

RECEIVED
MAY 23 2005
Page 1
DEPARTMENT OF WATER RESOURCES

Permit No: 2-7472
Exam Date: 2/28/05
3/10/05
3/11/05

- | 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
|------------------|------------------|
| SNAKE RIVER | COLUMBIA RIVER |

1. Other water rights with the same place of use:
Rights that supply water to same fish propagation facility are: 36-7239 (Springs trib to Alpheus Ck)
47-7758 (Hot Well)
47-8356 (Perrine Coulee - Wastewater)
47-8357 (Porcupine Spring)

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

SNAKE RIVER NW1/4SE1/4SE1/4 Sec. 29, Twp 09S, Rge 17E, B.M.
 TWIN FALLS County

2. **PLACE OF USE:** FISH PROPAGATION

[illegible]

Method of Determination: Arcview GIS system

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

D. FLOW MEASUREMENTS

1.

Measurement

Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Polysonic Meter						

2. Measurements: 4.25 cfs (19080 gallons in 10 minutes)

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method: Meter portable meter installed at outfall of pipeline at head of raceways.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NONE

2. Volume Calculations for Other Uses:

$$V_{\text{fish}} = [\text{Diversion Rate (cfs)}] \times (\text{Days in season}) \times 1.9835 =$$

$$4.25 \times 365 \times 1.9835 = 3077 \text{ AFA}^{***}$$

***Note that this is the worst case. The watermaster (Cindy Yenter) indicates that over the last few years 36-7239 is curtailed in March and back on in November. This period when 36-7239 is off is when the pump in the Snake River is operated. 3/15 to 11/1 is approx. 231 days or 1947 AFA.

G. NARRATIVE/REMARKS/COMMENTS

This water source was developed to replace the diminishing flow diverted under 36-7239 for fish propagation. Normally the pumps are only used when the flow from Alpheus Springs is curtailed. The water diverted is pumped from the Snake River and conveyed to a site upstream of the the fish ponds in the northwest corner of the property where water is mingled with water from the hot well (47-7758), from Porcupine Springs (47-8357) and from Perrine Coulee (47-8356). The diversion consists of two similar pumps delivering to a common pipeline. With both pumps running the discharge was measured to be 4.25 cfs.

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
FISH PROPAGATION	01/01 to 12/31	4.250 CFS	3,077.00 AF
Totals:		4.250 CFS	3,077.00 AF

