

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22843

Exam Date: 9/24/2012

1. Current Owner: DALE F NAGY
4977 N HOLLOW LN
BOISE ID 83702
(208)861-2204
2. Accompanied by: Dale Nagy
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. **SOURCE**

PAYETTE LAKE

TRIBUTARY

NORTHFORK PAYETTE 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: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

PAYETTE LAKE

L2 NE1/4NW1/4

Sec. 2, Twp 18N, Rge 03E, B.M.

VALLEY County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
18N	03E	2					1.3			1.8									3.1
							L2			L3									

Total Acres: 3.1

Method of Determination: Arc Map (Aerial Photo)

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>
N/A	Unknown	5		Gould	(1 1/2")

*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>
N/A						

2. Measurements: No field measurement. Irrigation system is pressurized by two (2) pressure tanks. Gauge pressure reading of 51 psi.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 5/30 + (2.31 \times 40) = 30.8/122.4 = 0.25 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.25 \text{ cfs} > 0.12 \text{ cfs } Q(\text{permit})$$

$$HP = 5$$

$$P = 40 \text{ psi (Assumed)}$$

$$Z = 30' \text{ (Estimated)}$$

Appears that the current pumping system is capable of attaining the permit diversion rate of 0.12 cfs. However, since only 3.1 acres of lawn and landscaping is actually irrigated, not 4.0 acres as indicated on the permit, recommend a diversion rate of 0.09 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 5-hp sewage pump, located in Payette Lake near the right holder's boat dock, diverts water for irrigation of lawn and landscaping in Lots 39 & 40 of the Harris Cove Subdivision. Water is discharged through 1 ½" PVC pipe to two (2) pressure tanks in a mechanical room in the home.

IRRIGATION SYSTEM:

The irrigation system, which is comprised of pop-up and rotary head sprinklers, is pressurized by two (2) pressure tanks located in the mechanical room. The irrigation system operating gauge pressure reading was 51 psi.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.12	&/or	N/A
Beneficial Use Limit	0.12	&/or	N/A
System Measurement	0.25(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.09	&/or	N/A

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/15 to 10/31	0.09 CFS	N/A
<u>Totals:</u>		0.09 CFS	N/A

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

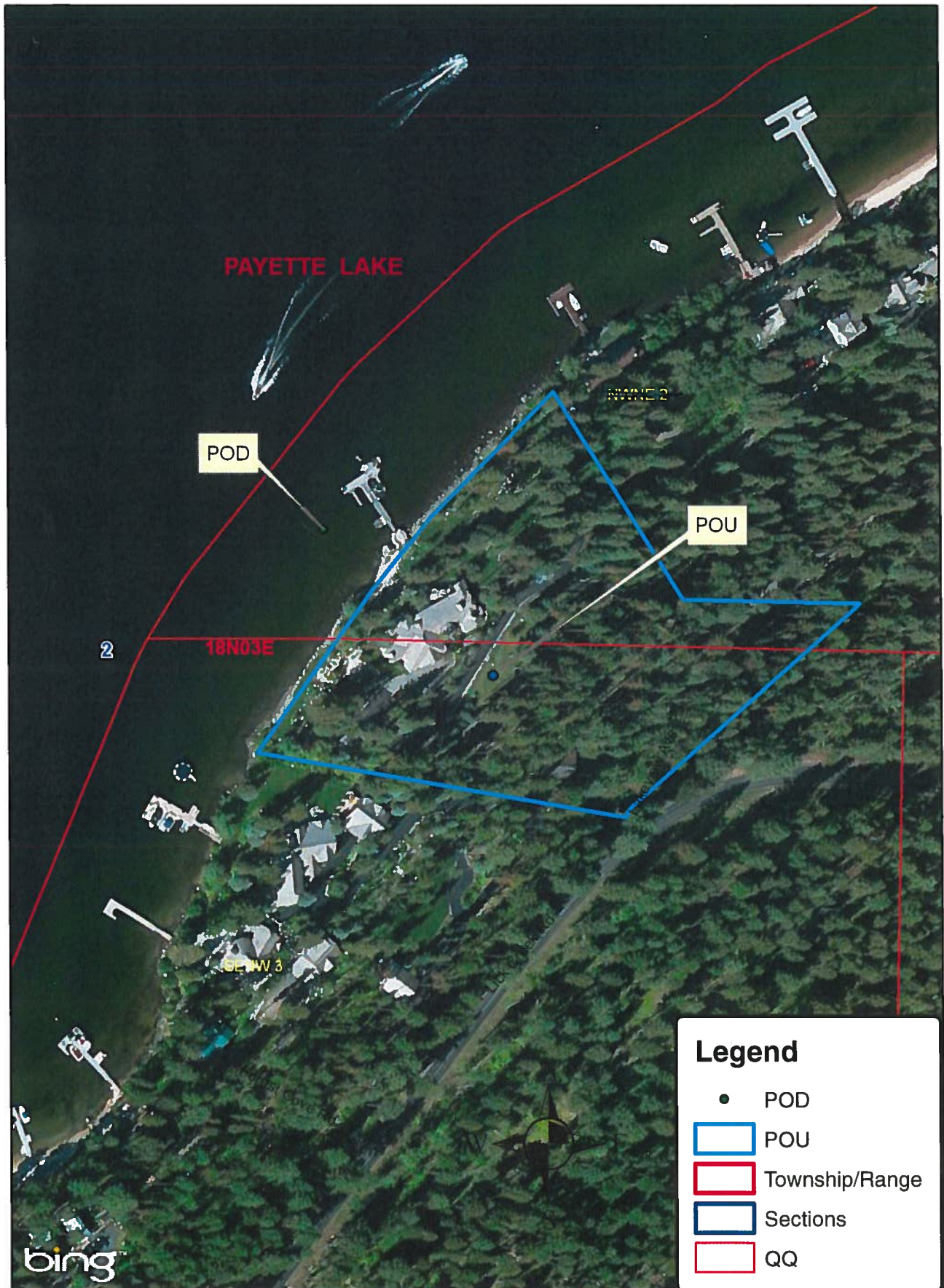
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 3/5/13

