

Weekly Production Records  
Ranney Collectors No. 1, 2  
Boise Water Corporation

RECEIVED

MAY 26 1983

| Month        | Total<br>Weekly<br>Production<br>MG | No. of Hrs.<br>of Operation<br>Per Week | Average<br>Weekly<br>Production<br>CFS | Max. Day <sup>1</sup><br>Production<br>MGD | Max. Day<br>Production<br>CFS | Instantaneous<br>Peak Production <sup>2</sup><br>CFS |
|--------------|-------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------|------------------------------------------------------|
| <u>April</u> |                                     |                                         |                                        |                                            |                               |                                                      |
| 3/27-4/2     | 10.06                               | 66.5                                    | 5.62                                   | 4/1<br>3.856                               | 5.97                          | 3/27<br>7.23                                         |
| 4/3-4/9      | 11.78                               | 77.5                                    | 5.63                                   | 4/8<br>4.130                               | 6.39                          | 4/6<br>6.31                                          |
| 4/10-4/16    | 14.11                               | 75.0                                    | 6.99                                   | 4/14<br>4.260                              | 6.59                          | 4/15<br>10.39                                        |
| 4/17-4/23    | 17.81                               | 76.0                                    | 8.70                                   | 4/20<br>6.543                              | 10.12                         | 4/20<br>14.10                                        |
| 4/24-4/30    | 11.31                               | 79.5                                    | 5.28                                   | 4/25<br>3.856                              | 5.97                          | 4/25<br>6.12                                         |

1.55 CFS = 1 MGD

Maximum Day Production Corrected to 24 hrs.

RECEIVED

MAY 26 1983

Department of Water Resources  
Western Regional Office

Weekly Production Records  
Ranney Collectors No. 1, 2 & 3  
Boise Water Corporation

63-2892

| <u>Month</u>   | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|----------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>January</u> |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 12/26-1/1      | 9.53                                          | 76.5                                             | 4.63                                             | Dec. 26<br>4.193                                   | 6.49                                   | Dec. 30<br>5.56                                  |
| 1/2-1/8        | 10.37                                         | 90.0                                             | 4.28                                             | Jan. 7<br>2.850                                    | 4.41                                   | -                                                |
| 1/9-1/15       | 9.81                                          | 84.0                                             | 4.34                                             | Jan. 14<br>3.320                                   | 5.14                                   | -                                                |
| 1/16-1/22      | 9.76                                          | 100.0                                            | 3.62                                             | Jan. 20<br>2.750                                   | 4.26                                   | Jan. 21<br>4.64                                  |
| 1/23-1/29      | 11.52                                         | 98.5                                             | 4.34                                             | Jan. 25<br>3.233                                   | 5.00                                   | -                                                |

RECEIVED

MAR 10 1983

Department of Water Resources

Maximum Day Production Corrected to 24 hrs.

UNRECORDED



BOISE WATER CORPORATION • P.O. BOX 7488 • BOISE, IDAHO 83707 • (208) 362-1300

RECEIVED

I would like to see the data for the 3, 4, 5 plots together  
MAR 15 1983  
I would like to see the data for the 3, 4, 5 plots together

① Dave Shaw  
② Norm Y  
March 15, 1983

Glen —  
Have hydrology section analyze this report. I assume A-K will add on analysis of data + conclusions section to this report when the spring '83 data is available.

L. Glen Saxton  
Chief, Operations Bureau  
State of Idaho  
Department of Water Resources  
Statehouse  
Boise, Idaho 83720

Dear Mr. Saxton:

Enclosed herewith is a copy of the report prepared by Anderson & Kelly, Inc. This report was prepared in order to comply with Condition 5 of the Memorandum Decision and Order issued on January 5, 1982, for Transfer No. 2608 on License No. 63-2892.

After you have had an opportunity to review this report, we would appreciate the opportunity to meet with you and discuss the findings. In the meantime, if you have any questions, please let me know.

Sincerely,

BOISE WATER CORPORATION

Robert P. Walker

Robert P. Walker, P.E.  
District Engineer

RPW:cm  
Enclosure

cc: G. B. Flegal, Jr.

RECEIVED  
MAR 15 1983

Department of Water Resources  
Western Regional Office

STUDY/PROJECT REQUEST

TO: Alan R.

FROM: Glen S.

Date Initiated 3-28-83

Requested Completion Date In two weeks

TITLE: Boise R - Ranney Collector  
interconnection.

PROBLEM AND/OR PURPOSE: See cond. 5. of attached  
pg 4 of Memo, Dec. & Order.

SCOPE (level or extent of detail): Brief Analysis

DESCRIPTIONS OF WORK REQUESTED:

1. Analyze Anderson & Kelly report  
to determine the extent of  
hydraulic interconnection  
between div. of water thru  
the Ranney Collector & waters  
of the Boise River.

2. Memo of analysis conclusions

REQUEST ORIGINATOR: \_\_\_\_\_

TYPE OF REPORT: \_\_\_\_\_

DISPLAY TABLES: YES \_\_\_\_\_ NO \_\_\_\_\_ If appropriate

ANTICIPATED MAN-DAY EFFORT: 1

APPROVED BY: \_\_\_\_\_

ASSIGNED TO: \_\_\_\_\_ DATE: \_\_\_\_\_

ACTUAL MAN-DAYS: \_\_\_\_\_

CC: of Request to Wayne

February 1, 1983

Robert P. Walker  
District Engineer  
Boise Water Corporation  
P. O. Box 7488  
Boise, ID 83707

Dear Mr. Walker:

Re: Transfer No. 2608 on License No. 63-2892

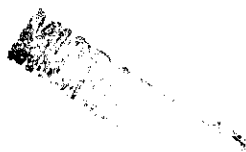
This office acknowledges receipt of the weekly production records from Ramsey Collectors No. 1, 2 & 3. The Department will expect to receive similar data on an on-going basis to comply with condition 4 in the Memorandum Decision and Order issued on January 5, 1982.

Your transmittal letter of January 4, 1983 did not address Boise Water Corporation's study effort to comply with condition 6 of the Memorandum Decision and Order. Please advise us of the nature of study underway in order that our file will be up to date.

Sincerely,

L. GLEN SAXTON  
Chief, Operations Bureau

LGS:rf





BOISE WATER CORPORATION • P.O. BOX 7488 • BOISE, IDAHO 83707 • (208) 362-1300

DRS  
**RECEIVED**

JAN 25 1983

Department of Water Resources

January 24, 1983

State of Idaho  
Department of Water Resources  
Statehouse  
450 West State Street  
Boise, Idaho 83720

Attention: L. Glen Saxton  
Chief, Operations Bureau

Gentlemen:

RE: Transfer No. 2605 on License No. 63-2892

In accordance with the Memorandum Decision and Order contained within the above referenced application for transfer, we are enclosing copies of the weekly production records from Ranney Collectors No. 1, 2 and 3 for the period between May 5, 1982 and December 25, 1982. These are combined production records for the three original collectors located near the Warm Springs Golf Course. The new collector located within the Veterans State Park was not completed in time to be utilized during 1982.

If you have any questions or need additional information, please let us know.

Sincerely yours,

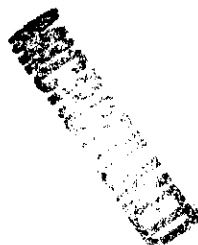
BOISE WATER CORPORATION

*Robert P. Walker*

Robert P. Walker  
District Engineer

RPW:cm  
Enclosures

cc: W. L. Booe  
K. Anderson



# BOISE - WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

### HYDRAULIC STUDY

1983

| DATE       | LOCATION     | STATUS | DRAW DOWN | °F TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME  |
|------------|--------------|--------|-----------|----------|-------------|-------------|--------|-------|
| Jan.<br>01 | COLLECTOR #1 | ON     | 89.2      | 52.6°    | 90.1        | 38.1°       | 1850   | 9:30  |
|            | COLLECTOR #2 | OFF    | 89.8      | 45.8°    | 90.8        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.2      | 52.9°    | 91.3        |             |        |       |
| Jan.<br>02 | COLLECTOR #1 | ON     | 80.8      | 52.4°    | 90.1        | 38.0°       | 1850   | 11:25 |
|            | COLLECTOR #2 | OFF    | 89.8      | 45.8°    | 90.8        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.2      | 52.8°    | 91.3        |             |        |       |
| Jan.<br>03 | COLLECTOR #1 | ON     | 79.9      | 50.9°    | 90.1        | 37.6°       | 1900   | 10:25 |
|            | COLLECTOR #2 | OFF    | 89.8      | 44.4°    | 90.7        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.2      | 52.9°    | 91.3        |             |        |       |
| Jan.<br>04 | COLLECTOR #1 | ON     | 80.3      | 50.8°    | 90.1        | 37.9°       | 1900   | 9:40  |
|            | COLLECTOR #2 | OFF    | 89.8      | 44.0°    | 90.8        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.2      | 52.5°    | 91.3        |             |        |       |
| Jan.<br>05 | COLLECTOR #1 | ON     | 80.1      | 51.0°    | 90.1        | 38.8°       | 1900   | 9:50  |
|            | COLLECTOR #2 | OFF    | 89.8      | 44.6°    | 90.7        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.2      | 52.5°    | 91.2        |             |        |       |
| Jan.<br>06 | COLLECTOR #1 | ON     | 80.2      | 51.0°    | 90.2        | 38.7°       | 1900   | 9:55  |
|            | COLLECTOR #2 | OFF    | 89.8      | 44.4°    | 90.8        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.2      | 52.5°    | 91.4        |             |        |       |
| Jan.<br>07 | COLLECTOR #1 | ON     | 79.7      | 50.4°    | 90.6        | 38.8°       | 1900   | 10:10 |
|            | COLLECTOR #2 | OFF    | 90.2      | 44.4°    | 91.3        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.7      | 52.3°    | 91.9        |             |        |       |
| Jan.<br>08 | COLLECTOR #1 | ON     | 80.2      | 50.7°    | 90.6        | 38.8°       | 1925   | 10:30 |
|            | COLLECTOR #2 | OFF    | 90.3      | 44.0°    | 91.2        |             |        |       |
|            | COLLECTOR #3 | OFF    | 91.8      | 52.2°    | 91.7        |             |        |       |
| Jan.<br>09 | COLLECTOR #1 | ON     | 80.8      | 49.6°    | 90.9        | 38.5°       | 1900   | 11:30 |
|            | COLLECTOR #2 | OFF    | 90.8      | 44.1°    | 91.6        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 52.2°    | 92.3        |             |        |       |
| Jan.<br>10 | COLLECTOR #1 | ON     | 82.0      | 49.2°    | 90.9        | 37.9°       | 1900   | 10:00 |
|            | COLLECTOR #2 | OFF    | 91.0      | 44.2°    | 91.6        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 52.0°    | 92.2        |             |        |       |
| Jan.<br>11 | COLLECTOR #1 | ON     | 82.2      | 49.6°    | 90.9        | 37.5°       | 1900   | 9:35  |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.9°    | 91.6        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 52.0°    | 92.2        |             |        |       |

# BOISE - WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

### HYDRAULIC STUDY

1983

| DATE       | LOCATION     | STATUS | DRAW DOWN | TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME  |
|------------|--------------|--------|-----------|-------|-------------|-------------|--------|-------|
| Jan.<br>12 | COLLECTOR #1 | ON     | 82.0      | 49.1° | 90.9        | 37.4°       | 1900   | 10:00 |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.4° | 91.6        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.5° | 92.2        |             |        |       |
| Jan.<br>13 | COLLECTOR #1 | ON     | 82.2      | 49.1° | 90.9        | 37.2°       | 1900   | 9:30  |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.4° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.9° | 92.2        |             |        |       |
| Jan.<br>14 | COLLECTOR #1 | ON     | 82.0      | 48.6° | 90.9        | 37.0°       | 1900   | 9:55  |
|            | COLLECTOR #2 | OFF    | 91.1      | 42.1° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.7° | 92.2        |             |        |       |
| Jan.<br>15 | COLLECTOR #1 | ON     | 80.4      | 49.0° | 90.9        | 37.2°       | 1900   | 12:30 |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.1° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.8° | 92.2        |             |        |       |
| Jan.<br>16 | COLLECTOR #1 | ON     | 80.4      | 48.5° | 90.9        | 37.6°       | 1900   | 2:00  |
|            | COLLECTOR #2 | OFF    | 90.6      | 43.3° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.6° | 92.3        |             |        |       |
| Jan.<br>17 | COLLECTOR #1 | ON     | 82.0      | 47.8° | 90.9        | 37.2°       | 1900   | 10:15 |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.0° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.6° | 92.2        |             |        |       |
| Jan.<br>18 | COLLECTOR #1 | ON     | 82.0      | —     | 90.9        | 37.3°       | 1900   | 10:15 |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.3° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.5° | 92.2        |             |        |       |
| Jan.<br>19 | COLLECTOR #1 | ON     | 81.5      | 48.3° | 90.9        | 37.5°       | 1900   | 10:10 |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.3° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.4° | 92.2        |             |        |       |
| Jan.<br>20 | COLLECTOR #1 | ON     | 81.4      | 48.4° | 90.9        | 37.4°       | 1900   | 9:45  |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.4° | 91.5        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.1° | 92.2        |             |        |       |
| Jan.<br>21 | COLLECTOR #1 | ON     | 81.2      | 47.7° | 91.2        | 37.6°       | 1900   | 10:10 |
|            | COLLECTOR #2 | OFF    | 91.4      | 43.3° | 92.0        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.5      | 51.3° | 92.6        |             |        |       |
| Jan.<br>22 | COLLECTOR #1 | ON     | 80.3      | 48.2° | 91.1        | 37.3°       | 1900   | 12:10 |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.3° | 91.7        |             |        |       |
|            | COLLECTOR #3 | OFF    | 92.2      | 51.0° | 92.4        |             |        |       |

