

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 77-14274

Exam Date: 9/30/2011

1. Current Owner: SHERI J GESTRIN
PO BOX 399
DONNELLY ID 83615
(208)325-8844
- Or
- TERRY F GESTRIN
PO BOX 399
DONNELLY ID 83615
(208)325-8844
2. Accompanied by: Terry Gestrin
Phone No: (208)325-8844
Address: PO Box 399, Donnelly, ID 83615
Relationship to Permit Holder: self
Email address: gestrin@frontiernet.net

3. SOURCE

SOUTH FORK SALMON RIVER

TRIBUTARY

SALMON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 77-7377 (spring source, for 0.02 cfs shared between Lots 1, 6, 15, 16, 19 and 21. 5/5/2008 comments on AdHoc, from owner, stated that no water was ever delivered on the property where the two homes sit.
2. Other water rights with the same point of diversion: 77-14221 (L15 internal/external use 0.04cfs, 1.2 af); 77-14162 (L16, internal use only 0.02 cfs, 0.6 af); and 77-14328 (domestic internal use only for L17, 19 and 22, 0.06 cfs, 1.8 af). Total capacity of system = 0.25 cfs.

C. DIVERSION AND DELIVERY SYSTEM**1. 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, Plat of Homestead Entry Survey No.536 (HES No. 701)

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
23N	08E	6	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
			X																

Method of Determination: Garmin GPS Map 76S, 2009 and 2011 ArcMap, Plat of Homestead Entry Survey No.536 (HES 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.

<u>Well or Diversion</u>					<u>Pump Serial No. or Discharge</u>
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>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 Copenhaver 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:

Lot 20/21: (5 gallons X 60 sec)/4 sec = 75 gpm X 0.00223 = 0.17 cfs

Lot 16: (5 gallons X 60 sec)/8 sec = 37.5 gpm X 0.00223 = 0.08cfs

Domestic Maximum Total Capacity of System: 0.25 cfs

RECOMMEND: 0.04 cfs as permitted (for 2 homes)

E. VOLUME CALCULATIONS

1. Volume Calculations Domestic:

IDWR Standard for Domestic internal/external use = $1.2 \times 2 \text{ homes} = 2.4 \text{ af}$

RECOMMEND: 2.4 af (for 2 homes)

F. NARRATIVE/REMARKS/COMMENTS

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). 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 T's 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. Each lot has a frost free hydrant where hoses are attached with misc. size rainbird's (2 nozzles can run at the same time). The rainbird's are moved around the lots for external use (watering garden, and the area surrounding the 2 houses; also used for fire protection).

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

G. RECOMMENDATIONS**1. Recommended Amounts (Domestic 2-homes, internal/external use, as permitted).**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.040 CFS	2.40 AF
	<u>Totals:</u>	0.040 CFS	2.40 AF

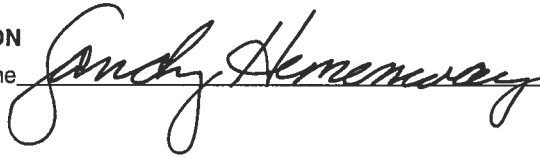
2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

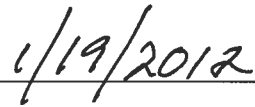
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

