

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22725

Exam Date: 8/16/2007

1. Current Owner: FAULL RANCH ESTATES OWNERS ASSN INC
PO BOX 88
HORSESHOE BEND ID 83629
(208) 793-3388
2. Accompanied by: KENNETH J MCKAY
Phone No: (208) 793-3224
Address: 24 WAVERLY DR
Relationship to Permit Holder: MEMBER IN HOME OWNERS ASSOCIATION

3. SOURCE TRIBUTARY
PAYETTE RIVER SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 65-3803C
2. Other water rights with the same point of diversion: 65-2858, 65-9417, 65-10963, 65-22713

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

PAYETTE RIVER NW1/4NE1/4NW1/4 Sec. 11, Twp 07N, Rge 02E, B.M.
BOISE County

Method of Determination: Aerial Photo

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
07N	02E	2	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	3.7
																			3.7

Total Acres: 3.7

Method of Determination:

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
705630	N/A	100	N/A	Jacuzzi	T-453
	Century Electric	50	N/A	Jacuzzi	50 GM-T
	Century Electric	25	9M	N/A	N/A

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Fuji Flowmeter	Ultrasonic	Fuji				8/16/2007

2. Measurements:

0.27cfs

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

0.27 cfs measured at maximum running conditions, limited to 0.11 cfs by permit

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (3.7) \times (4.5) = 16.7 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.11) \times (230) \times 1.9835 = 50.2 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 16.7 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Water is diverted from Payette River to POU using 10 inch mainline. POD and POU right off of Hwy 55 near Gardena. Two slave pumps help bring water up from the river to the main pump house. A 100 hp pump is primarily used, with one 50 and one 25 hp pump used to supplement depending on demand. A 3 inch pipe then diverts water from the mainline to owners property. A lockable control device is found inline between takeoff point on mainline and system on POU. Irrigation system consists of 33 heads total with 23 heads on when operating at maximum pressure. Nozzle diameter 9/64. Multiple cut off valves used for maintenance are found on this applicants system and also on neighbors system. Neighboring permit number is 65-22713. These two permits share system, with this permit being second in line on overall system. A measurement of 0.27 cfs was taken on the 3 inch pipe during full system capacity flow with Fuji Ultrasonic Flowmeter.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 10/31	0.110 CFS	
<u>Totals:</u>		0.110 CFS	16.70 AF

