

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-12221

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: hm (208) 462-3143, cell (208)869-6339
Address: PO Box 279, Garden Valley, ID 83622
Relationship to Permit Holder: self

3. **SOURCE**

SPRING

TRIBUTARY

MARTIN CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 78-12223, 78-12222 (both are stockwater/wildlife, with different PODs)
2. Other water rights with the same point of diversion: NONE

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

SPRING NE1/4NW1/4SW1/4 Sec. 32, Twp 20N, Rge 02E, B.M. ADAMS County

SPRING NE1/4NW1/4SW1/4 Sec. 32, Twp 20N, Rge 02E, B.M. ADAMS County

Method of Determination: Garmin GPS map 76S, and ArcMap 2009 and 2011

2.

PLACE OF USE: STOCKWATER and WILDLIFE

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

PLACE OF USE: STOCKWATER STORAGE and WILDLIFE STORAGE

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

DIVERSION TO STORAGE same as WILDLIFE STORAGE

Method of Determination: Garmin GPS map 76S, ArcMap 2009 and 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</u> <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</u> <u>Size</u>
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This system is (2)-developed springs (buried rock) then gravity flow with both spring discharging into pond #1.

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

D. FLOW MEASUREMENTS

1. Measurements:

At the time of the field examination, and due to the time of the year, the springs were not actively flowing and could not be measured. There was direct evidence that they had flowed, and the ponds were still filled (although not to their maximum capacity). Mr. Proctor stated he had measured the average flow for each of the springs:

Spring #1: 4gpm X 0.00223 = 0.0092 cfs

Spring #2: 5 gpm X 0.00223 = 0.0115 cfs

Total Diversion Rate entering pond #1 = 0.02 cfs

Table 1 Recommended Diversion Rate for Stockwater: 51 – 100 head range cattle = 0.03 cfs

RECOMMEND: Allowing 0.02 cfs, the average flow that was measured by Mr. Proctor, since it is such a minimal rate of diversion. Stockwater and Wildlife 0.02 cfs (not additive), and Diversion to Storage 0.02 cfs. Total Diversion Rate = 0.02 cfs.

E. VOLUME CALCULATIONS

1. