

A. GENERAL INFORMATION

Exam Date: 8/29/2012

- | 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
|------------------|------------------|
| GROUND WATER | |

1. Other water rights with the same place of use: 65-00545, 65-02594, 65-02683
2. Other water rights with the same point of diversion: None

1. LOCATION OF POINT(S) OF DIVERSION:

Method of Determination: Arc Map (Aerial Photo)

2. **PLACE OF USE:** DOMESTIC

[illegible]

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>
D012056	Franklin	1 1/2		Unknown	Unknown

*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. Well discharges to pressure tank. Gauge pressure of 44 psi.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 1.5 / 165 + (2.31 \times 40) = 9.24 / 257.4 = 0.04 \text{ cfs}$$

$$Q = 0.04 \text{ cfs} < 0.08 \text{ cfs } Q(\text{Permit})$$

$$Z = 165'$$

$$HP = 1.5$$

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

Appears that the current pumping system is not capable of attaining the permit diversion rate of 0.08 cfs.
Recommend diversion rate of 0.04 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: (Domestic Internal)

$$V = 0.6 \text{ AFA/home}$$

$$V = 3 \text{ cabins} \times 0.6 \text{ AFA/home} = 1.8 \text{ AFA}$$

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

A ground water well, located on Lot 11, Block 5, Pilgrim Cove Subdivision, provides water for domestic internal use for Lot 11, Lot 10, and Lot 9, Block 5, Pilgrim Cove Subdivision. A 1 ½ hp submersible pump diverts water to a pressure tank located in a mechanical room of the right holder's home located on Lot 11. Each lot has a separate 1" service line from the pipe manifold in the mechanical room. A valve for each service line is located on the manifold. The valves remain closed unless the cabins are occupied.

OVERLAP ANALYSIS:**Place of Use:**

Prior to drilling a well, the right holder and the two property owners were a part of the Pilgrim Cove Association and were served by water from the Pilgrim Cove Association and their associated water rights. Prior to 1999, the Pilgrim Cove Association was purchased by a new water association and the right holder and property owners were told that they needed to fix their current water lines or drill their own wells. The right holder, the property owner for Lot 11, and the property owners for Lot 10 and Lot 9, decided to drill their own well. An agreement was executed between the three property owners for operation and maintenance of the well. Pilgrim Cove Association Water Rights 65-00545, 65-02594, and 65-02683 overlap the same place of use as Water Right Permit No. 65-13937.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.08	&/or	N/A
Beneficial Use Limit	0.08	&/or	N/A
System Measurement	0.04	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.04	&/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>
DOMESTIC	1/01 to 12/31	0.040 CFS	1.8 AFA
<u>Totals:</u>		0.040 CFS	1.8 AFA

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

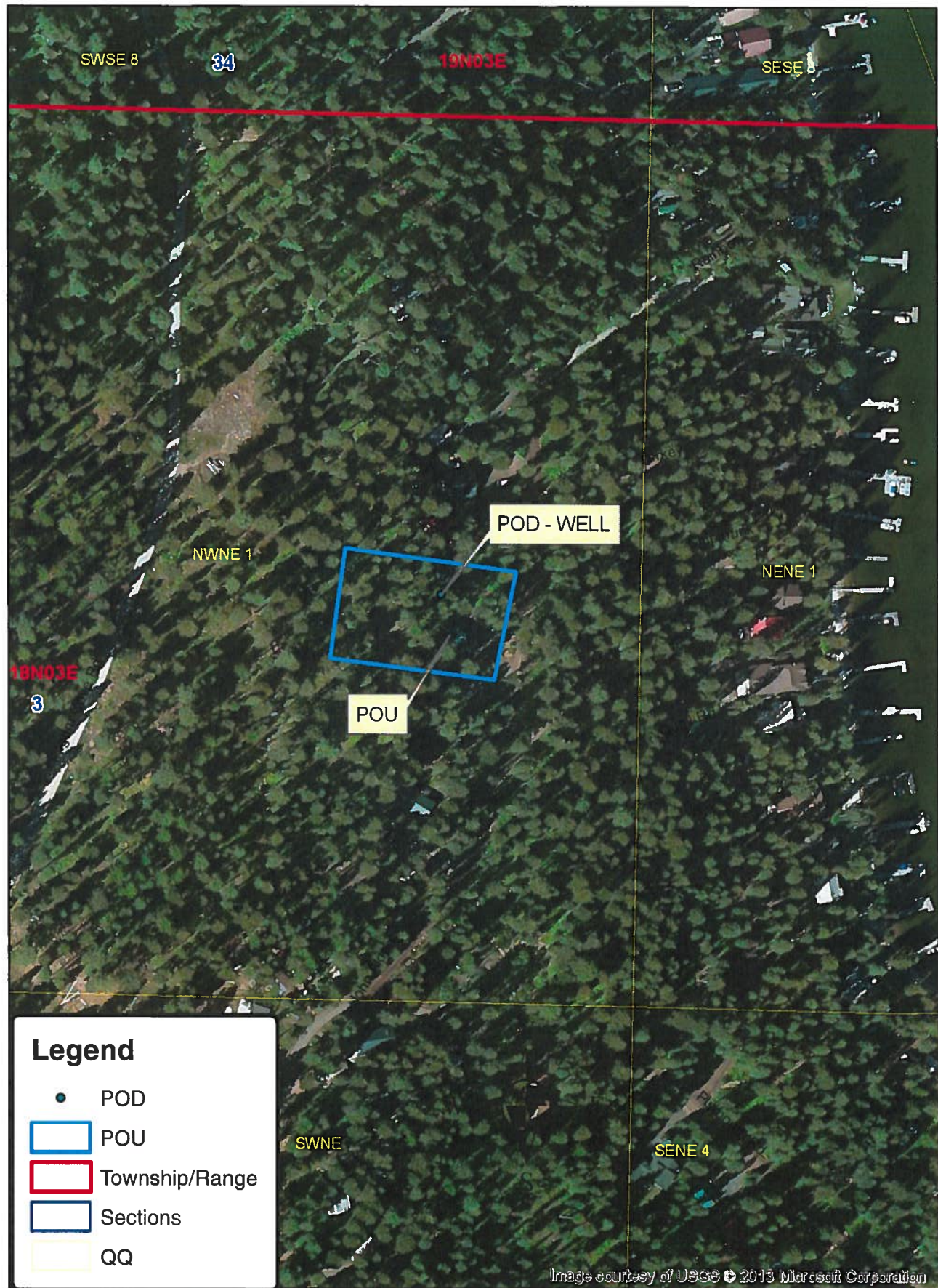
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 1/15/13

Reviewer _____ Date _____

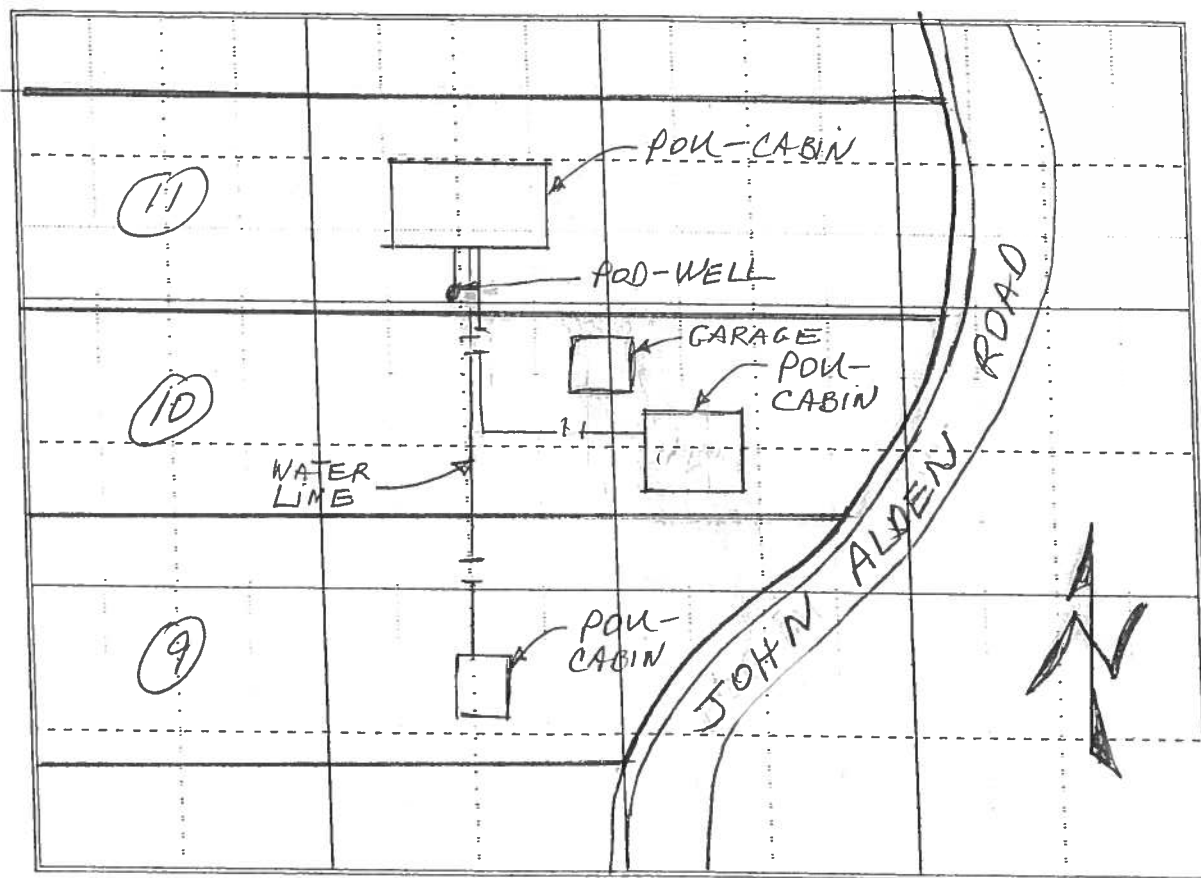
65-13937
GOV'T. LOT 1

BING AERIAL PHOTO - 2011



0 65 130 260 390 520
Feet

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: 65-13937

Field Exam Date: 8-29-12

PLS: NW1/4, NE1/4 Section 3, T.18N, R.03E

Field Examiner: RC



Point of Diversion: View northwesterly of domestic ground water well. Well is located on the Nichol's lot, Lot 11, and serves two other cabins located on Lot10, and Lot 9, Pilgrim Cove Subdivision. The pressure tank and controls are located in a mechanical room in the Nichol's cabin.



Place of Use: View westerly of the Nichol's residence, Lot 11, Block 4, Pilgrim Cove Subdivision. The domestic ground water well is located southerly from the home.



Place of Use: View westerly of cabin and garage located on Lot 10, Block 4, Pilgrim Cove Subdivision.



Place of Use: View southwesterly of cabin located on Lot 9, Block 4, Pilgrim Cove Subdivision.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 8, 2012

Ralph K. Nichol
1520 W. Victory Road
Meridian, ID 83642

RE: Scheduling Field Exam for Water Right Permit No. 65-13937

Dear Mr. Nichol:

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 0.08 cfs of ground water for domestic use for 3 cabins in the Pilgrim Cove Subdivision.

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, reading 'Rick Collingwood'. The signature is written in a cursive, flowing style with a large, prominent 'R' and 'C'.

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