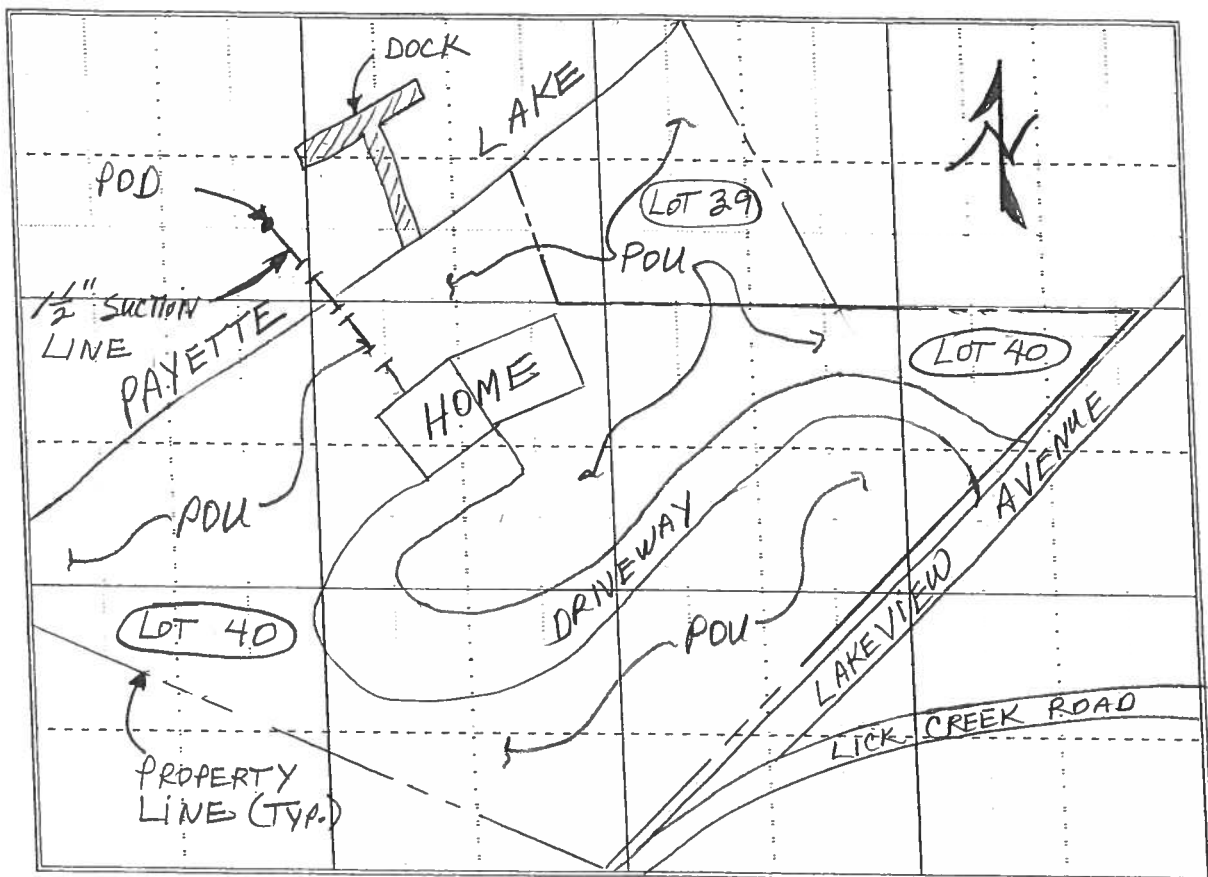
Reviewer _____ Date _____

65-22843
GOV'T. LOTS 2 & 3

BING AERIAL PHOTO - 2011



- 3 **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ 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

FIELD EXAM PHOTOS

Water Right Permit: 65-22843

Field Exam Date: 9-24-12

PLS: SE1/4, NW1/4 Section 2, T.18N, R.03E.