# BOISE - WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

1983

### HYDRAULIC STUDY

| DATE       | LOCATION     | STATUS | DRAW DOWN | TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME   |
|------------|--------------|--------|-----------|-------|-------------|-------------|--------|--------|
| Jan.<br>23 | COLLECTOR #1 | ON     | 82.0      | 48.1° | 91.1        | 37.5°       | 1900   | 11:00A |
|            | COLLECTOR #2 | OFF    | 91.2      | 43.0° | 91.8        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.3      | 51.4° | 92.5        |             |        |        |
| Jan.<br>24 | COLLECTOR #1 | ON     | 82.0      | 47.3° | 91.1        | 37.6°       | 19:50  | 10:10A |
|            | COLLECTOR #2 | OFF    | 91.6      | 43.0° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.5      | 51.1° | 92.6        |             |        |        |
| Jan.<br>25 | COLLECTOR #1 | ON     | 82.2      | 47.5° | 91.1        | 37.3°       | 1900   | 10:10A |
|            | COLLECTOR #2 | OFF    | 91.6      | 43.6° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.5      | 51.1° | 92.5        |             |        |        |
| Jan.<br>26 | COLLECTOR #1 | ON     | 82.4      | 47.0° | 91.1        | 37.6°       | 5700   | 10:20A |
|            | COLLECTOR #2 | ON     | 82.6      | 43.2° | 91.9        |             |        |        |
|            | COLLECTOR #3 |        | 87.6      | 48.3° | 92.6        |             |        |        |
| Jan.<br>27 | COLLECTOR #1 | ON     | 82.2      | 47.2° | 91.1        | 39.9°       | 1900   | 10:00A |
|            | COLLECTOR #2 | OFF    | 91.7      | 43.3° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.6      | 49.0° | 92.6        |             |        |        |
| Jan.<br>28 | COLLECTOR #1 | ON     | 81.0      | 47.0° | 91.1        | 37.5°       | 1900   | 10:50A |
|            | COLLECTOR #2 | OFF    | 91.6      | 44.0° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.7      | 50.2° | 92.6        |             |        |        |
| Jan.<br>29 | COLLECTOR #1 | ON     | 81.2      | 47.1° | 91.1        | 37.8°       | 1950   | 11:45A |
|            | COLLECTOR #2 | OFF    | 91.7      | 43.8° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.7      | 50.0° | 92.6        |             |        |        |
| Jan.<br>30 | COLLECTOR #1 | ON     | 84.0      | 47.2° | 91.1        | 37.6°       | 1950   | 10:10A |
|            | COLLECTOR #2 | OFF    | 91.6      | 43.3° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.6      | 49.8° | 92.6        |             |        |        |
| Jan.<br>31 | COLLECTOR #1 | ON     | 82.2      | 45.6° | 91.1        | 37.0°       | 1950   | 10:20A |
|            | COLLECTOR #2 | OFF    | 91.4      | 42.3° | 91.8        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.7      | 50.3° | 92.6        |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |
|            | COLLECTOR #1 |        |           |       |             |             |        |        |
|            | COLLECTOR #2 |        |           |       |             |             |        |        |
|            | COLLECTOR #3 |        |           |       |             |             |        |        |

# BOISE WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

1983

### HYDRAULIC STUDY

| DATE       | LOCATION     | STATUS | DRAW DOWN | TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME   |
|------------|--------------|--------|-----------|-------|-------------|-------------|--------|--------|
| Feb.<br>02 | COLLECTOR #1 | ON     | 81.5      | 46.4° | 91.1        | 37.2°       | 1900   | 11:40A |
|            | COLLECTOR #2 | OFF    | 91.6      | 43.2° | 92.0        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.6      | 50.4° | 92.6        |             |        |        |
| Feb.<br>03 | COLLECTOR #1 | ON     | 82.6      | 45.6° | 91.1        | 36.0°       | 1950   | 10:00, |
|            | COLLECTOR #2 | OFF    | 91.5      | 43.2° | 92.0        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.6      | 50.3° | 92.6        |             |        |        |
| Feb.<br>04 | COLLECTOR #1 | ON     | 82.8      | 45.5° | 91.1        | 35.7°       | 1950   | 10:00A |
|            | COLLECTOR #2 | OFF    | 91.4      | 42.1° | 92.0        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.6      | 50.3° | 92.6        |             |        |        |
| Feb.<br>05 | COLLECTOR #1 | ON     | 82.0      | 46.6° | 90.9        | 35.5°       | 1950   | 10:25, |
|            | COLLECTOR #2 | OFF    | 91.3      | 42.2° | 91.8        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.3      | 50.1° | 92.4        |             |        |        |
| Feb.<br>06 | COLLECTOR #1 | ON     | 82.5      | 45.9° | 90.9        | 37.9°       | 1900   | 10:00, |
|            | COLLECTOR #2 | OFF    | 91.3      | 42.0° | 91.8        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.3      | 50.2° | 92.4        |             |        |        |
| Feb.<br>07 | COLLECTOR #1 | ON     | 81.0      | 46.0° | 90.7        | 36.8°       | 1900   | 11:00A |
|            | COLLECTOR #2 | OFF    | 91.1      | 42.2° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 50.2° | 92.2        |             |        |        |
| Feb.<br>08 | COLLECTOR #1 | OFF    | 87.8      | 47.3° | 90.7        | 36.7°       | —      | 11:00, |
|            | COLLECTOR #2 | OFF    | 90.8      | 42.1° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.1      | 50.3° | 92.2        |             |        |        |
| Feb.<br>09 | COLLECTOR #1 | ON     | 82.1      | 45.7° | 90.7        | 36.8°       | 1900   | 10:15, |
|            | COLLECTOR #2 | OFF    | 90.4      | 42.6° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.0      | 50.4° | 92.1        |             |        |        |
| Feb.<br>10 | COLLECTOR #1 | ON     | 81.5      | 42.6° | 90.7        | 36.9°       | 1900   | 10:30  |
|            | COLLECTOR #2 | OFF    | 91.0      | 42.5° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.0      | 50.4° | 92.1        |             |        |        |
| Feb.<br>11 | COLLECTOR #1 | ON     | 81.7      | 47.5° | 90.7        | 37.0°       | 1900   | 10:30  |
|            | COLLECTOR #2 | OFF    | 91.0      | 42.9° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 91.8      | 50.7  | 92.1        |             |        |        |
| Feb.<br>12 | COLLECTOR #1 | ON     | 81.8      | 46.5° | 90.7        | 37.4°       | 1900   | 10:00, |
|            | COLLECTOR #2 | OFF    | 90.8      | 43.3° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.0      | 50.3° | 92.1        |             |        |        |

# BOISE WATER CORPORATION

## RANNEY COLLECTOR / BOISE RIVER

1983

### HYDRAULIC STUDY

| DATE       | LOCATION     | STATUS | DRAW DOWN | TEMP. | RIVER LEVEL | RIVER TEMP. | G.P.M. | TIME   |
|------------|--------------|--------|-----------|-------|-------------|-------------|--------|--------|
| Feb.<br>13 | COLLECTOR #1 | OFF    | 89.0      | 50.2° | 90.7        | 37.5°       | —      | 10:30A |
|            | COLLECTOR #2 | OFF    | 91.1      | 44.2° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.0      | 50.6° | 92.1        |             |        |        |
| Feb.<br>14 | COLLECTOR #1 | ON     | 82.4      | 45.4° | 90.7        | 37.2°       | 1925   | 10:30A |
|            | COLLECTOR #2 | OFF    | 90.9      | 41.1° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.0      | 49.7° | 92.2        |             |        |        |
| Feb.<br>15 | COLLECTOR #1 | ON     | 80.8      | 44.4° | 90.7        | 37.8°       | 1875   | 10:00A |
|            | COLLECTOR #2 | OFF    | 90.8      | 41.9° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.1      | 49.7° | 92.1        |             |        |        |
| Feb.<br>16 | COLLECTOR #1 | ON     | 81.3      | 46.5° | 90.7        | 37.3°       | 1950   | 9:20A  |
|            | COLLECTOR #2 | OFF    | 91.1      | 43.4° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.1      | 50.4° | 92.1        |             |        |        |
| Feb.<br>17 | COLLECTOR #1 | ON     | 81.5      | 46.9° | 90.7        | 37.4°       | 1900   | 10:15A |
|            | COLLECTOR #2 | OFF    | 91.0      | 43.9° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.1      | 50.4° | 92.1        |             |        |        |
| Feb.<br>18 | COLLECTOR #1 | ON     | 81.6      | 46.8° | 90.8        | 37.8°       | 1900   | 10:00A |
|            | COLLECTOR #2 | OFF    | 90.9      | 43.6° | 91.5        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.1      | 49.6° | 92.1        |             |        |        |
| Feb.<br>19 | COLLECTOR #1 | ON     | 81.7      | 45.7° | 92.6        | 37.5°       | 1900   | 11:00A |
|            | COLLECTOR #2 | OFF    | 91.3      | 44.4° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 50.2° | 92.5        |             |        |        |
| Feb.<br>21 | COLLECTOR #1 | ON     | 83.2      | 43.6° | 92.6        | 37.8°       | 1925   | 9:55A  |
|            | COLLECTOR #2 | OFF    | 91.1      | 42.8° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.5      | 46.7° | 92.5        |             |        |        |
| Feb.<br>22 | COLLECTOR #1 | ON     | 82.8      | 44.0° | 92.5        | 37.8°       | 1950   | 10:10A |
|            | COLLECTOR #2 | OFF    | 91.1      | 42.8° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.5      | 49.3° | 92.5        |             |        |        |
| Feb.<br>23 | COLLECTOR #1 | ON     | 82.2      | 46.6° | 92.6        | 37.8°       | 1900   | 10:2A  |
|            | COLLECTOR #2 | OFF    | 91.3      | 44.7° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 49.7° | 92.5        |             |        |        |
| Feb.<br>24 | COLLECTOR #1 | ON     | 82.8      | 45.6° | 92.6        | 37.6°       | 1900   | 9:55A  |
|            | COLLECTOR #2 | OFF    | 91.3      | 45.2° | 91.9        |             |        |        |
|            | COLLECTOR #3 | OFF    | 92.4      | 49.9° | 92.5        |             |        |        |

Weekly Production Records  
Ranney Collectors No. 1, 2 &  
Boise Water Corporation

| <u>Month</u>      | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|-------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>June</u>       |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 5/30-6/5<br>1982  | 31.51                                         | 138.0                                            | 8.48                                             | May 31<br>7.610                                    | 11.77                                  | May 30<br>17.81                                  |
| 6/6-6/12          | 40.69                                         | 139.5                                            | 10.83                                            | June 11<br>8.796                                   | 13.61                                  | June 9<br>18.73                                  |
| 6/13-6/19         | 45.04                                         | 129.5                                            | 12.17                                            | June 16<br>8.437                                   | 13.05                                  | June 14<br>13.91                                 |
| 6/20-6/26<br>1982 | 48.19                                         | 157.0                                            | 11.40                                            | June 26<br>8.320                                   | 12.87                                  | June 24<br>13.36                                 |

<sup>1</sup> Maximum Day Production Corrected to 24 hrs.

**RECEIVED**

Weekly Production Records  
 Manney Collectors No. 1, 2 & 3  
 Boise Water Corporation

| <u>Month</u>      | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|-------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>July</u>       |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 6/27-7/3<br>1982  | 25.78                                         | 128.5                                            | 7.45                                             | June 30<br>7.800                                   | 12.07                                  | June 28<br>14.10                                 |
| 7/4-7/10          | 31.67                                         | 117.0                                            | 10.05                                            | July 6<br>7.968                                    | 12.33                                  | July 6<br>14.47                                  |
| 7/11-7/17         | 44.65                                         | 144.5                                            | 11.48                                            | July 13<br>8.300                                   | 12.84                                  | July 13<br>15.77                                 |
| 7/18-7/24         | 47.20                                         | 152.5                                            | 11.50                                            | July 19<br>8.501                                   | 13.15                                  | July 19<br>14.10                                 |
| 7/25-7/31<br>1982 | 44.18                                         | 147.5                                            | 11.12                                            | July 30<br>7.825                                   | 12.11                                  | July 26<br>12.98                                 |

<sup>1</sup>Maximum Day Production Corrected to 24 hrs.

