

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-14845

Exam Date: 7/25/2017

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- a. Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >
2. Current Owner: Name: Hermenegildo T Jordan
- Owner-of-Record Correct? ☒ Yes ☐ No
- Address-of-Record Correct? ☒ Yes ☐ No
- If No:

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: C103826

4. SOURCE TRIBUTARY

Ground water

NA

Method of Determination: the permit application documents identify the POD

Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: 2 acres of the 9.1-acre taxlot (RP00112000003A) is the authorized POU for this right. ½ acre additional irrigation around the house is authorized by either 75-10714 or 75-10715.

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: There are two wells on the property. SRBA decreed rights 75-10714 and 75-10715 for domestic use divert from the other well.

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

Source	Govt. Lot	¼	¼	¼	Sec.	TWP	RGE		County
Ground water	06		SW	SE	35	24N	21E	B.M.	LEMHI

Method of Determination: The POD location is shown in the application map.

Change in POD? ☐ Yes ☒ No

Amendment Required? ☐ Yes ☒ No

2. **LOCATION OF PLACE(S) OF USE:** 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	
24N	21E	35															2.0 L6		2.0

Method of Determination: The legal description in the permit is validated by PLS data.

Change in POU? ☐ Yes ☒ No Amendment Required? ☐ Yes ☒ No

3.

☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. 1000-gal storage tank with one pipeline to the house.

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

☐ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		3/4			

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

D. FLOW MEASUREMENTS

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

2. Measurements: In-office field exam. No measurements taken**E. FLOW CALCULATIONS**☒ Additional Computation Sheet Attached

	Irrigation	
Policy standard	0.03 cfs per ac for small acreage	
Permit allowed	0.06 cfs	
License recommendation	0.03 cfs	

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \times 3.5 = 7.0 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.73 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 7.0 \text{ AF}$$

Volume Calculations for Other Uses: NA

G. PURPOSE OF USEIrrigation ☒ Yes ☐ No # Stock NA Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Permit 75-14845 authorized diversion of 0.06 cfs for irrigation use. Based on the small permitted diversion rate, this permit qualifies for an in-office field exam.

The legal description of the POU was used to locate the property. Available Lemhi County taxlot information shows that the owner of the property containing the POD and POU is Hermenegildo T. Jordan. The physical address is 14 Elk Ridge Ln, Salmon ID, 83467 or Lot 3 Amended Rock Point Sub. Google Earth identifies it as 14 Elk Ridge Rd, North Fork, ID. A review of historical imagery shows that the POU has been irrigated for many years.

I created the POU shape based on the permit POU. 2017 Landsat imagery confirms that the POU is being irrigated this year.

I created the POD shape is based on the permit's POD shape and application map. The POD is visible in Google Earth imagery.

The POD and POU are within the Wild & Scenic Watershed of the Salmon River. The right will be conditioned to notify the right holder of the need for future watermaster control.

On 7/26/2017, I called Ted Jordan (Hermenegildo T. Jordan) and requested the pump size and confirmation of the number of wells. He responded by return phone call on 7/27/2017. The current pump is a ¾ horsepower and he believes that it is delivering 10 gpm (~0.02 cfs) based solely on the 1985 Well Driller's Report. He did not give me the current pumping level. Mr. Jordan also stated that there are two wells on the property. The other well is dedicated to supplying water for the decreed domestic uses.

I am recommending 0.03 cfs for the license based primarily on theoretical calculations for the pump and well. The well driller's report does not identify the size of pump that was used for the well test, so the tested rate is only one possibility for this well. I don't believe that the current pump is run for same length of time as the pump was run during the well testing. And I believe that at shorter run-times, the drawdown will be less. 0.03 cfs for 2 acres is 0.015 cfs/acre and is sufficient for the grass hay crop that Mr. Jordan grows.

POU/POD overlap

Additional irrigation of the landscaping around the home can be provided through one of two SRBA decreed domestic rights which are in the Jordan family name.

Have conditions of permit approval been met? ☒ Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	04/01-10/31	0.03 cfs	7.0 af
	<u>Totals</u>	0.03 cfs	7.0 af

