

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 77-14162

Exam Date: 9/30/2011

1. Current Owner: DAVID DEWEY
PO BOX 616
LAKE FORK ID 83635
(208)634-7784

And/Or

CHRISTINE DEWEY
PO BOX 616
LAKE FORK ID 83635
(208)634-7784

9/2/2012 Tax Lot information shows: HC83 Box 8110, Cascade, ID 83611 (Mailed Mr. Dewey an address change form on 2/1/2012).

Email: idahodewey@frontiernet.net

Cell: (208)630-3535

2. Accompanied by: Brian Howard

Phone No: (208)467-4230

Address: 2607 Sienna Dr., Nampa, ID 83686

Relationship to Permit Holder: Brian was given permission to be the contact person for Dewey's system; Brian is the president of Copenhaver Association #1.

Email: dental@fiberpipe.net3. **SOURCE**

SOUTH FORK SALMON RIVER

TRIBUTARY

SALMON RIVER

B. OVERLAP REVIEW

- Other water rights with the same place of use: 77-7377 cherry spring source (0.02 cfs, 3.6 af shared with Lots 1, 6, 15, 16, 19, and 21. This is a very low producing spring, and sometimes none is produced, especially in the fall.
- Other water rights with the same point of diversion: 77-14221 (Lot 15, Domestic internal/external use); 77-14328 Copenhaver Association #2 (domestic Lots 17, 19, and 22 internal/external use); 77-74274 domestic internal/external use. All of these water right share the same Copenhaver Association #2 "Domestic POD" and "Domestic distribution" to the point where it is stubbed off to each lot.

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

SOUTH FORK SALMON RIVER NE1/4NE1/4 Sec. 6, Twp 23N, Rge 08E, B.M. IDAHO County

Method of Determination: Garmin GPS map 76S, 2009 and 2011 ArcMap; H.E.S. No.701.

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
23N	08E	6	X																

Method of Determination: Garmin GPS map 76S, 2009 and 2011 ArcMap; H.E.S. No.701.

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>
A0016940	Grundfos SQ Flex	2			1 1/4 inch

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

D. FLOW MEASUREMENTS

1. Measurements:

This domestic system is the same domestic system as 77-14328 Copenhagen Association #2.

Domestic Theoretical System:

$$(8.8 \times 2 \text{ Hp} \times 0.7 \text{ eff}) / [10 \text{ ft lift} + (20 \text{ psi} \times 2.31)] = 12.32/56.2 = 0.219 = 0.22 \text{ cfs}$$

Physical Measurement at Lot 20/21 and L16, running at the same time:

$$\text{Lot 20/21: } (5 \text{ gallons} \times 60 \text{ sec}) / 4 \text{ sec} = 75 \text{ gpm} \times 0.00223 = 0.17 \text{ cfs}$$

$$\text{Lot 16: } (5 \text{ gallons} \times 60 \text{ sec}) / 8 \text{ sec} = 37.5 \text{ gpm} \times 0.00223 = 0.08 \text{ cfs}$$

$$\text{Domestic Maximum Total Capacity of System: } 0.25 \text{ cfs}$$

RECOMMEND: Domestic 1-home internal use only = 0.02 cfs (external use covered under the irrigation component of water right 77-14328 Copenhagen Association #2).

E. VOLUME CALCULATIONS

1. Volume Calculations for Domestic: IDWR Standard for Domestic 1 home, internal use only = 0.6 af

RECOMMEND: Domestic internal use only (1-home) = 0.6 af

F. NARRATIVE/REMARKS/COMMENTS

The POD is shared with 77-14-14328 Copenhagen Association #2 domestic system. At the POD, a hole was hand dug 15 ft deep on the side of the bank of the South Fork Salmon River and then was sleeved/cased (to act as a filtration system, drawing water from the river through the sand). Since the hole is less than 18 ft deep, it does not meet the definition of a well (see 1/19/2012 memo in the file). A Johnson screen was installed at the intake. There is a 2 Hp submersible Grundfos SQ Flex pump, 10 ft lift, 1 1/4 inch discharge to 1 1/4 inch buried poly pipe which turns almost 90 degrees and changes to 2 inch buried poly running south to north along the east property line of lots 15 - 22. (All lots are stubbed-in with 1 inch poly. Lot 15, L16, and L20/21 filed their own water rights, but share the same POD and distribution system going to each of their individual lots. Lot 18 filed their own separate water right and has their own separate individual POD and distribution system. The 2 inch poly is used to add additional storage to the system. Between Lots 19 and 20, the line Ts off and reduces to 1 1/4 inch buried poly that runs up the hill and discharges to a 1400 and 1700 gallon buried plastic storage tanks. Water right 77-14162 is for domestic internal use only. The frost free hydrant that is located on L16 is connected to the irrigation system on water right 77-14328 Copenhagen Association #2 (for watering the area surrounding the house, garden, and for fire protection).

