

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-12222

Exam Date: 10/20/2011

1. Current Owner: LAIRD PROCTOR
PO BOX 279
GARDEN VALLEY ID 83622
(208)462-3143
2. Accompanied by: Laird Proctor
Phone No: Home (208) 462-3143, Cell (208) 869-6339
Address: PO Box 278, Garden Valley, ID 83622
Relationship to Permit Holder: self

3. **SOURCE**

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

SPRING SW1/4NW1/4SW1/4 Sec. 32, Twp 20N, Rge 02E, B.M. ADAMS County

Method of Determination: Garmin GPS map 76S, and 2011 ArcMap Imagery

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
20N	02E	32											X						

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
20N	02E	32											X						

Method of Determination: Garmin GPS map 76S, and 2011 Arc Map Imagery

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**ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge
Size**

Ran out of tags, so did not have one available to attach to fence surrounding spring-----gravity flow system (see Narrative)

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

D. FLOW MEASUREMENTS

1. **Measurements:** Due to the spring not actively flowing or there being an active overflow from the 60 gallon stock tank, pipe flow calculations were used in relationship to the rate of diversion that would be required for 100 head of cattle, figuring that the same amount would be what would be used by wildlife (bear, deer, elk, turkeys, numerous birds).

Table 1 Recommended Diversion for 51 – 100 head cattle: 0.03 cfs

Pipe Flow Calculation $Q = 5 \times 3.1416 \times R\text{-squared}$ $R = (\text{diameter}/12)/2$
 3-inch pipe, from spring going under the road to the tank = 0.25 cfs
 2 ½-inch overflow from the 60-gallon trough = 0.17 cfs

RECOMMEND:

Stockwater: 0.03 cfs

Wildlife: 0.03 cfs

Total Diversion Rate: 0.03 cfs

E. VOLUME CALCULATIONS

1. Stockwater:
 $Vir = (100 \text{ head} \times 12 \text{ gpd} \times 365 \text{ days})/325850 = 1.3 \text{ af}$
 $Vdr = 0.03 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 21.7 \text{ af}$
 $V = 1.3 \text{ af}$

RECOMMEND:

Stockwater: 1.3 af

Wildlife: 1.3 af (same water as stockwater)

Total Annual Diversion Volume: 1.3 af

F. NARRATIVE/REMARKS/COMMENTS

At the spring, there is buried gravel rock that acts as a collection area, which is fenced off. There is a 3 inch ABS pipe that runs from the spring, under the road, and open discharges into a 60 gallon trough with a 2 1/2 inch overflow. The overflow continues down a natural drainage ditch going a ways down the hill and then sinks. At the time of the field inspection, there was no flow from the spring or overflow that could be measured. There was water in the trough, and hoof and foot prints indicating wildlife, and stock had been in the area. A pipe 3 inch flow calculation and 2 ½ inch over-flow calculation was used to determine the capacity that could be discharged, in relationship with the amount of diversion required for 100 head cattle.

Location: North Hwy 95 past New Meadows, turn east on Circle C, then north on Campbell Rd (staying to the right for 3 splits in the road). Directly after Road No. 305 there is a drive way on the right side, go through the gate and follow it down to the house/barn.

Have conditions of permit approval been met? X Yes No Condition 029 was removed, since the flow "sinks," and is not tributary to any creek/stream. (see map attached, showing the relationship between the POD, and Martin Creek and surround creeks and ditches.)

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.030 CFS	1.30 AF
WILDLIFE	01/01 to 12/31	0.030 CFS	1.30 AF
	<u>Totals:</u>	0.030 CFS	1.30 AF

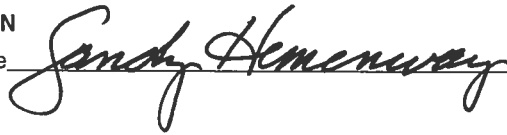
2. Recommended Amendments

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

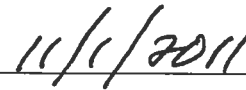
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

