

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23131

Exam Date: 8/21/2012

1. Current Owner: RON DALY FAMILY PARTNERSHIP
5100 BEL AIR STREET
BOISE ID 83705
(208)343-1288
2. Accompanied by: Ron & Cathy Daly
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE

PAYETTE LAKE

TRIBUTARY

PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 65-23132, 65-9854
2. Other water rights with the same point of diversion: 65-9854

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

PAYETTE LAKE

L4 SW1/4SW1/4

Sec. 28, Twp 19N, 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>	
19N	03E	28											0.5						0.5
													L 4						

Total Acres: 0.5

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>
N/A	Unknown	1 1/2		Gould	(1 1/2")
				'Irri-Gator'	

*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>
Pitot Tube						

2. Measurements: No field measurement. Pitot tube too small for sprinkler heads.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: (Theoretical)

$$Q = 8.8 \times 0.7 \times 1.5/15 + (2.31 \times 50) = 9.24/130.5 = 0.07 \text{ cfs}$$

$$Z = 15' \text{ (Estimated)}$$

$$P = 50 \text{ psi (Assumed)}$$

Appears the pumping system is capable of attaining the permit diversion rate of 0.03 cfs. Since irrigable area is approximately 0.5 acre, recommend a diversion rate of 0.02 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \times 3 = 1.5 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 200 \times 1.9835 = 7.9 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.5 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

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

A ½ hp pump, located in the northwest corner of the property, pumps water from Payette Lake to the irrigation system within the right holder's property (Lot 151 of the Payette Lake Cottages). Water is conveyed through a 100-foot section of 1 ½" PVC suction pipe, with the screened intake located north of the right holder's dock.

IRRIGATION SYSTEM:

The lawn and landscaping around the home is irrigated with pop-up sprinklers. The native vegetation is irrigated with rotary sprinklers on 2-foot high PVC pipe risers.

OVERLAP ANALYSIS:**Point of Diversion:**

Water Right 65-9854 appropriates water to be pumped from Payette Lake for domestic use.

Water Right Permit No. 65-23131 appropriates water to be pumped from Payette Lake for irrigation of ½ acre of lawn and landscaping for Lot 151 of the Payette Lake Cottages.

Place of Use:

Water Right 65-9854 appropriates water to be pumped from Payette Lake for domestic use for Lot 151. As stated in Idaho Code Section 42-111, the right holder with a domestic water right is allowed to irrigate up to ½ acre of lawn and landscaping.

Water Right Permit No. 65-23131 appropriates water to be pumped from Payette Lake for irrigation of Lot 151.

As stated in Idaho Section 42-111, the right holder with a domestic water right is allowed to irrigate up to ½ acre of lawn and landscaping within the building lot. Therefore, water appropriations for domestic use and irrigation use for Water Right 65-9854 and Water Right Permit No. 65-23131, respectively, overlap within the right holder's lot.

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

CONDITION NO.8 (01H) – Prior to diversion of water under this right, the right holder shall install a lockable device. Right holder constructed a locking box which is placed over the pump, suction, and discharge piping. Right holder is in compliance with the condition of approval.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.03	&/or	N/A
Beneficial Use Limit	0.03	&/or	N/A
System Measurement	0.07(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.02	&/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	0.020 CFS	1.5 AFA
<u>Totals:</u>		0.020 CFS	1.5 AFA

