

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23653

Exam Date: 4/30/2020

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
Irrigation of 5 acres or less, combined diversion rate less than .24 cfs

2. Current Owner:
XAVIER RIES 9715 N HIGHWAY 52 HORSESHOE BND ID 83629-5001 (949) 412-8941

3. **SOURCE:**
PAYETTE RIVER

Tributary
SNAKE RIVER

Method of Determination: Aerial imagery

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
65-12544	Payette River	Irrigation	Decreed
65-9057	Groundwater	Domestic	Decreed

Comments: 65-12544 and 65-9057 are owned by applicant.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
65-12544	Payette River	Irrigation	Decreed

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

PAYETTE RIVER L2 (SW¼ SE¼), Sec. 15, Twp 07N, Rge 01E, B.M. GEM County

Method of Determination: Aerial Imagery, PLSS, Parcels

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01E	15															2.9 L2		2.9

Total Acres: 2.9

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01E	15															X L2		

Method of Determination: Parcels, PLSS

3.

Y Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

Y Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

Y Aerial Photo Attached (required for irrigation of 10+ acres).

Y Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Unknown					

D. FLOW MEASUREMENTS : N/A

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

The field exam was done in-house, so no measurement was needed.

E. FLOW CALCULATIONS

N Additional Computation Sheets Attached

Measured Method:

Irrigation

Administrative Memo #17 Small acreage < 5 acres rate = 0.03 cfs/acre

Acres irrigated = 2.9

Recommended irrigation rate = 2.9 ac x 0.03 cfs/ac = 0.09 cfs

Stockwater

3-5 head

Administrative Memo #3 Standard rate for 0-10 head: 0.02 cfs

Recommended stockwater rate: 0.02 cfs

Total recommended rate: 0.11 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.9 \text{ ac} \times 4.5 \text{ af/ac/yr} = 13.0 \text{ af}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.09 \times 260 \text{ days} \times 1.9835 = 46.4 \text{ af}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 13.0 \text{ af}$

Irrigation volume not assigned to surface water irrigation rights per Beneficial Use Examination Rule 035.01.j.viii

Recommended irrigation volume = NA

2. Volume Calculations for Other Uses:

Stockwater – Administrative Memorandum #3, 0-10 head @ 0.2 af

Recommended stockwater volume = 0.2 af

G. NARRATIVE/REMARKS/COMMENTS

Permit 65-23653 authorizes irrigation and stockwater totaling 0.11 cfs on 3.1 acres. The original application was filed by Win McCracken on April 18th, 2016. Ownership of the permit was assigned to Xavier Ries on October 14th, 2016 and the department received the assignment of permit on August 30th, 2019. Proof of beneficial use was submitted September 16th, 2019. I conducted an in-house field exam on April 29th, 2020, which was accompanied by a phone conversation with the applicant on the same day and an email correspondence on April 30th, 2020 (attached).

The place of use (POU) on the permit is a 4.3 acre parcel (RP07N01E158580) owned by Mr. Ries along the Payette River in Lot 2 (SWSE) Twp. 7N Rge 01E Sec. 15. Aerial imagery shows the applicant's irrigated acreage is 3.3 acres when accounting for the driveway and buildings. This permit's POU overlaps 65-12544 (0.04 cfs), which is used to irrigate 0.4 acres of lawn around the house, and 65-9057, which is for domestic use from groundwater for a home and up to ½ acre of yard irrigation. All irrigation; however, appears to be from the river. Because the irrigation rights in total irrigate 3.3 acres on the parcel and this license was requesting up to 3.1 acres at the POU, I am recommending 2.9 acres, which is 3.3 acres less the 0.4 acres allowed for in 65-12544.

Other than the decreed rights also owned by the applicant, there is slight overlap with neighboring irrigation right 65-23729. This is in the same 40-acre tract, but it is for another property. Pastures in this area do not seem to align with the tax parcel GIS layer, which defines many of the POU's. This pattern occurs for several years. Aerial imagery shows that prior to this permit, the overlapping area was not irrigated by 65-23729. The shift in aerial imagery is consistent with neighboring parcels as well.

The point of diversion (POD) is along the Payette River on a parcel owned by the Bureau of Reclamation. The POD overlaps 65-12544, also owned by the applicant. There are other PODs in the 40 acre tract, but they are for other properties. IDWR databases show the POD for 65-12544 to be approximately 140 feet upstream of the POD for this permit, though Mr. Ries confirmed that the PODs are actually the same pump. Mr. Ries stated he put in another pump to allow for extra capacity required by this permit. In his email correspondence, the applicant also stated that the pump was slightly west of the POD location in the permit. Because it is closer than the previous location in 65-12544, I feel that the location is accurate enough to locate in the field should the department need to.

The sprinkler system runs 25 Hunter rotors and 16 Rainbird impact sprinklers. The diversion is small and is all-or-none should there be regulation due to priority. The watermaster can lock the power box to prevent diversion.

Have conditions of permit approval been met? x Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/01 to 11/15	0.09 CFS	
STOCKWATER	01/01 to 12/31	0.02 CFS	0.2 AF

Totals: 0.11 CFS

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 x None

I. AUTHENTICATION

Alex Moody - Hydrogeologist, Staff

Field Examiner's Name

Date

9/3/2020

Reviewer

Date

9-3-20

Attachment A: Email Correspondence with applicant

Subject	Re: Field exam questions for your water right 65-23653
From	xries012@aol.com
To	Moody, Alex
Sent	Thursday, April 30, 2020 2:29 PM
Attachments	<<IMG_3657.jpg>> (PICTURE IN REPORT PHOTOS – ACM)

Hi Alex,

My POD is just to the left of the green marker. Where it looks like the tree line curves back into the river and it looks like an individual round tree. It would be just to the right of Purple POU line on the west side of my property if you were to continue it straight out to the river. Pump from river to buried lines with 25 Hunter rotor and 16 Rainbird impact rotor sprinklers.

Thank you,
Xavier Ries

-----Original Message-----

From: Moody, Alex <Alex.Moody@idwr.idaho.gov>
To: xries012@aol.com <xries012@aol.com>
Sent: Wed, Apr 29, 2020 3:26 pm
Subject: Field exam questions for your water right 65-23653

Hello Mr. Ries,

Per our conversation earlier, I'm attaching a map of your water right that we are licensing in-house. It shows the place of use (POU) which is your parcel and points of diversion (PODs) for this right and already licensed rights.

Please confirm that the POD for this right (green box) is in the correct location. If not, please provide us with more accurate coordinates via google maps or a GPS. I'll also update the POD for 65-12544 to be in the same location just so our records are correct.

If you could take a picture of the point of diversion, that would help in our exam.

We did not talk about this, but if you have information on your pump (make, model , horsepower) and a short description of how you irrigate, that info will help the report. A description of the system could be something like " Pump from river to hand lines with 10 rainbird sprinklers" or "pump from river to flood irrigation" - whatever your system may be.

Thank you,
Alex Moody
Staff Hydrogeologist
Idaho Dept. of Water Resources
Phone: (208) 287-4849



65-23653
System Diagram with overlap

0 30 60 120 180 240
Feet





65-23653

Parcel misalignment with imagery

Parcels do not align well with irrigated patches in this 2019 imagery. Apaprent shift of parcels is approximately 15 feet west relative to imagery.



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