

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 2-7463

Exam Date: 5/7/2013

1. Current Owner: HIDDEN VALLEY ESTATES LTD PARTNERSHIP
JESS VAN HALL
146 W CUB
MERIDIAN ID 83642
(208)866-4874

2. Accompanied by: Jess Van Hall

Phone No:

Address:

Relationship to Permit Holder: same

3. SOURCE

SNAKE RIVER

TRIBUTARY

COLUMBIA 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: progeny of 2-2073B and 2-2077B [see narrative]

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

SNAKE RIVER

NE1/4SW1/4

Sec. 23, Twp 02N, Rge 04W, B.M.

OWYHEE County

Method of Determination: aerial photograph and GPSed lifter station N43.49158, W-116.78335. POD about 10 - 20 feet east on Snake R.

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	
02N 04W 23										7.0 L 3	9.0						16.0
02N 04W 26					2.0 L 1	2.0											4.0

Total Acres: 20

Method of Determination: aerial photographs

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.

Well or Diversion

<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 Size</u>
POD	Baldour	50	ID # JPM25431	unknown	12"
Booster	unknown	15	spec # 40H026w917	unknown	12"

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

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements: none taken

E. FLOW CALCULATIONS ☐ Additional Computation Sheets Attached

[1] Per IDWR standard 0.02 cfs/acre:

40 acres x 0.02 cfs/acre = 0.40 cfs

Measured Method:

[2] The HP equations: 50 hp pump + a 15 hp booster = 65 hp, Z = estimated 30' lift to land surface, 10 psi for an open discharge system, 70% efficiency:

$$\frac{[65] [0.70] [8.8]}{30' + [2.31] [10 \text{ psi}]} = \frac{400.4}{53.1} = 7.5 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = [20 \text{ acres}] [4.5 \text{ afa}] = 90 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = [0.40 \text{ cfs}] [260 \text{ days}] [1.9835] = 206.28$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 90 \text{ af}$$

2. Volume Calculations for Other Uses: not applicable

G. NARRATIVE/REMARKS/COMMENTS

This permit was issued for use in the Hidden Valley Estates Subdivision. Permittee, Jess van Hall, accompanied me on the field exam. His father applied for the water right, he thinks to ensure that lots could be sold within the subdivision with irrigation water rights. The subdivision has not reached build out. The point of diversion is about 10 to 20 feet off shore in the Snake River. The point of diversion and the conveyance system are decades old, except for the 50 hp main pump, and the 15 hp booster pump, which were replaced about three years ago. Mr. Van Hall did not have specs for the system. The legal description of the POD is incorrectly identified on the permit as being in the SESW of Section 23, and must be amended to the NESW of Section 23.

Water is pumped from the Snake River via a 12" diameter steel pipe to a corrugated metal sump or lifter, as it is called by Mr. Van Hall. The sump is approximately 4 feet in diameter, with a pump and motor. From this sump, the water goes to another approximately 4 feet in diameter corrugated metal standpipe. A 15 hp booster pump conveys the water to the underground distribution system through a 12" pipe to a second booster pump in the SWSW of Section 23. From this booster pump, 6" to 8" PVC pipe carries the water to the place of use. The system was operating the day of the exam and a pressure gauge located on the 15 hp booster pump indicated the operating pressure was 63 psi. There is a second booster pump about 1550 feet west of the POD.

Most of the place of use is leased to McKentire Farms and is planted in alfalfa. The two large fields were being irrigated by hand lines the day of the exam. Additionally, there is a sprinkler system that waters the common areas, and the two residential lots in the NWNW and NENW of Section 26.

Overlapping rights at the POD are parent rights 2-2077B and 2-2073B, both of which have had several splits as lots have been sold and the lot owners have changed portions of the rights into their names. There are no overlapping POU rights.

The permitted place of use was 23.6 acres. I found 20 acres irrigated. A review of aerial photographs indicates this is the maximum number of acres irrigated under this permit since the development period.

The hp calculation resulted in a flow of 7.5 cfs, using an estimated z of 30 'of lift from the depth of the pump in the river to the lift station. The progeny of the overlapping rights 2-2073B [2-10330, 2-10346 through 2-10352 and 2-10458 through 2-10460] are limited to 2.1 cfs, and the

Progeny of 2-2077B [2-10411, 2-10412, 2-10413, 2-10414, and 2-10415] are limited to 0.16 cfs for a total of 2.26 cfs authorized from this POD. There were no changes to the POD in the many splits.