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

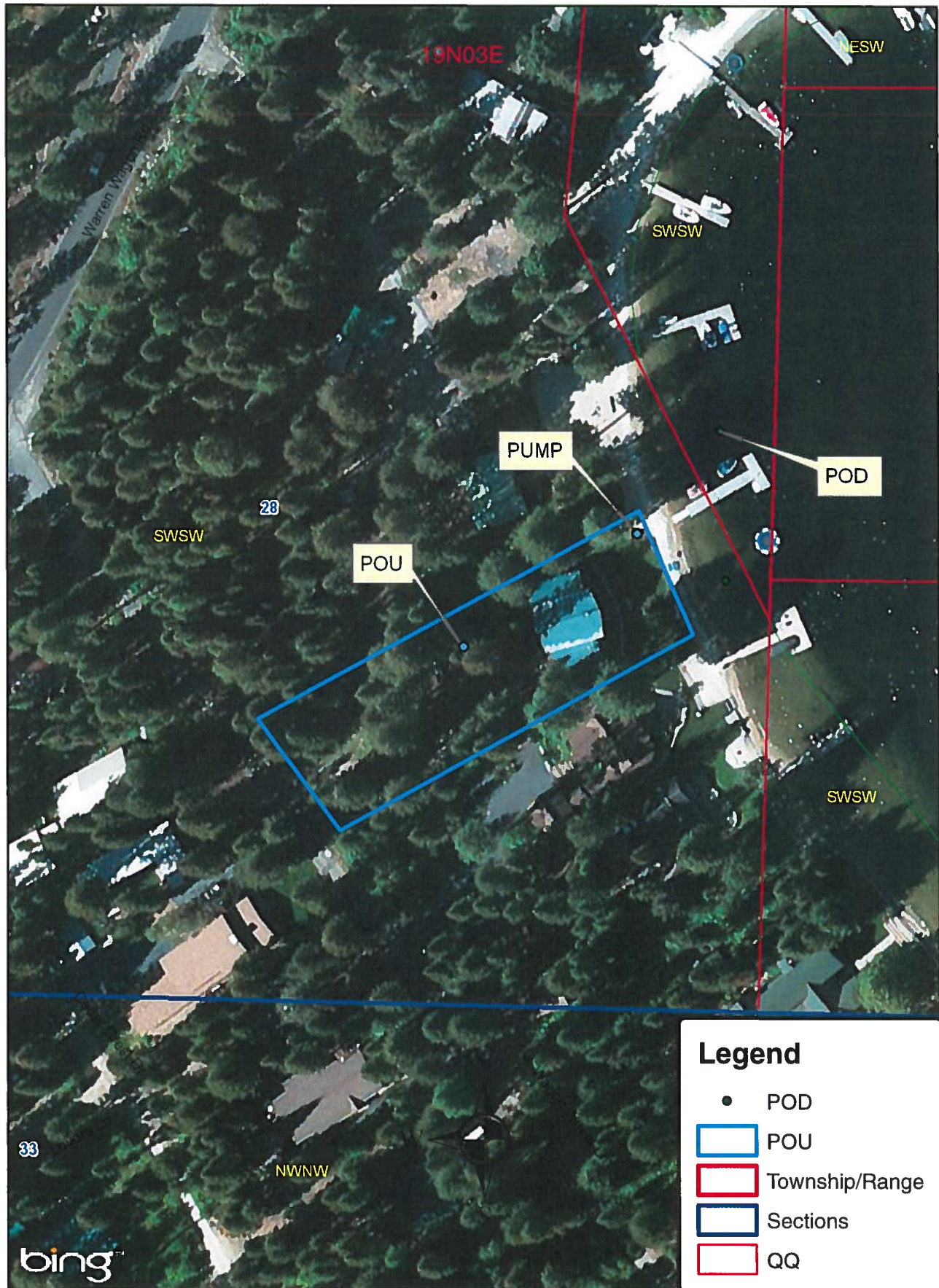
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 12/12/12

Reviewer _____ Date _____

65-23131
Gov't. Lot 4

BING AERIAL PHOTO - 2011



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Feet

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PRIVATE CLAIMS
General Land Office Records

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Sheet: [1](#) | Description: ---

25% | [zoom view](#)

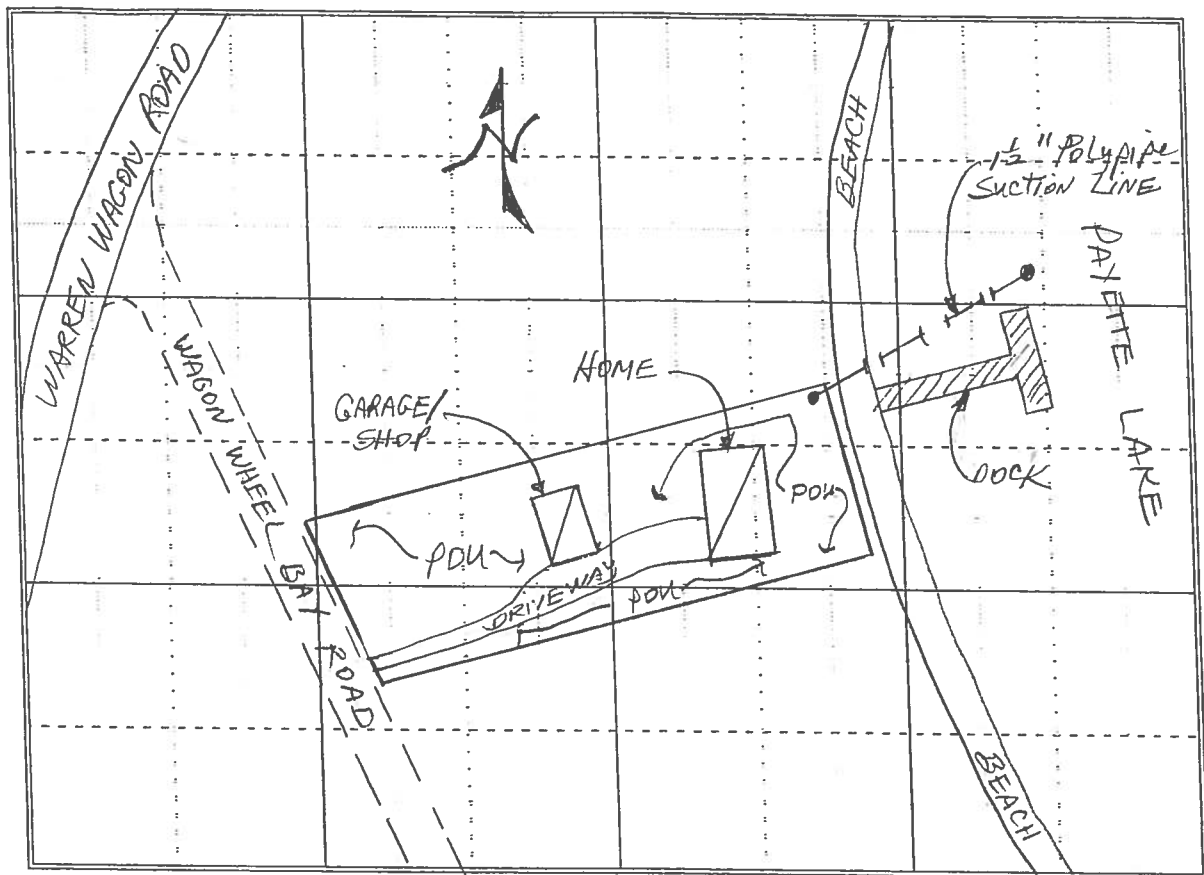
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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



