

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11N	16E	30									1.3	0.7							
		Lot #																	
																Total Acres =		2.0	

Method of Determination: GIS Imagery. Taxlot 3.7 acres. Per 2013 NAIP, only 2.0 acres irrigated. In HES #322 **HES 322 was not divided into protracted QQ's. POU is in the protracted QQs of the NESE & NWSE. This is different than the GCDB representation.**

Change in POU? ____Y__X__N Amendment Required? ____Y__X__N

__ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

__ 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

*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: < _____ >

E. FLOW CALCULATIONS

____Additional Computation Sheets Attached

Measured Method:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 2.0 acres(0.03 cfs) = 0.06 cfs

See theoretical pump calc. Sheet. 0.06 cfs possible with 1.5 hp pump.

Measurement = 0.06 cfs

Permit allowed = 0.11 cfs

License recommend for 0.06 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.0 \times 3.0 = 6.0$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 214 \times 1.9835 = 25.5$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.0$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation __X__Y__N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ____Y__N

Method of Determination: GIS Imagery

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

H. NARRATIVE/REMARKS/COMMENTS

- In Wild and Scenic Watershed: Salmon River Excluding Middle Fork
 Season of Use: 04/01-10/31 (214 days)
 Headgate: 3
 Cons. Use: 2
 Water District 170

Conditions

- Prior to diversion under this right, the right holder shall install a lockable device, subject to the approval of the Department, in a manner that will provide the watermaster suitable control of the diversion.
 - o In house exam – carry to licensing without Prior to Diversion to Must maintain.
- The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.
 - o In house exam – carry to licensing.
- Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. As the time of this approval, this water right is within State Water District No. 170.
- Upon specific notification by the Department, the right holder shall install and maintain acceptable measuring device(s), including data logger(s), at the authorized point(s) of diversion, in accordance with Department specifications.
- When notified by the Department or by a watermaster with regulatory authority over this right, the right holder shall report the amount of water diverted in connection with this right. The report shall be submitted in the manner and frequency specified by the Department or the watermaster.

Although application indicates water is supplemental to 72-2073D (Gardner Creek), no supplemental conditions because 72-2073D and 72-16804 are both surface water. Did X35 combined limits condition to 3.8 which is limit of 72-2073D. Did give some acreage on neighbor's taxlot – assumed taxlots were off a bit as the QQ is protracted.

HES 322 was not divided into protracted QQ's. POU is in the protracted QQs of the NESE & NWSE. This is different than the GCDB representation.

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 to 10/31	0.06 CFS	N/A AF
<u>Totals:</u>		0.06 CFS	N/A AF
Exempt: IDAPA 37.03.02 j viii			

