

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-7998

Exam Date: 7/26/2013

1. Current Owner: VAL T LANE
2672 HWY 95
COUNCIL ID 83612
(208)253-0021
2. Accompanied by: Val Lane
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE

UNNAMED STREAM

TRIBUTARY

WEISER 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 SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

UNNAMED STREAM

SE1/4NW1/4

Sec. 7, Twp 17N, Rge 01E, B.M.

ADAMS County

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.44°49.696', Longitude W.116°23.123'; Datum – NVD83.

2.

PLACE OF USE: FIRE PROTECTION

[illegible]

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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>
<u> N/A </u>	<u> N/A </u>	<u> </u>	<u> N/A </u>	<u> N/A </u>	<u> 1 1/2" </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

*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>
5-Gallon Bucket	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

2. Measurements: 5-Gallon Bucket measurement at frost-free hydrant. $Q = 5 \text{ gallons}/8 \text{ seconds} = 37.5 \text{ gpm} \sim 0.08 \text{ cfs}$.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: (Continuity Equation: $Q = VA$ for Pipe)

$$V = 1.49/nR^{2/3}S^{1/2} = (1.49/0.013)(0.031)^{2/3}(0.17)^{1/2} = (114.6)(0.098)(0.412) = 4.63 \text{ ft/sec}$$

$$Q = VA = 4.63 \text{ ft/sec} \times 0.012 \text{ ft}^2 = 0.06 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.06 \text{ cfs} < 0.08 \text{ cfs } Q(\text{measured}) > 0.04 \text{ cfs } Q(\text{permit})$$

Pipe Diameter = 1 1/2"

$n = 0.013$

$R = D/4 = 0.031$

$S = 17\% (0.17 \text{ ft/ft})$

$A = 0.012 \text{ ft}^2$

Appears that the current water delivery system can attain the permit diversion rate of 0.04 cfs.

Recommend the permit 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: N/A

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

The right holder diverts water from an Unnamed Stream for fire protection of a home and property.

A rock and visqueen dam was constructed on an Unnamed Stream to fill a perforated 5-gallon bucket located in the pool created by the dam. Approximately 800 lineal feet of 1 ½" PVC pipe and 1" PVC pipe supply line diverts water from the 5-gallon bucket to a 500-gallon fiberglass water storage tank. Water is discharged from the 500-gallon water storage tank to a frost-free hydrant located near the right holder's home. Flow from the water storage tank to the frost-free hydrant is controlled by a hand-operated gate valve.

The 500-gallon water storage tank contains two (2) 1 ½" PVC overflow pipes, which discharge water into a 50-gallon drum. Water is discharged through 1" PVC pipe to a 5-gallon bucket in the Unnamed Stream. Water collected in the 5-gallon bucket is discharged through 1 ½" PVC pipe to a stock water tank. A beneficial use for stock water was not permitted, therefore no stock water beneficial use can be licensed for Water Right Permit No. 67-7998.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 67-7998.

Place of Use: There are no place of use overlaps for Water Right Permit No. 67-7998.

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

CONDITION NO.2 – No diversion of water or construction of diversion works shall occur until a special use permit is issued by the Forest Service. The right holder submitted a Special-Use Application and Report to the Forest Service on 9/25/96. The Special-Use Permit was approved and issued to the right holder on 8/21/01.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.04	&/or	N/A
Beneficial Use Limit	0.04	&/or	N/A
System Measurement	0.08	&/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>
FIRE PROTECTION	1/01 to 12/31	0.040 CFS	N/A
<u>Totals:</u>		0.040 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

