

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

RECEIVED  
NOV 29 1993  
Department of Water Resources

**A. GENERAL INFORMATION**

01-07054  
Permit No. 37-07842

1. Owner: Lower Snake River Recharge District Phone No. 837-4887

Current Address: Box 48, Hagerman, Idaho

2. Accompanied by: Gerald Martens EXAM DATE: \_\_\_\_\_

Address: 1139 Falls Ave. E, Twin Falls, Idaho Phone No. 734-4888

Relationship to Permit Holder: None

3. Source: Snake River/Big Wood River tributary to See Narrative

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None

2. Other water rights with the same point of diversion: None

**C. DIVERSION AND DELIVERY SYSTEM**

**1. Point(s) of Diversion:**

| Ident No. | Gov't Lot | ¼  | ¼  | ¼ | Sec. | Twp. | Rge. | County  | Method of Determination/Remarks |
|-----------|-----------|----|----|---|------|------|------|---------|---------------------------------|
|           |           | SE | NE |   | 22   | 5S   | 17E  | Lincoln | 7.5 minute quadrangle           |
|           |           |    |    |   |      |      |      |         |                                 |
|           |           |    |    |   |      |      |      |         |                                 |
|           |           |    |    |   |      |      |      |         |                                 |

**2. Place(s) of Use:**

Indicate Method of Determination

| TWP | RGE | SEC | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 5S  | 17E | 22  |    |    | X  | X  |    |    | X  | X  | X  | X  |    | X  |    | X  | X  |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

EXHIBIT

5

IDWR 81

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.d. as applicable.

|                                                     |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| See attached exhibits and recharge structure plans. |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|

Scale: 1" = \_\_\_\_\_.

\_\_\_\_ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

\_\_\_\_ Aerial Photo Attached (required for irrigation of 10+ acres)

\_\_\_\_ Photo of Diversion and System Attached

4.

| Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------------------|------------|----|------------------|-----------|-----------------------------------|
| N/A                                   |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |

\*Code to correspond with No. on map and aerial photo

#### D. FLOW MEASUREMENTS

1.

| Measurement Equipment                             | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|---------------------------------------------------|------|------|-----------|------------|------|-------------|
| Milner Gooding Canal Measuring Stations 56 and 57 |      |      |           |            |      |             |
|                                                   |      |      |           |            |      |             |

2. Measurements: Water measured in concrete flume above and below diversion.  
Diversion quantity is mathematical difference. Upstream flow measured  
at Milner Gooding Canal Diversion Structure 56. Downstream measurement  
at Milner Gooding Canal Structure No. 57. Rating curves have been  
established for both stations. See attached ledger.

**E. NARRATIVE/REMARKS/COMMENTS**

Measurement flow records for April 1986, as prepared by Big Wood Canal Company. Attached are flow records.

The Big Wood Canal Co-mingles water from Snake River and Bigwood River upstream of diversion. District routinely replaces water from one source with water from other sources. At time of proof of Beneficial Use Report the Bigwood water was supplementing Snake River flows to facilitate flows measured at diversion.

Division agreement between Lower Snake River Recharge District and Bureau of Land Management attached for your information.

Attached is a flow summary sheet that tabulates the recharge rate of flow and the maximum potential contribution to total recharge from each potential source.

↑  
this document  
already in file  
below

Have conditions of permit approval been met? X yes \_\_\_ no

**F. FLOW CALCULATIONS**

\_\_\_\_ Additional Computation Sheets Attached

Measured Method:

See Section E.