Clearly, there is sufficient flow for this permit to be licensed for the 0.40 cfs at the standard 0.02 cfs per acres, without combined use limitations. I recommend for licensing 20 acres of irrigation and an annual volume of 90 af, which is the lesser of the Vd and Vr calculations.

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

H. RECOMMENDATIONS

1. Recommended Amounts

- 1) Permit amount 0.48 cfs
- 2) Beneficial use limit 0.40 cfs
- 3) System measurement 7.5 cfs
- 4) Proof fee amount 1 cfs

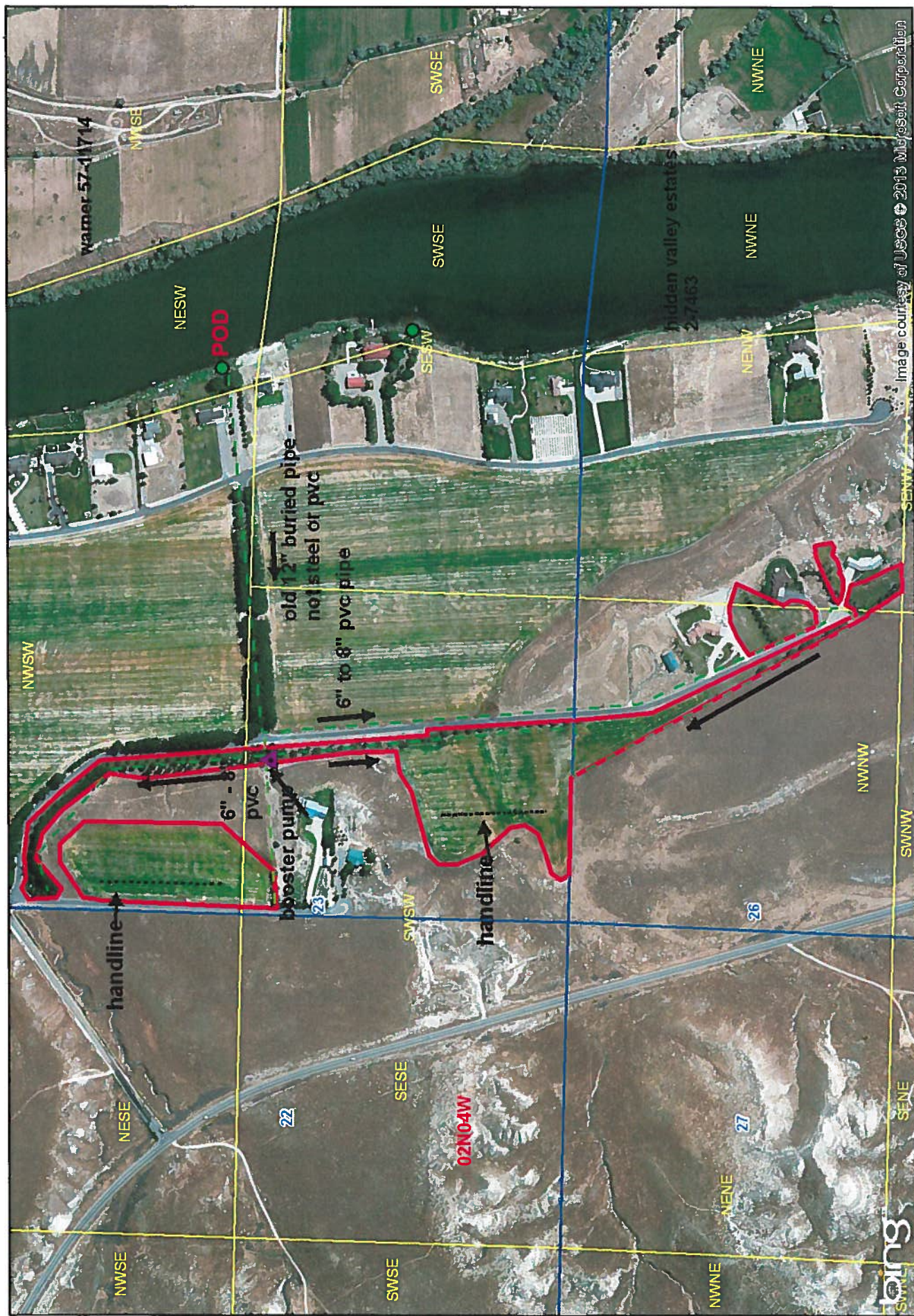
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.400 CFS	90.00 AF
<u>Totals:</u>		0.400 CFS	90.00 AF

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 Windy Wm C Date 1-26-13
 Reviewer _____ Date _____



2-7463 -- Hidden Valley Estates. POU outlined in green. POD from Snake R shown. Piping in green. POD from Snake R shown. 2011 Bing photography.