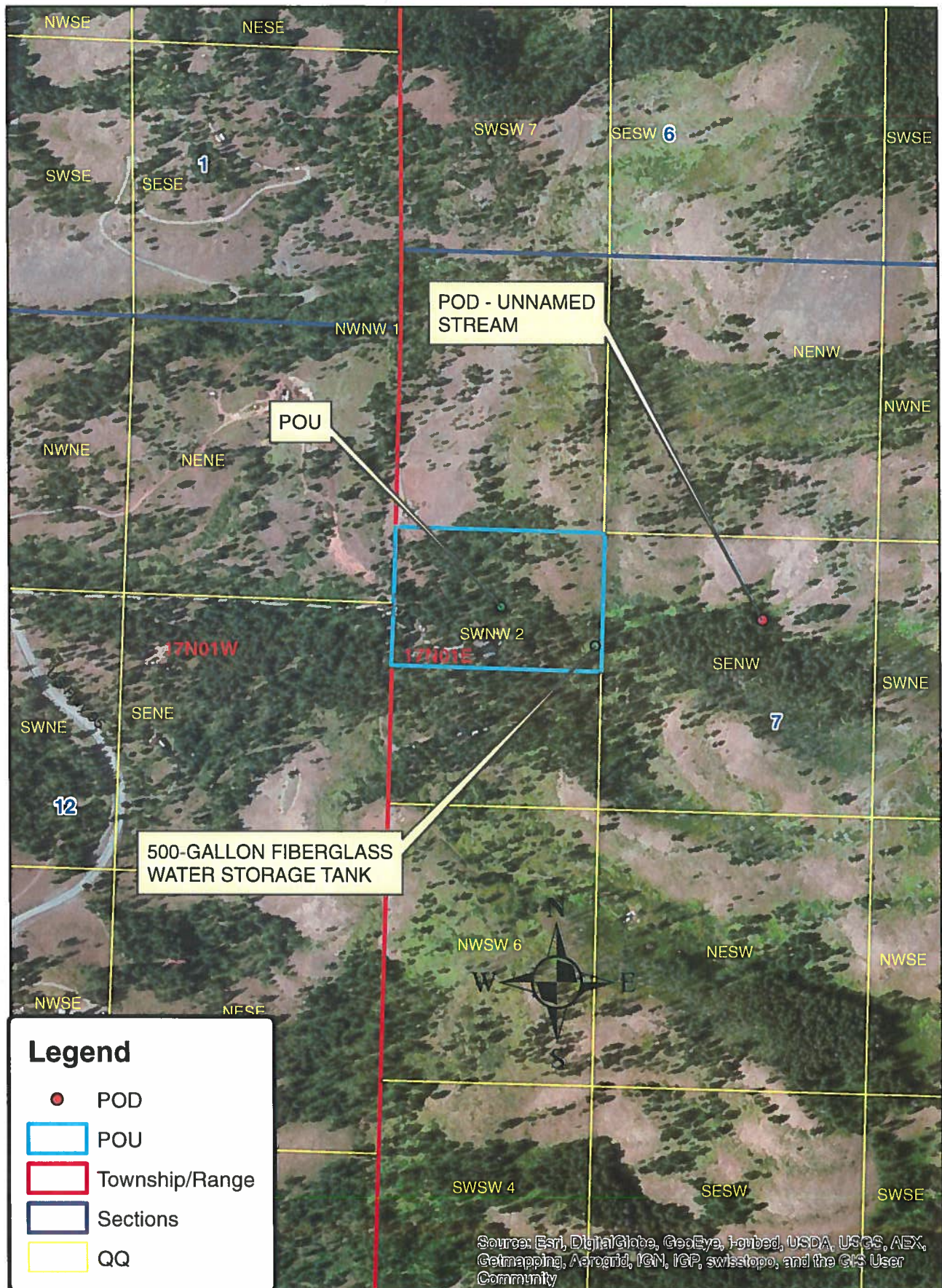
I. AUTHENTICATION

Field Examiner's Name Rick Colhinger Date 12/2/13

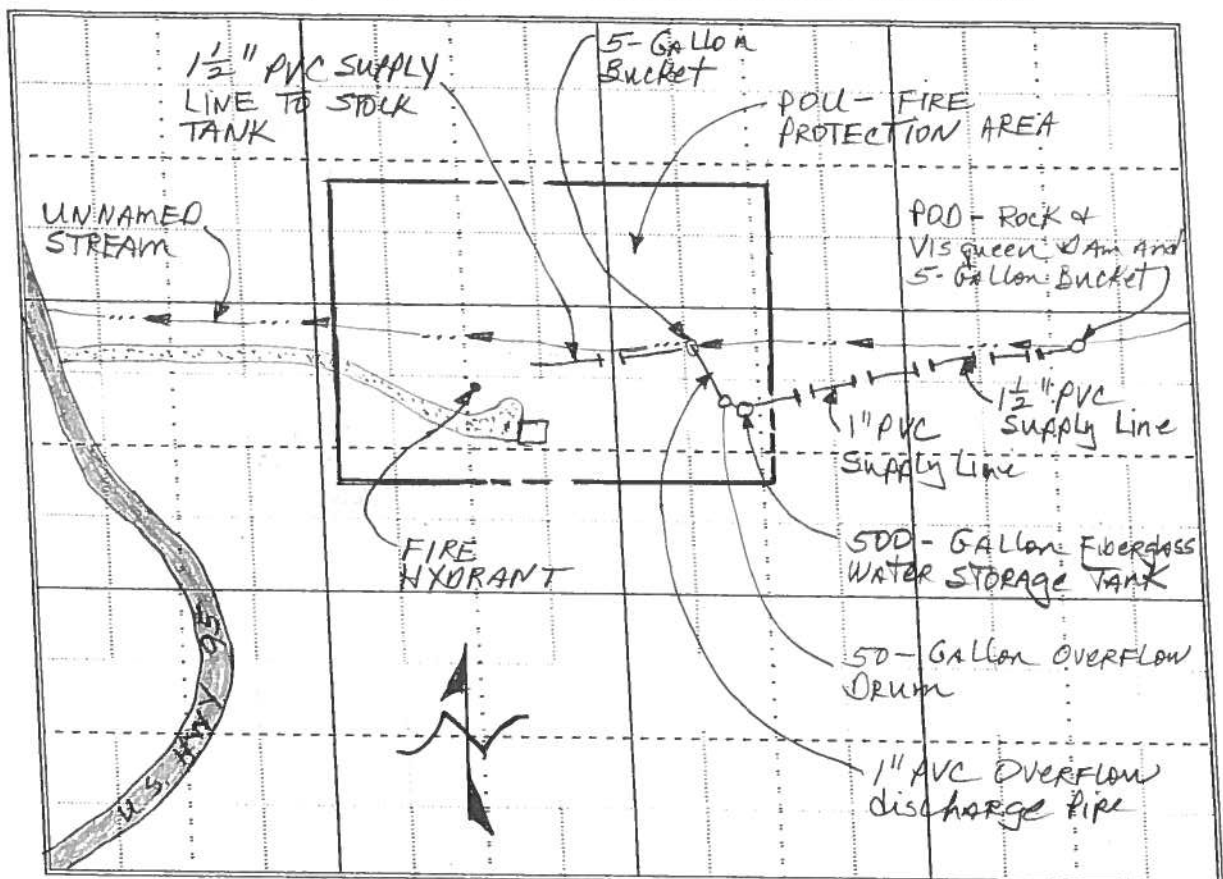
Reviewer _____ Date _____

67-7998
GOV'T. LOT 2

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: 67-7998

Field Exam Date: 7-26-13

PLS: SW1/4, NE1/4 Section 7, T.17N, R.01W.

Field Examiner: RC



Point of Diversion: A rock and visqueen dam constructed in an Unnamed Stream to create a pool for collection in a perforated 5-gallon bucket. Water is diverted from the 5-gallon bucket through 1 1/2" PVC pipe.



View of pipe reducer fitting where the 1 1/2" PVC supply line reduces to 1" PVC pipe. The 1" PVC pipe extends approximately 1/4 mile to a 500-gallon fiberglass water storage tank.



View of the 1" PVC supply line discharging to the top of the 500-gallon fiberglass water storage tank. Two 1 1/2" PVC overflow pipes from the water storage tank discharge water to a 50-gallon drum. Water collected in the 50-gallon drum is discharged in 1" PVC pipe to a 5-gallon bucket in the Unnamed Stream. A 1 1/2" PVC discharge pipe from the 5-gallon bucket discharges to a stock tank.



View of the 1 1/2" PVC pipe supply line at the bottom of the 500-gallon water storage tank. A hand operated gate valve controls the flow to the frost-free hydrant near the home.



Place of Use: View of the frost-free hydrant near the home.



View of the flexible hose to be attached to the frost-free hydrant to repel a fire.



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

RECEIVED

DEC 23 2013

WATER RESOURCES
WESTERN REGION

December 9, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

VAL T LANE
2672 HWY 95
COUNCIL ID 83612

RE: Water Right Permit No. 67-7998

Dear Permit Holder:

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 following elements were developed differently than described on your permit:

✓ **Point of Diversion**

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,

KAY WALKER
Sr. Water Resource Agent

Enclosure

*I was wrong. Val
took information off maps
at the time of orig. application.*
WLL



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December 9, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

VAL T LANE
2672 HWY 95
COUNCIL ID 83612

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Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosure

*12-20-13
Discussed w/ Mrs.
Lane - will send
in form & fee.
KW*



State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

June 21, 2013

Val T. Lane
2672 Hwy. 95
Council, ID 83612

RE: Scheduling Field Exam for Water Right Permit No. 67-7998

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of July 15, 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 0.04 cfs of surface water from an unnamed stream for fire protection.

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 July 12, 2013, to conduct the exam during the week of July 15, 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,

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