

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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APR 09 1998

Department of Water Resources

A. GENERAL INFORMATION

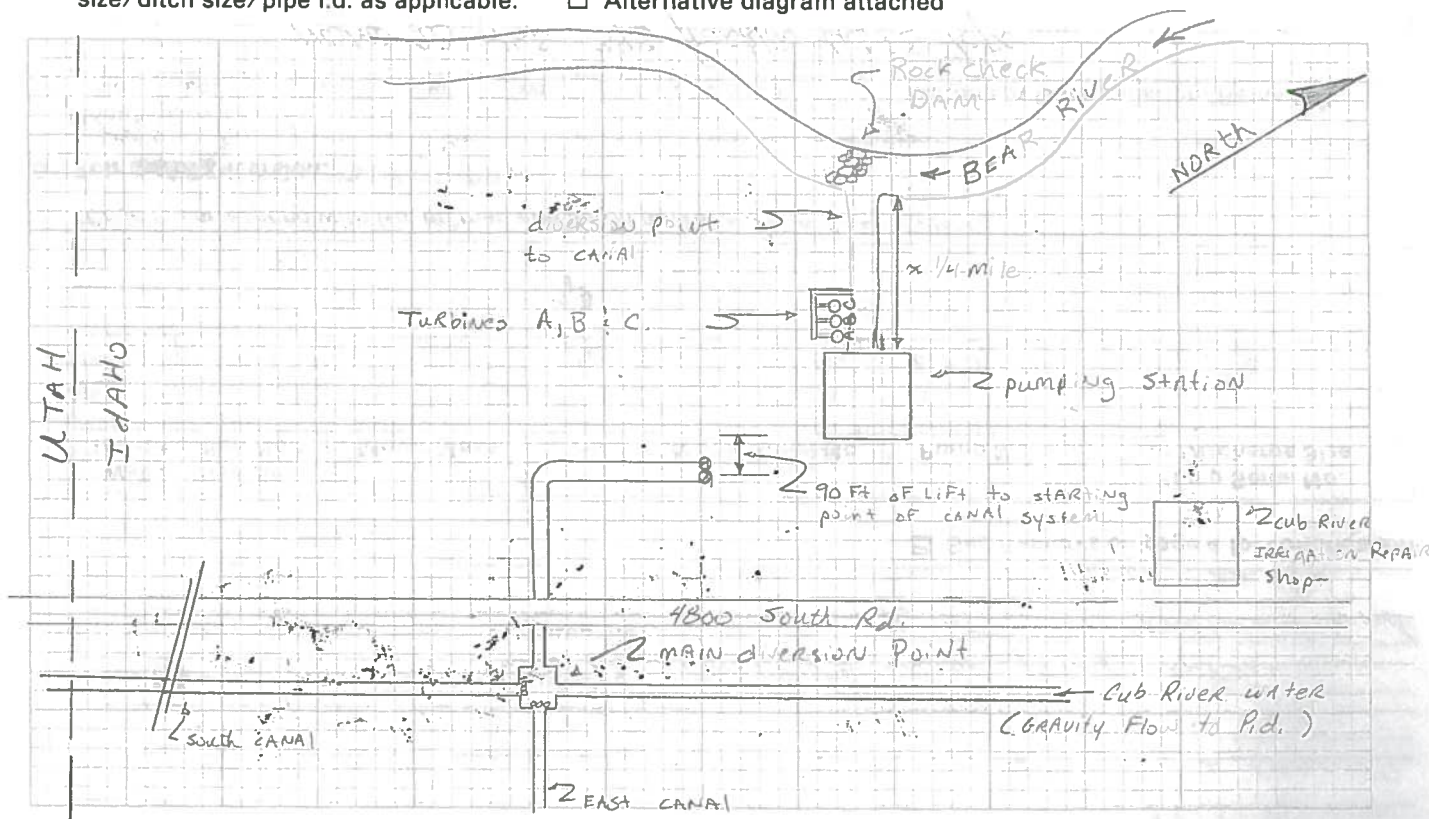
1. Owner: Cub River Irrigation Co. Permit No. 13-7279
Current Address: P.O. Box 215, Lewiston, Utah 84320 Phone No. _____
2. Accompanied by: Began Wheeler EXAM. DATE: 8-22-88
Address: 2530 W. 2000 S. Lewiston, Utah Phone No. (801) 258-2522
Relationship to Permit Holder: MANAGER (President) (801) 258-2371 w
3. Source: BEAR RIVER tributary to SALT LAKE

B. OVERLAP REVIEW

1. Other water rights with same place of use: _____ ☐ Copies Attached
2. Other water rights with same point of diversion: _____ ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = _____

2. ☒ Copy of U.S.G.S. 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 or more).
- ☒ Photo of Diversion and System Attached (required for all but single household domestic groundwater, and stockwater).