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

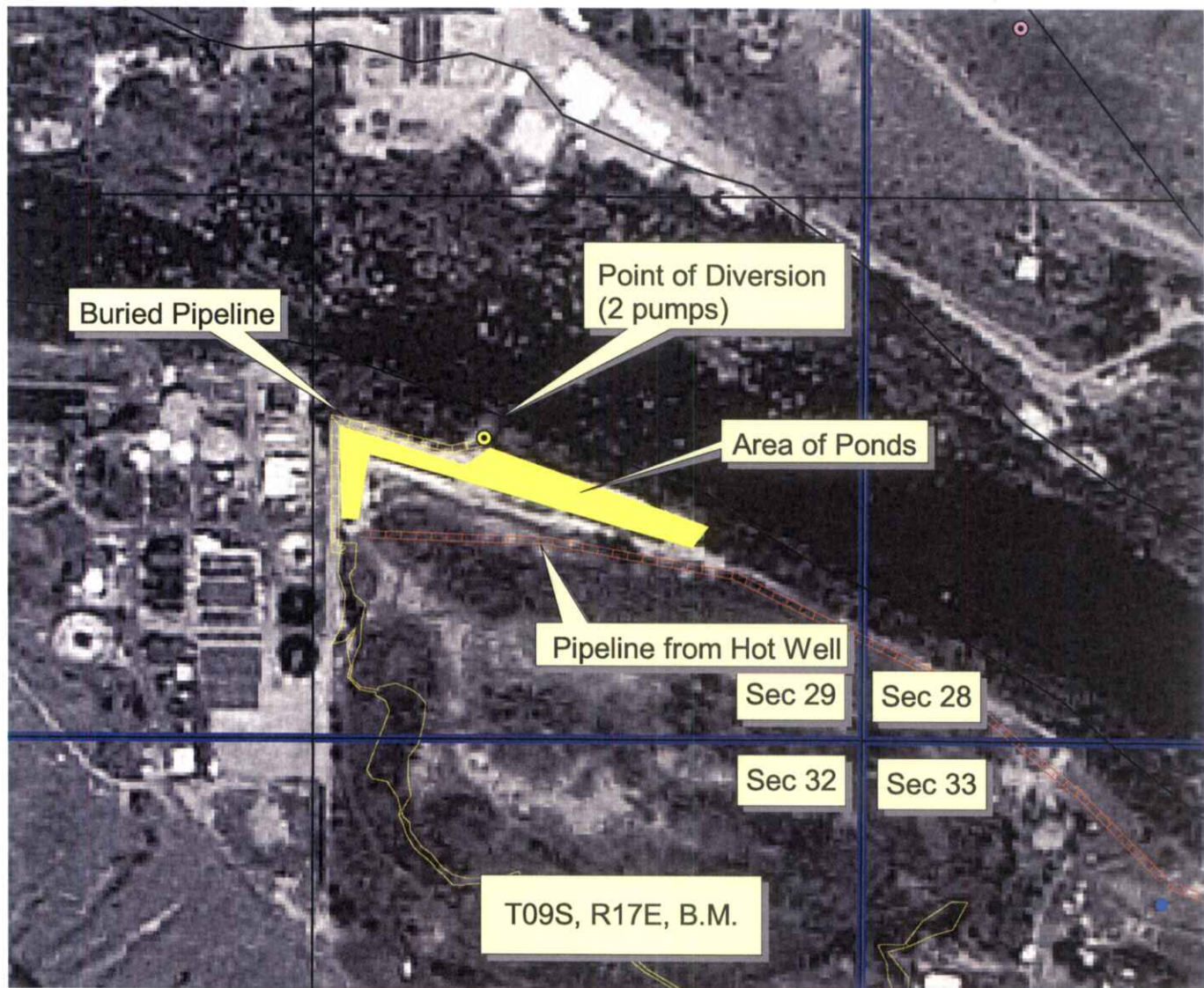
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name  Date 5/16/05

Reviewer _____ Date _____

Field Exam 02-7472



1320

0

ADM
5/10/05

Point of Diversion for 02-7472



View of point of diversion looking up river. The pumps are 20 HP each. Portion of ponds served on right.