**G. VOLUME CALCULATIONS** N/A

## 1. Volume Calculations for Irrigation:

 $V_{i.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$  \_\_\_\_\_ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$  \_\_\_\_\_ $V = \text{Smaller of } V_{i.R.} \text{ and } V_{D.R.} =$  \_\_\_\_\_

## 2. Volume Calculations for Other Uses:

**H. RECOMMENDATIONS**

## 1. Recommended Amounts

| Beneficial Use       | Period of Use |       | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|----------------------|---------------|-------|------------------------------|--------------------------|
|                      | From          | To    |                              |                          |
| Groundwater Recharge | 1-1           | 12-31 | 300 CFS                      |                          |
|                      |               |       |                              |                          |
|                      |               |       |                              |                          |
|                      |               |       |                              |                          |
|                      |               |       |                              |                          |
| Totals:              |               |       | 300 CFS                      |                          |

## 2. Recommended Amendments

\_\_\_\_ Change P.D. as reflected above    \_\_\_\_ Add P.D. as reflected above    \_\_\_\_ None  
\_\_\_\_ Change P.U. as reflected above    \_\_\_\_ Add P.U. as reflected above    \_\_\_\_ Other

**I. AUTHENTICATION**Field Examiner's Name Gerald Martens Date 11/24/93

Reviewer \_\_\_\_\_ Date \_\_\_\_\_



EHM Engineers Inc.  
1139 Falls Ave. E  
Twin Falls, Idaho 83301

Re: Water permit # 37-07842

Dear Mr. Martins:

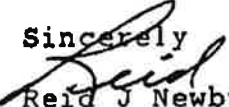
Enclosed find copy of the record for water diverted into the recharge area from the Milner-Gooding canal North of Shoshone, Idaho.

The method used for caculating this discharge is as follows. Measuring Station # 56 above the concrete flume on the Milner-Gooding canal was measured, Measuring station # 57 below the recharge diversion was also measured, the difference is the caculated amount of water diverted into the recharge area.

Rating curves were established for both of the measuring stations on the Milner-Gooding canal.

I sincerely hope this will satisfisy the requirments for permit # 37-07842.

Sincerely

  
Reid J Newby

P.O. Box N  
Shoshone, Idaho 83352

1985

| No | X | NO      | Y | NO | 6 | T | ST | NO | 61 | 1X0 | 72 | 130000 |
|----|---|---------|---|----|---|---|----|----|----|-----|----|--------|
| 1  |   | 6/24/92 |   |    |   |   |    |    |    |     |    | 931    |
| 2  |   |         |   |    |   |   |    |    |    |     |    |        |
| 3  |   |         |   |    |   |   |    |    |    |     |    |        |
| 4  |   |         |   |    |   |   |    |    |    |     |    |        |
| 5  |   |         |   |    |   |   |    |    |    |     |    |        |
| 6  |   |         |   |    |   |   |    |    |    |     |    |        |
| 7  |   |         |   |    |   |   |    |    |    |     |    | 252    |
| 8  |   |         |   |    |   |   |    |    |    |     |    | 260    |
| 9  |   |         |   |    |   |   |    |    |    |     |    | 260    |
| 10 |   |         |   |    |   |   |    |    |    |     |    | 265    |
| 11 |   |         |   |    |   |   |    |    |    |     |    | 265    |
| 12 |   |         |   |    |   |   |    |    |    |     |    | 261    |
| 13 |   |         |   |    |   |   |    |    |    |     |    | 270    |
| 14 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 15 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 16 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 17 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 18 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 19 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 20 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 21 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 22 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 23 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 24 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 25 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 26 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 27 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 28 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 29 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 30 |   |         |   |    |   |   |    |    |    |     |    | 275    |
| 31 |   |         |   |    |   |   |    |    |    |     |    | 275    |

This is a copy of Big Wood Canal Co.

