

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15465

Exam Date: 5/30/2012

1. Current Owner: RAY A MARTIN
LULA BELLE MARTIN
PO BOX 155
STITES ID 83552
(208)553-2295

And

Sam A Martin
Codi M Martin
PO BOX 285
STITES ID 83552

2. Accompanied by: Ray Martin
Phone No: (208) 553-2295
Address: PO Box 155, Stites, ID 83552 (physical address 146 Lazy J Dr. Stites, ID 83552)
Relationship to Permit Holder: current owner

3. **SOURCE****TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None (other water rights in the same QQ are other properties and owners).
2. Other water rights with the same point of diversion: None (shared well with 2 houses owned by current owner)

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

GROUND WATER SE1/4NW1/4 Sec. 20, Twp 32N, Rge 04E, B.M. IDAHO County

Method of Determination: Garmin GPS Map 76S, Bing Maps, ArcMap 2011

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE	NW	SW	SE	Totals
32N	04E	20	NE NW SW SE	NE NW SW SE	NE NW SW SE	NE NW SW SE	
				X			

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE	NW	SW	SE	Totals
32N	04E	20	NE NW SW SE	NE NW SW SE	NE NW SW SE	NE NW SW SE	
				2.0			2.0

Total Acres: 2

Method of Determination: Garmin GPS Map 76S, Bing Maps, ArcMap 2011

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 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>
D0022929	Franklin Electric	2 Hp	No. 2823018310	submersible	1 inch

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

D. FLOW MEASUREMENTS

1. Measurements:

Well Drillers Report Pump Test: 40 gpm X 0.00223 = 0.89 = 0.09 cfs (pump test was only for 1 hour)

Theoretical:

$(8.8 \times 2 \text{ Hp} \times 0.7 \text{ eff}) / [45 \text{ ft lift} + (47 \text{ psi} \times 2.31)] = 0.08 \text{ cfs}$

5-Gallon Physical Measurement:

$(5 \text{ gallon} \times 60 \text{ sec}) / 13 \text{ sec} = 23.07 \text{ gpm} \times 0.00223 = 0.05 \text{ cfs}$

Domestic internal use only for 2 homes (well upgrade fee paid, receipt N016702).

Maximum Instantaneous Requirement for Domestic Internal Use Only for 2 homes = 0.06 cfs

Irrigation 2 acres X 0.03 cfs = 0.06 cfs

RECOMMEND:

Domestic internal use only for 2 homes = 0.05 cfs (limited to the capacity of system)

Irrigation for 2 acres = 0.05 cfs (limited to the capacity of the system)

Total Diversion Rate = 0.05 cfs

E. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$$V_{D.R.} = [\text{Diversion Rate (0.05 cfs)}] \times (231 \text{ Days in Irrigation season}) \times 1.9835 = 22.9 \text{ af}$$

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

2. Volume Calculations for Domestic 2 homes, internal use only:

$$\text{IDWR Standard for internal use only} = 0.6 \text{ af} \times 2 \text{ homes} = 1.2 \text{ af}$$

RECOMMEND:

Irrigation: 6.0 af

Domestic 1.2 af

Total Annual Volume: 7.2 af

F. NARRATIVE/REMARKS/COMMENTS

8 inch casing extending 18 inches above ground level, 125 ft deep, drilled 11/7/2001 by Stuvenga Vessey Drilling No. 545; 35 ft static, pump test was 40 gpm but only taken for 1 hour. There is a Franklin Electric model 2823018310 submersible 2 Hp pump, with a 1 inch discharge to 1 inch 200 psi poly pipe going to the 2 houses, and 6 frost free hydrants located throughout the property. 1 inch hoses are attached to the hydrants with misc nozzles (2 - 3 nozzles can be run at one time). A well upgrade fee was paid (receipt N016702). Directly next to the well is a pump house with a well mate pressure tank WM25WB, and pressure gauge with the system running at 47 psi. The two homes connected on the system are both owned by the current owners, with one having the physical address of 144 Lazy J Drive, and the other 146 Lazy J Dr., Stites, Idaho 83552. Domestic use is internal use only for the 2 homes, and Irrigation is for the surrounding lawns and gardens. They have on occasion had 1 - 2 cows that drink the same water as that used for irrigation. There is no supplemental water used on this property. Even though the tax lot information shows Sam Martin as the current owner, Ray Martin lives in one of the homes (146 Lazy J Dr.).

Directions:

North Hwy 95, at Grangeville turn onto Hwy 13 and go to Stites (between mile post 22 and 23), turn west on Bridge St, then right on Lukes Gulch, left on Lazy J Dr (on the right side).

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	0.050 CFS	1.20 AF
IRRIGATION	03/15 to 11/15	0.050 CFS	6.00 AF
<u>Totals:</u>		0.050 CFS	7.20 AF

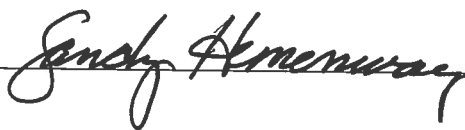
2. Recommended Amendments

☐ 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





POD

POU Irrigation

Dam. Pond
#1
Hydraulic

Dam. Pond
#2



PDU
home
#1



PDU
home
#2



POU
2 Homes

POU
Irrigates



POU
looking
south
to
north

on 10/1/15 M...

cl...

s...



POU
irrigation
south-
west
part of
property
Looking
with
to south



home
#1

POU
looking
north
to
south
from
home
#2



POD
8" casing
18"
above
ground
level

discharge
D022929
tag on
casing
Franklin
Electric
2Hp,
6hydant



well-
mate
125
WB
47psi

in 15115 station

5/20/2012

S. Hemerusan