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 ☒ None

Other: < >

J. AUTHENTICATION

Field Examiner's Name Daniel A. Fisher Date 03-03-15

Reviewer Daniel A. Fisher Date 3-4-15

72-16804



0 15 30 60 90 120 Feet

D. Favreau

02/25/15

Not Irrigated

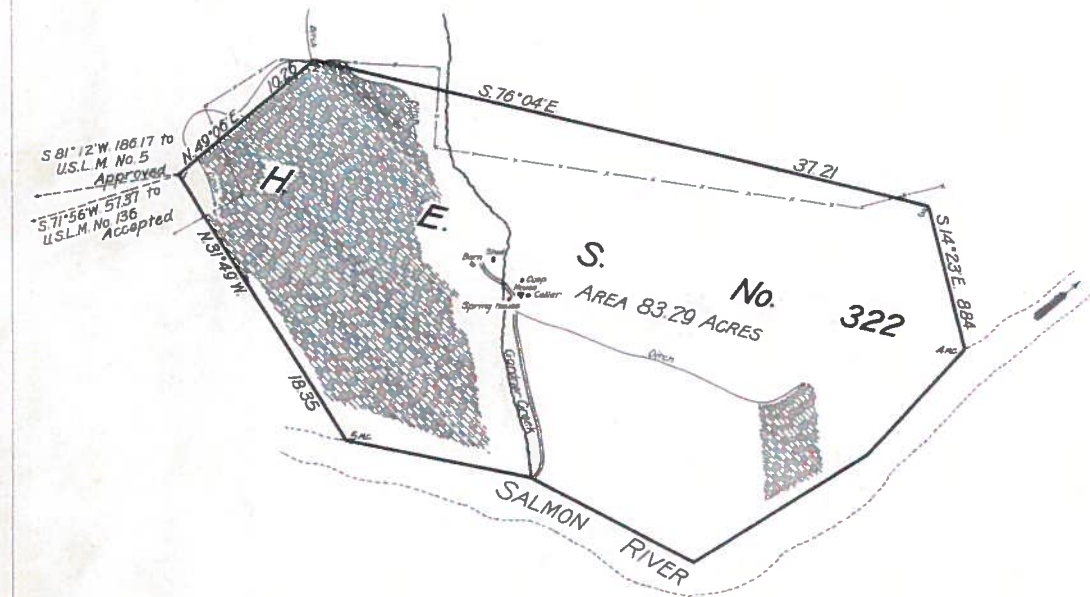
Irrigated

SENW

30 11N16E

SENE

NESE 6



11716
 843-05A 1.32
 455-2711 12.10
 264-56W 10.75
 777-1011 11.15
 5 MC

Approximate
 T.11N., R.15E.
 Unsurveyed

Plat of
HOMESTEAD
ENTRY SURVEY
 No. 322
 in the
CHALLIS
NATIONAL FOREST
 in
 Approximate
 T.11N., R.15E. unsurveyed
 of the
BOISE BASE AND MERIDIAN
IDAHO

This plat of Homestead Entry Survey No. 322 State of Idaho is strictly conformable to the field notes thereof on file in this office, which have been examined and approved.

U. S. Surveyor General's Office

Boise, Idaho

October 3, 1916.

Edward Haddell
 U. S. Surveyor General

SCALE 5 chains to 1 inch

Survey Designated	By whom Surveyed	Inst. Cont. Group No.	Date	When Surveyed	Date of Approval
U.S.L.M. No. 130	W.B. Rice Forest Assistant	136	July 14, 1913	July 21, 1913	July 22, 1913
..... 5	Job H. Winwood, U.S.L.M.	2153	May 16, 1907	Aug. 26, 1907	Dec. 21, 1907
H.E. Survey No. 322	R.D. Garver Forest Examiner	322	Mar. 16, 1915	July 17, 1915	July 19, 1915

Areas in Acres	
H.E. Survey No. 322	Conflicts
In Section	
In Section	
In Section	
In Section	
Total	83.29

Act of June 11, 1906
 List No. 4-790
 Latitude 44° 15' 34" N.
 Longitude 115° 39' W.
 Mean Mag. Decl. 20° 18' E.
 At Corner No. 5.

Accepted Jan. 13, 1917

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 72-16804
 Reviewer: D. Favreau
 Date of Review: 2/25/2015

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	1.5	1.5	1.5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	40	40	40
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.07 31	0.06 27	0.05 23
			0.06 27.07

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:

The horspower as indicated on appliation. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the maximum deliniation between the topo map's elevation lines .

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Right	72-10012	N	CURTIS FAMILY LLLP	GROUND WATER	POD			X														0
Water Right	72-10012	N	CURTIS FAMILY LLLP	GROUND WATER	POU			X														0
Water Right	72-10026	N	BEALE, ROSS; BEALE, VELMA	GROUND WATER	POD													X				0
Water Right	72-10026	N	BEALE, ROSS; BEALE, VELMA	GROUND WATER	POU													X				0
Water Right	72-10104	N	BOREN, MARJORIE D; BOREN, ROBERT R	GROUND WATER	POD													X				0
Water Right	72-10104	N	BOREN, MARJORIE D; BOREN, ROBERT R	GROUND WATER	POU													X				0
Water Right	72-10405	N	LEE, DAVID	GROUND WATER	POD													X				0
Water Right	72-10405	N	LEE, DAVID	GROUND WATER	POU													X				0
Water Right	72-10479	N	HORTON, MARGARET; HORTON, HORTON,	GROUND WATER	POD													X				0
Water Right	72-10479	N	HORTON, MARGARET; HORTON, NICHOLSON,	GROUND WATER	POU													X				0
Water Right	72-11730	N	DIANE C; NICHOLSON, JULIAN O	GROUND WATER	POD													X				0
Water Right	72-11730	N	NICHOLSON, DIANE C; NICHOLSON, JULIAN O	GROUND WATER	POU													X				0
Water Permit	72-16804	N	BOREN, MARJORIE D; BOREN, ROBERT R	SALMON RIVER	POD													X				0
Water Permit	72-16804	N	BOREN, MARJORIE D; BOREN, ROBERT R	SALMON RIVER	POU													3.3	0.5			3.8
Water Right	72-16811	N	BRYSON, ROBERT H	SALMON RIVER	POD													X				0
Water Right	72-16811	N	BRYSON, ROBERT H	SALMON RIVER	POU													0.4				0.4

[illegible]