Record for April 1986 Water into

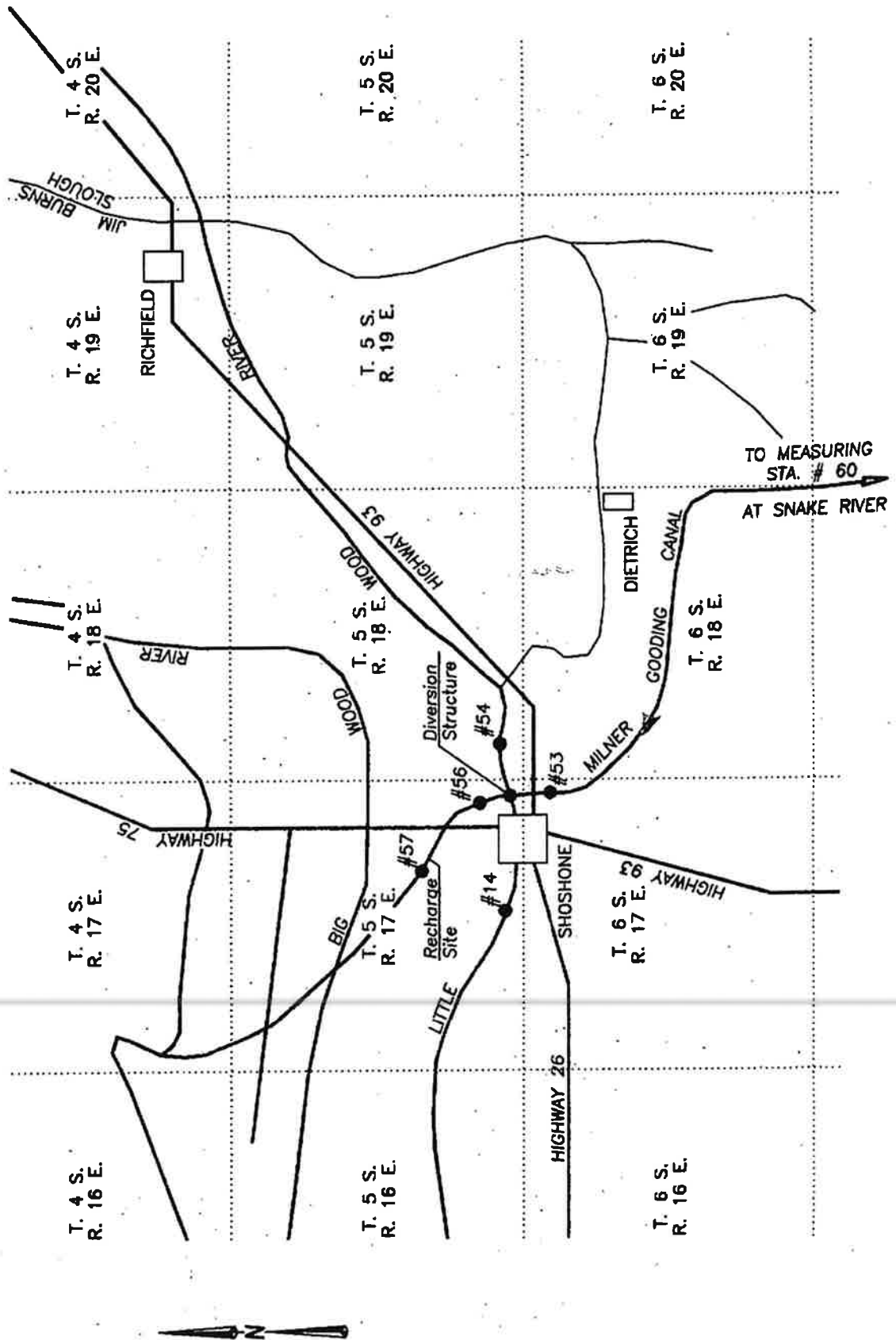
Recharge.

Yellow is in C.F.S. Back Day.