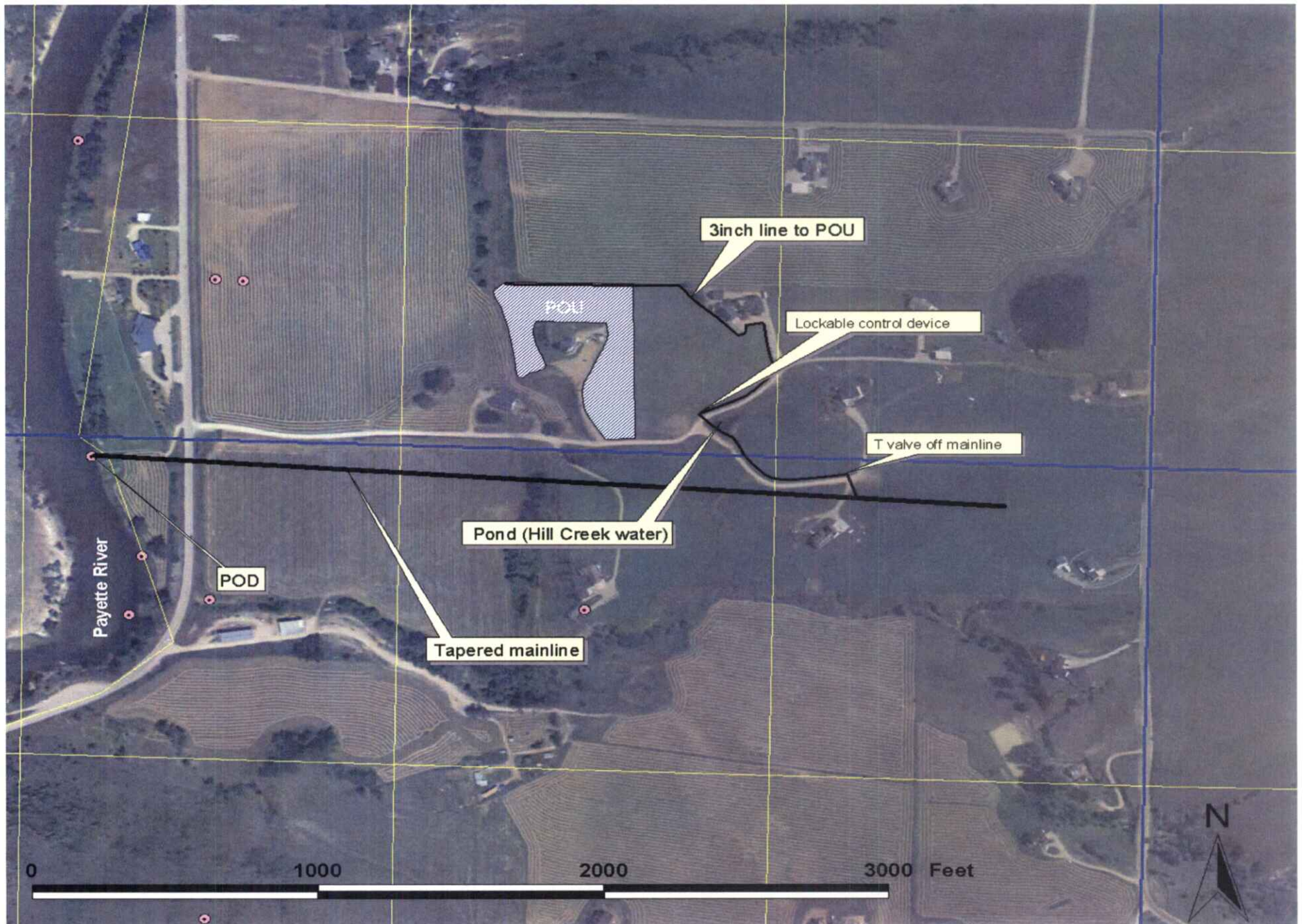
2. Recommended Amendments

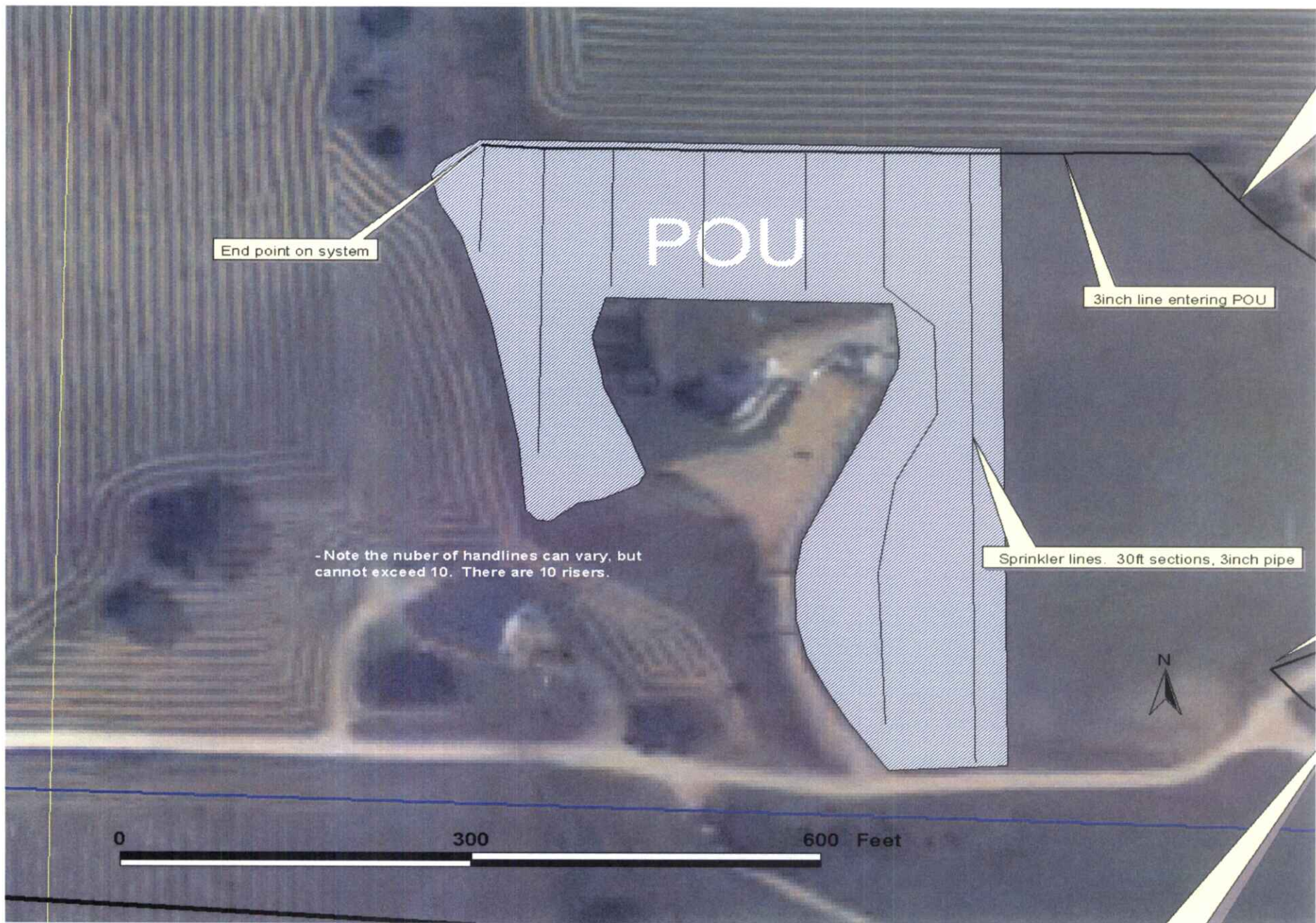
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Nick Van Dyke Date 8/16/07
 Reviewer Nick Van Dyke Date 8/28/07







- Main pump house, 100hp pump inside.



- Slave pumps



- 50 (left) and 25 (right) hp pumps that provide supplemental pressure when needed. Yellow arrows indicate where water enters mainline from these pumps.



- Mainline T diverting water to owner's property



- Lockable control device. Blue pipe directly above is inlet into system from overlapping right 65-3803C. Source (pond) of 65-3803C is immediately to the right from where picture is taken.



- POU, looking from NE corner down northern boundary. Blue line represents underground supply line.



- POU, from NE corner looking SW towards house.



- Measurement taken of 0.27 cfs. Pipe shown above sits on pond bed, which was close to completely dried-up at the time of the exam.