H. AUTHENTICATION

Field Examiner's Name



Date



TO: 77-14162, 77-14221, 77-14274, and 77-14328 *(Domestic System)* ~~q~~

FROM: Sandy Hemenway

DATE: January 19, 2012

RE: Definition of a Well, and Determination

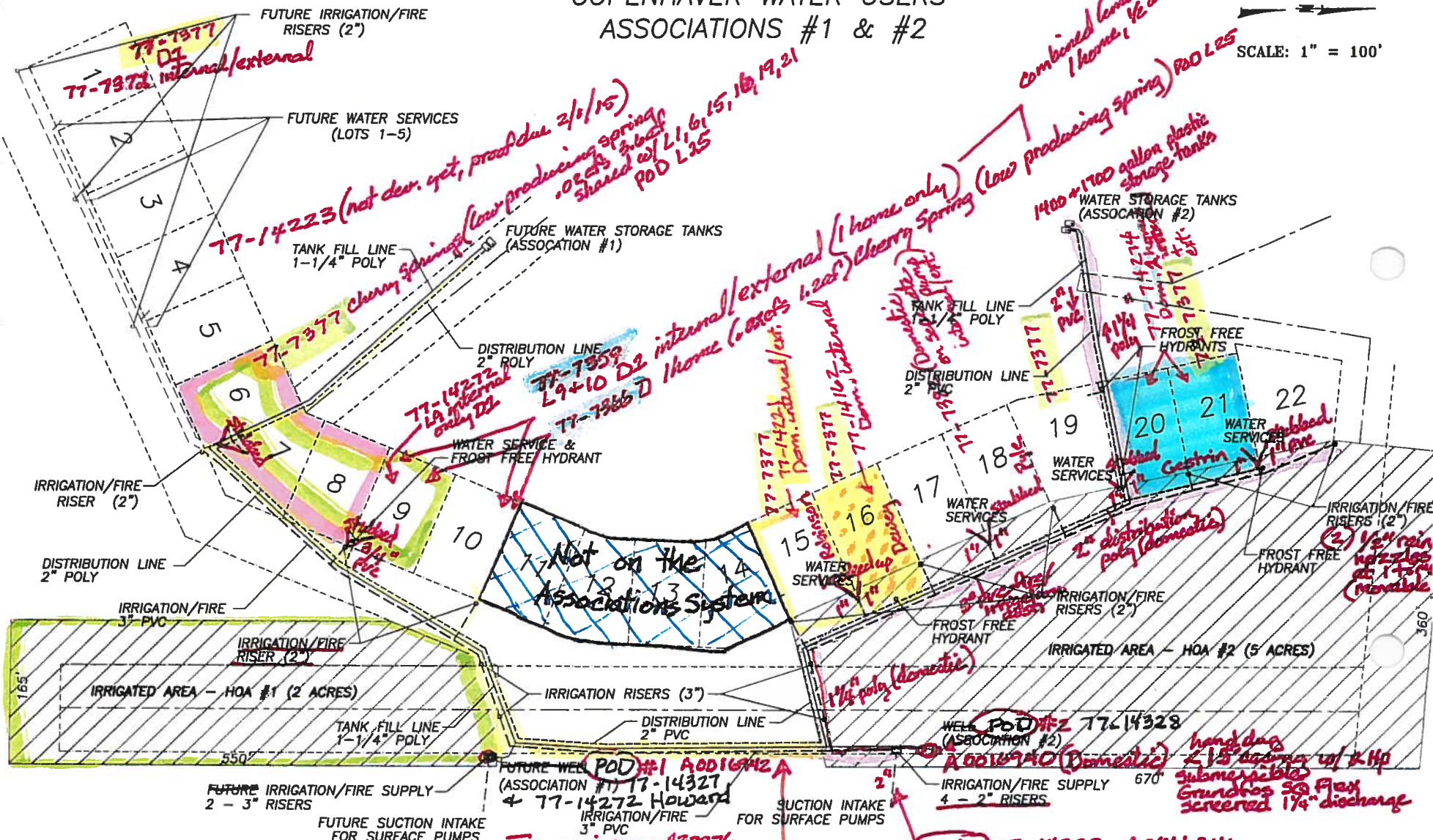
**IDAHO ADMINISTRATIVE CODE IDAPA 37.03.09 Department of Water Resources Well Construction Standards
Rules Page 8 IAC 2011**

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.