**RECEIVED**

Weekly Production Records  
Ranney Collectors No. 1, 2 & 3  
Boise Water Corporation

| <u>Month</u>      | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|-------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>August</u>     |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 8/1-8/7<br>1982   | 43.99                                         | 147.5                                            | 11.08                                            | August 6<br>7.998                                  | 12.37                                  | August 2<br>12.98                                |
| 8/8-8/14          | 42.69                                         | 143.5                                            | 11.05                                            | August 13<br>7.892                                 | 12.21                                  | August 11<br>13.54                               |
| 8/15-8/21         | 41.04                                         | 139.5                                            | 10.93                                            | August 19<br>7.856                                 | 12.15                                  | August 15<br>12.98                               |
| 8/22-8/28<br>1982 | 41.74                                         | 147.0                                            | 10.55                                            | August 27<br>7.771                                 | 12.02                                  | August 24<br>12.61                               |

<sup>1</sup>Maximum Day Production Corrected to 24 hrs.

**MICROFILMED**

Weekly Production Records  
Ranney Collectors No. 1, 2 &  
Boise Water Corporation

| <u>Month</u>      | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|-------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>September</u>  |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 8/29-9/4<br>1982  | 34.17                                         | 132.0                                            | 9.61                                             | Sept. 01<br>7.248                                  | 11.21                                  | August 04<br>13.17                               |
| 9/5-9/11          | 34.18                                         | 141.0                                            | 9.00                                             | Sept. 09<br>6.452                                  | 9.98                                   | Sept. 07<br>12.98                                |
| 9/12-9/18         | 24.29                                         | 113.5                                            | 7.95                                             | Sept. 17<br>6.230                                  | 9.64                                   | Sept. 17<br>12.80                                |
| 9/19-9/25<br>1982 | 20.43                                         | 104.0                                            | 7.30                                             | Sept. 24<br>6.199                                  | 9.59                                   | Sept. 23<br>13.36                                |

<sup>1</sup>Maximum Day Production Corrected to 24 hrs.

MICROFILMED

Weekly Production Records  
 Ranney Collectors No. 1, 2 & 3  
 Boise Water Corporation

| <u>Month</u>        | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|---------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>October</u>      |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 9/26-10/2<br>1982   | 13.21                                         | 105.0                                            | 4.67                                             | Sept. 30<br>4.087                                  | 6.32                                   | Sept. 27<br>10.39                                |
| 10/3-10/9           | 12.18                                         | 103.5                                            | 4.37                                             | Oct. 08<br>2.610                                   | 4.04                                   | Oct. 09<br>5.56                                  |
| 10/10-10/16         | 16.32                                         | 115.5                                            | 5.25                                             | Oct. 14<br>4.530                                   | 7.01                                   | Oct. 14<br>9.65                                  |
| 10/17-10/23         | 12.73                                         | 90.5                                             | 5.22                                             | Oct. 19<br>4.005                                   | 6.20                                   | Oct. 18<br>9.65                                  |
| 10/24-10/30<br>1982 | 10.88                                         | 90.5                                             | 4.47                                             | Oct. 24<br>4.208                                   | 6.51                                   | Oct. 24<br>9.83                                  |

<sup>1</sup>Maximum Day Production Corrected to 24 hrs.

MICROFILMED

Weekly Production Records  
Ranney Collectors No. 1, 2 & 3  
Boise Water Corporation

| <u>Month</u>        | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|---------------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>November</u>     |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 10/31-11/06<br>1982 | 8.41                                          | 67.0                                             | 4.66                                             | Nov. 01<br>2.674                                   | 4.14                                   | Oct. 31<br>6.21                                  |
| 11/07-11/13         | 9.72                                          | 93.0                                             | 3.88                                             | Nov. 08<br>2.955                                   | 4.57                                   | Nov. 09<br>6.86                                  |
| 11/14-11/20         | 7.65                                          | 67.5                                             | 4.21                                             | Nov. 15<br>2.691                                   | 4.16                                   | Nov. 15<br>14.84                                 |
| 11/21-11/27<br>1982 | 6.44                                          | 59.5                                             | 4.02                                             | Nov. 22<br>2.726                                   | 4.22                                   | Nov. 21<br>10.76                                 |

<sup>1</sup>Maximum Day Production Corrected to 24 hrs.

RECEIVED  
NOV 23 1982

Weekly Production Records  
Ranney Collectors No. 1, 2 & 3  
Boise Water Corporation

| <u>Month</u>    | <u>Total<br/>Weekly<br/>Production<br/>MG</u> | <u>No. of Hrs.<br/>of Operation<br/>Per Week</u> | <u>Average<br/>Weekly<br/>Production<br/>CFS</u> | <u>Max. Day<sup>1</sup><br/>Production<br/>MGD</u> | <u>Max. Day<br/>Production<br/>CFS</u> | <u>Instantaneous<br/>Peak Production<br/>CFS</u> |
|-----------------|-----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------|
| <u>December</u> |                                               |                                                  |                                                  |                                                    |                                        |                                                  |
| 11/28-12/4      | 8.78                                          | 80.5                                             | 4.05                                             | Nov. 30<br>3.264                                   | 5.05                                   | Dec. 02<br>6.12                                  |
| 12/5-12/11      | 9.45                                          | 84.5                                             | 4.15                                             | Dec. 6<br>2.743                                    | 4.24                                   | Dec. 10<br>4.63                                  |
| 12/12-12/18     | 10.50                                         | 91.0                                             | 4.29                                             | Dec. 12<br>2.967                                   | 4.59                                   | Dec. 13<br>5.01                                  |
| 12/19-12/25     | 9.05                                          | 84.5                                             | 3.98                                             | Dec. 23<br>3.407                                   | 5.27                                   | Dec. 22<br>5.75                                  |

<sup>1</sup>Maximum Day Production Corrected to 24 hrs.

SPECIAL NOTE:

App # 63-9795 should be considered @ time of  
decision on this transfer

## PROTEST INFORMATION SHEET

Protestant - Name(s)

Farmers Union Ditch Co., Ltd. by Harry A. Vogt, Secy. <sup>939-0093</sup>

Address Route 1, Eagle, ID 83616

Attorney - Name & Address ~~11/20/81~~

Date Filed 11/20/81

Protest Date 11/23/81

Issues Right-of-way conflict, down stream effect.

Applicant - Attorney - Name &amp; Address

Dates:

Acknowledgement letters: 11/20/81

Hearing Notice: 12/1/81

Hearing Date: 12/21/81

Called Vogt 12/14 to notify of hearing location change to 9<sup>th</sup> floor.

**RECEIVED**  
12/21/81

Protest Information submitted in Computer (following hearing):

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
TRANSFER ANALYSIS SHEET

INITIAL REVIEW BY: D. TOTHILL

1. Right number 63-2892 Applicant Boise Water Corp
2. Type of right: ☐ Decree ☒ License ☐ Claim
3. Purpose of transfer: ☐ Change point of diversion ☒ Add diversion point ☐ Change place of use  
☐ Other \_\_\_\_\_
4. Check: Indicate in advertising that the source is Groundwater - Boise River
  - a. ☒ Source ☒ Priority ☒ Amount ☒ Purpose ☒ Period of use
  - b. ☒ Description of original point of diversion.
  - c. ☒ Description of original place of use.
5. Amount of land &/or water transferred:
  - a. ☒ All of right.
  - b. ☐ Part of right (NOTE! Part B should be filled in only if part of the right is owned by the applicant).
  - c. ☒ Check description of point(s) of diversion.
  - d. ☒ Check description of place of use.
  - e. ☒ Check map (shows p.d. and p.u. after transfer).
  - f. ☒ Check for correct signature, notarization, and fee.
  - g. ☒ Check proof of ownership of right &/or land from which water is transferred.
  - h. ☐ Check for expansion in use of right. Comments Expansion would occur if  
diversion were allowed to exceed 15 cfs.
  - i. ☒ Check for existing water rights from same source, on land water is being transferred to.  
Right number(s) NA
  - j. ☐ Is use within a Watermaster District? ☒ Yes ☐ No  
If yes, what district? 63 <sup>to Howard Kent</sup>  
<sub>by Harvey A. Vost, Dec.</sub> 12/20/81 Hand covered 12/17

FINAL PROCESSING REVIEW BY: \_\_\_\_\_

1. Watermaster recommendation requested on \_\_\_\_\_ Received on \_\_\_\_\_
2. Is transfer published correctly? ☒ Yes ☐ No
3. Protest received? ☒ Yes ☐ No Barman Union Sitch Co.  
11/20/81 by Harvey A. Vost, Dec.

RECOMMENDED ACTION

1. ☒ Approve
2. ☐ Deny
3. Conditions\* See memo decision
4. By DTBS Date 12/23/81

### ROSTER OF ATTENDANCE

FARMERS UNION DITCH CO., Ltd.  
Route #1, Eagle, Idaho 83616

November 21, 1981

Department of Water Resources  
92 S. Cole Road  
Boise, Idaho 83709

Gentlemen:

The Farmers Union Ditch Co., Ltd. protests the proposed change or transfer of water right No. 63-2892 in the name of Boise Water Corporation.

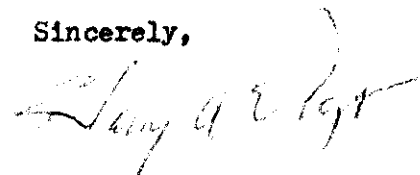
The intake structure for Farmers Union Ditch Co., Ltd. is located within SE $\frac{1}{4}$ , NE $\frac{1}{4}$ , Sec 5 T3N R2E. Boise Water Corporation proposes to change point of diversion and install Ranney radial well collectors in bed of Boise River just downstream from our intake structure. In addition, they propose to use Farmers Union Ditch Co. right of way and cross Farmers Union Ditch Co. canal. Legal aspects of Boise Water Corporation's proposal have not been completed to satisfaction of Farmers Union Ditch Co., Ltd.

In addition the Farmers Union Ditch Co. is concerned about the effect diversion of an additional 15 cubic feet per second would have upon downstream irrigators. Although Boise Water Corporation's application is for ground water and they propose to use Ranney well collectors to pump below river surface they would actually be pumping Boise River water. Farmers Union Ditch Co. believes this proposed transfer could injure other water rights and that for protection of these irrigation rights Boise Water Corporation's proposed diversion, if approved, should be under jurisdiction of the Boise River Watermaster. This diversion should be given priority only after all prior irrigation rights have been satisfied.

Even though Boise Water Corporation's proposed diversion change is below Farmers Union Ditch Company's intake it could effect downstream canal companies. Some Farmers Union Ditch Co. water users use irrigation water for part of their farms from these downstream canal companies and thus their ability to pay assessment charges could be adversely affected.

In 1977 our most recent drought year most of the canal companies reduced Boise River water diversions from sixty to seventy percent of normal. Without storage water from Arrowrock, Anderson and Lucky Peak reservoirs many crops would have failed and any additional river diversion would have resulted in a loss to irrigators.

Sincerely,



Harry A. Vogt  
Secretary

January 5, 1982

Boise Water Corporation  
P. O. Box 7488  
Boise, ID 83707

Gentlemen:

Re: Transfer No. 2605 on License No. 63-2892

Enclosed is a copy of your approved Application for Transfer on License No. 63-2892 along with a copy of the Memorandum Decision and Order. I direct your attention to the conditions of approval as set forth in the order.

Any person who does not agree with the decision of the department may request a rehearing before the director within twenty (20) days or may appeal directly to the district court within thirty (30) days of the date the decision is mailed.

Sincerely,

L. GLEN SAXTON  
Chief, Operations Bureau  
LGS:rf

Enclosures

cc: Harry A. Vogt, Secretary  
Farmers Union Ditch Co., Ltd.

63-2892

Dec 21, 1981

Boise Water Corp.

prot. Farmers Union Ditch Co.

Bob Walker

Harry Vogt.

Jack Kelly

Attempt to provide adequate pressure  
to NW Boise - look supply in that area.

Should Boise water be allowed to pump  
w/out storage w/ 1952 priority?

Distinction of source - gw or river waters

Farmers Union - will be able to get their  
water

- hold harmless.

Collector installation - Casson will be  
installed from bank & radial collectors  
will be ~~in~~ installed by boring from  
casson w/ radials pushed in at time  
of drilling.