Self heavy

for Permit # 37-07842

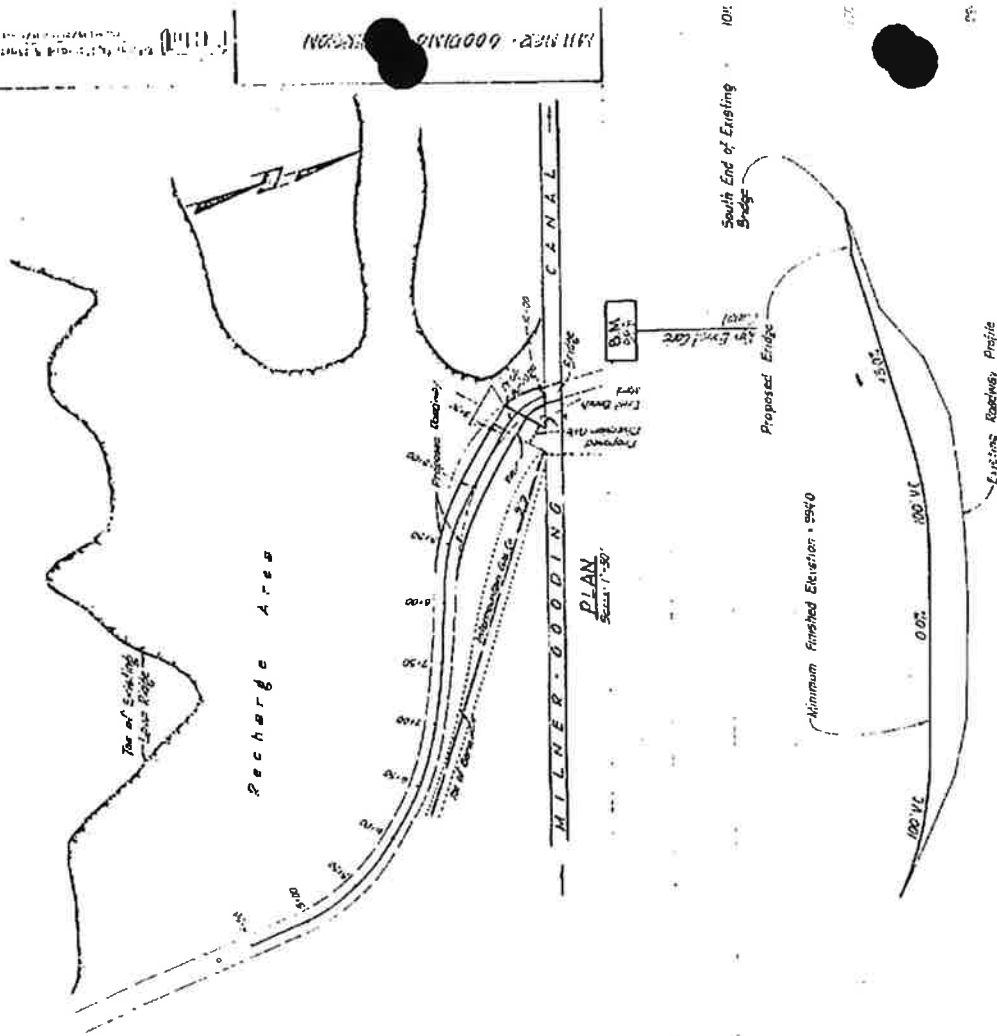
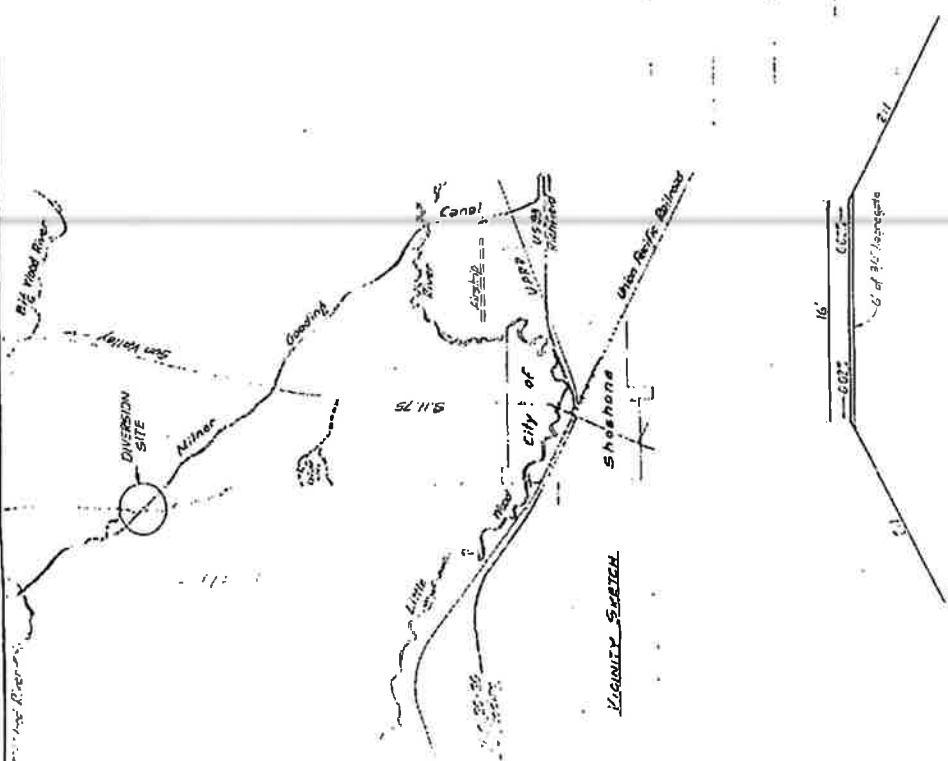
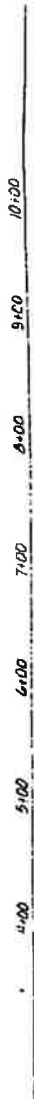
# Exhibit For Lower Snake River Aquifer Recharge Permit No's. 01-07054 & 37-07842