COPENHAVER WATER USERS ASSOCIATIONS #1 & #2

SCALE: 1" = 100'



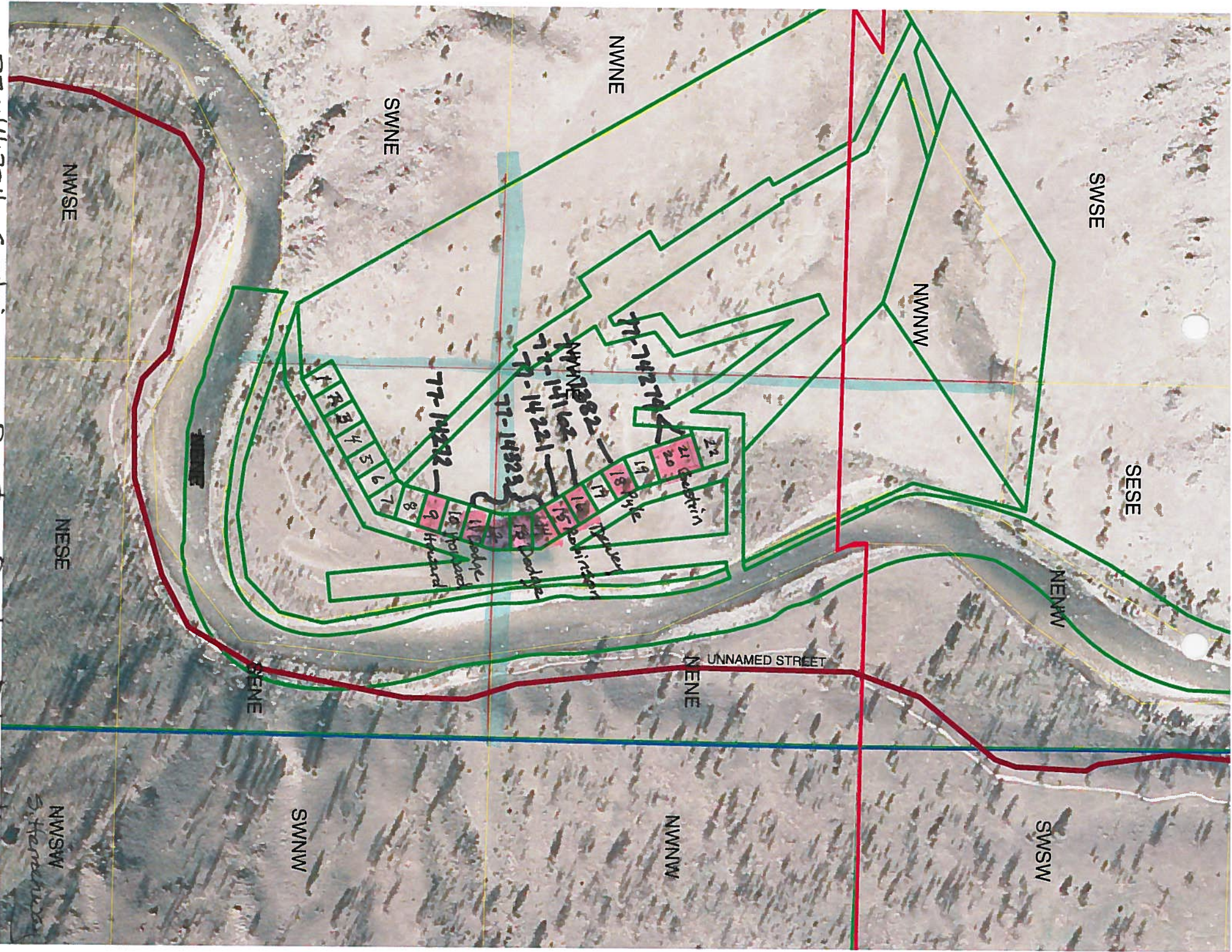
- = 77-14327 irrigation
- = 77-14327 domestic (internal only)
- = 77-14274 domestic 2-homes (internal/external)

POD #1 ADD16412
 77-14327 Howard
 Irrigation/Fire 3" PVC
 Tsunami pump A33876
 Honda 5.5 HP
 1 1/2" discharge
 screened intake

POD #2 77-14328 ADD16414

Gas pump Honda 6x160 5.5 HP
 2" discharge North Star model 10625
 max. head 137' 10" lift
 screened intake

This line is only to interconnect the systems for fire suppression emergencies (see 11/12/12 em)