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Bear River to a check dam which backs water up to a certain height then to a canal which flows due east $\approx 1/4$ mile to pumping station. From this station the water is pumped up hill 90ft in lift to a concrete canal system then south then heads east runs under 4900 North Rd to the main diversion point where sub-River water and Bear River water is combined and then flows into a South canal and a East canal.

☒ See Remarks on page 4 for continuation

- 4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor ^{I.D.} Serial-No.	Pump Make	Pump Serial No. or Discharge Size
A	U.S. Motors	200	R-6377-07-065	AURORA	NONE
B	U.S. Motors	200	R-6377-07-934	AURORA	179-87507
C	U.S. Motors	200	R-6377-08-215	AURORA	NONE

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
					28	16S	39S	Franklin	USGS Topo

6. Place(s) of Use:

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	

BENEFICIAL USE FIELD REPORT

DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO

Do not use this space

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D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements:

NONE

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3)

: Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$ _____

2. Volume Calculations for Other Uses:

H. REMARKS AND OVERLAP REVIEW ANALYSIS

pumps / motors A, B, and C are the newest turbines added to the system. The pumps / motors are located outside of the pumping station on the south front side.

30 March 1998: Pete Peterson, the Bear River Watermaster, spoke with me today. He said that in the 12 years he has been watermaster he has never delivered more than the 100 cfs called for in ^{license} permit 13-02066. In a review of the permit no beneficial use was found. Dennis M. Dunn, Sr Water Resource Agent.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
None found DMS				
Totals:				