Lower installation capacity  $\approx$  5 cfs

Possible condition - limit lower pd to 5 cfs.

- does not constitute right-of-way

P 300-227 526

# RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

|                                                                     |    |
|---------------------------------------------------------------------|----|
| TO                                                                  |    |
| Rouse Water Corp                                                    |    |
| STREET AND NO.                                                      |    |
| P.O. Box 7488                                                       |    |
| P.O., STATE AND ZIP CODE                                            |    |
| Rouse, Md. 21067                                                    |    |
| POSTAGE                                                             | \$ |
| CERTIFIED FEE                                                       | c  |
| SPECIAL DELIVERY                                                    | c  |
| RESTRICTED DELIVERY                                                 | c  |
| SHOW TO WHOM AND DATE DELIVERED                                     | c  |
| SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY                         | c  |
| SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY            | c  |
| SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY | c  |
| TOTAL POSTAGE AND FEES                                              | \$ |
| POSTMARK OR DATE                                                    |    |

PS Form 3800, Apr. 1976  
43-2897  
CONSULT POSTMASTER FOR FEES  
OPTIONAL SERVICES  
RETURN RECEIPT SERVICE

**STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE,  
CERTIFY MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES (see front)**

1. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, **leaving the receipt attached**, and present the article at a post office service window or hand it to your rural carrier. (no extra charge)
2. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, date, detach and retain the receipt, and mail the article.
3. If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in Item 1 of Form 3811.
6. Save this receipt and present it if you make inquiry.

P 300 227 527

# RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

|                                                                     |    |
|---------------------------------------------------------------------|----|
| TO                                                                  |    |
| Farmers Union Litch                                                 |    |
| STREET AND NO. Henry C. Vogt                                        |    |
| P.O., STATE AND ZIP CODE                                            |    |
| Eagle, SD 57616                                                     |    |
| POSTAGE                                                             | \$ |
| CERTIFIED FEE                                                       | c  |
| SPECIAL DELIVERY                                                    | c  |
| RESTRICTED DELIVERY                                                 | c  |
| OPTIONAL SERVICES                                                   |    |
| RETURN RECEIPT SERVICE                                              |    |
| SHOW TO WHOM AND DATE DELIVERED                                     | c  |
| SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY                         | c  |
| SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY            | c  |
| SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY | c  |
| TOTAL POSTAGE AND FEES                                              | \$ |
| POSTMARK OR DATE                                                    |    |

PS Form 3800, Apr. 1976  
3-2892  
CONSULT POSTMASTER FOR FEES

**STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE,  
CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (see front)**

1. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, **leaving the receipt attached**, and present the article at a post office service window or hand it to your rural carrier. (no extra charge)
2. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, date, detach and retain the receipt, and mail the article.
3. If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in Item 1 of Form 3811.
6. Save this receipt and present it if you make inquiry.

UNITED STATES POSTAL SERVICE  
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, and 3 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

SUPPORT NATIONAL  
HISTORIC PRESERVATION

PENALTY FOR PRIVATE  
USE TO AVOID PAYMENT  
OF POSTAGE: \$300  
PER COPY



RETURN  
TO



State of Idaho  
Dept. of Water Res

(Name of Sender)

92 S. Cole Rd.

(Street or P.O. Box)

Department of Water Resources  
Western Regional Office

Boise ID 83707

(City, State, and ZIP Code)

RECEIVED

DEC 14 1981

3611, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

762-237

**SENDER:** Complete items 1, 2, and 3.  
Add your address in the "RETURN TO" space  
reverse.

1. The following service is requested (check one.)

☒ Show to whom and date delivered.....

☐ Show to whom, date and address of delivery.....

☐ RESTRICTED DELIVERY  
Show to whom and date delivered.....

☐ RESTRICTED DELIVERY.  
Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:  
Farmers Union Voth  
Harvey A. Voth, Sec.  
Rt. 1 Eagle, Rd 83616

3. ARTICLE DESCRIPTION:

| REGISTERED NO. | CERTIFIED NO. | INSURED NO. |
|----------------|---------------|-------------|
|                | P300          |             |
|                | 227 527       |             |

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE ☐ Addressee ☐ Authorized agent

4. DATE OF DELIVERY  
12-3-81

POSTMARK

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE

CLERK'S INITIALS

IN THE MATTER OF PROTESTED )  
APPLICATION FOR TRANSFER )  
NO. 63-2892 IN THE NAME ) AGREEMENT  
OF BOISE WATER CORPORATION )

We the undersigned agree to allow the Director of the Department of Water Resources to reach a decision in the above captioned matter based on the information collected at the conference held in Boise on December 21, 1981, the official files and records of the Department and the Directors understanding of the law.

We also agree to waive the requirement of a proposed decision and agree to the issuance of a decision by the Director immediately.

Signed at Boise, Idaho on December 21, 1981

Robert P. Walker

- Boise Water Corporation  
by Robert P. Walker

Harry A. Vogt

Farmers Union Ditch Co. LTD.  
by Harry A. Vogt Secretary

RECEIVED  
DEC 22 1981  
BOISE

FROM Western Region/jp

DATE 12/1/81

TO State Office/Dona

SUBJECT Dona, I just wish to confirm the use of the Conference Room, Second Floor, on December 21, 1981 at 1:30 p.m. The use of the room is for a hearing and/or conference on a protested transfer.

If you have any questions, please call me.

Thank you!



---

SIGNATURE

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES  
OF THE  
STATE OF IDAHO

|                                        |   |                   |
|----------------------------------------|---|-------------------|
| IN THE MATTER OF APPLICATION FOR       | ) |                   |
| TRANSFER OF WATER RIGHT NO. 63-2892    | ) | NOTICE OF HEARING |
| IN THE NAME OF BOISE WATER CORPORATION | ) | AND/OR CONFERENCE |

---

On October 30, 1981, Boise Water Corporation filed with the Department of Water Resources an application to change the point of diversion, place of use and/or nature of use of the above numbered water right. On November 20, 1981, the Department received a protest against approval of said application from Farmers Union Ditch Co., Ltd.

The Department has set the matter of protest for hearing for December 21, 1981, 1:30 p.m. in the Department of Water Resources, State Tower Bldg., 450 W. State St., Second Floor in the Conference Room, Boise, Idaho. The hearing will be held in accordance with provisions of Chapters 2 and 17, Title 42, and Chapter 52, Title 67, of the Idaho Code and adopted Rules of Practice and Procedure of the Department of Water Resources. Opportunity shall be afforded all parties to respond and present evidence and argument on all issues involved. A pre-hearing conference may be held beginning at the above set time and prior to the hearing.

In accordance with Idaho Code, Section 42-222, the following issues are involved in the consideration of the application and protest:

1. Will the proposed transfer, if approved, injure other water rights?
2. Will the proposed transfer, if approved, constitute an enlargement in use of the original right?
3. Will the proposed transfer, if approved, conflict with the local public interest?

Any party may request in writing five (5) days before any hearing that the oral proceedings thereof be taken in the form of stenographic notes at the expense of the requesting party. Any party may have such stenographic notes of the oral proceedings, or part thereof, transcribed at his own expense. A taped record of the proceedings will be maintained for the appeal period.

If the hearing is conducted by a hearing officer appointed by the Director, rather than the Director himself, a proposed decision will be submitted to the parties and the parties may be afforded an opportunity to file exceptions to the proposed decision and present briefs and oral arguments to the Director prior to the issuance of a final decision by the Director. This procedure is required by Idaho Code, Section 42-1701A.

RECEIVED  
DEC 21 1981  
WATER RESOURCES  
DIVISION

10/30/81

# ACTION REQUIRED

FROM: DAVE T.

TO: DAVE S.

This transfer app was hand-delivered to Ken Dunn with a request that action be expedited. Ken indicated that we would advertise next week if at all possible, so I telephoned the advertising information to your office.

Note that the transfer app purports to add a p.d. to a 1952 license — the p.d. is the same as the one identified in app for permit 63-9795, which we have not approved because the water would essentially come from the Boise River.

The advertising should clearly show that the source is essentially 42 Boise R.

# ACTION REQUIREL

11/11/81

10/30 CONT

FROM: \_\_\_\_\_

R+1  
200/10

TO: \_\_\_\_\_

939-0093

So it has been changed from "Groundwater" to  
"Groundwater- Boise River".

Ken has requested that if a hearing is found to be  
required that it be expedited.

**NOTE**

Dave T  
Norm indicated to Farmers Union Coop Irr Co. (Harry Voright)  
that we would personally notify them if any further action occurred  
with the Boise Water Corp collector system. Please notify him of this app. Dnr

009+



State of Idaho

## DEPARTMENT OF WATER RESOURCES

WESTERN REGION, 92 South Cole Road, Boise, Idaho 83709

JOHN V. EVANS  
Governor

(Office at the corner of  
Franklin and Cole Roads)

C. STEPHEN ALLRED  
Director

(208) 334-2190

November 20, 1981

Farmers Union Ditch Co., Ltd.  
Harry A. Vogt, Secretary  
Route 1  
Eagle, Idaho 83616

Re: Application for Transfer No. 63-2892

Dear Mr. Vogt:

This is to acknowledge receipt of the protest to issuance of the above referenced application which you submitted on behalf of the Farmers Union Ditch Co., Ltd. The following are the principle items we can consider at a conference and/or hearing in either approving or denying an application for transfer:

1. Are other water rights injured by the transfer?
2. Does the change constitute an enlargement in the use of the original right?
3. Will the proposed change conflict with the local public interest?

You will be notified at a later date as to the time and place set for the conference and/or hearing to discuss the matters of protest. If we may be of further assistance, please contact us.

Very truly yours,

DAVID B. SHAW  
Western Region Supervisor

DBS:jp

MICROFILMED  
1982



State of Idaho

## DEPARTMENT OF WATER RESOURCES

WESTERN REGION, 92 South Cole Road, Boise, Idaho 83709

JOHN V. EVANS  
Governor

(Office at the corner of  
Franklin and Cole Roads)

C. STEPHEN ALLRED  
Director

(208) 334-2190

November 20, 1981

Boise Water Corporation  
P. O. Box 7488  
Boise, Idaho 83707

Re: Transfer No. 63-2892

Gentlemen:

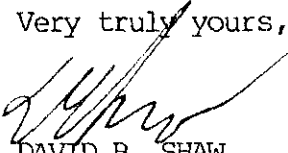
Enclosed please find a copy of the protest filed by Farmers Union Ditch Co., Ltd. against the above referenced application. You should be aware that the following are the items we can consider at a conference and/or hearing in either approving or denying an application for transfer.

1. Are other water rights injured by the transfer?
2. Does the change constitute an enlargement in the use of the original right?
3. Will the proposed change conflict with the local public interest?

You will be notified at a later date as to the time and place set for the conference and/or hearing to discuss the matters of protest. Legal counsel is not mandatory at any proceeding before the Department, although you may desire to employ an attorney in your behalf.

If we may be of any assistance, please contact us.

Very truly yours,

  
DAVID B. SHAW  
Western Region Supervisor

DBS:jp

Enclosure

**MICROFILMED**

## FARMERS UNION DITCH CO., Ltd.

November 18, 1981

Department of Water Resources  
92 S. Cole Road  
Boise, Idaho 83709

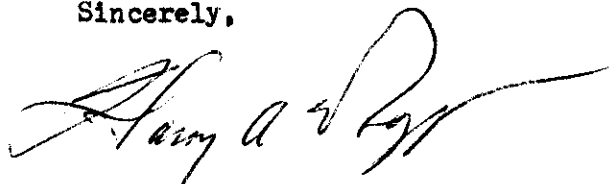
Gentlemen:

The Farmers Union Ditch Co., Ltd. protests the proposed change No. 63-2892 for points of diversion applied for by Boise Water Corporation.

The intake structure for Farmers Union Ditch Co., Ltd. is located within SE $\frac{1}{4}$  NE $\frac{1}{4}$ , Sec 5 T3N R2E. Boise Water Corporation proposes to install Ranney radial well collectors just downstream from our intake structure. In addition they propose to use Farmers Union Ditch Co. right-of-way and cross Farmers Union Ditch Co. canal. Legal aspects of Boise Water Corporation's proposal have not been completed to satisfaction of Farmers Union Ditch Co., Ltd.

In addition Farmers Union Ditch Co. is concerned about the effect diversion of an additional 15 cfs water would have upon downstream irrigators. Although Boise Water Corporation proposes using Ranney well collectors they would be actually pumping Boise River water even though pumping from below river surface.

