

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22988

Exam Date: 10/9/2012

1. Current Owner: MERIK H METOS
81 RIVER RANCH RD
GARDEN VALLEY ID 83622
(208)462-3050
2. Accompanied by: Allan Metos
Phone No: Same
Address: Same
Relationship to Permit Holder: Father

3. SOURCE

MIDDLE FORK PAYETTE RIVER

TRIBUTARY

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:

MIDDLE FORK PAYETTE RIVER NW1/4NW1/4
BOISE County

Sec. 26, Twp 10N, Rge 04E, B.M.

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
10N 04E 23											.2						.2
											L 4						
10N 04E 26						.4											.4

Total Acres: 0.6

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</u> <u>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</u> <u>Size</u>
N/A	Flotec	1.5		Flotec	(1 1/2")

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>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. Right holder's father had already pulled the pump from the river.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 1.5/50 + (2.31 \times 40) = 9.24/142.4 = 0.06 \text{ cfs}$$

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

$$HP = 1.5$$

$$Z = 50' \text{ (Estimated)}$$

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

Appears that the current pumping system is capable of attaining 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:**

A 1 ½-hp pump diverts water from the Middle Fork of the Payette River for irrigation of approximately 0.6 acres of lawn and gardens. Water is pumped through a 1 ½" PVC screened suction line, and conveyed in 1 ½" PVC pipe to the right holder's place of use on top of an approximate 50' high bank above the river.

IRRIGATION SYSTEM:

The lawn and garden areas are irrigated by hoses and rain bird sprinklers. The hoses are attached to the 1 ½" PVC supply line from the river, and moved throughout Lot 15 of the River Ranch Subdivision to irrigate the lawn and garden areas.

OVERLAP ANALYSIS:**Place of Use:**

Water Right No. 65-3222 and Water Right No. 65-8290, which are owned by PTR, Inc., are irrigation rights which serve the Pine Tree Subdivision No.8, the Travis Subdivision, and a majority of the River Ranch Subdivision. The portion of the River Ranch Subdivision which is proposedly to be served by these rights includes Lot 15. The right holder's father indicated that no other water source is available for irrigation of Lot 15. Therefore, based on the statement provided by the right holder's father, and no visible evidence of a water conveyance system in which to provide surface water for irrigation, there are no place of use overlaps for Water Right Permit No. 65-22988.

Note: Water Rights 65-3222 and 65-8290 were placed in the water bank in 2012, and will remain in the water bank until 2017.

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

CONDITION NO. 7 (01H) – Prior to diversion of water under this right, the right holder shall install a lockable device. The on/off switch is located in a power junction box inside of the right holder's parents garage located on Lot 15. Although the junction box is in a locked garage, the junction box has a lockable latch in which to use a padlock. Right holder is in compliance with Condition No.7.

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	0.06 (theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	~~0.04~~ 0.02 PC	&/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	03/15 to 10/31	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 X None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

