



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
Director

October 15, 2013

SHILO RANCH ESTATES HOMEOWNERS ASSN INC
61 SHILO DR
GARDEN VALLEY ID 83622

RE: Water Right Permit No. 65-13438

Dear Permit Holders:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the points of diversion were developed differently than described on your permit. Enclosed you will find a layout that shows the location of the points of diversion and place of use, as recommended by our field examiner.

We also find that an examination fee was submitted for only 0.20 cfs. Our examiner found that your system could pump 0.21 cfs. If you wish to have the license issued for 0.21 cfs, you should submit an additional \$50.00 exam fee along with a late penalty fee of \$25.00 for submitting your examination fee late. Please be advised that our Beneficial Use Examination Rules, IDAPA 37.03.02, License Examination Fee Rule 050.01.c, states:

c. A license shall not be issued for an amount of water in excess of the amount covered by the examination fee. Subsequent to the examination and prior to a license being issued, the Director will notify the permit holder that the licensed amount will be limited because an insufficient examination fee was paid. **The permit holder will be allowed thirty (30) days after the notice is mailed to pay the additional examination fee, along with a late payment penalty of twenty-five dollars (\$25) or twenty percent (20%) of the amount of the additional required fee whichever is more.** If payment is received within the

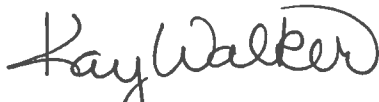
thirty (30) day period, the rate or volume licensed shall not be reduced by reason of the examination fee. If payment is not received within the thirty (30) day period, the rate or volume licensed shall be limited by the original examination fee paid. For the purpose of determining advancement of priority for late fee as provided in Section 42-217, Idaho Code, fees shall not be considered as having been paid until paid in full, including any subsequent fee. (7-1-93)

If you do not wish to have the additional 0.01 cfs (about 4.5 gallons per minute) on your license, you can choose not to pay the additional exam fee and your water right license will be limited to 0.20 cfs when finalized.

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 30 days.

If you have any questions, please call me at (208)334-2190.

Sincerely,

A handwritten signature in black ink that reads "Kay Walker". The signature is fluid and cursive, with the first name "Kay" and last name "Walker" clearly distinguishable.

KAY WALKER
Sr. Water Resource Agent

Enclosures: Amendment Application & Layout

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13438

Exam Date: 5/31/2013

1. Current Owner: SHILO RANCH ESTATES HOMEOWNERS ASSN INC
61 SHILO DR
GARDEN VALLEY ID 83622
(208)462-3439
2. Accompanied by: Jamie Anderson
Phone No: Same
Address: Same
Relationship to Permit Holder: HOA Treasurer and Water System Operator

3. SOURCE TRIBUTARY
GROUND WATER

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

GROUND WATER L6 NE1/4SE1/4 Sec. 4, Twp 09N, Rge 04E, B.M.
BOISE County

Method of Determination: Arc Map (Aerial Photo); GPS (Well No.2) – Latitude N.44°08.416', Longitude W.115°58.966';
GPS (Well No.3) – Latitude N.44°08.428', Longitude W.115°58.847'; Datum – NAD83.

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>	
09N	04E	4			8.0	6.5									13.0				27.5
						L 5									L 6				

Total Acres: 27.5

DOMESTIC same as IRRIGATION

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	Franklin	5	Unknown	Unknown	Unknown
D0015038	Franklin	7.5	Unknown	Jacuzzi	75S650-15

*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. Gauge pressure (static pressure) -- 82 psi.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 12.5 / 260 + (2.31 \times 50) = 77.0 / 375.50 = 0.21 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.21 \text{ cfs} < 0.89 \text{ cfs } Q(\text{permit})$$

$$HP = 5 + 7.5 = 12.5 \text{ (Two wells)}$$

$$Z = 260' \text{ (Estimated per Well Drillers Report)}$$

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

Appears that the current pumping systems cannot attain the permit diversion rate of 0.89 cfs. Recommend the current pumping capacity of 0.21 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 27.5 \times 3.5 = 96.3 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.21 \times 231 \times 1.9835 = 96.2 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 96.2 \text{ AFA}$$