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 |

J. AUTHENTICATION

Field Examiner's Name Richard Leron

Signature Richard Leron

Certification Date _____

Field Report Preparation Date _____

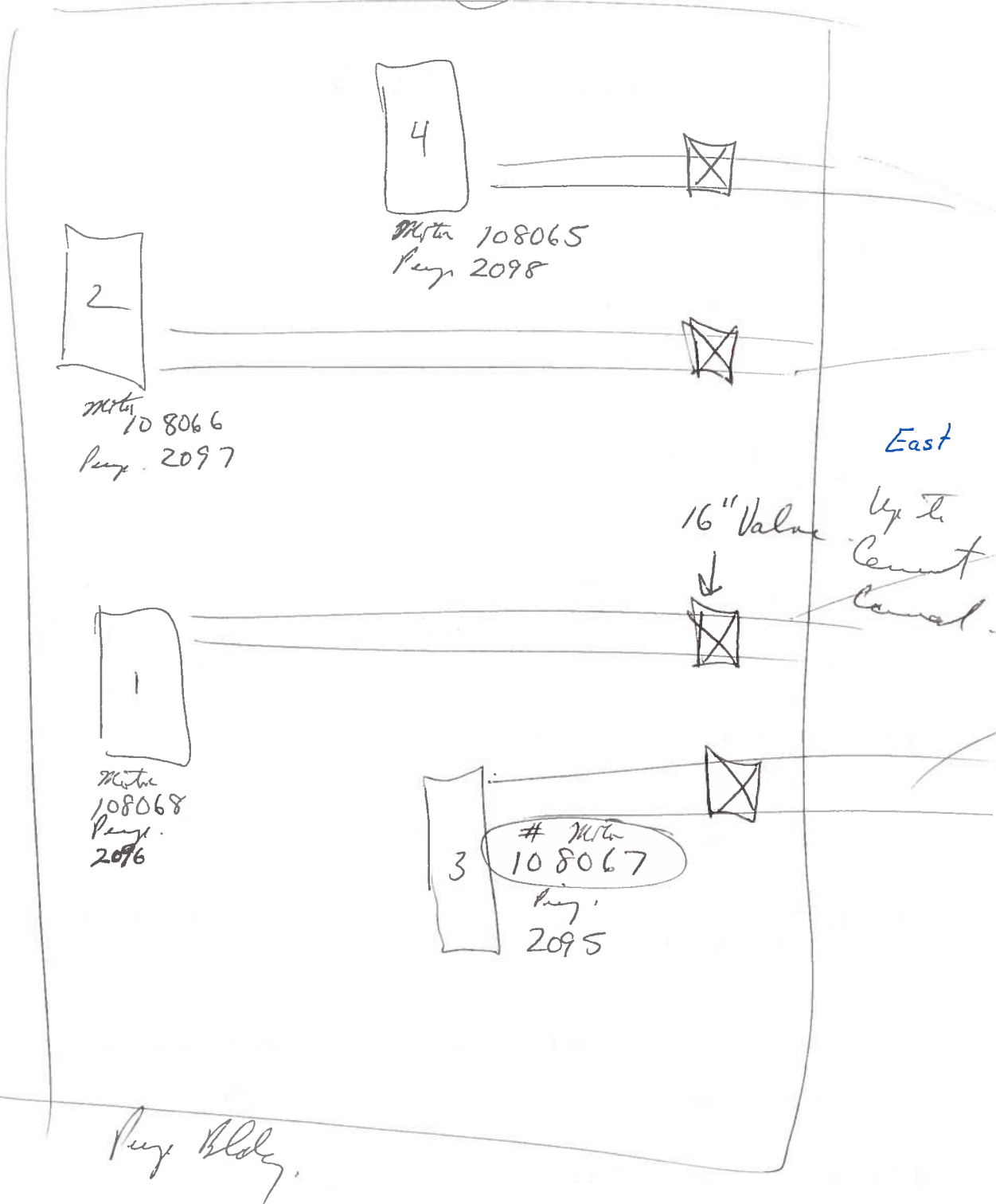
CONSULTANT SEAL

- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

13-7279

old pumps

↑ N up line



All 4 Motor 350 HP 870 RPM 402 A 3φ
 Allis Chalmers

Pump Allis Chalmers
 Type 5 JLA II
 Foot 7 Head. ~~90~~ 1250 GPM ~~20~~ at 870 RPM

13-7279

new pumps

Floyd Morrison

801-258-5209

Asst. Manager - Cub. Ken
Her.

Pump A

200 HP 3 ϕ 1770 RPM

ID R-6377-07-065 — R2142775

Aurora Pump - Verti-Line

(B)

200 HP

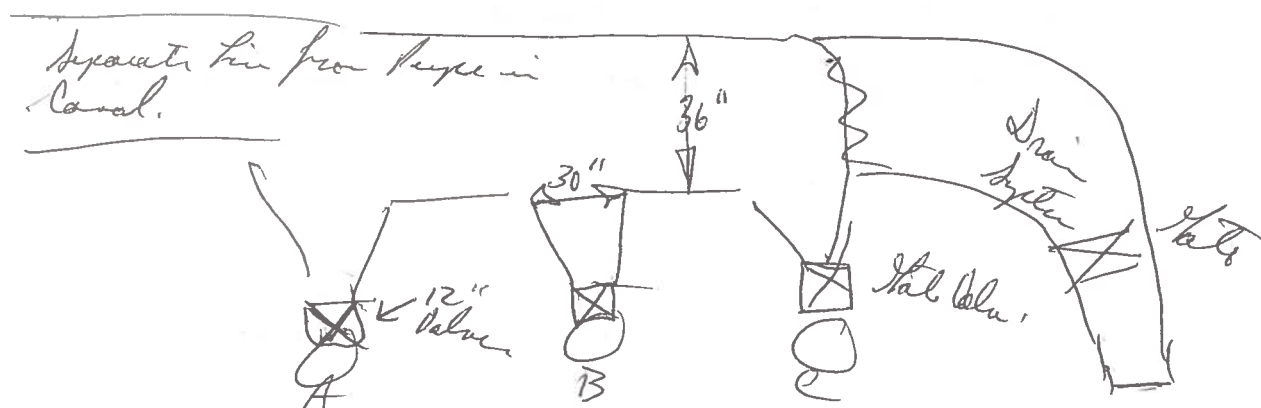
R-6377-07-934 — R2140124

Pump Aurora

(C)

200 HP

R-6377-09-0215 R3250989 M



WALL THICKNESS
0.2728 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
30.164 IN U