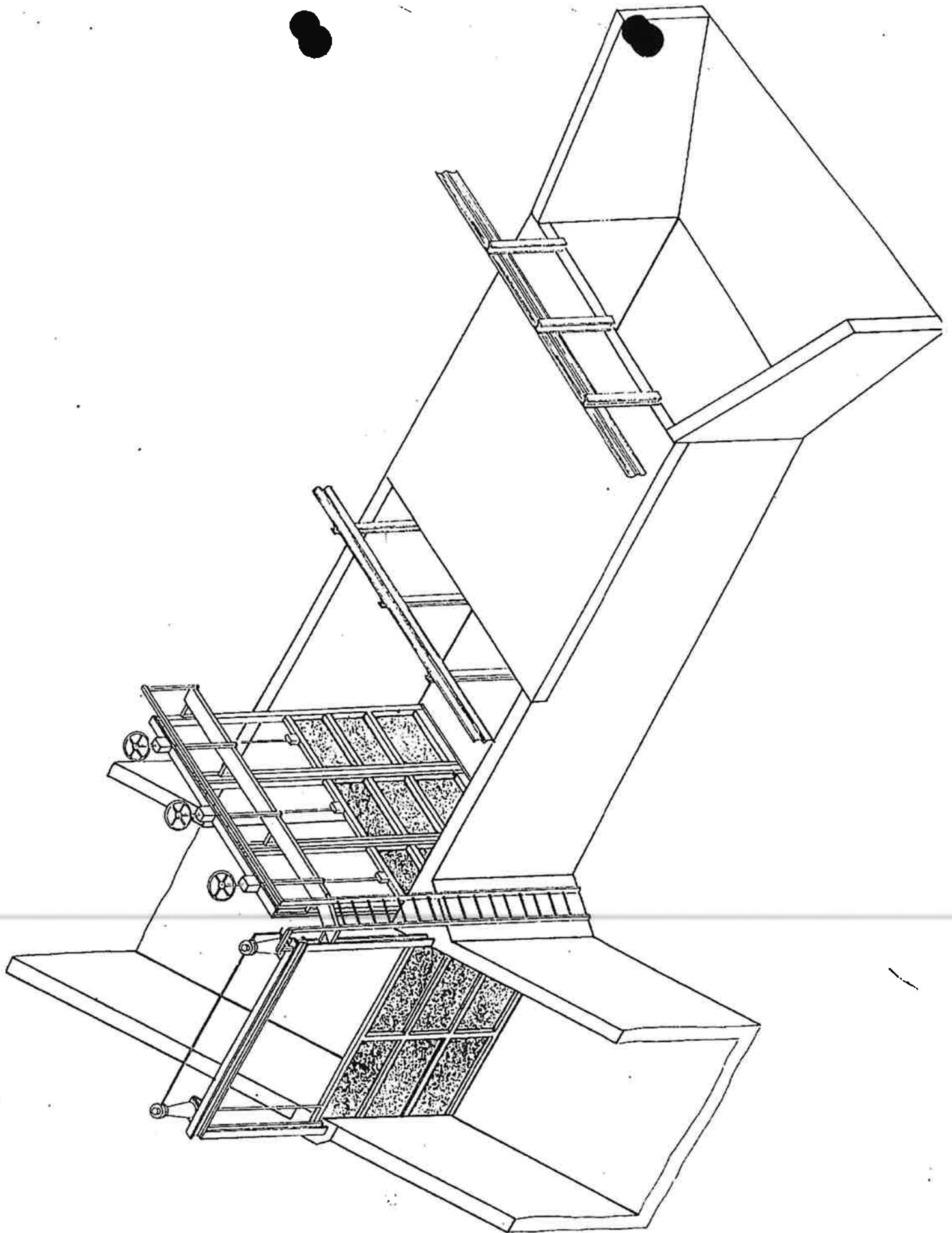
Summary of Recharge  
Records for  
Lower Snake River Recharge  
Permit No. 01-07054 & 37-07842