Snake River

POD on the Snake River is about 30 south [right]. Water is pumped into this sump via a 50 hp pump. View is of the sump/lifter pump/motor assembly, and the 12" steel pipe [left] that transport water to another corrugated metal



Steel pipe from sump / lifter pump by river to corrugated standpipe seen right.

Steel pipe



Corrugated standpipe north of the sump/lifter pump/ motor assembly.

Overflow pipe

Pipe to booster pump and delivery system



Another view of the second standpipe. Pipe from the sump with the pump/ motor assembly.

8" steel pipe from to the booster pump and delivery system.



8" steel pipe from
corrugated
standpipe to 15
hp booster pump



8" buried pipe to
distribution system



Looking southwest at the place of use in the SWSW Section 23. Planted in alfalfa.



Booster pump located in the irrigated common area



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

August 30, 2013

HIDDEN VALLEY ESTATES LTD PARTNERSHIP
JESS VAN HALL
146 W CUB
MERIDIAN ID 83642

RE: Water Right Permit No. 2-07463

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
- ☒ Place of Use

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 14 days.

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

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosures – Application for Amendment and Layout

9-14
Jess Van Hall
called - we discussed
"Lanning place - covered
under 02-10413" and
Point of Diversion -
will send in
amendment.
KW



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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 2, 2013

JESS VAN HALL
HIDDEN VALLEY ESTATES
146 W CUB
MERIDIAN, ID 83642

Re Permit To Appropriate Water No. 2-7463

Dear JESS VAN HALL:

The permit referenced above was issued for the irrigation of 23.6 acres in the Hidden Valley Estates subdivision from the Snake River. This letter is to request that you call me to schedule the field exam for this permit. A field exam is required by Idaho law before a license can be issued, at which time it becomes a water right. The license is the end product needed for continued water use.

The system must be operating the day of the exam and you will need to provide information regarding diversion and delivery works, such as pump and motor specs, number and size of sprinkler lines.

I will be conducting exams in the Marsing area on Monday and Tuesday, May 13 and 14, 2013. Please call me at 208.334.2190, **by May 9, 2013**, to set an appointment for the exam. Failure to respond to this letter request may result in the permit being voided or a license issued for less than the permitted amount. Thank you.

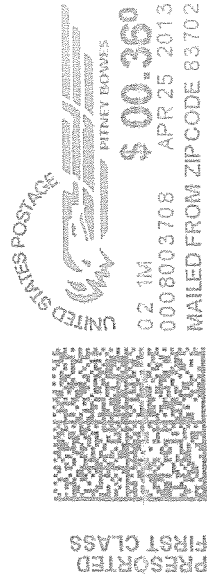
Sincerely,

Vicky Music
Sr. Water Resource Agent

RETURN SERVICE REQUESTED

NIXIE 837 DE 1 00 04/27/13
RETURN TO SENDER
VACAN!
UNABLE TO FORWARD
RC: 83705508235 20095-06618-75-44
[Barcode]

2000年12月29日





State of Idaho

DEPARTMENT OF WATER RESOURCES

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

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 25, 2013

VANCE VAN HALL
HIDDEN VALLEY ESTATES
PO BOX 816
MARSING, ID 83639

Re Permit To Appropriate Water No. 2-7463

Dear Mr. Van Hall:

The permit referenced above was issued for the irrigation of 23.6 acres in the Hidden Valley Estates subdivision from the Snake River. This letter is to request that you call me to schedule the field exam for this permit. A field exam is required by Idaho law before a license can be issued, at which time it becomes a water right. The license is the end product needed for continued water use.

The system must be operating the day of the exam and you will need to provide information regarding diversion and delivery works, such as pump and motor specs, number and size of sprinkler lines.

I will be conducting exams in the Marsing area on Monday and Tuesday, May 6 and 7, 2013. Please call me at 208.334.2190, **by May 3, 2013**, to set an appointment for the exam. Failure to respond to this letter request may result in the permit being voided or a license issued for less than the permitted amount. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Vicky Music'.

Vicky Music
Sr. Water Resource Agent