2. Volume Calculations for Other Uses: Domestic (Community Water System)

Total of residential lots with water service stub-outs – 55

$$V = 55 \text{ lots} \times 0.6 \text{ AF} = 33.0 \text{ AFA}$$

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

Two ground water wells supply water to the 55-lot Shilo Ranch Estates residential development for domestic use and irrigation of up to ½ acre of lawn, landscaping, and gardens for each residential lot. A 5-hp submersible pump diverts water from Well No. 2. A 7.5-hp submersible pump diverts water from Well No. 3. Both wells, which are interconnected, discharge water to a 30,000 gallon steel water storage tank. The pressure gauge for Well No. 2 indicated a static head pressure from the 30,000 gallon steel water storage tank of 82 psi. Well No. 2 replaced Well No. 1, which was abandoned due to an inadequate water supply. Water service lines or stub-outs, have been installed to provide water to each of the 55 residential lots.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 65-13438 points of diversion do not overlap with other water rights points of diversions.

Place of Use: Water Right Permit No. 65-13438 places of use within the Shilo Ranch Estates do not overlap with other water rights places of use.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.89	&/or	N/A
Beneficial Use Limit	0.89	&/or	N/A
System Measurement	0.21 (theoretical)	&/or	N/A
Proof Fee Amount	1.00	&/or	N/A
Recommended Amount	0.21	&/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	3/15 to 10/31	0.210 CFS	96.2 AFA
DOMESTIC	1/01 to 12/31	0.210 CFS	33.0 AFA
<u>Totals:</u>		0.210 CFS	129.2 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 10/2/13
 Reviewer _____ Date _____



Idaho Department of Water Resources

Water Right
65-13438
(IRRIGATION)

