

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JAN 27 1998

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 57-07627

1. Owner: Mark S. Jensen Phone No. (208) 896-4334

Current Address: HQ 79 Box 103B, Melba, ID 83641

2. Accompanied by: Angele Jensen EXAM DATE: 7-1-97

Address: (Same) Phone No. (Same)

Relationship to Permit Holder: (Same)

3. Source: Spring tributary to Snake River

B. OVERLAP REVIEW

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

2. Other water rights with the same point of diversion: 57-07457 (irrigation)

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		SE	NE	SE	17	1N	3W	Owyhee	Site Visit, Map

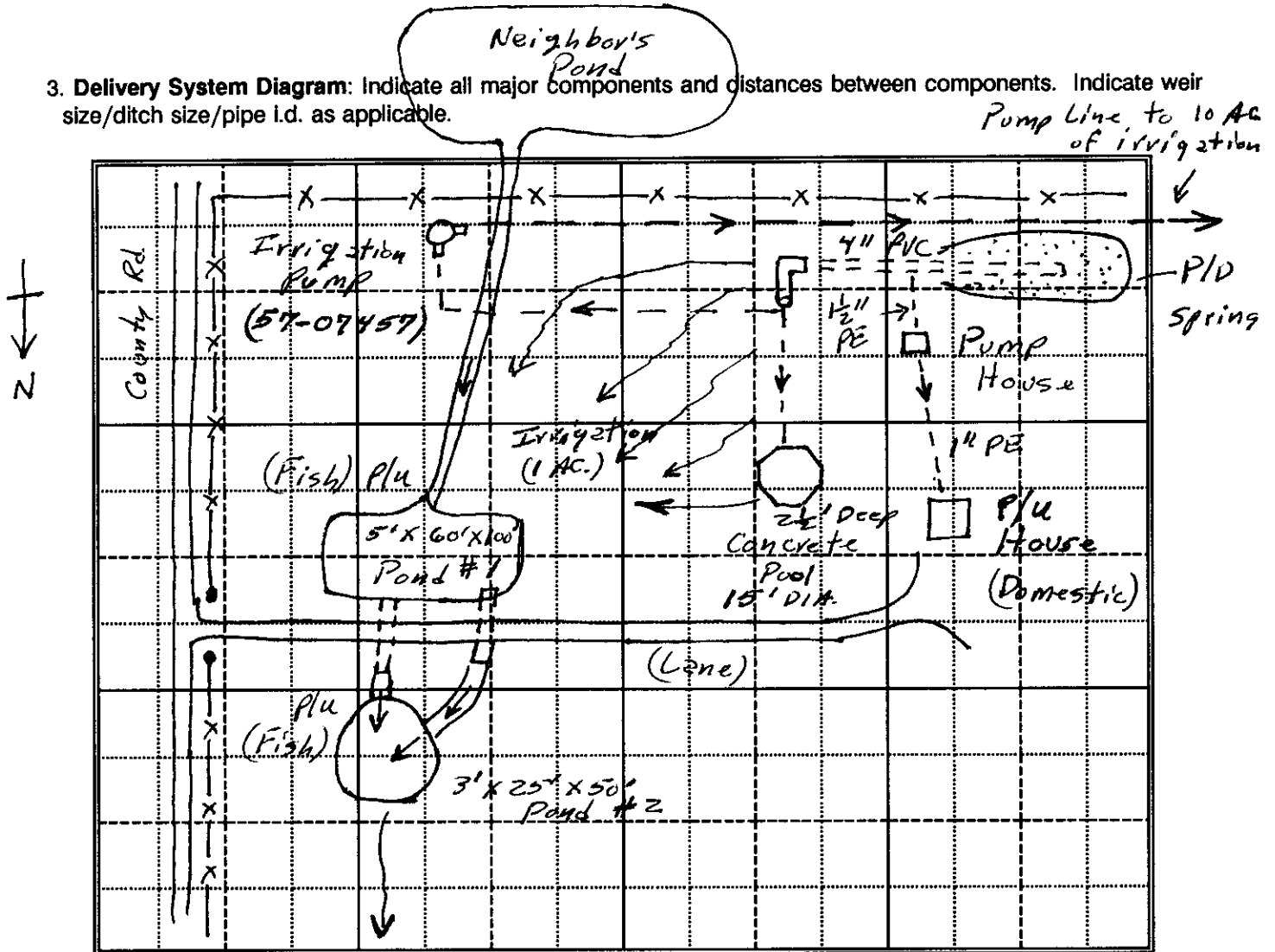
2. Place(s) of Use:

Indicate Method of Determination Site Visit, Map

Indicate Method of Determination <u>Site Visit, Map</u>																			
TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
1N	3W	17																	
			</																

D
FISH

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



Scale: 1" = No Scale

☒ 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
Pump House	Sears	2	Model	Sears	Model 390-
(Domestic)			C48MZE		262601
			C11CZ		

*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

2. Measurements: None - Not possible to measure surface runoff into pond from irrigation of 1 AC. tract - and domestic is a closed pipe system.