| MEASURING STAT ON |     |     |     |     |     |     |          |                                           |                                             |
|-------------------|-----|-----|-----|-----|-----|-----|----------|-------------------------------------------|---------------------------------------------|
| DATE              | JBS | 14  | 53  | 54  | 56  | 57  | RECHARGE | MAX POSSIBLE<br>RECHARGE FROM<br>BIG WOOD | MAX POSSIBLE<br>RECHARGE FROM<br>SNAKE RIVE |
| 04-07-86          |     |     | 220 |     | 252 | 252 | 0        |                                           |                                             |
| 04-08-86          |     |     |     |     |     | 260 | 260      | 260                                       |                                             |
| 04-09-86          |     | 646 | 425 |     | 432 | 260 | 172      | 172                                       |                                             |
| 04-10-86          |     |     | 401 |     | 448 | 265 | 183      | 183                                       |                                             |
| 04-11-86          | 97  | 692 | 472 |     | 460 | 265 | 195      | 195                                       | 97                                          |
| 04-12-86          | 57  |     | 472 |     |     | 261 | 261      | 261                                       | 57                                          |
| 04-13-86          | 62  |     |     |     |     | 270 | 270      | 270                                       | 62                                          |
| 04-14-86          | 66  | 717 | 486 | 787 | 486 | 275 | 211      | 211                                       | 66                                          |
| 04-15-86          | 52  | 681 | 485 | 721 | 482 | 252 | 230      | 230                                       | 52                                          |
| 04-16-86          | 57  | 659 | 479 | 689 | 470 | 239 | 231      | 231                                       | 57                                          |
| 04-17-86          | 43  | 636 | 405 | 674 | 496 | 223 | 273      | 273                                       | 43                                          |
| 04-18-86          | 40  | 604 | 614 | 628 | 632 | 310 | 322      | 322                                       | 40                                          |
| 04-19-86          | 73  | 556 | 596 | 564 | 618 | 342 | 276      | 276                                       | 73                                          |
| 04-20-86          | 142 |     | 596 | 563 |     |     | ---      | ---                                       | 142                                         |
| 04-21-86          | 141 | 615 | 596 | 651 | 618 | 342 | 276      | 276                                       | 141                                         |
| 04-22-86          | 50  | 526 | 585 | 544 | 604 | 350 | 254      | 254                                       | 50                                          |
| 04-23-86          | 221 | 454 | 566 | 544 | 580 | 360 | 220      | 220                                       | 220                                         |
| 04-24-86          | 213 | 596 | 572 | 636 | 586 | 396 | 190      | 190                                       | 190                                         |
| 04-25-86          | 168 | 560 | 563 | 585 | 580 | 394 | 186      | 186                                       | 168                                         |
| 04-26-86          | 181 | 500 | 644 | 524 | 654 | 340 | 314      | 314                                       | 181                                         |
| 04-27-86          | 172 |     | 644 | 530 |     |     | ---      | ---                                       | 172                                         |
| 04-28-86          | 165 | 615 | 696 | 537 | 648 | 466 | 182      | 182                                       | 165                                         |
| 04-29-86          | 158 | 580 | 670 | 503 | 626 | 465 | 161      | 161                                       | 158                                         |
| 04-30-86          | 142 | 506 | 661 | 420 | 616 | 459 | 157      | 157                                       | 142                                         |