Sincerely,



Harry A. Vogt  
Secretary

**RECEIVED**

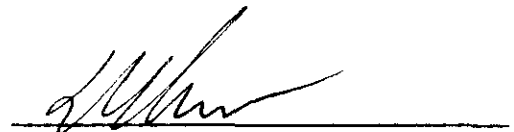
NOV 20 1981

Department of Water Resources  
Western Regional Office

The parties by written stipulation may waive their right to a proposed decision, however, the failure of either party to waive a proposed decision will not prejudice the Director's review of a party's evidence and arguments. However, such a waiver will shorten the decision-making process and may expedite substantially the issuance of a final decision. Whether compliance with Section 42-1701A is waived will not affect a party's right to petition for a rehearing of the final decision pursuant to Rule 11 of the Department's Rules of Practice and Procedure or affect a party's right to appeal the final decision to the district court.

Failure to appear at the time and place set for hearing by the applicant or protestant(s) may allow the Department to dismiss without prejudice the protest(s) or the application. Any and all cost incurred by reason of such non-appearance may be assessed against such non-appearing parties.

Dated this 1 day of December, 1981.

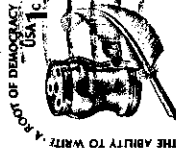


David B. Shaw

Western Region Supervisor

RECEIVED  
DEC 11 1981  
WESTERN REGION

FARMERS UNION DITCH CO., LTD.  
ROUTE 1, EAGLE, IDAHO 83616



Department of Water Resources  
92 S. Cole Road  
Boise, Idaho 83709

6/10/64  
BURN

NOTICE OF PROPOSED CHANGE OF WATER RIGHT

NO. 63-2892

Notice is hereby given that Boise Water Corporation  
of Boise, Idaho has applied to the Department of Water  
Resources for a change of the point of diversion  
of the water of groundwater - Boise River  
The right sought to be changed is evidenced by Water right  
license 63-2892 and is recorded as follows:  
Amount: 15.00 cfs Priority 2/7/1952  
Point(s) of Diversion: 3 points within the SENE $\frac{1}{4}$ , Sec. 14, T3N, R2E.  
The water is used for Municipal purposes from 1/1 to 12/31  
within the Boise Water Corporation service area.

TO BE CHANGED AS FOLLOWS

Amount: 15.00 cfs  
Point(s) of Diversion 3 points within the SENE $\frac{1}{4}$ , Sec. 14 and the SENE $\frac{1}{4}$ , Sec. 5,  
T3N, R2E.  
The water will be used for Municipal purposes from  
1/1 to 12/31 within the Boise Water Corporation service area.

Any protest against approval of the proposed change of water right appli-  
cation must be filed with the Department of Water Resources, 92 S. Cole Road,  
Boise, Idaho 83709 on or before November 23, 1981.

A. KENNETH DUNN  
Director

Published in the The Idaho Statesman  
on 11/5 and 11/12/1981

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
Western Region

---

92 South Cole Road  
Boise, Idaho 83709  
(208) 334-2190

NOVEMBER 2, 1981

The Idaho Statesman  
Box 40  
Boise, ID 83707

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. We have allowed ample time for you to submit a galley proof to this office for review before the first publication date. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before NOVEMBER 23, 1981.

Yours truly,

HELEN L. HARRINGTON  
Secretary

Encl.

11/11/81

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE

REPORT OF ENGINEER

PERMIT NO. G-22594

REPORT ON PROOF OF Completion of Works & Beneficial Use

Boise Water Corp., (O. P. Newman, 623 Idaho St., Boise, Idaho)

15.9/3  
20/20

app. 25 lbs  
7/11/20

R-2E.

T.  
3  
N.

14

13

Sh. P.D. in SENE S14  
See number 1-map.

c/w fee = \$ 9.50  
e/w fee = 5.00  
Total = 14.50

Use is municipal and domestic  
Q = 15 cfs.

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO  
**REPORT OF ENGINEER**

Permit No. G-22594This proof is for Completion of Works & Beneficial Use In Water District No. \_\_\_\_\_

1. Name of applicant Boise Water Corporation
2. Source of water supply: Subterranean flow from a well
3. Location of point of diversion: Is in the \_\_\_\_\_ SE 1/4 NE 1/4 of Section 14  
T. 3 N. R. 2 E., B.M. County of Ada
4. Describe works as they exist, giving dimensions and capacities of same:

Question 4.

This is a series of 3 large collector wells on the North bank of the Boise River that supplies water for domestic use in the City of Boise. The East well is 34' x 13' inside diameter with 312½' x 8" perforated steel laterals--9 in number. The longest is 47' and the shortest is 12' leading into this common well. Motor is 150 h.p., U. S. Motor 440-V and 180 amps, Serial No. 900393. Pump is a Byron-Jackson, Model 5KH, 2-stage, 2300 g.p.m. at 206' head. Water is delivered thru a 12" steel line to the second well. The pump and motor are in a concrete block building 6'8" x 14½' long x 8' high, built on an extremely heavy concrete base on the North bank of the Boise River. High waters have corroded the bank so that it became necessary to haul heavy stone blocks and use for rip-rap.

The middle well is a duplicate of the No. 3, Motor No. 919310. This well and pump is also on the bank of the Boise River and enclosed in a house similar to the No. 3 well. This well has 5 laterals that total 216' long x 8" dia. perforated longest branch 57' and the shortest is 25'. This delivers thru 12" line into an 18" line which carries the water to the main pumphouse; from there water is carried to the city main thru a 24" steel line. The No. 1 well has 13 laterals that total 594½' by 8" dia. perforated casing. The central well is 56' deep x 13' inside dia., main pump and motor ~~for~~ 150 h.p., U. S. Serial No. 903805, same size pump as in well No. 2 and 3, Model 5KH, 2-stage Byron-Jackson. The small pump in this house 75 h.p. U.S., Motor, Serial No. 1082688. Pump is a Byron-Jackson, 3KH, 2-stage, rated at 1500 g.p.m. at 130' head. Well pumphouse is 44' x 26' x 10' high, built of concrete building blocks. Most of the switches are located on the North wall inside the house and consists of Allen-Bradley and Westinghouse switches and controls. Switches and controls control all 3 wells. In the main pumphouse is located the chlorinator manufactured by Fisher and Porter, operation ~~for~~ semi-automatic. They use 6/10ths part per million. This examination was made on the 26th day of February, 1957.

(Submit map on attached plat, showing location and details of above description.)

8. What large stream would the water here appropriated finally reach?

Remarks:

*15 cfs is the amount they feel they are using. Actually they should be able to exceed this amount at times.*

This examination was made on the 26 day of February, 1957  
(Signed) E. M. Humphrey Examiner.

22594

5. Water is used for: Water is used for Municipal Water Supply

6. State whether or not water has been turned into works of diversion: None

7. List legal subdivisions of lands to be irrigated. If proof is for beneficial use, give exact number of acres under cultivation in each forty-acre tract. (Describe manner and place of use if other than irrigation):

Water is pumped into the water distribution system serving Boise  
and adjacent territory.

(Submit map on attached plat, showing location and details of above description.)

8. What large stream would the water here appropriated finally reach?

Remarks:

15 cfs is the amount they feel they are using.  
Actually they should be able to exceed this  
amount at times.

This examination was made on the 26 day of February, 1927  
(Signed) E. N. Humphrey Examiner.

22594

# 919 310 middle pump.

U.S. Motor

Same Byron Jackson  
pump as former.  
22 pounds head.

Main house.

150hp U.S. # 403205

Well 56' deep. 13' i.d.

70hp U.S.

# 1082688

RT 3KH 2 stage

1500 @ 150' head.

44" x 26" x 10' h.

Cone block body.

4.5' x 26' x 10' h.

and controls in

are below.

Boise Water Corp., (O. P. Newman, Water Utility Operator)  
623 Idaho St., Boise, Idaho

Permit No. G-22594

Examination for Completion of Works & Beneficial Use

County Ada 14-3N.-2E.

Q<sub>2</sub> 25.0 cfs.

S<sub>2</sub> Well

P.D. = SE. NE, Sec. 14, T. 3N. - R. 2E.

Use = Municipal Water Supply

Filed = Feb. 7, 1952.

Issued = Feb. 14, 1957

INSTRUCTIONS TO EXAMINERS

1. Always carefully note the location of the point of diversion and accurately plat same.
2. When proof is for beneficial use, carefully check up the number of acres actually irrigated in each forty and accurately plat same.
3. Make a map showing the correct location of streams and ditches, and the irrigated lands, and any adjacent permanent landmarks, such as towns, lakes, large streams and public roads.
4. If any unusual conditions are discovered, make plain statement of them under remarks.
5. Always see the holder, if possible, and go over the whole ground with him and make your report only upon actual existing facts and conditions.
6. Give general characteristics of soils, topography, and crops raised.

RECEIVED  
MAY 3 1957  
Department of Reclamation

East well = 34' x 13' i.d.  
1 1/2' t. walls. bottom  
plugged.

8" 250' total lateral  
perforated pipe.

U.S. 100 hp motor

2300 rpm @ 206' h.

# 900393 440V. 120.

5KH 2 stage P.T. pump.

12" line shaft

to 2<sup>nd</sup> collector

18" to 2<sup>nd</sup> " )

24" to 1<sup>st</sup> " )

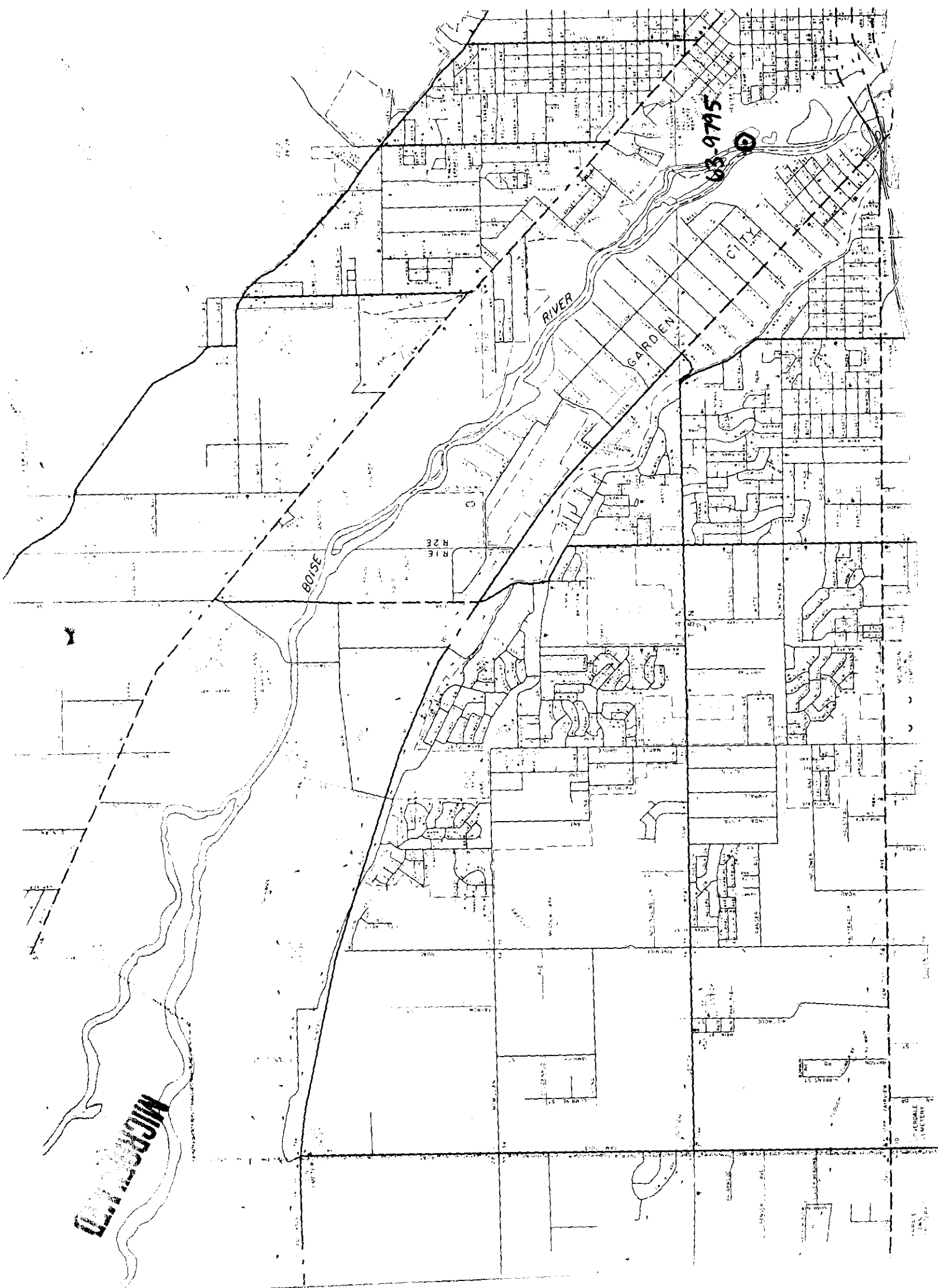
check wire by bldg.