MM-DD HH:MM
07-09 01:33

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

07-09 01:3300 *R
+002.00 % AI2

MODE SELECT
TO CHECK

1323.0 MMSEC
099.86 % TO

07-09 01:3700 *R
+ 1.383E 4GPM

07-09 01:3800 *R
+ 1.428E 4GPM

07-09 01:4000 *R
+ 1.540E 4GPM

07-09 01:4200 *R *PAHPS*
+ 1.655E 4GPM *AB+C*

07-09 01:4900 *R *PAHPS*
+ 1.131E 4GPM *B+C*

07-09 01:5400 *R
+414.750E 1GPM

07-09 01:5400 *R
+492.416E 1GPM

07-09 01:5500 *R
+469.169E 1GPM

07-09 01:5700 *R *PAHPS*
+533.891E 1GPM *B only*

+ E 0GPM

MODE SELECT
DATA SET

DATA SET MODE
? PRINTER

PRINTER USE
? YES

MODE SELECT
INPUT

MODE SELECT
INPUT

OUTER DIAMETER
36.0000 IN

PIPE MATERIAL
? CS,SS

WALL THICKNESS
0.2728 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
30.164 IN U

MM-DD HH:MM
07-09 01:33

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

07-09 01:3300 *R
+002.00 % AI2

MODE SELECT
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07-09 01:3700 *R
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07-09 01:3800 *R
+ 1.428E 4GPM