JBS - Jimmy Byrnes Slough  
 All flows in CFS as recorded by Bigwood Canal Co.  
 Recharge = 56-57  
 Max Recharge (from Snake River): Total discharge but not to exceed flow at M.S. 53. M.S.  
 Max Recharge (from Big Wood River): Total discharge from JBS but not to exceed total  
 discharge.  
 Measuring stations 14+56 should approximately total measuring stations 53+54



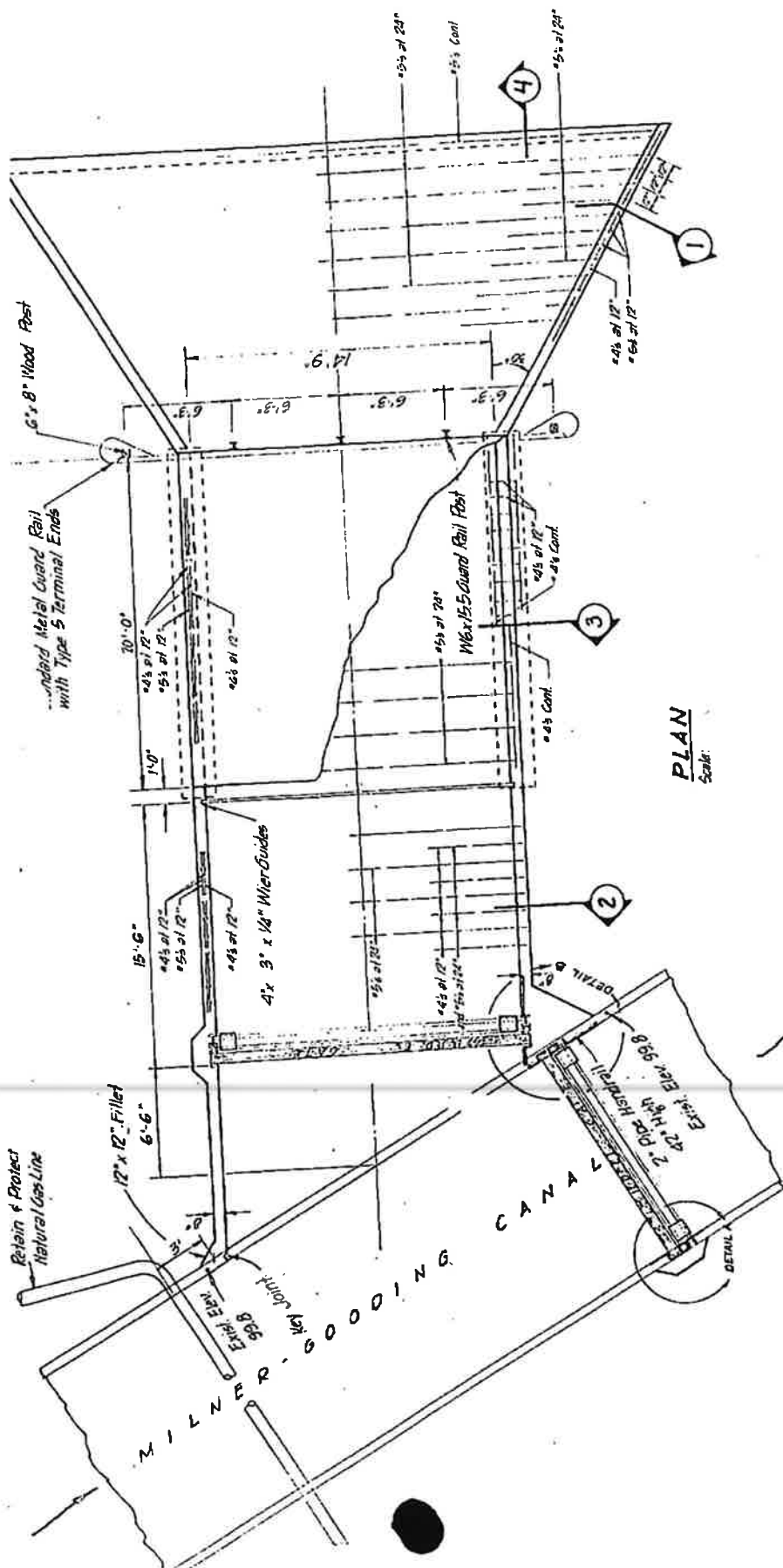
### ROADWAY PROFILE



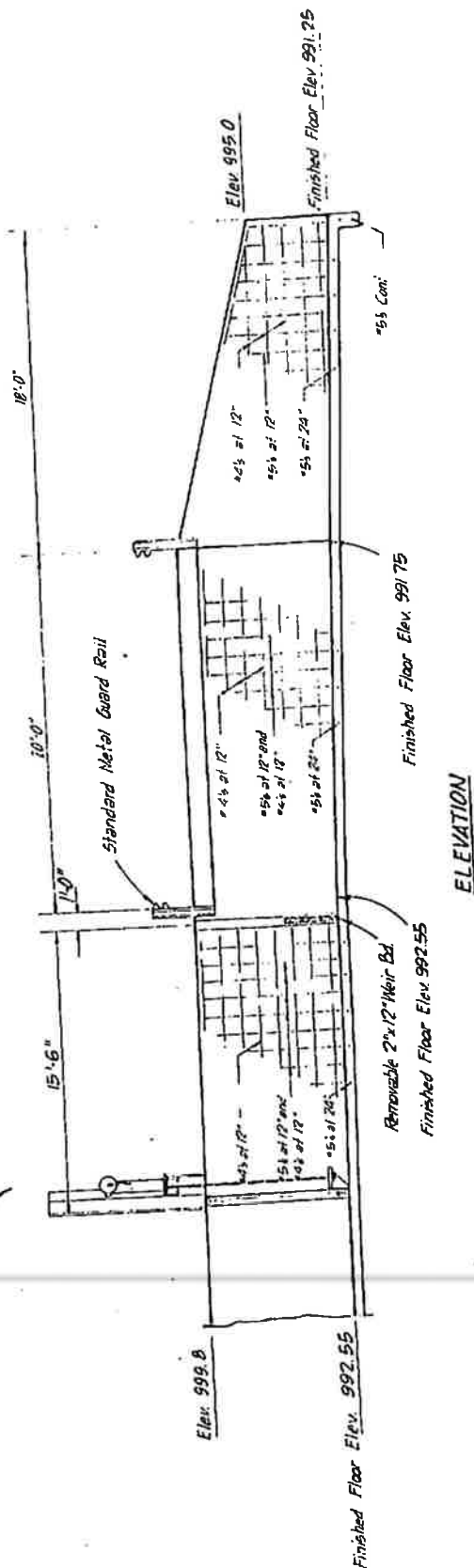
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ELEVATION