

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-8038

Exam Date: 8/30/2012

1. Current Owner: HOWARD A HEMINGER
323 SNOWMOODY WAY
ONTARIO OR 97914
(541)889-7528
2. Accompanied by: Howard Heminger
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE
SURPRISE CREEK

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:**

SURPRISE CREEK
ADAMS County

L2 SW1/4NW1/4

Sec. 7, Twp 18N, Rge 01E, B.M.

Method of Determination: Arc Map (Aerial Photo); GPS Latitude N.44°54.806', Longitude W.116°23.295'; Datum – NAD83.

2.

PLACE OF USE: STOCKWATER

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>	
18N	01E	7							X										
									L 2										

DOMESTIC same as STOCKWATER

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</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	Emerson	1		Jacuzzi	(1 1/4")

*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>
5-Gallon Bucket						

2. Measurements: 5-Gallon Bucket. Flow measurement of 30 gpm (0.07 cfs)

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 1/80 + (2.31 \times 30) = 6.16/149.3 = 0.04 \text{ cfs}$$

$$Q = 0.07 \text{ cfs (measured)} > 0.06 \text{ cfs } Q(\text{permit})$$

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

$$Z = 80' \text{ (Estimated)}$$

$$Hp = 1$$

$$P = 30 \text{ psi (Assumed)}$$

Appears that the pumping system, based on the actual flow measurement of 0.07 cfs, is capable of attaining the permit domestic use diversion rate of 0.04 cfs and the stock water diversion rate of 0.02 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 & Stock Water

$$\text{Domestic Internal} = 0.6 \text{ AFA/home}$$

$$V(\text{Domestic Internal}) = 0.6 \text{ AFA}$$

Stock Water (20 horses):

$$V_r = 20 \times 12 \times 365/325,850 = 0.3 \text{ AFA}$$

$$V_d = 0.02 \text{ cfs} \times 365 \times 1.9835 = 14.5 \text{ AFA}$$

$$V_r < V_d, \text{ therefore } V(\text{stock water}) = 0.3 \text{ AFA}$$

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

A 4' diameter concrete collection basin (manhole), located near Surprise Creek, collects seepage from Surprise Creek for domestic use for one home and stock water for 20 head of horses. Water enters the collection basin through a 2' thick gravel layer and six (6) 1" diameter holes at the bottom of the collection basin. The bottom of the collection basin is wrapped in filter fabric to prevent siltation in the collection basin.

A 1-hp pump, which is operated by a float switch in the collection basin, discharges water through 1 1/4" PVC pipe to the cabin for domestic use and a hydrant located near the livestock corral. The hydrant is used to fill the stock water troughs in the corral.

Point of Diversion (Spring):

The permit indicates a spring as a point of diversion for stock water use. No spring was developed for stock water use.

Place of Use (Stock Water):

Historically, 20 head of horses graze upon the right holder's property. However, due to needed fence repairs and the right holders current health issues, the fence repairs have not been completed, preventing the right holder from using the property for stock grazing.

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

CONDITION NO.4(01P) – Upon specific notification by the Department, the right holder shall install a lockable device. Right holder has installed a locking steel lid on the concrete collection basin. Two chains are looped through the lid and collection basin and padlocked.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.06	&/or	N/A
Beneficial Use Limit	0.06	&/or	N/A
System Measurement	0.07	&/or	0.9
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.06	&/or	0.09

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	1/01 to 12/31	0.020 CFS	0.30 AFA
DOMESTIC	1/01 to 12/31	0.040 CFS	0.60 AFA
<u>Totals:</u>		0.060 CFS	0.90 AFA