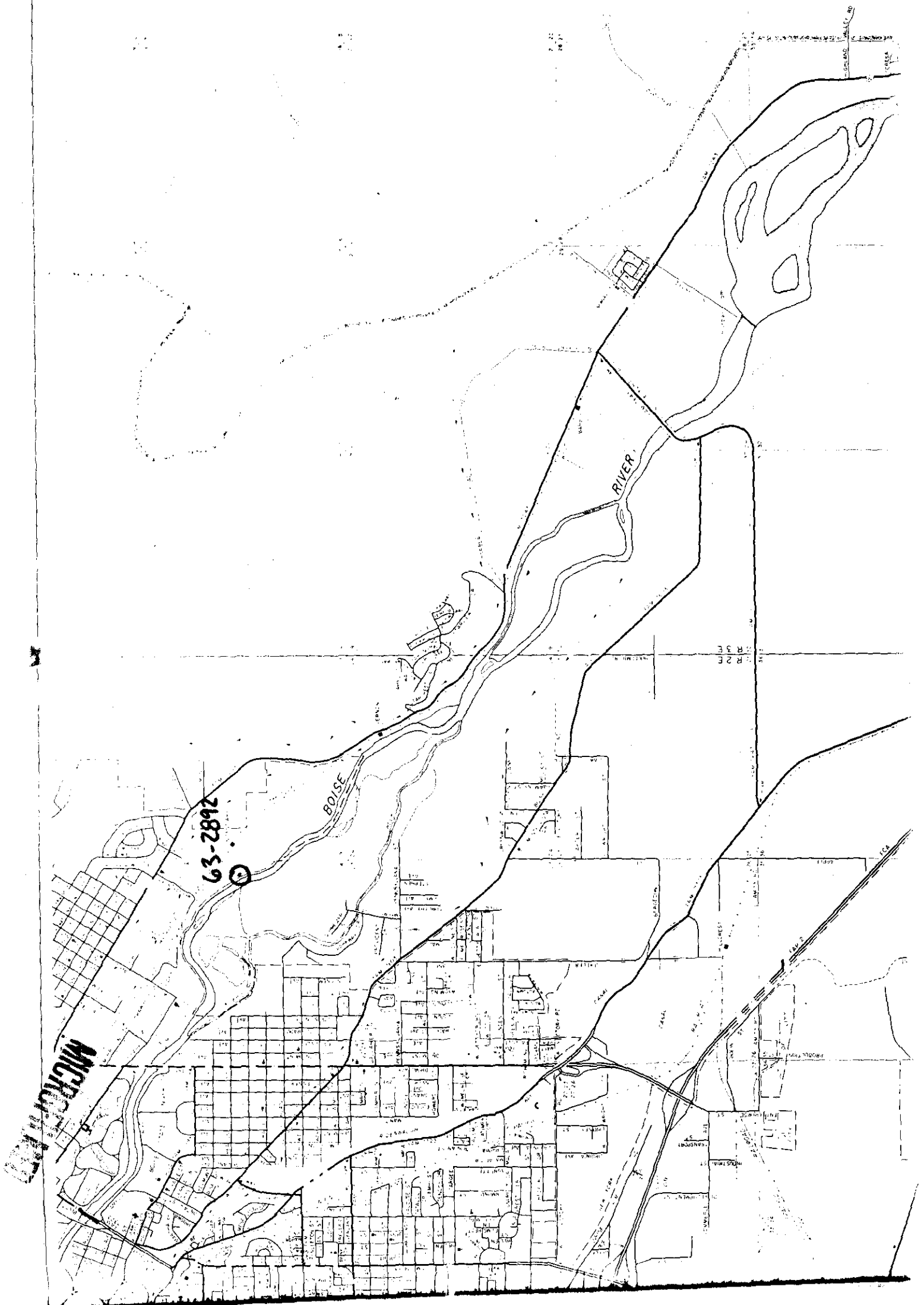
Cone block body.

80" x 9' x 16" x 96' h.

Heavy cone. bases

in bank of Boise R. (N.)





ACT  
ION

N OWNER LAST NAME - BOISE WATER CORP.  
N  
N  
N SOURCE - GROUNDWATER  
N

CITY - BOISE

STATE - ID

\*\* R \*\* NO INPUT DATA FROM PRECEEDING RECORD

N STAGE - LICENSE  
N DIVERSION POINT - SENE 14 03N 02E  
N USE - MUNICIPAL  
N REMARKS - P/U WITHIN CITY LIMITS OF BOISE.  
N

PRIORITY - 02-07-1952 COUNTY - ADA  
USE DIV. RATE - 15.0000CFS

TOTAL DIV. RATE - 15.0000CFS

OLD NO. - 22594

IDENT. NO. 63-2892

WATER RIGHT  
DATA ENTRY LOG

[illegible]

## WATER RIGHT ANALYSIS FORM

- DATA ENTRY -

Identification No. 22594 163-2892  
Old No. New No.

## Record

1. Original Owner: Boise Water Corporation

Present Owner: \_\_\_\_\_

2. Address:

3. City: Boise State: ID Zip: \_\_\_\_\_

4. A. Source of Water: SW

B. Tributary of: \_\_\_\_\_

5. A. Stage (A,P,L,D,S,J): L

B. Status (D,L,R,C,A,I,F - leave blank if valid):

C. Priority Date: 2-7-1952

D. County: 01

E. Total Diversion Rate: 15.

F. Total Diversion Volume:

G. Transfer/Amendment (P,T of A or blank):

H. Water District:

I. DLE/Carey Act (D,C or blank):

J. Right Basis (for adjudication claims A,B,C only):

|                          | Tract       | Sec.      | Twp.      | Rge.      | Gov't Lot | Rediv. |
|--------------------------|-------------|-----------|-----------|-----------|-----------|--------|
| 6. A. Point of Diversion | <u>SENE</u> | <u>14</u> | <u>3N</u> | <u>2E</u> |           |        |
|                          |             |           |           |           |           |        |
|                          |             |           |           |           |           |        |
|                          |             |           |           |           |           |        |
|                          |             |           |           |           |           |        |

7. Period of Use, Use, Diversion Rate/Volume:

from \_\_\_\_\_ to \_\_\_\_\_ for 1M purposes. Amount 15.  
(cfs or AC-Ft/yr)

from \_\_\_\_\_ to \_\_\_\_\_ for \_\_\_\_\_ purposes. Amount \_\_\_\_\_

from \_\_\_\_\_ to \_\_\_\_\_ for \_\_\_\_\_ purposes. Amount \_\_\_\_\_

from \_\_\_\_\_ to \_\_\_\_\_ for \_\_\_\_\_ purposes. Amount \_\_\_\_\_

from \_\_\_\_\_ to \_\_\_\_\_ for \_\_\_\_\_ purposes. Amount \_\_\_\_\_

from \_\_\_\_\_ to \_\_\_\_\_ for \_\_\_\_\_ purposes. Amount \_\_\_\_\_

8. Use Code: See Remarks

[illegible]

9. A. Decree Name:

B. Decree Date:

10. Remarks: A. *All ~~in~~ within city limits of Boise.*  
B.  
C.  
D.  
E.

11. Other Uses (Non-irrigation explanatory information):

12. Other Rights for Same Use:

13. A. Proof Due Date:

B. Date Permit Approved or Denied:

C. Protested Date:

D. Hearing Date:

E. Old Number: 22594

F. Proof Made (P or blank):

G. Field Exam Made (P,R,F or blank):

H. Conditions of Approval: \_\_\_\_\_

14. Diversion Means (brief narrative):

June 17, 1957

Re: Permit No. G-22594  
Boise Water Corporation

Mr. Carey H. Nixon  
Attorney at Law  
112 N. Sixth Street  
Boise, Idaho

Dear Mr. Nixon:

Enclosed is a Certificate of Completion of Works and a License and Certificate of Water Right issued under Permit No. G-22594 confirming the right with a priority of February 7, 1952 for the Boise Water Corporation to divert 15.0 second feet of the water from subterranean flow for municipal water supply with the points of diversion at three collector wells located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 14, Township 3 North, Range 2 East, B.M.

Also enclosed is departmental receipt No. G-2655 for \$11.50 issued as receipt of payment covering the fee of \$6.50 for the Certificate of Completion of Works and \$5.00 for the License.

Very truly yours,

MARK R. KULP  
State Reclamation Engineer  
By

Chief Clerk

JA/nls  
Enc.

22594

CAREY H. NIXON  
ATTORNEY AT LAW  
112 N. SIXTH ST.  
BOISE, IDAHO

RECEIVED  
JUN 14 1957  
Department of Reclamation

June 14, 1957

Mark R. Kulp  
State Reclamation Engineer  
Statehouse  
Boise, Idaho

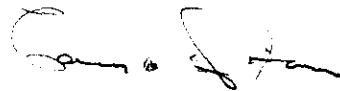
Re: Permit No. G-22594  
Boise Water Corporation

Dear Mr. Kulp:

This will acknowledge your letter of June 13, 1957, advising that your Field Engineer has reported proof of completion of works and application of water to beneficial use under the above mentioned Permit, and license has been authorized confirming the right, with a priority of February 7, 1952 to the use of 15. second feet of water from subterranean flow for municipal water supply, with points of diversion at three wells located in the SE $\frac{1}{4}$  NE $\frac{1}{4}$  of Section 14, Township 3 North, Range 2 East, B.M., and that certificate of completion of works and license will issue upon payment of the statutory fee of \$11.50, for which amount check of Boise Water Corporation is herewith enclosed. Kindly mail the certificate and license to the undersigned.

Thanking you for past courtesies, I am

Yours very truly,



CHN/p  
enc.

22594

June 13, 1957

Re: Permit No. G-22594  
Boise Water Corporation

Mr. Carey H. Nixon  
Attorney at Law  
112 N. Sixth Street  
Boise, Idaho

Dear Mr. Nixon:

We have the report made by our Field Engineer of proof of completion of works and application of water to beneficial use under Permit No. G-25594. This permit is now entitled to a Certificate of Completion of Works and a License and Certificate of Water Right.

Upon receipt of the statutory fee of \$11.50 we can issued the Certificate of Completion of Works (\$6.50) and the License (\$5.00) confirming the right with a priority of February 7, 1952 to the use of 15. second foot of water from subterranean flow for municipal water supply with the points of diversion at three wells located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 14, Township 3 North, Range 2 East, B.M.

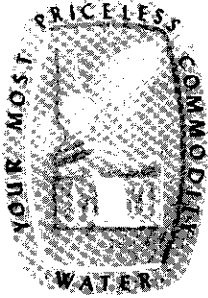
Very truly yours,

MARK R. KULP  
State Reclamation Engineer  
By

Chief Clerk

EPK/nls

22594



# Boise Water Corporation

623 IDAHO STREET • POST OFFICE BOX 548  
BOISE, IDAHO

May 17, 1957

2-10-5000  
RECEIVED  
MAY 20 1957

Department of Reclamation

Department of Reclamation  
State House  
Boise, Idaho

Attention: Elmer Humphrey

Gentlemen:

Enclosed you will find a sketch of the approximate locations of the three collectors in the Boise Water Corporation system.

This is in connection with the completion of works and beneficial use on Permit No. G-22594. We have not as yet completed an actual survey, however, this location as shown is very close to being correct.

Very truly yours,

BOISE WATER CORPORATION

Walter H. Smith  
Engineer - General Manager

WHS:h  
Enc.

22594

February 18, 1957

RE: Permit No. G-22594

Mr. Carey H. Nixon  
Attorney at Law  
112 N. Sixth Street  
Boise, Idaho

Dear Mr. Nixon:

We acknowledge receipt of the depositions of the Boise Water Corporation and two witnesses, also affidavit of publication in The Idaho Daily Statesman, all submitted in proof of completion of works and beneficial use on Permit No. G-22594.

Before final action is taken in the matter, the law requires that a field examination be made by an engineer from this department.

We cannot tell just when this examination will be made, but our field engineer will try and contact Mr. O. P. Newman, Water Utility Operator for Boise Water Corporation, at the time he makes the examination so that arrangements may be made to show him over the grounds.

Very truly yours,

MARK R. KULP  
State Reclamation Engineer  
By

Chief Clerk

MR  
cc: O. P. Newman  
623 Idaho Street  
Boise, Idaho

22594

CAREY H. NIXON  
ATTORNEY AT LAW  
112 N. SIXTH ST.  
BOISE, IDAHO

RECEIVED  
FEB 14 1957  
Department of Reclamation

February 14, 1957

Mark R. Kulp  
State Reclamation Engineer  
State Capitol Bldg.  
Boise, Idaho

Re: Permit No. G-22594

Dear Sir:

In connection with Permit No. G-22594, on behalf of Boise Water Corporation I hand you herewith the following:

1. Affidavit of Publication for Completion of Works and Beneficial Use, published in the Idaho Daily Statesman;

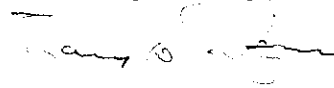
2. Proofs of Application of Water to Beneficial Use and Completion of Works, as follows:

(a) Deposition of Holder, Boise Water Corporation, by its President, O. P. Newman, dated February 12, 1957.