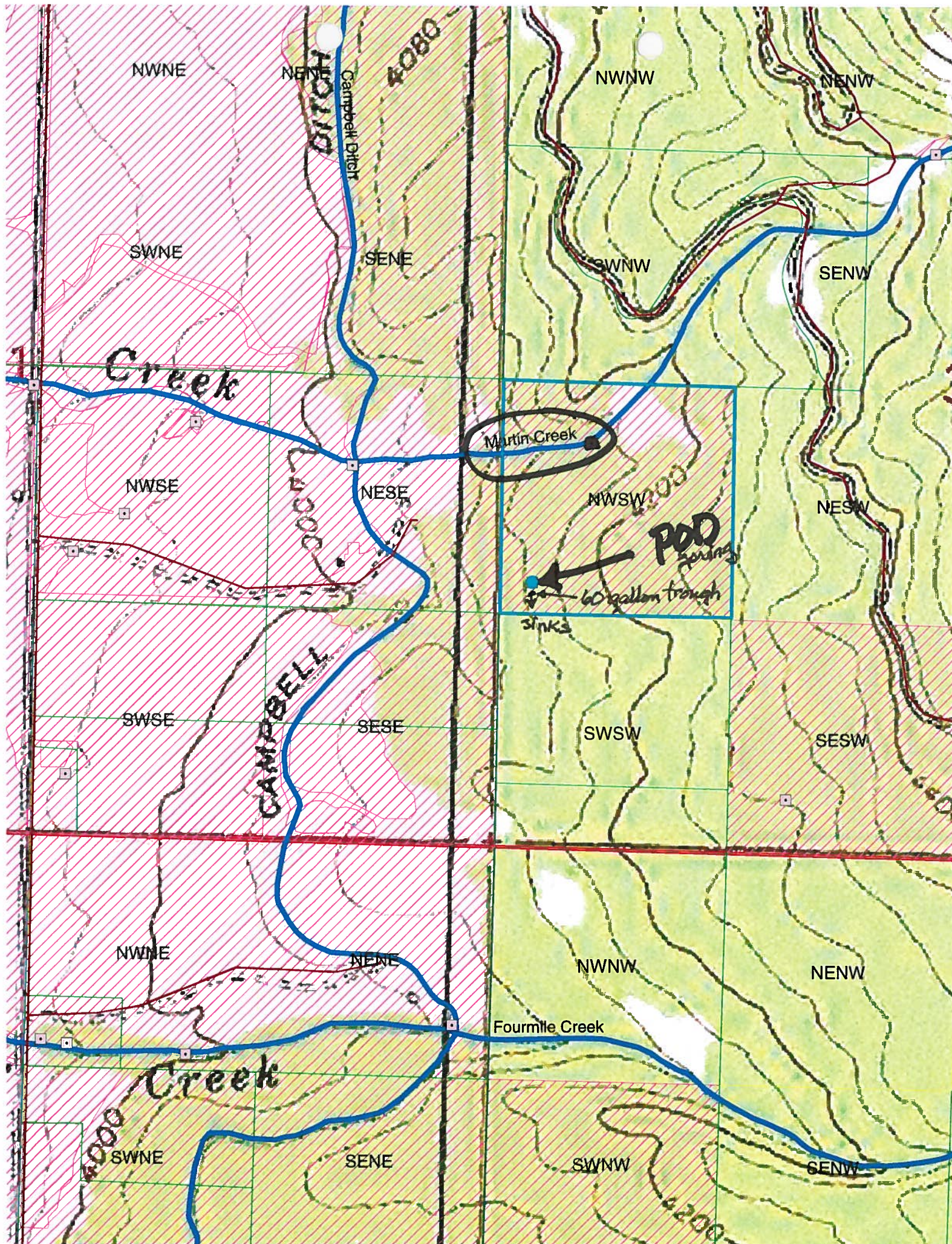
H. AUTHENTICATION

Field Examiner's Name



Date







POC
Spring
with
buried
gravel
rock a
collecti
area

POU
3" ABS
from
spring
to 60
gallon
trough
2 1/2"
overflow



60 gallon trough

POC

78-12222 Proctor

S. Hemenway