Both Pumps have US Motors with Gould Pumps

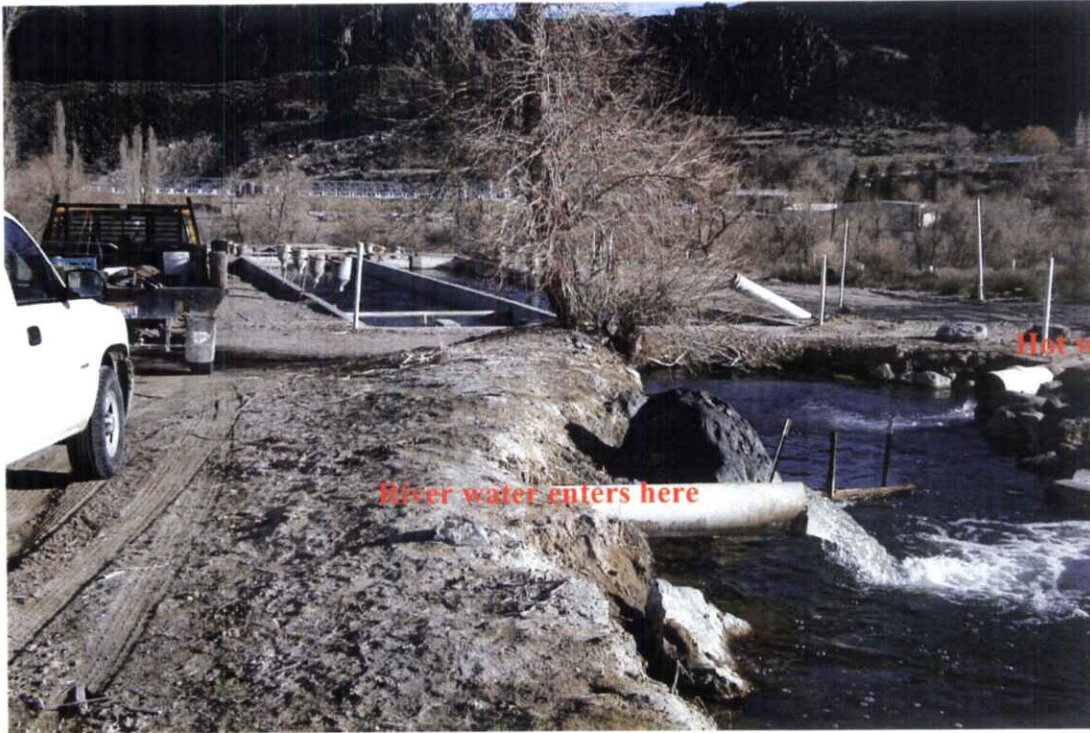
Left
ID C09 01044613 010F
NRR2

Pump Serial LP99142

Right
ID C09 01044613 010F
NRR5

Pump Serial LP99143

Point of outfall from river pumps at head of raceways.



River water enters here

Hot water enters here

Alt Notes
02-7972

File

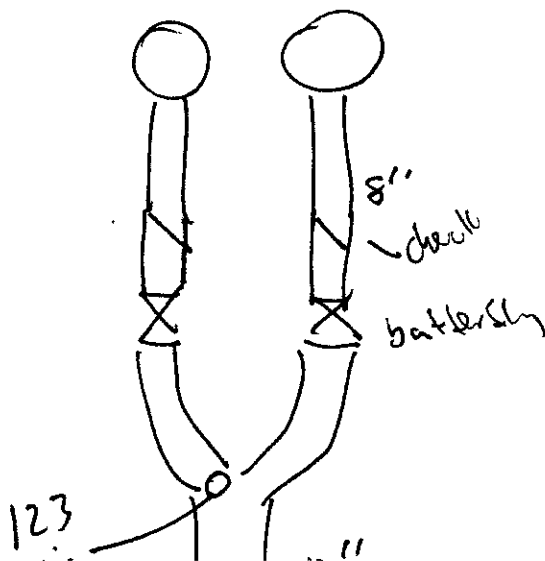


ID C09 01044613 010 F
NRR2

Gould Pump
Sevizi LP99142

ID C09 01044613 010 F
NRR5

Gould Pump
Sevizi LP99143



02-7472

OUTER DIAMETER
12.2402 IN

PIPE MATERIAL
PVC

WALL THICKNESS
0.2319 IN

KIND OF FLUID
ANOTHER

SOUND VELOCITY
1450 M/S-

SPACING
9.095 IN U

0452.7 MMSEC
101.18 % T0

03-11 14:4300 *R
+002.90 % A12

14:45+	1.958E 3GPM	00R
	+ 5.767E 0FPS	00R
	+01171 *G	00R
	-00000 *G	00R
14:46+	1.916E 3GPM	00R
	+ 5.646E 0FPS	00R
	+00000 *10 G	00R
	-00000 *10 G	00R
14:47+	2.007E 3GPM	00R
	+ 6.140E 0FPS	00R
	+00193 *10 G	00R
	-00000 *10 G	00R
14:48+	1.847E 3GPM	00R
	+ 5.442E 0FPS	00R
	+00381 *10 G	00R
	-00000 *10 G	00R
14:49+	2.156E 3GPM	00R
	+ 6.351E 0FPS	00R
	+00578 *10 G	00R
	-00000 *10 G	00R
14:50+	1.845E 3GPM	00R
	+ 5.436E 0FPS	00R
	+00766 *10 G	00R
	-00000 *10 G	00R
14:51+	2.371E 3GPM	00R
	+ 6.984E 0FPS	00R
	+00962 *10 G	00R
	-00000 *10 G	00R
14:52+	2.069E 3GPM	00R
	+ 6.095E 0FPS	00R
	+01158 *10 G	00R
	-00000 *10 G	00R
14:53+	1.944E 3GPM	00R
	+ 5.728E 0FPS	00R
	+01356 *10 G	00R
	-00000 *10 G	00R
14:54+	1.873E 3GPM	00R
	+ 5.510E 0FPS	00R
	+01545 *10 G	00R
	-00000 *10 G	00R
14:55+	1.933E 3GPM	00R
	+ 5.695E 0FPS	00R
	+01735 *10 G	00R
	-00000 *10 G	00R
14:56+	2.054E 3GPM	00R
	+ 6.053E 0FPS	00R
	+01908 *10 G	00R
	-00000 *10 G	00R