(b) Deposition of Witness, Earl C. Reynolds, Jr., Civil Engineer, dated February 12, 1957.

(c) Deposition of Witness, Donald F. Lloyd, Civil Engineer, dated February 12, 1957.

Yours very truly,



CHN p  
enc.

22594

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

RECEIVED  
JAN 10 1952

Permit No. G-22594

## Proof of Application of Water to Beneficial Use

and Completion of Works

### Deposition of Holder

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. O. P. Newman, 623 Idaho Street, Boise, Idaho. Water Utility Operator.

Ques. 2. If acting in behalf of corporation, state its name, principal place of business (if a foreign corporation, give name of postoffice of statutory agent), your position with reference to same, and your authority for appearing in its behalf.

Ans. Boise Water Corporation, Boise, Idaho - its President

Ques. 3. State number and date of permit, and date of priority you propose to establish under the permit.

Ans. Permit No. G 22594, approved Feb. 14, 1952 with date of priority Feb. 7, 1952.

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Source of supply is ground water and the point of diversion is a water collector system situated in that part of the SE 1/4 of the NE 1/4, Sec. 14, T. 3 N., R. 2 E.B.M., lying North of the Boise River in Ada County, Idaho.

Ques. 5. Describe your works of diversion, and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use. If a well, state depth of well, depth and size of casing and depth to water. If pump is used, state discharge of pump and tell how it was measured or determined. If sprinkler irrigation, give number and size of nozzles and operating pressure.

Ans. The water collector system consists of three collectors each of which are 13 ft. inside diameter and 16 ft. outside diameter, reinforced concrete caissons with a concrete plug in the bottom. Each collector has 8" slotted steel casing projecting laterally from the caisson. Collector No. 1 is 52.9 ft. deep and has 13 laterals projecting from the caisson for a total of 594 ft. of 8" perforated laterals. Collector No. 2 is 40 ft. deep and has 5 laterals projecting from the caisson for a total of 216 ft. of 8" perforated laterals. Collector No. 3 is 40 ft. deep and has 9 laterals projecting from the caisson for a total of 312 ft. of 8" perforated laterals. Collector No. 1 is equipped with one - Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 47 feet of 10" pump column, and powered by a 150 HP electric motor. The pump is capable of discharging 2300 gpm at 206 ft. total head to the distribution system. Collector No. 1 is also equipped with one Type 3KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 45 ft. of 10" pump column, and powered by a 75 HP electric motor. The pump is capable of discharging 1500 gpm at 130 ft. total head to the distribution system. Collectors No. 2 and No. 3 are each equipped with one Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 35 ft. of 10" pump column and powered by a 150 HP electric motor and capable of discharging 2300 gpm at 206 ft. total head to the distribution system. All 4 pump units from the 3 collectors discharge into a pipe line varying in size from 12" to 24" connected to a 24" main in the distribution system and flow is measured to the distribution system with a 24" Simplex Venturi Meter.

22594

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

Permit No. G-22594

Proof of Application of Water to Beneficial Use  
and Completion of Works  
Deposition of Holder

Ques. 1 State your name, residence, occupation and postoffice address.

Ans.

Q  
corpor  
author

Ans.

Q  
the per

Ans.

Q  
ing ir  
water  
to wat  
ler irri

Ans.

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have actually been irrigated with said water.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water is pumped into the water distribution system serving Boise and adjacent territory.

water  
ounty,

rator.

Y-  
sh  
h  
k-

92594

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

RECEIVED  
JAN 10 1952  
DEPARTMENT OF RECLAMATION

Permit No. G-22594

## Proof of Application of Water to Beneficial Use

and Completion of Works

### Deposition of Holder

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. O. P. Newman, 623 Idaho Street, Boise, Idaho. Water Utility Operator.

Ques. 2. If acting in behalf of corporation, state its name, principal place of business (if a foreign corporation, give name of postoffice of statutory agent), your position with reference to same, and your authority for appearing in its behalf.

Ans. Boise Water Corporation, Boise, Idaho - its President

Ques. 3. State number and date of permit, and date of priority you propose to establish under the permit.

Ans. Permit No. G 22594, approved Feb. 14, 1952 with date of priority Feb. 7, 1952.

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Source of supply is ground water and the point of diversion is a water collector system situated in that part of the SE $\frac{1}{4}$  of the NE $\frac{1}{4}$ , Sec. 14, T. 3 N., R. 2 E.B.M., lying North of the Boise River in Ada County, Idaho.

Ques. 5. Describe your works of diversion, and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use. If a well, state depth of well, depth and size of casing and depth to water. If pump is used, state discharge of pump and tell how it was measured or determined. If sprinkler irrigation, give number and size of nozzles and operating pressure.

Ans. The water collector system consists of three collectors each of which are 13 ft. inside diameter and 16 ft. outside diameter, reinforced concrete caissons with a concrete plug in the bottom. Each collector has 8" slotted steel casing projecting laterally from the caisson. Collector No. 1 is 52.9 ft. deep and has 13 laterals projecting from the caisson for a total of 594 ft. of 8" perforated laterals. Collector No. 2 is 40 ft. deep and has 5 laterals projecting from the caisson for a total of 216 ft. of 8" perforated laterals. Collector No. 3 is 40 ft. deep and has 9 laterals projecting from the caisson for a total of 312 ft. of 8" perforated laterals. Collector No. 1 is equipped with one - Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 47 feet of 10" pump column, and powered by a 150 HP electric motor. The pump is capable of discharging 2300 gpm at 206 ft. total head to the distribution system. Collector No. 1 is also equipped with one Type 3KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 45 ft. of 10" pump column, and powered by a 75 HP electric motor. The pump is capable of discharging 1500 gpm at 130 ft. total head to the distribution system. Collectors No. 2 and No. 3 are each equipped with one Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 35 ft. of 10" pump column and powered by a 150 HP electric motor and capable of discharging 2300 gpm at 206 ft. total head to the distribution system. All 4 pump units from the 3 collectors discharge into a pipe line varying in size from 12" to 24" connected to a 24" main in the distribution system and flow is measured to the distribution system with a 24" Simplex Venturi Meter.

22594

Ques. 7. If for other than irrigation purposes; state how applied, amount of horse power generated, etc.

Ans. See answers to questions 4, 5 & 6 above

Ques.

Ans. A1

ve?

er supply.

Ques.  
permit wa

mentioned

Ans. ....

Ques.  
mentioned

nder above

Ans. ....

Ques. 11. State when, how, in what amount and to what extent waters other than those diverted under the above mentioned permit have been diverted and applied to beneficial use upon the lands herein described. Give full particulars regarding such other appropriations and rights claimed thereunder.

Ans. ....

(Sign)

I hereby certify that the foregoing testimony was read to the above subscribed before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed

and sworn to before me, at my office in Boise City, County of Ada

State of Idaho, on this 12th day of February, A. D. 1957.

Notary Public for the State of Idaho,  
residing at Boise.

My commission expires 4-7-60

22594

RECEIVED  
FEB 14 1957  
Department of Reclamation

STATE OF IDAHO, }  
COUNTY OF ADA } ss.

Patricia Branson, being duly sworn,  
deposes and says: That she is the Principal Clerk of The Idaho  
Daily Statesman, a daily newspaper printed and published at  
Boise, Ada County, State of Idaho, and having a general circula-  
tion therein and which said newspaper has been continuously  
and uninterruptedly published in said County during a period of  
twelve consecutive months prior to the first publication of the  
notice, a copy of which is attached hereto; that said notice was  
published in the regular Monday edition of The Idaho Daily  
Statesman in conformity with Sec. 60-108, Idaho Code, for

four consecutive weekly insertions  
beginning with the issue of January 7, 1957,  
and ending with the issue of January 28, 1957.

Patricia Branson, Principal Clerk

Subscribed and sworn to before me this 28th day of  
January, 1957.

Rich E. Brown  
Notary Public for Idaho, Residing at Boise, Idaho.



22594

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

RECEIVED  
FEB 14 1957  
Department of Reclamation

Permit No. G-22594

## Proof of Application of Water to Beneficial Use

### Deposition of Witness and Completion of Works

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Donald F. Lloyd - over the age of 21 years - 222 Idaho Building,  
Boise, Idaho - Civil Engineer - Idaho License No. 846.

Ques. 2. Are you acquainted with Boise Water Corporation, the holder of Permit No. G-22594? How long have you known him and where does he reside?

Ans. Yes - 4 years - Boise, Idaho

Ques. 3. Have you read or heard read said Permit No. G-22594, and are you familiar with its provisions and conditions?

Ans. Yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

The source of supply is ground water and the point of diversion is a water collector system situated in that part of the SE $\frac{1}{4}$  of the NE $\frac{1}{4}$ , Sec. 14, T. 3 N., R. 2 E.B.M., lying North of the Boise River in Ada County, Idaho. The water collector system consists of three collectors each of which are 13 ft. inside diameter and 16 ft. outside diameter, reinforced concrete caissons with a concrete plug in the bottom. Each collector has 8" slotted steel casing projecting laterally from the caisson. Collector No. 1 is 52.9 ft. deep and has 13 laterals projecting from the caisson for a total of 594 ft. of 8" perforated laterals. Collector No. 2 is 40 ft. deep and has 5 laterals projecting from the caisson for a total of 216 ft. of 8" perforated laterals. Collector No. 3 is 40 ft. deep and has 9 laterals projecting from the caisson for a total of 312 ft. of 8" perforated laterals. Collector No. 1 is equipped with one - Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 47 feet of 10" pump column, and powered by a 150 HP electric motor. The pump is capable of discharging 2300 gpm at 206 ft. total head to the distribution system. Collector No. 1 is also equipped with one Type 3KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 45 ft. of 10" pump column, and powered by a 75 HP electric motor. The pump is capable of discharging 1500 gpm at 130 ft. total head to the distribution system.

and

Collectors No. 2 and No. 3 are each equipped with one Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 35 feet of 10" pump column and powered by a 150 HP electric motor and capable of discharging 2300 gpm at 206 ft. total head to the distribution system.

All 4 pump units from the 3 collectors discharge into a pipe line varying in size from 12" to 24" connected to a 24" main in the distribution system and flow is measured to the distribution system with a 24" Simplex Venturi Meter.

The water collection system and works are an integrated unit.

22594

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FEB 14 1967  
Department of Reclamation

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

Permit No. G-22594

Proof of Application of Water to Beneficial Use  
Deposition of Witness and Completion of Work

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?  
Ans. In excess of 15 cubic second feet. I have seen at least 14.5 second feet so conveyed.  
Ques. 6. (Pumps) How much water in cubic feet per second, miner's inches, or gallons per minute have you seen the pump deliver, and how did you measure or estimate the amount?

Ans. I have seen the pump deliver 14.5 cubic second feet, measured through a 24 inch Simplex Venturi Meter.

22594

Ques. 7. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water is for a municipal water supply for Boise City, Idaho

Ques. 8. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. Same as answer 7

Ques. 9. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. No irrigation other than lawn sprinkling

Ques. 10. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. no

Ques. 11. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. On July 23, 1956 I observed water being pumped from this source and under Permit G-22594, into the water system of Boise Water Corporation, from whence it was delivered to the corporation's various customers and beneficially used to the extent of 14.5 cubic second feet.

(Signed) Conrad F. Loya

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Boise City, County of Ada, State of Idaho, on this 12th day of February, A. D. 1957.

My commission expires 4-7-60

Notary Public.  
for the State of Idaho, residing  
at Boise.

22594

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

RECEIVED  
JAN 10 1954  
DEPT. OF RECLAMATION

Permit No. G-22594

## Proof of Application of Water to Beneficial Use

### Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Earl C. Reynolds, Jr. - over the age of 21 years - 222 Idaho  
Building, Boise, Idaho - Civil Engineer - Idaho License No. 718.

Ques. 2. Are you acquainted with Boise Water Corporation, the holder of Permit No. G-22594? How long have you known him and where does he reside?

Ans. Yes - 10 years - Boise, Idaho

Ques. 3. Have you read or heard read said Permit No. G-22594, and are you familiar with its provisions and conditions?