● Point of Diversion



Place of Use



State Outline



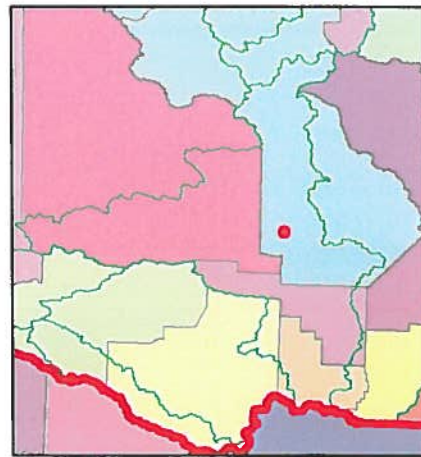
Townships



PLS Sections



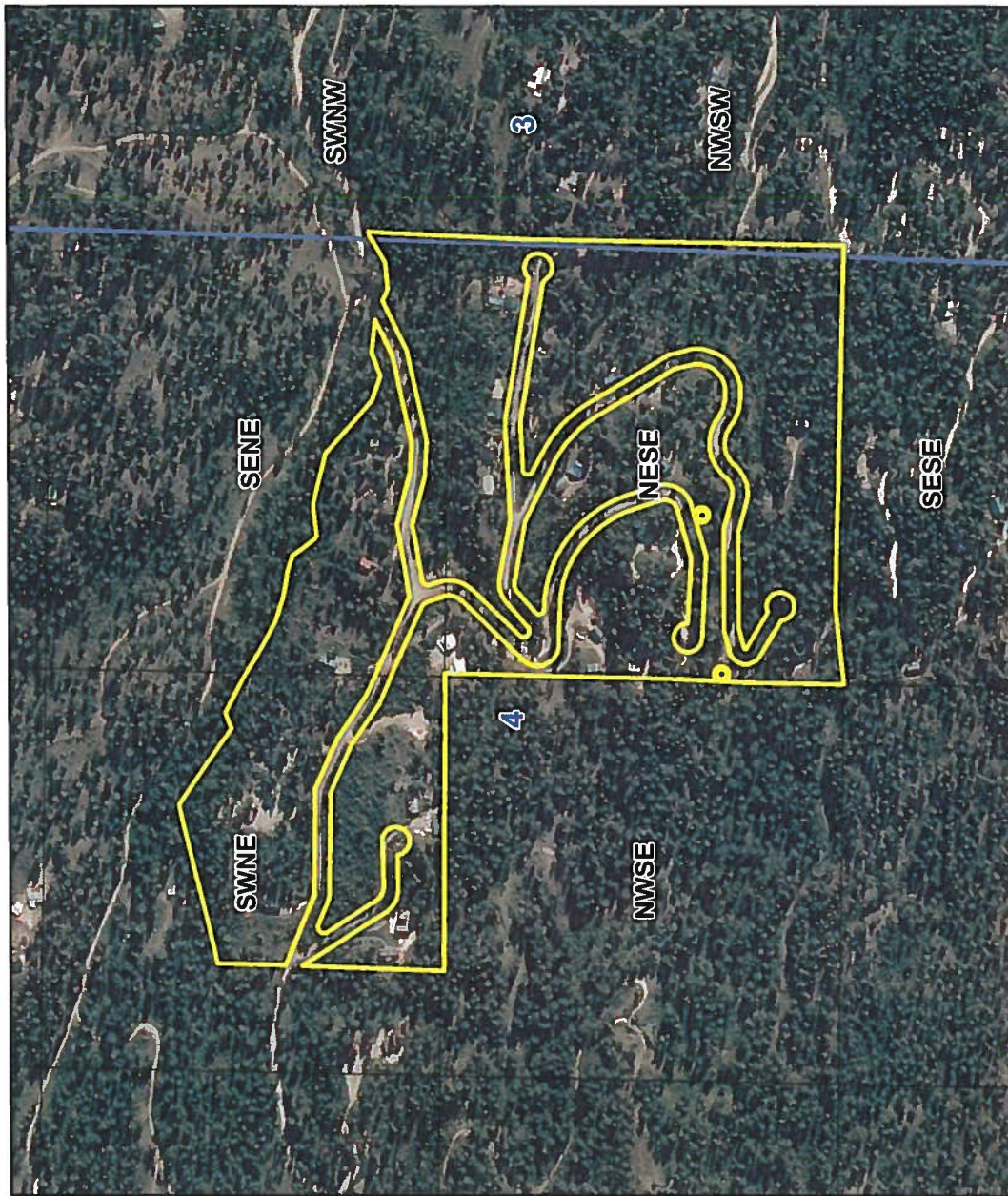
Quarter Quarters



Boise County