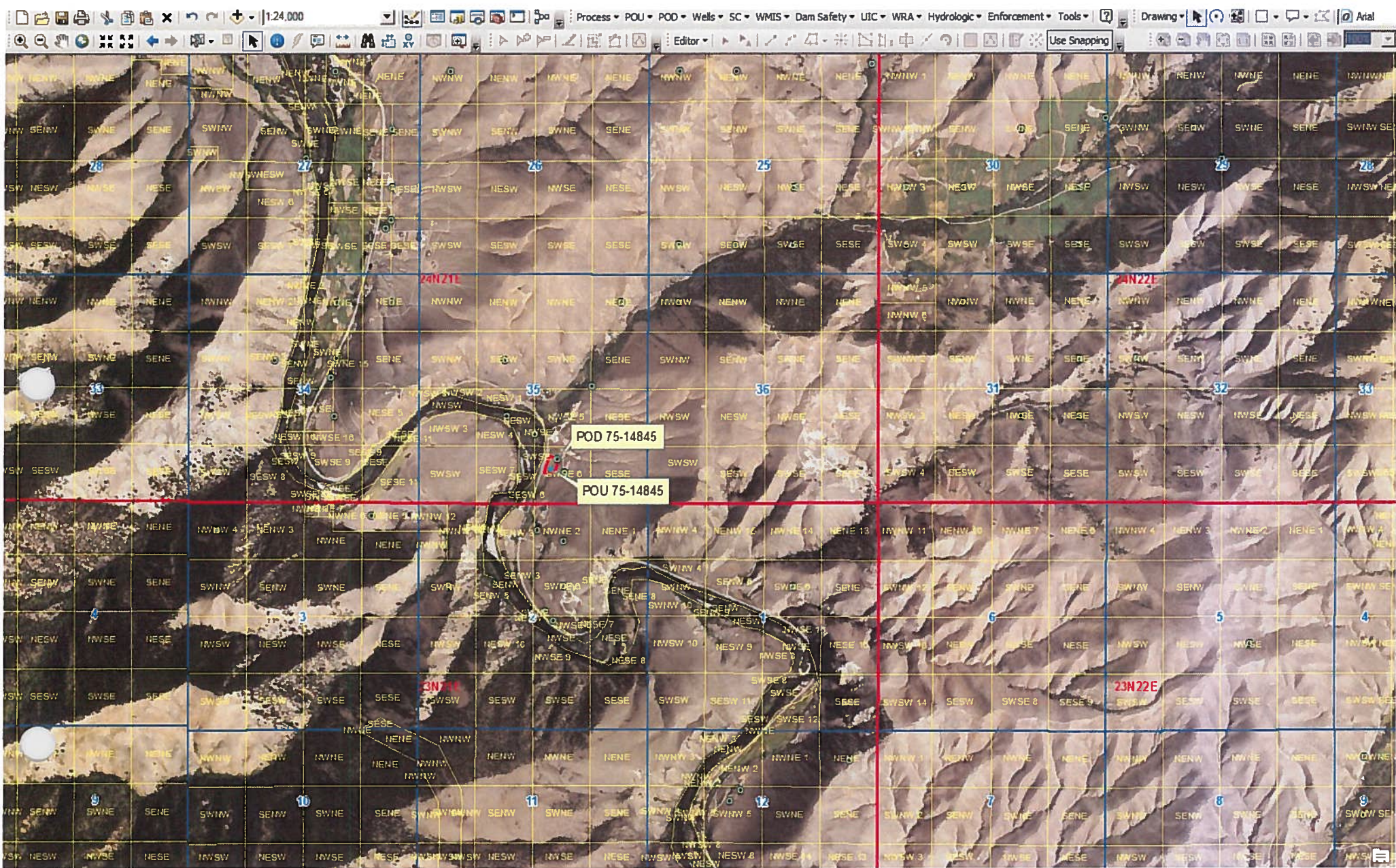
2. Recommended Amendments
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other
I. AUTHENTICATIONField Examiner's Name Michele Edl  Date July 28, 2017

Reviewer _____ Date _____

Workflow
☒ Exam Date Entered
☒ POU/POD shapes
☐ Combined Rights Entry
☒ Wild & Scenic Entry
☒ Draft License and Maps
Supporting Documents
☐ Historical Imagery ☐ Well Log ☒ from app
☐ Photographs ☐ Diagrams ☐
☒ LandSat ☒ Theoretical ☒
 Other: Google Earth imagery dated Oct 2014

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)									
Water Right No.:	75-14845								
Reviewer:	Michele Edl								
Date of Review:	7/28/2017								
P/D No.:		Senerio 1		Senerio 2		Senerio 3			
PUMP HORSEPOWER		0.75		0.75		0.75			
BOOSTER HORSEPOWER		0		0		0			
PUMPING LEVEL		82.0		82.0		82.0			
DISCHARGE PRESSURE		35		45		55			
RATE OF FLOW (cfs)		0.028		0.025		0.022		0.03	
The above calculates the formula =		Q =	$\frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$						
Assumptions:	% 70 efficiency No Friction								
Examiners Notes:									
Horsepower was given by the applicant. Lift was estimated by the reviewer and is based on the water bearing rock layers in the well driller's report for this well. A 3/4 horse pump could still deliver 0.03 cfs at a drawdown to ~80 ft below ground level but not if drawing from the well bottom at 154 ft below ground. Discharge pressure ranges from 35-55 psi to account for expected system in use.									