E. NARRATIVE/REMARKS/COMMENTS

A. This permit is for 2 fish ponds, and 1 home (Domestic).

1. The water source for this permit is a spring development with a 4" PVC pipe that collects the water. The 4" PVC collection pipe conveys the spring water to 1) a 1½" PE pipe for the pump house (domestic), 2) a 15' Dia., 2½' Deep concrete pool with overflow, 3) a line to an irrigation pump for WR # 57-07457, and 4) for surface irrigation of 1 Acre tract just above the first fish pond (#1), also under WR # 57-07457.

2. Water from the spring is the source for WR # 57-07457, which irrigates 1 Acre tract just above Pond #1, and 10 Acres from the irrigation pump (to the west).

3. The 1½" PE pipe feeds water to the pump house, which pressurizes it for domestic use at the house. The pump house has a 2 HP pump, air tank, valves, etc., and supplies water to the house at 45 psi.

4. The 4" PVC collection line ^{also} supplies water to a concrete pool; the overflow from this pool flows to the pond #1 as surface water.

5. The 4" PVC collection pipe also irrigates ^{the} 1 Acre tract, and the surface runoff enters pond #1.

6. Pond #1 receives surface runoff from irrigation, the concrete pool, and from a little overflow from a neighbor's pond located to the south. Pond #2 is

Have conditions of permit approval been met? ☐ yes ☒ no

filled from the overflow of Pond #1.

Condition 4. There was no ~~at~~ evidence that the owner has met this requirement. There would be losses from evaporation and seepage from the ponds, and possible domestic losses. Augmentation could be from the neighbor's pond to the south. This pond is filled from irrigation runoff, and has a pump-back sprinkler irrigation system.

Condition 5.
No evidence of any water treatment from pond outflow

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: None - no practical way to measure flow; Flow was very low, Pool was dry and just irrigation flow was wet ground.

1) Domestic: Theoretical - $Q = \frac{(8.8)(240)(702)}{(4575)(\frac{34}{14.75})} = 0.12 \text{ cfs} > 0.02 \text{ cfs}$ Allow 0.02 cfs in permit.

2) ~~Fish~~ Fish Propagation:

From the Field Exam for 57-07457; they timed the filling of the concrete pool, and determined the flow rate from the spring to be 0.33 cfs. They allowed 0.22 cfs for this irrigation right. The

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \frac{4" \text{ PVC pipe irrigates the 1 Ac.}}{}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{Tract above Pond \#1, and the flow enters the}$

2. Volume Calculations for Other Uses:

Fish Propagation: Pond from surface runoff, which could not be measured. We can allow 0.20 cfs, since the spring can produce 0.33 cfs as measured.

Pond \#1: Vol. = $\frac{[(5' \times 60' \times 100')]}{(66)(66)(10)} = 0.69 \text{ AF}$

Pond \#2: Vol. = $\frac{[(3' \times 25' \times 50')]}{(66)(66)(10)} = 0.09 \text{ AF}$

H. RECOMMENDATIONS

1. Recommended Amounts

Domestic: Allow 0.6 AFA for internal use only

0.78 AF + losses

~ 1.0 AFA

Beneficial Use

Period of Use

Rate of Diversion

Annual Volume

From

To

Q (cfs)

V (afa)

Fish Propagation

01/01

12/31

0.20

1.0

Domestic

01/01

12/31

0.02

0.6

Totals:

0.20

1.60

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

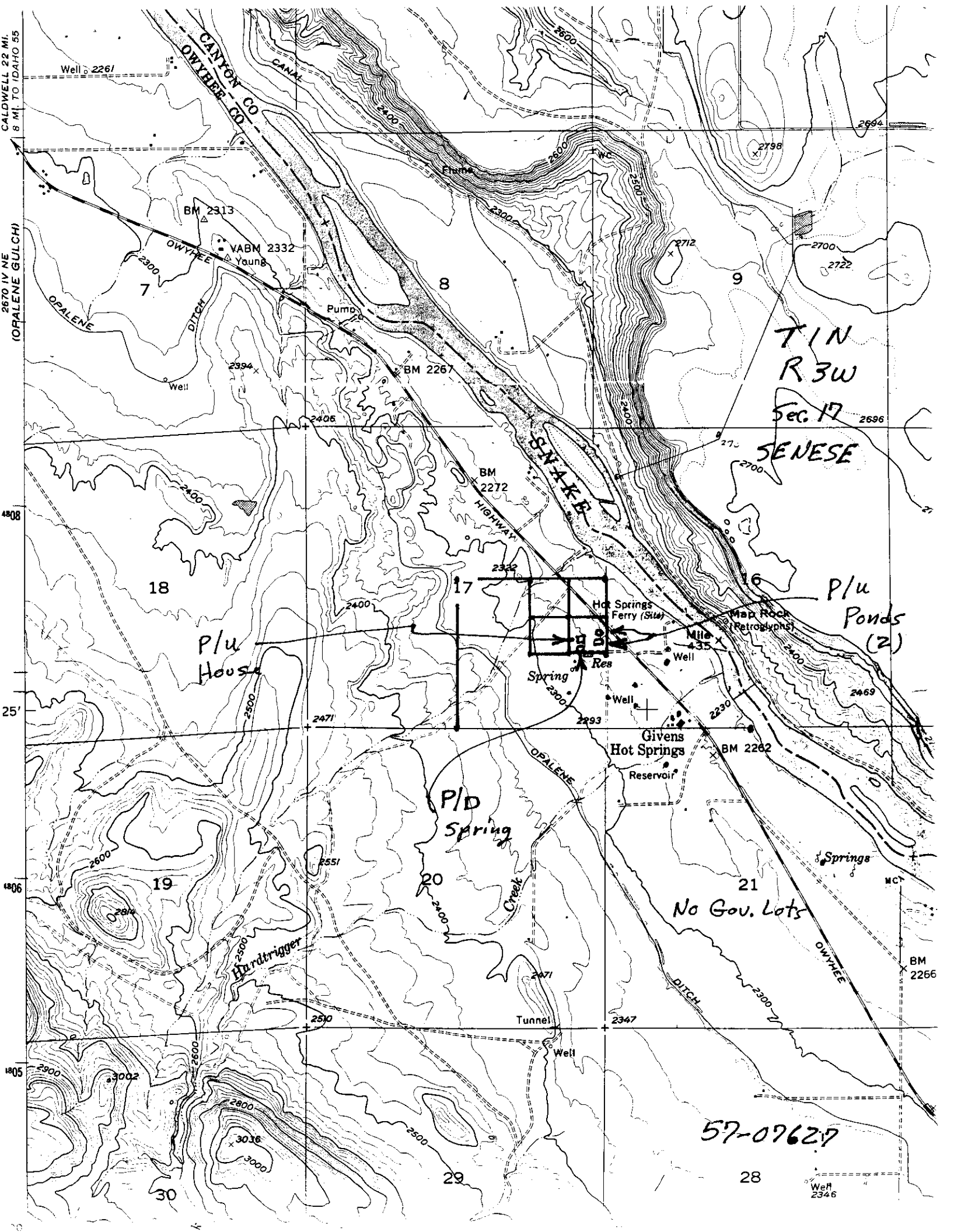
☐ Other

I. AUTHENTICATION

Field Examiner's Name Jan Zomich Date 1-12-98

Reviewer _____ Date _____

SEAL



2670 IV NE
CALDWELL 22 MI.
8 MI. TO IDAHO 55
(ORALENE GULCH)

T1N
R3W
Sec. 17
SENESE
P/u
Ponds
(2)

57-07627

Well
2346

1 of 3



P/O

Spring Area
in foreground.
(Green Area)

Pump House
- Metal shed
on right.

Concrete Pool
on left.

P/U

Pond #1
in background
by Olive Trees.

View looking
East.



Pump House
for Domestic
- House.

Pump/motor,
Air Tank, etc.

PE pipe in
foreground
goes to
House.

57-07627

2 of 3

P/D

4th POC
Pipe from
Spring.

This is end
of pipe used
to flood irrigate
the 1 AC. Tract
above Pond #1.

Pipes for domestic
pump and irrigation
pump are taken
off upstream of
this point.



P/U

House -
Domestic
in background.

Pump House
on left and
Concrete Pool
on right.



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3 of 3

P/u

Fish Pond #1.
(foreground)

View
Looking
West

House, P/u,
in back-
ground.



P/u

Fish Pond #2.

View
Looking
South.



57-07627