IDWR Basin 65

Prepared by Collingwood, Richard
On October 09, 2013
2009 Aerial Photography

04E



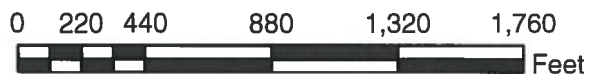
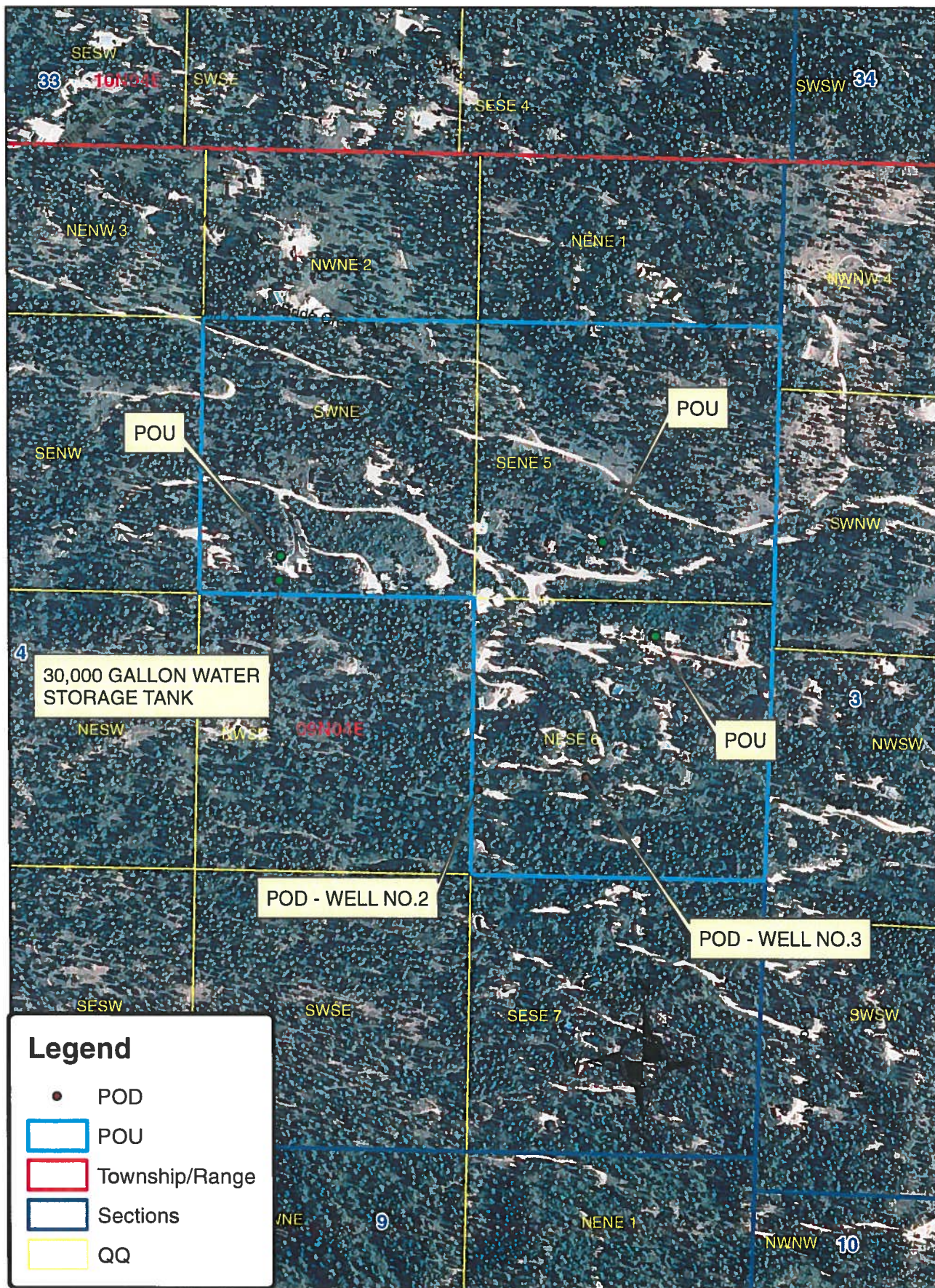