The Quarter-Quarter was determined as NENE by extending the quarter-quarter lines completely down, and by the Homestead Entry Survey (H.E.S No. 701). The location is Lot 16, Copenhagen Subdivision, H.E.S. No. 701.

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

G. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.020 CFS	0.60 AF
	<u>Totals:</u>	0.020 CFS	0.60 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

H. AUTHENTICATION

Field Examiner's Name

Jenny Hemmway

Date

2/6/2012

TO: 77-14162, 77-14221, 77-14274, and 77-14328 (Domestic system)

FROM: Sandy Hemenway

DATE: January 19, 2012

RE: Definition of a Well, and Determination

**IDAHO ADMINISTRATIVE CODE IDAPA 37.03.09 Department of Water Resources Well Construction Standards
Rules Page 8 IAC 2011**

66. Well. (5-8-09) **a.** An artificial excavation or opening in the ground more than eighteen (18) feet in vertical depth below land surface by which ground water of any temperature is sought or obtained. The depth of a well is determined by measuring the maximum vertical distance between the land surface and the deepest portion of the well.

The domestic source for water rights 77-14162, 77-14221, 77-14274, and 77-14328 was confirmed during the 9/30/2011 Beneficial Use Field Examination as the South Fork Salmon River. A 15 foot vertical depth hole was dug in the bank of the South Fork Salmon River (which does not meet the >18 foot vertical depth requirement), which is sleeved/cased, and has a 2 Hp submersible pump which is used to supply the domestic potable water. The vertical sleeve/casing and the sand act as a filtration system to utilize the raw river water as a domestic potable source.

ORIGINAL

Survey accepted May 2, 1921
General Land Office

Plat of
**HOMESTEAD
ENTRY SURVEY**
No. 536
in the
IDAHO
NATIONAL FOREST
in
Approximate
Sections 5, 6, Unsurveyed
T. 23 N., R. 8 E.
of the
BOISE BASE AND MERIDIAN,
IDAHO.

This plat of Homestead Entry Survey
No. 536 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, April 13, 1921.

Edward Hadden
U.S. Surveyor General

SCALE: 10 chains to 1 inch.

Surveys Designated	By whom Surveyed	Inst. Cont. Group		When Surveyed		Date of Approval
		No.	Date	Began	Completed	
H. E. S. No. 701	Marshall S. Wright	701	January 15, 1919	September 23, 1920	September 24, 1920	
H. E. S. No. 587	Marshall S. Wright	587	February 28, 1919	September 23, 1920	September 24, 1920	April 7, 1921
H. E. S. No. 536	Marshall S. Wright	536	February 28, 1919	September 23, 1920	September 24, 1920	April 13, 1921
	Sur. U.S. Forest Service					

Meanders		
Corners	Course	Distance
1 MC.	N. 9° 05' W.	7.32
	N. 7° 31' W.	4.58
	N. 19° 01' W.	3.20
	N. 28° 54' W.	4.07
	N. 28° 35' W.	6.28
	N. 14° 10' E.	2.07
	N. 45° 58' E.	7.72
	N. 22° 53' E.	6.33
-2 MC.	N. 5° 13' E.	7.88

HES No. 536, Conceded August 5, 1996, File 9605, ID-957

Approximate
Sections 5, 6, Unsurveyed
T. 23 N., R. 8 E.