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

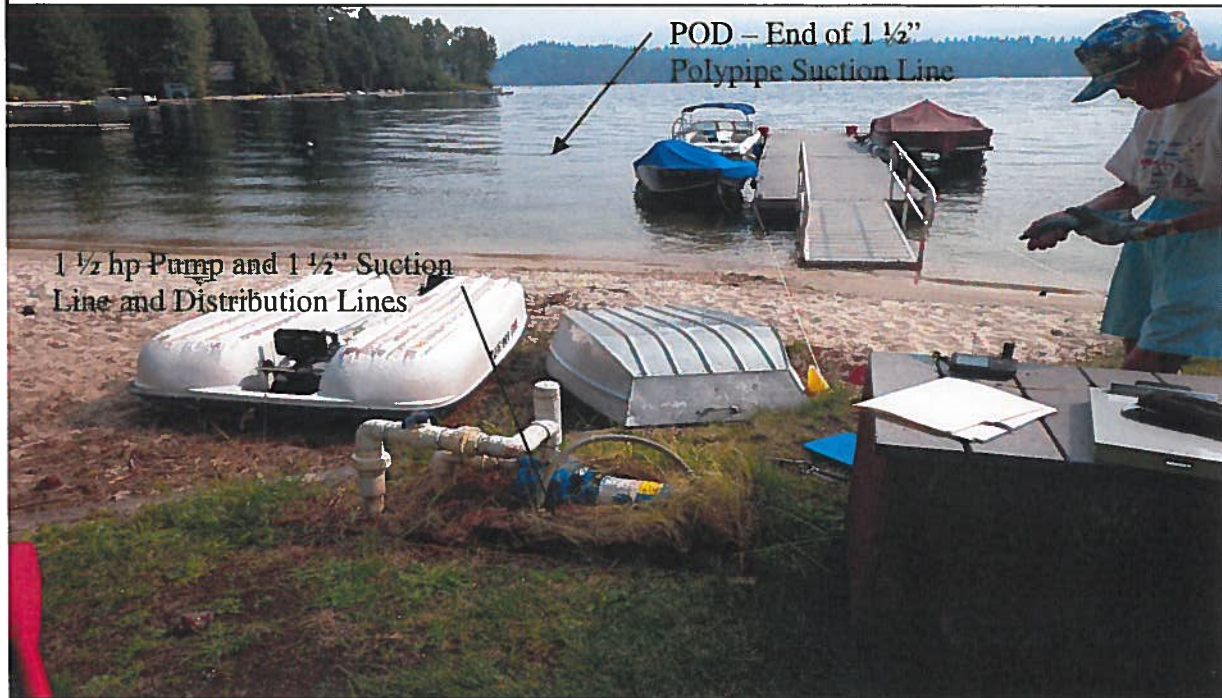
FIELD EXAM PHOTOS

Water Right Permit: 65-23131

Field Exam Date: 8-21-12

PLS: SW1/4, SW1/4 Section 28, T.19N, R.03E.

Field Examiner: RC



Point of Diversion: View easterly of Payette Lake and 1 1/2 hp pump located near the northeast property corner. Approximately 100 lineal feet of 1 1/2" polypipe suction line extends from the pump to a location north of the dock.



Place of Use: View southwesterly of lawn and landscaping along the shoreline of Payette Lake.



Place of Use: View southerly of typical sprinkler risers located within the property to irrigate the native vegetation areas.



View of the 1 1/2" Polypipe 100' section of suction line. The right holder indicated that the irrigation system pumping from Payette Lake is used intermittently with the domestic system for irrigation of the property



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 8, 2012

Ron Daly Family Partnership
5100 Bel Air Drive
Boise, ID 83705

RE: Scheduling Field Exam for Water Right Permit No. 65-23131

Dear Mr. & Mrs. Daly:

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 29, 30, & 31, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.03 cfs of surface water from Payette Lake for irrigation of 1.0 acre.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 17, 2012, to conduct the exam on August 29, 30, or 31, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.