POD 75-14845

POU 75-14845

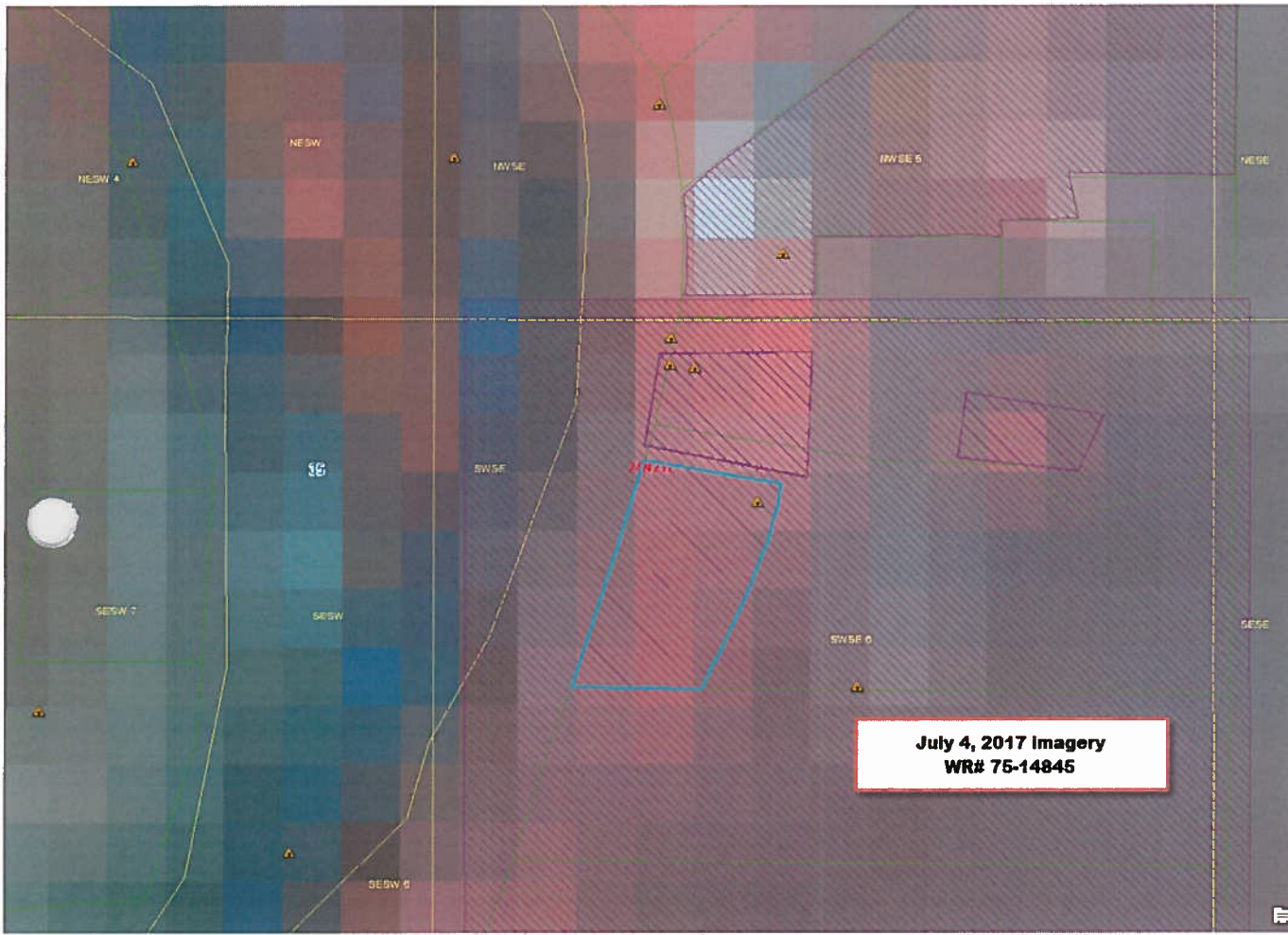
Google earth

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Report a problem

Tour Guide

45°21'42.63" N, 113°55'30.98" W elev 3710 ft eye alt 3696 ft



Identify from: Taxdots

Taxdots

JORDAN, HERMENEGILDO T

Location: 2,504,518.474 1,573,391.072 Meters

Field	Value
ID	8007323
UPDATED	3/3/2017
PIN	RP00112000003A
OWNER	JORDAN, HERMENEGILDO T
ADDRESS1	PO BOX 664
ADDRESS2	
CITY	SALMON
STATE	ID
ZIPCODE	83467
P_ADDRESS	14 ELK RIDGE LN
P_ZIPCODE	83466
SUB_NAME	ROCK POINT SUB.
LEGAL1	ROCK POINT SUBD.
LEGAL2	LOT 3 AMENDED
LEGAL3	
LEGAL4	
LEGAL5	
LEGAL6	
ACRES	9.1
COUNTY	Lemhi
SOURCE	<null>
YEAR_BUILT	1983

Layers

☐ Water Permit POD

☐ Water Right POD

☒ SpatialData

☒ Water Permit POU

☒ PLSS

☒ Township/Range

☒ Sections

☒ QQ

☒ Taxdots

☐ Water Right POU

☒ p40r29_j8_20170704_b543.sd

☒ DRG

☒ Imagery

☐ 2015 (1 meter)

RGB

Red: Red

Green: Green

Blue: Blue

☒ 2013 (0.5 meter)

☐ 2011 (1 meter)

☐ esi Imagery (1 foot)

☐ 2009 (1 meter)

☐ 2006 (2 meter)

☐ 2006 (1 meter)

☐ 2004 (1 meter)

☐ 1992-2000 (1 meter)

☐ 1987 (3.5 meter)

☐ 1980 - 1987 (1 meter)