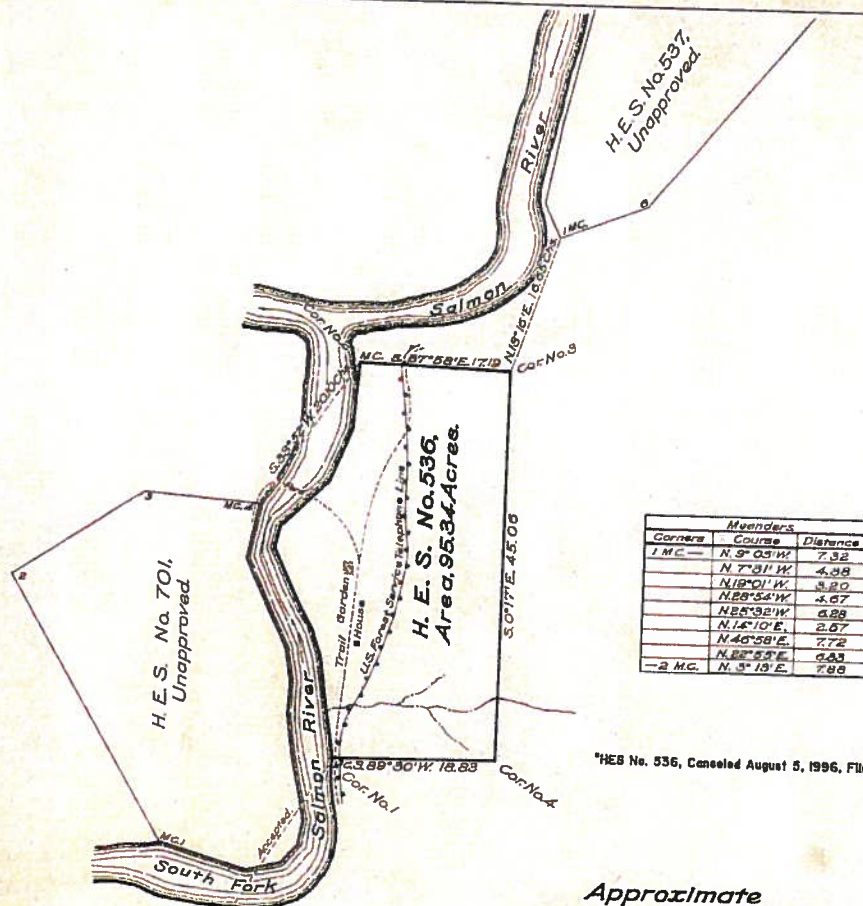
77-14274 Gestrin
Quater-Quater Notation

NW/WSW
S. Howard

77-14274

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. 23N., R. 8E.
of the
BOISE BASE AND MERIDIAN,
IDAHO.



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

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

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 Hendon
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	Begin	Completed	
H. E. S. No. 701	Marshall S. Wright	701	January 15, 1919	September 24, 1920	September 24, 1920	
H. E. S. No. 537	Marshall S. Wright	537	February 28, 1919	September 24, 1920	September 24, 1920	April 7, 1921
H. E. S. No. 536	Marshall S. Wright	536	February 28, 1919	September 24, 1920	September 24, 1920	April 13, 1921
	Sur. U.S. Forest Service					

Areas in Acres	
H. E. 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. 4-373	Dated May 11, 1910
List No. 4-1725	Dated May 1, 1915
Latitude 45° 21' 45" N.	Observations
Longitude 115° 30' 07" W.	Near House
Near Mag. Decl. 20° 40' E.	



POU
D2
internal
external
(water
area up
& around
buildings
trees &
gardens)

frost
free
hydrant
with
hose &
2 rainbird
at 1 time



Buried
1400
+ 1700
plastic
storage
tanks
located
up on
the hill
between
L19 +
L20.

09/30/2011

77-14274 Gestrin

S. Hemenway



POD

15' hand dug hole, cased with 2 Hp submersible Grundfos SQ Flex pump, 1 1/4" discharge, 1 1/4" buried poly pipe to 2" poly running south to north along east property line of lots 15-22. 10' lift.

77-14274 Gestrin

S. Hemerway