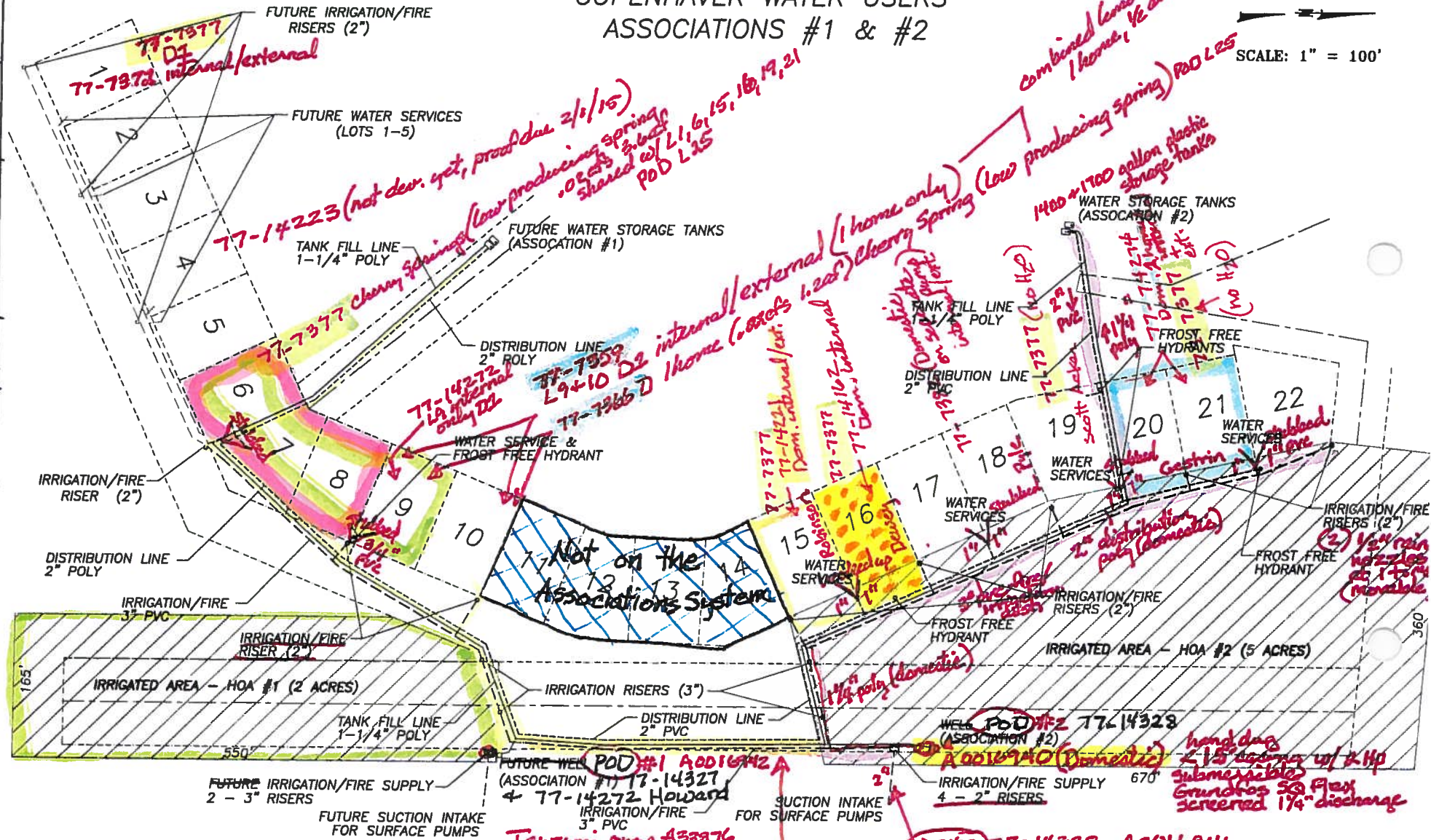
Areas in Acres	
H. E. S. Survey No. 536	Conflicts
In Section	
In Section	
In Section	
Total	95.34

Act of June 11, 1906 Act of May 30, 1920
List No. 4-873 Dated May 11, 1910
List No. 4-1735 Dated May 1, 1915
Latitude 45° 21' 45" N.
Longitude 115° 30' 07" W.
Near Mag. Decl. 20° 40' E. Observations
Near House

2914162
77-14162

COPENHAVER WATER USERS ASSOCIATIONS #1 & #2

SCALE: 1" = 100'



- = 77-14327 irrigation
- = 77-14327 domestic (internal only)
- = 77-14162 (domestic internal only)

Tsurumi Pump #33876
Honda 5.5 HP
1 1/2" discharge
screened intake

POD #2 77-14328 A0016941

Gas pump Honda 6x160 7.5 HP
2" discharge North Star model 10625
max. head 197' 10' lift
screened intake

This line is only to interconnect the systems for fire suppression emergencies (see 11/11/2012 em)



POD
 15' hand
 dug hole
 near
 bank,
 river;
 cased
 with
 2 Hp
 submers
 Grundfo
 SQ Flex
 pump,
 with a
 Johnson
 screen
 at the
 intake,
 1 1/4"
 discharges
 to 1 1/4"
 buried
 poly



Buried
 1400 +
 1200
 gallon
 plastic
 storage
 tanks
 located
 on hill
 west of
 L19 +
 L20 +
 property
 line

77-14162 Dewey

S. Hemenway



POU
L16
Domestic
internal
use
only



POU
L16
Domestic
internal
use
only

for
L17

77-14162 Dewey

S. Hemerway