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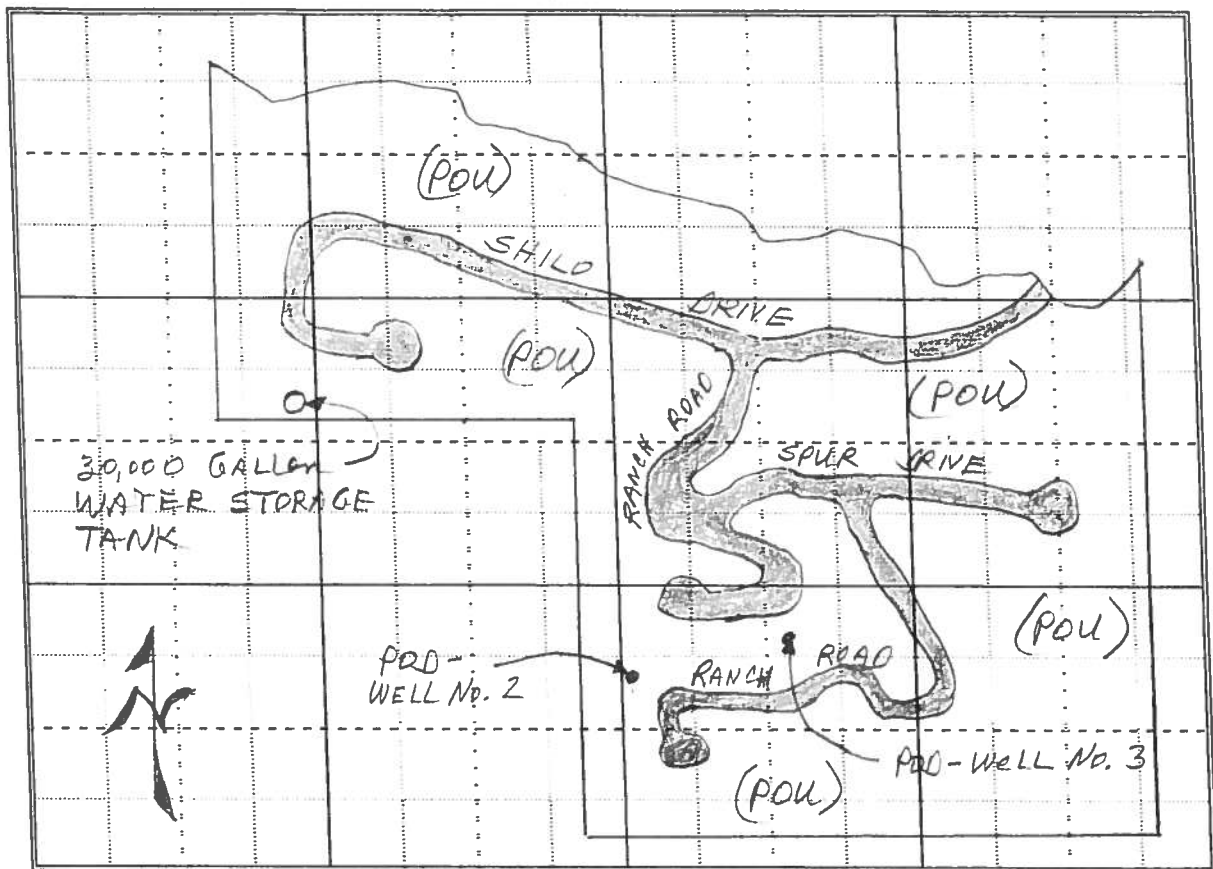
Owner: Shilo Ranch Estates Homeowners Assn Inc
NOTE: Only one owner is listed. There may or may not be more than this in the IDWR database.