2. Recommended Amendments

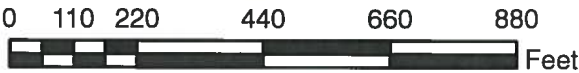
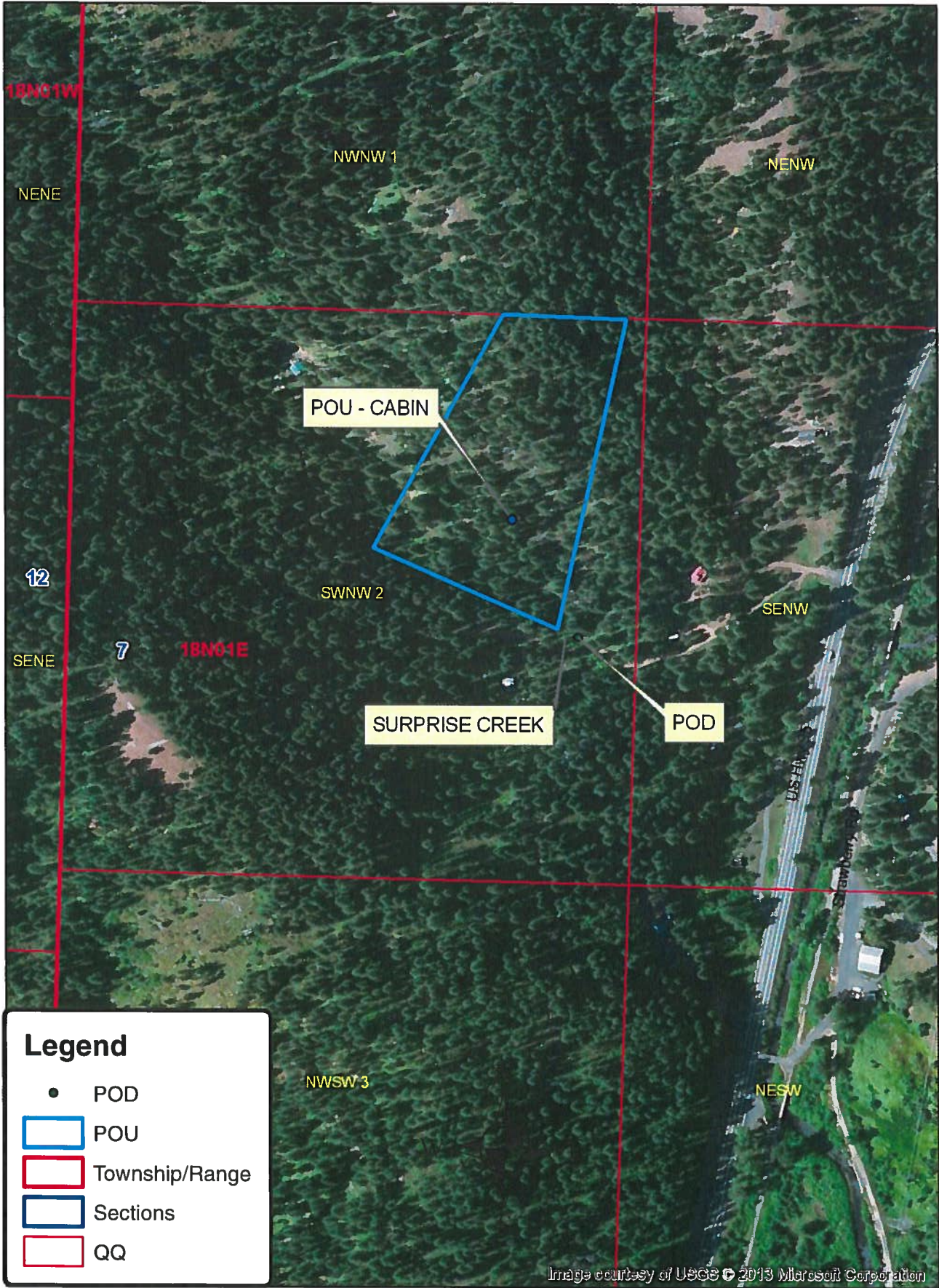
2/4/13 ~~PC~~ ☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