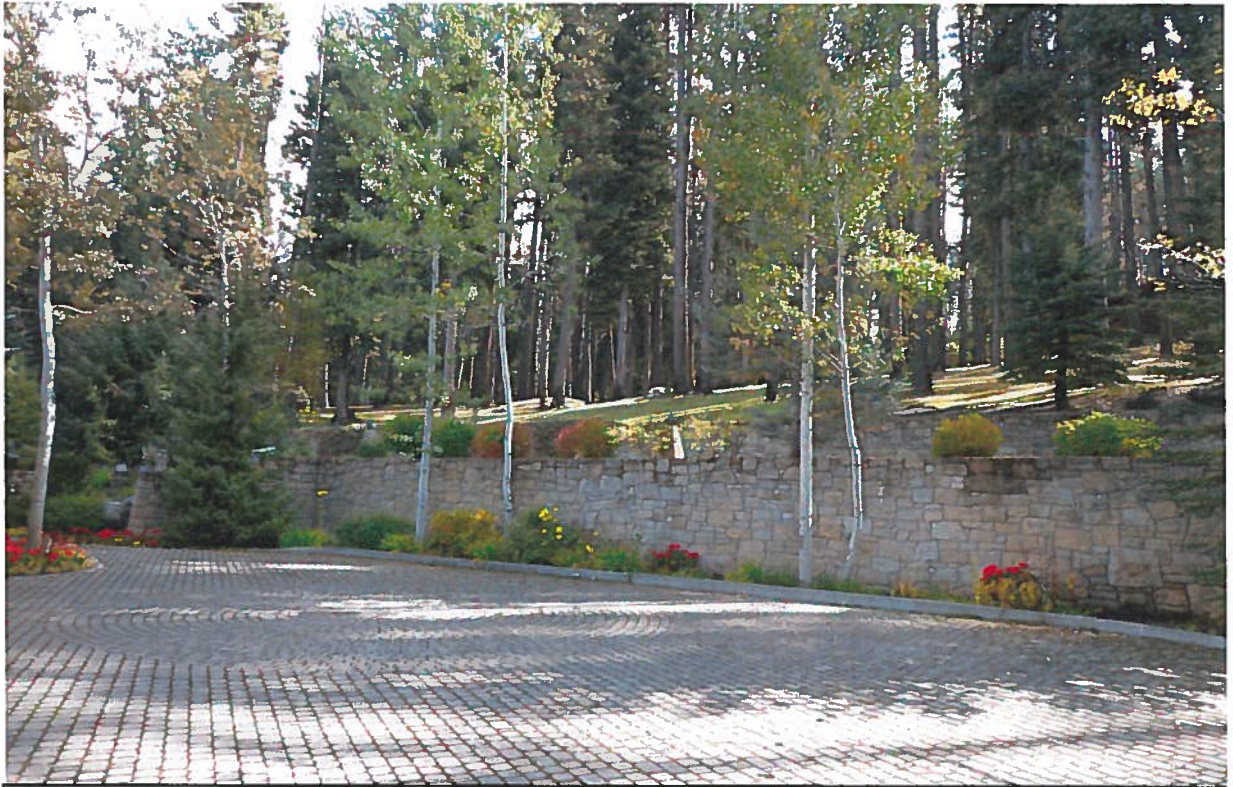
Field Examiner: RC



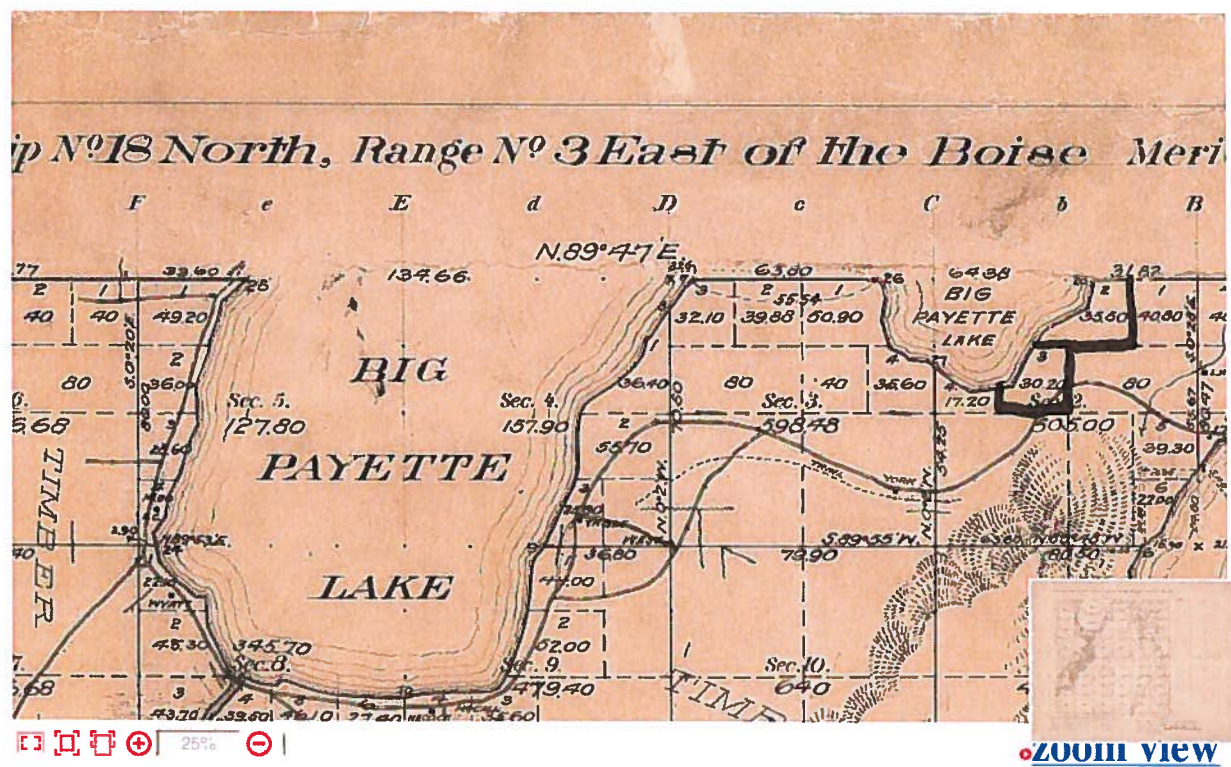
Point of Diversion/Place of Use: View northerly of the right holder's boat docks, which is the approximate location for the 1 1/2" suction line in Payette Lake, and a southerly portion of the irrigated lawn and landscaping typical throughout the right holder's parcel..



View of 1 1/2" suction pipe from Payette Lake, pressure gauge, pressure relief valve, and pressure tank located in the mechanical room of the home.



Place of Use: View easterly of the driveway to the home site, and the lawn and landscaping area on the hillside above the home.



Gov't. Lots 2 4 3