65-13438

ESRI AERIAL PHOTO - 2012



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: 65-13438
PLS: SE1/4, NE1/4 Section 4, T.9N, R.04E.
Field Examiner: RC

Field Exam Date: 5-31-13



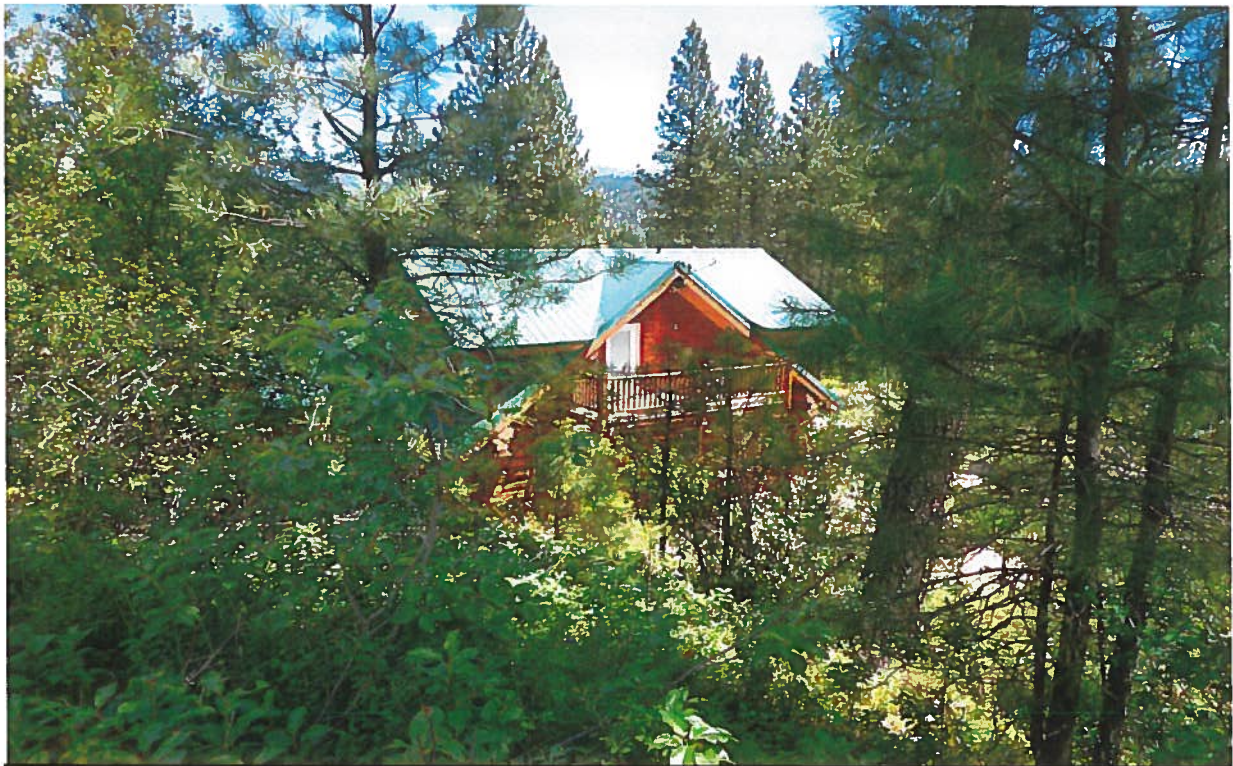
Point of Diversion: View westerly of the ground water well located on Lot 27, Shiloh Ranch Estates.



View northerly of the well/pump house located on Lot 27, Shiloh Ranch Estates.



Point of Diversion: View of ground water well in well/pump house located on Lot 27, Shiloh Ranch Estates.



Place of Use: View southeasterly of home in the Shiloh Ranch Estates served by the two ground water wells for domestic use and irrigation.



View northerly of a steel 30,000 gallon water storage tank serving the Shiloh Ranch Estates development.

FORWARD WHITE COPY TO WATER RESOURCES

C
11.

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

A 3x3 grid with 'N' at the top, 'S' at the bottom, 'W' on the left, and 'E' on the right.

Twp. _____ North ☐ or South ☐
Rge. _____ East ☐ or West ☐
Sec. _____ 1/4 1/4 1/4
Gov't Lot _____
County _____

Address of Well Site

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Bk. _____ Sub. Name _____

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

☐ New Wall ☐ Modify or Repair ☐ Replacement ☐ Abandonment☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	

Was drive shoe used? Y ☐ N ☐

Was drive shoe seal tested? Y ☐ N ☐ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

☐ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material

Casing	Linear
--------	--------

1
MICROFILMED
AUG 10 1999

_____ ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices: _____

Water:

[illegible]

We certify that all minimum well construction standards were complied with at the time the well was completed.

Firm Name _____ Firm No. _____

Firm Official Paul Smith Date 7-6-84

and
Supervisor or Operator Tom Nickett Date 7/6/94

(Sign only if Firm Official & Operator)



State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

May 15, 2013

Shilo Ranch Estates Homeowners Association, Inc.
61 Shilo Drive
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-13438

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 27, 2013**. 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 0.89 cfs of ground water for domestic use for 55 homes and irrigation of 27.5 acres.

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 May 24, 2013, to conduct the exam during the week of May 27, 2013.** 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.