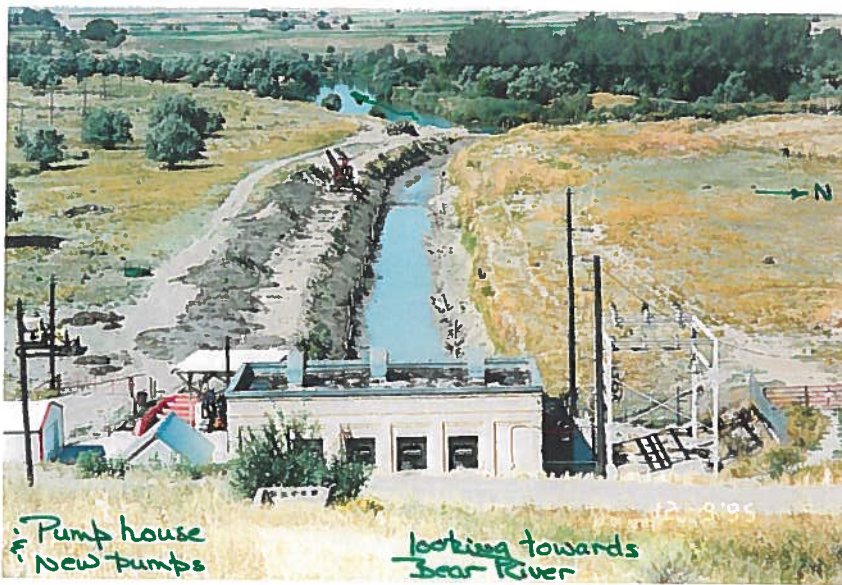
07-09 01:4000 *R
+ 1.540E 4GPM

13-7279

13-7274



Inside of
pump house

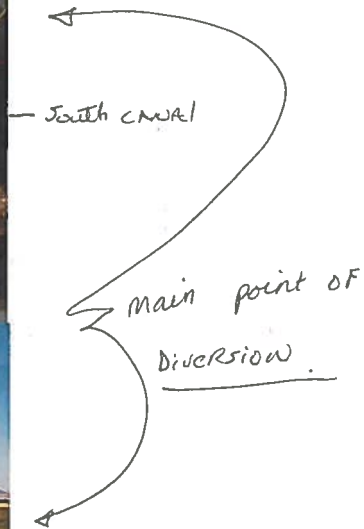
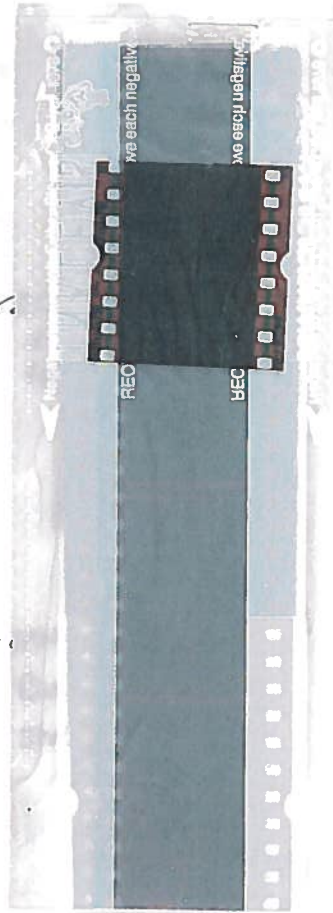
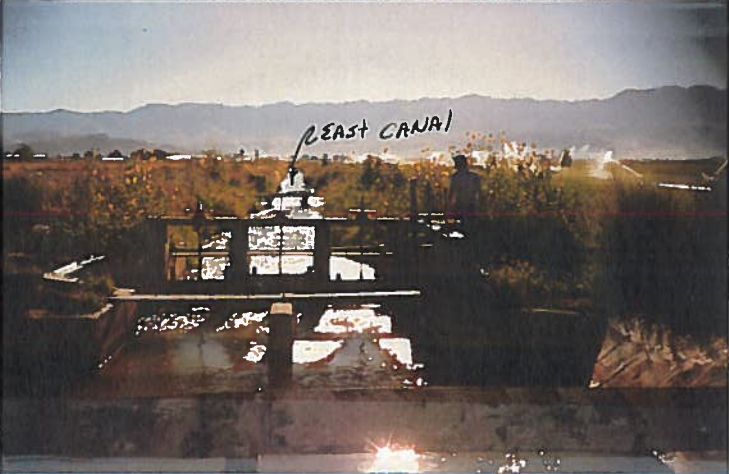


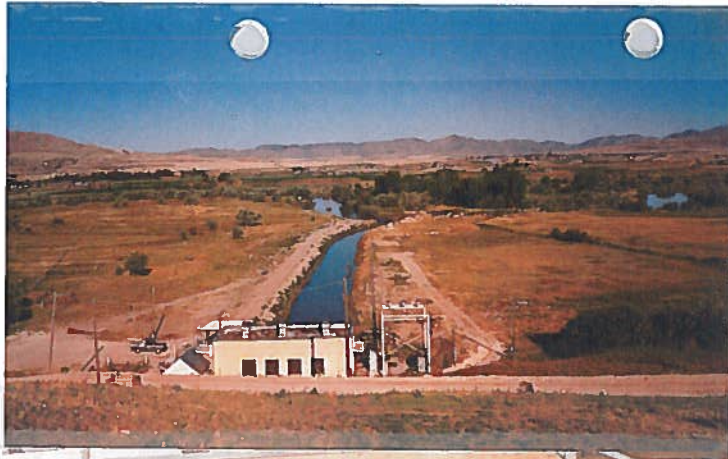
Pump house
new pumps

looking towards
Bear River

Inlet Canal looking
towards the pump house







↗ pump station



↗ waste water
overflow



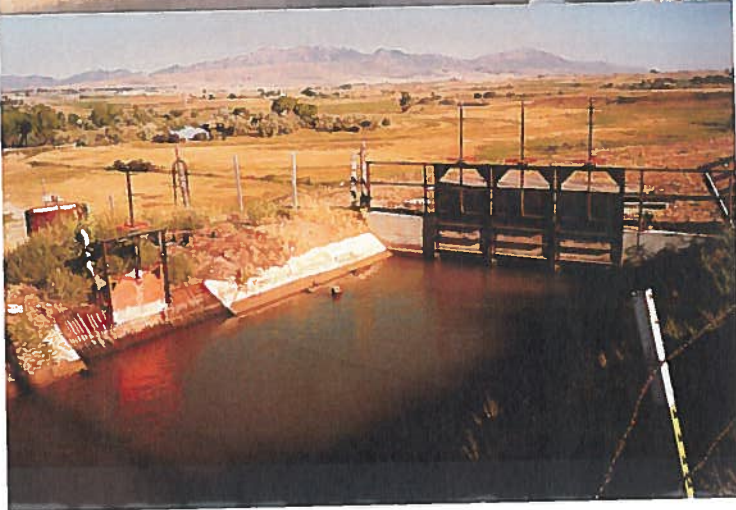
↗ New turbines.



↪ main line to canals or waste water during winter time.



↪ Turbines inside pump station



↪ starting point of canal system.

15-1217