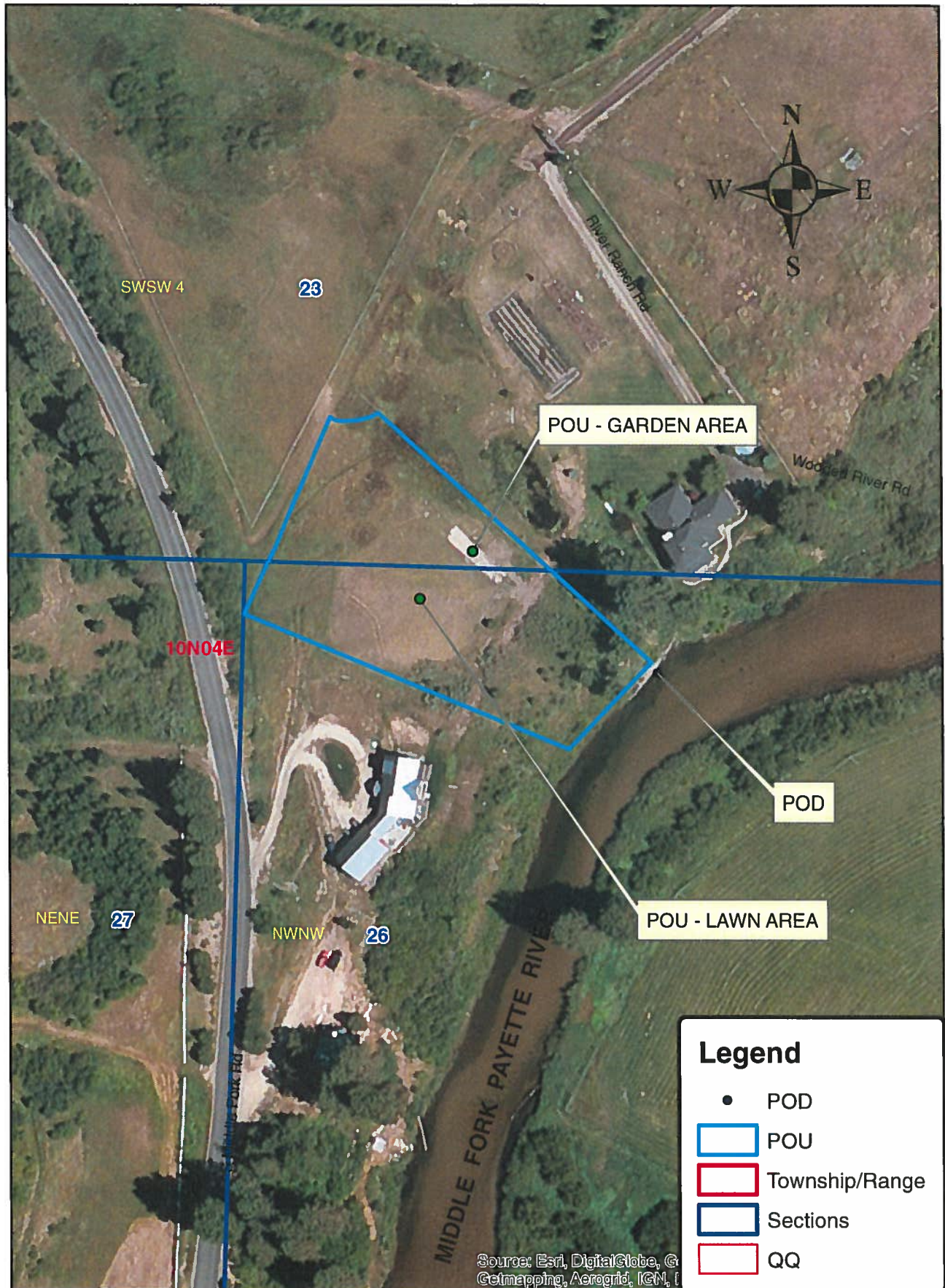
I. AUTHENTICATION

Field Examiner's Name Rick Collington Date 3/6/13

Reviewer _____ Date _____

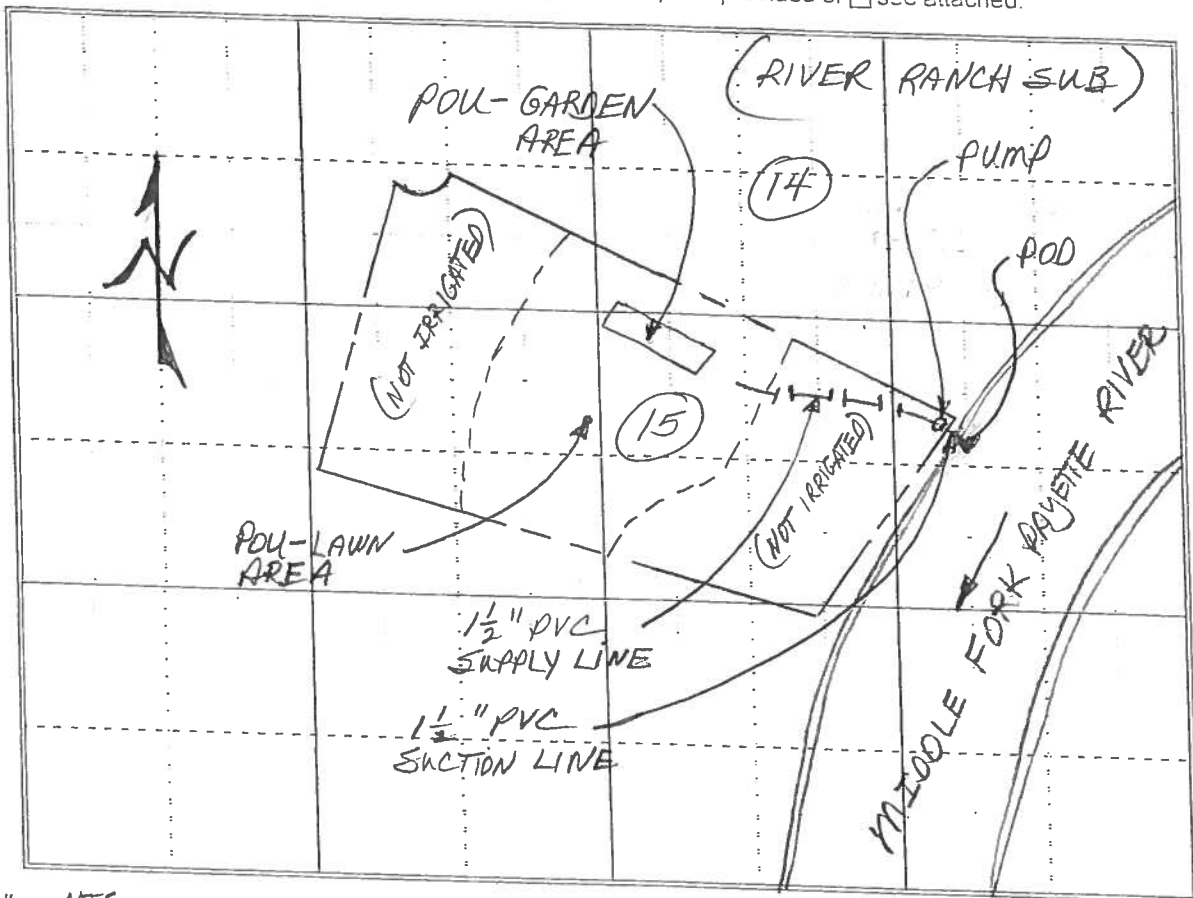
65-22988
GOV'T. LOT 4

ESRI AERIAL PHOTO - 2012



0 40 80 160 240 320
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

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

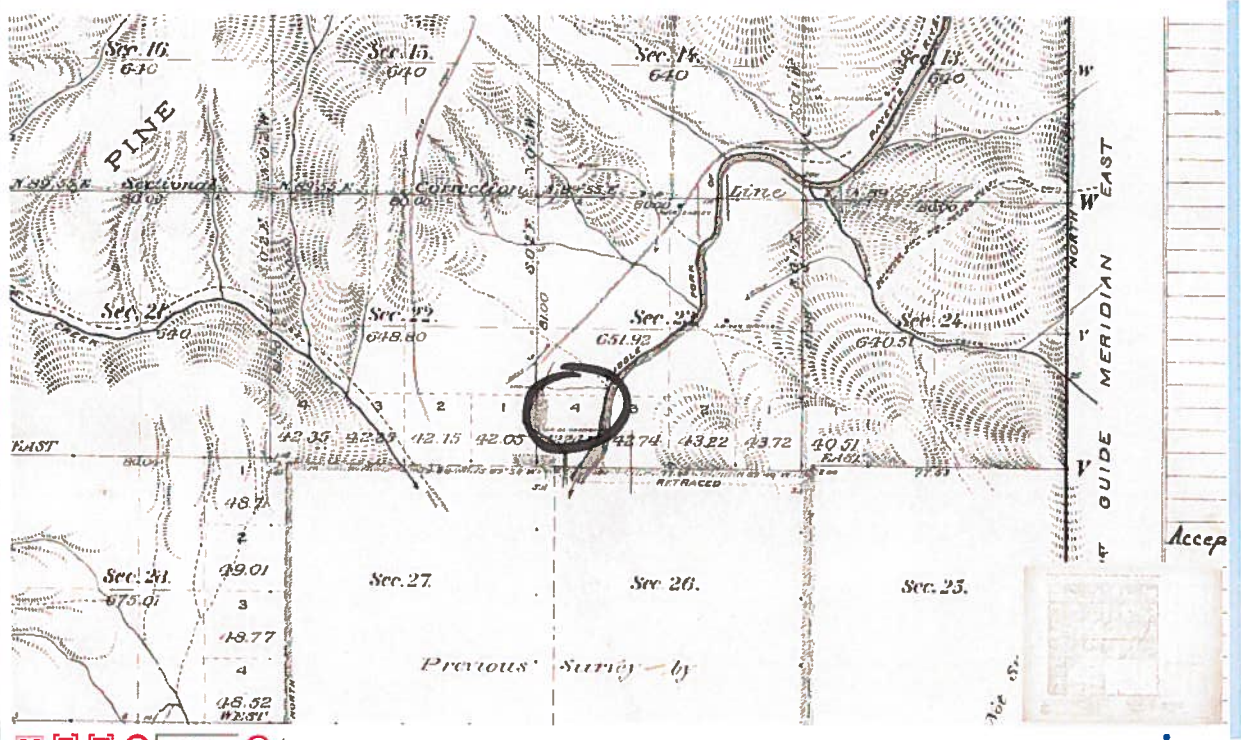
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DM ID: 42144 Survey Type: [Original Survey](#) State: [Idaho](#)

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Sheet: 1 Description: ---



Map showing survey sections (Sec. 13, 14, 15, 16, 21, 22, 23, 24, 25, 26, 27) and a river. A black circle highlights a specific area in Section 22. The map includes contour lines, a river, and various survey measurements. A 'Previous Survey by' label is visible. A 'zoom view' button is at the bottom right of the map area.

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FIELD EXAM PHOTOS

Water Right Permit: 65-22988

Field Exam Date: 10-9-12

PLS: NW1/4, NW1/4 Section 26, T.10N, R.04E.

Field Examiner: RC



Place of Use: View westerly of the lawn, landscaping, and the garden areas. These areas are irrigated from a 1 ½ horsepower pump in the Middle Fork of the Payette River. Water is lifted 40 – 50 feet from the river and discharged to the lot by a 1 ½” PVC supply line. The lawn, landscaping, and garden areas are irrigated by manually relocating rain bird sprinklers on hoses. The pump had already been removed from the river, so no field measurement could be obtained.



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

October 3, 2012

Merik H. Metos
81 River Ranch Road
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-22988

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of October 15, 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 0.04 cfs from the Middle Fork of the Payette River for irrigation of 1.3 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 October 12, 2012, to conduct the exam during the week of October 15, 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,

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