Ans. Yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

**The source of supply is ground water and the point of diversion is a water collector system situated in that part of the SE $\frac{1}{4}$  of the NE $\frac{1}{4}$ , Sec. 14, T. 3 N., R. 2 E.B.M., lying North of the Boise River in Ada County, Idaho. The water collector system consists of three collectors each of which are 13 ft. inside diameter and 16 ft. outside diameter, reinforced concrete caissons with a concrete plug in the bottom. Each collector has 8" slotted steel casing projecting laterally from the caisson. Collector No. 1 is 52.9 ft. deep and has 13 laterals projecting from the caisson for a total of 594 ft. of 8" perforated laterals. Collector No. 2 is 40 ft. deep and has 5 laterals projecting from the caisson for a total of 216 ft. of 8" perforated laterals. Collector No. 3 is 40 ft. deep and has 9 laterals projecting from the caisson for a total of 312 ft. of 8" perforated laterals. Collector No. 1 is equipped with one - Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 47 feet of 10" pump column, and powered by a 150 HP electric motor. The pump is capable of discharging 2300 gpm at 206 ft. total head to the distribution system. Collector No. 1 is also equipped with one Type 3KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 45 ft. of 10" pump column, and powered by a 75 HP electric motor. The pump is capable of discharging 1500 gpm at 130 ft. total head to the distribution system.**

**Collectors No. 2 and No. 3 are each equipped with one Type 5KH, 2 Stage Byron Jackson Deep Well Turbine Pump with 35 feet of 10" pump column and powered by a 150 HP electric motor and capable of discharging 2300 gpm at 206 ft. total head to the distribution system.**

**All 4 pump units from the 3 collectors discharge into a pipe line varying in size from 12" to 24" connected to a 24" main in the distribution system and flow is measured to the distribution system with a 24" Simplex Venturi Meter.**

**The water collection system and works are an integrated unit.**

and

22594

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

RECEIVED  
Department of Reclamation

Permit No. G-22594

Proof of Application of Water to Beneficial Use

Deposition of Witness and Corroborating Evidence

Witnesses of the witnesses on this case shall be examined in each case.

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. In excess of 15 cubic second feet. I have seen at least 14.5 second feet so conveyed.

Ques. 6. (Pumps) How much water in cubic feet per second, miner's inches, or gallons per minute have you seen the pump deliver, and how did you measure or estimate the amount?

Ans. I have seen the pump deliver 14.5 cubic second feet, measured through a 24 inch Simplex Venturi Meter.

22594

Ques. 7. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water is for a municipal water supply for Boise City, Idaho

Ques. 8. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. Same as for answer 7

Ques. 9. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. No irrigation other than lawn sprinkling

Ques. 10. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. no

Ques. 11. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. On July 23, 1956 I observed water being pumped from this source and under Permit No. G-22594, into the water system of Boise Water Corporation, from whence it was delivered to the corporation's various customers and beneficially used to the extent of 14.5 cubic second feet.

(Signed) Carl C. Reynolds

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Boise City,  
County of Ada, State of Idaho, on this 12th day of February,  
A. D. 1957.

Samuel S. Reynolds  
Notary Public.  
for the State of Idaho,  
residing at Boise.

My commission expires 4-7-60

22594

February 6, 1957

RE: Permit No. G-22594

Boise Water Corporation  
P.O. Box 548  
Boise, Idaho

Attention: Walter Smith

Dear Sir:

In regard to our telephone conversation this morning, requesting extra forms.

We herewith enclose two Form 16 and four Form 17A.

Very truly yours,

MARK R. KULP  
State Reclamation Engineer  
By

Chief Clerk

EPR:vem  
Encl.

22594

STATE OF IDAHO  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO

RE: Permit No. G-22594  
Boise Water Corporation

Date: December 18, 1956

The Idaho Daily Statesman  
Boise, Idaho.

Gentlemen:

Enclosed you will find notice for publication once a week for four consecutive weeks prior to February 12, 1957 the date set for proof, the expense of the publication to be paid by the applicant, Boise Water Corporation, P.O. Box 546 of Boise Idaho, to whom you should furnish proof of publication on or prior to the date set for proof.

Please acknowledge receipt of this notice, and furnish this office with a copy of the first publication, in order that we may check same.

Very truly yours,

MARK R. KULP  
State Reclamation Engineer  
By

Chief Clerk

22594

December 18, 1956

Re: Permit No. G-22594

Boise Water Corporation  
P.O. Box 548  
Boise, Idaho

Gentlemen:

We acknowledge receipt of Notice for Completion of Works and Beneficial Use proof on Permit No. G-22594 to be made February 12th, 1957, before Carey H. Nixon, Notary Public.

We shall send a copy of the Notice to the Idaho Daily Statesman with instructions to publish it once a week for four weeks prior to that date and to send you the affidavit of publication together with statement of costs.

At the time set, you should appear before Carey H. Nixon, Notary Public, together with two disinterested witnesses who are familiar with the terms of the Permit and the work done thereunder for the purpose of executing the enclosed depositions.

Very truly yours,

MARK R. KULP  
State Reclamation Engineer  
BY

Chief Clerk

:vm  
Enc.  
cc. Carey H. Nixon  
Box 699  
Boise, Idaho

22594

NOTICE TO ACCOMPANY THIS LETTER MUST BE MADE IN DUPLICATE

RECEIVED  
DEC 18 1956  
Department of Reclamation

(Date) December 10, 1956

(P. O.) P. O. Box 548, Boise, Idaho

TO THE STATE RECLAMATION ENGINEER:

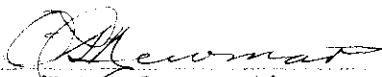
Boise, Idaho

Dear Sir:

You are hereby authorized to have the attached notice published at my expense in the

The Idaho Daily Statesman of Boise, Idaho published in

the county in which the works are situated.

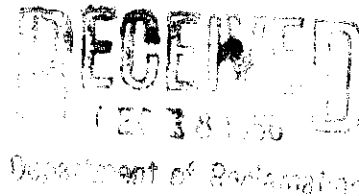
  
Boise Water Corporation  
O. P. Newman, President

(In case of canals or other works designed to divert and carry more than 50 cubic feet of water per second, the following certificate must be signed by a well-known and competent engineer.)

I hereby certify that the facts set forth in the attached notice are true.

Engineer.

22594



NOTICE OF PROOF OF COMPLETION OF WORKS  
and  
APPLICATION OF WATER TO BENEFICIAL USE

Notice is hereby given that at 10:00 M., on the 12th day of February, 19 57, at Boise, County of Ada, State of Idaho, before Carey H. Nixon, Notary Public proof will be submitted of the completion of works for the diversion of 25 ☒ cubic feet per second of underground waters from a well, and of the application to beneficial use of said water, in accordance with the terms and conditions of Permit No. G 22594 ☒ heretofore issued by the Department of Reclamation of the State of Idaho.

1. The name and postoffice address of the person or corporation holding said permit are Boise Water Corporation, P. O. Box 548, Boise, Idaho

2. Said works of diversion will be fully completed on the date set for such completion, and the amount of water which said works are capable of conveying to the place of use is 25 cubic feet per second.

3. The use to which said water has been applied is municipal and ~~domestic~~ purposes, and the amount applied to beneficial use is 15 cubic feet per second.

4. The point of diversion of said water is SE  $\frac{1}{4}$  of NE  $\frac{1}{4}$  of Section 14,  
Twp. 3N, Range 2E, B.M., County of Ada

5. The place where said water is used is City of Boise, Idaho and  
adjacent territory

6. The date of priority which said user is prepared to establish is February 24, 1932.

MARK R. KULP  
State Reclamation Engineer

22594

XX

S T A T E O F I D A H O

DEPARTMENT OF RECLAMATION

Boise Water Corporation  
% Carey H. Nixon  
Box 699  
Boise, Idaho

December 1, 1956

Dear Sir:

We enclose herewith blank notice for proof of completion of works and application of water to beneficial use under your Permit No. 0-22594. This notice should be filled out in duplicate and returned to this office at least 40 days before the date upon which you wish to make this proof, in order to allow time for the four weeks' publication required by law.

This proof must be submitted before a Notary Public or other officer authorized by law to administer oaths.

The date for proof, as set out in your permit, is not later than February 14, 1957.

Very truly yours,

MARK R. KULP

State Reclamation Engineer

v

22594

XX

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

Boise Water Corporation  
% Carey H. Nixon  
Box 699  
Boise, Idaho

December 1, 1956

Dear Sir:

We enclose herewith blank notice for proof of completion of works and application of water to beneficial use under your Permit No. G-22594. This notice should be filled out in duplicate and returned to this office at least 40 days before the date upon which you wish to make this proof, in order to allow time for the four weeks' publication required by law.

This proof must be submitted before a Notary Public or other officer authorized by law to administer oaths.

The date for proof, as set out in your permit, is not later than February 14, 1957.

Very truly yours,

MARK R. KULP

State Reclamation Engineer

v

22594

February 18, 1952

RE: Permit No. G-22594

Mr. Carey H. Nixon  
Box 699  
Boise, Idaho

Dear Mr. Nixon:

We enclose Permit No. G-22594 of the Boise Water Corporation and direct attention to the limitations and conditions as given on the fourth page under approval of the State Reclamation Engineer.

We also enclose departmental receipt No. 24156 for the \$11.00 filing fee.

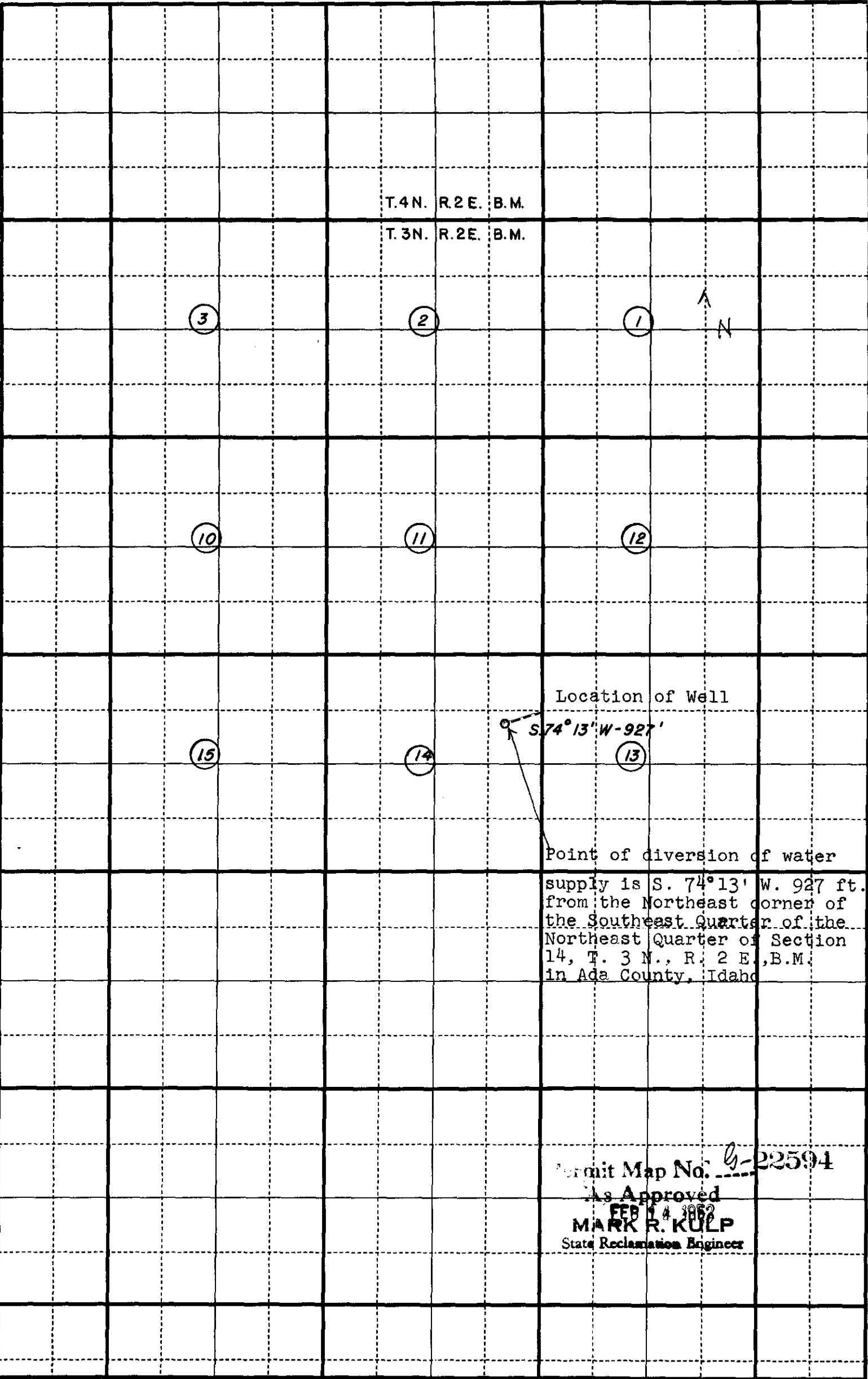
Very truly yours,

MARK R. KULP  
State Reclamation Engineer  
By

Chief Clerk

A:fg  
Enc.

22594



22594