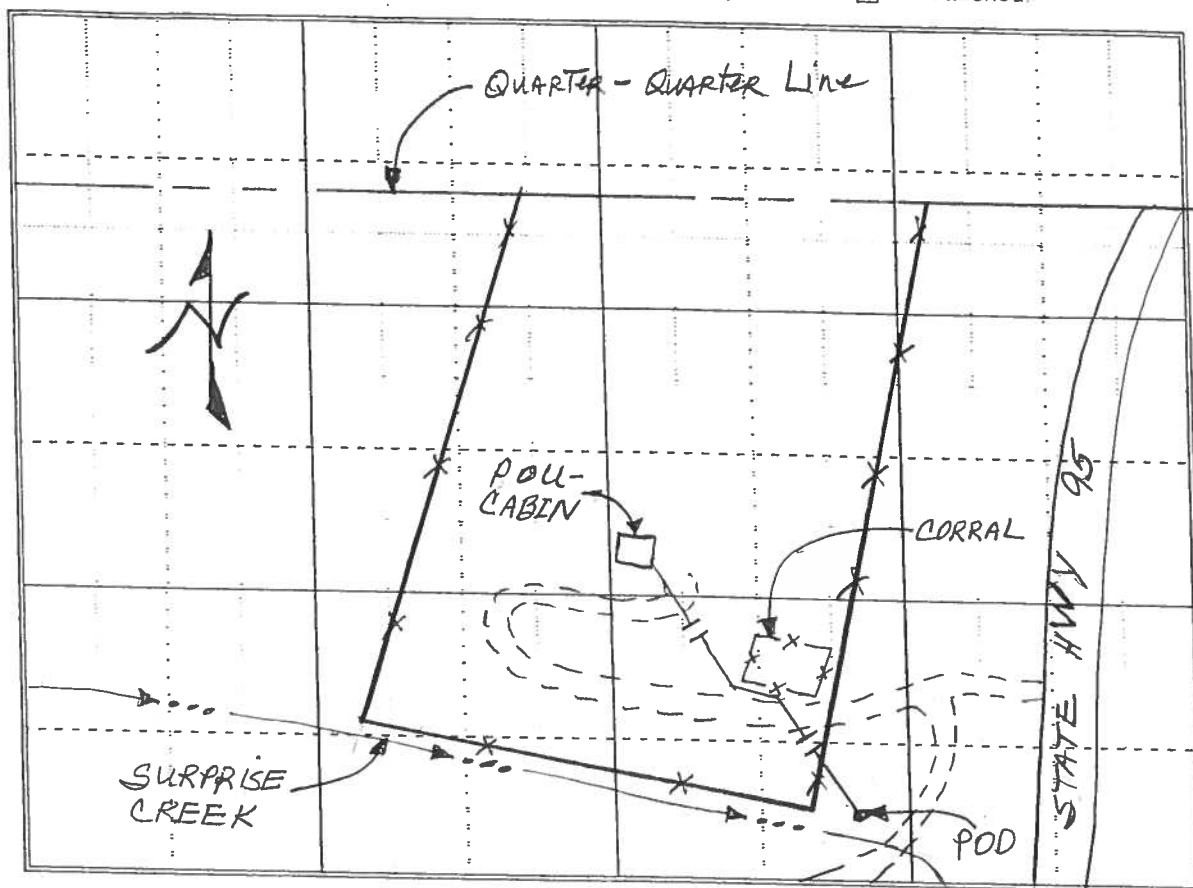
Field Examiner's Name Rick Collingwood Date 1/24/13
 Reviewer _____ Date _____

67-8038
GOV'T. LOT 2

BING AERIAL PHOTO - 2011



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: 67-8038

Field Exam Date: 8-30-12

PLS: SW1/4, NW1/4 Section 7, T.18N, R.01E.

Field Examiner: RC



Point of Diversion: View westerly of 4' diameter concrete collection basin and pump station. The collection basin, which is 10' in depth, collects water seepage from Surprise Creek through a 2' thick layer of gravel and six (6) 1" diameter holes at the bottom of the collection basin.



View inside of concrete basin and pumping station. The 1-hp Jacuzzi pump is operated by a float switch. Power to pump is provided by a portable generator at right holder's cabin.



Place of Use: View easterly of corral for livestock. The water hydrant is used to fill the water troughs. No livestock on-site during the field exam.



Place of Use: View westerly of cabin. A portable generator, shown on the porch, provides power to the cabin and to the pump in the water collection basin.



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 6, 2012

Howard A. Heminger
323 Snowmoody Way
Ontario, OR 97914

RE: Scheduling Field Exam for Water Right Permit No. 67-8038

Dear Mr. Heminger:

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 0.06 cfs of surface water from a spring and Surprise Creek for stock water for 20 horses and range cattle, and domestic use for one home.

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 14, 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, appearing to read 'Rick Collingwood', is written over a horizontal line.

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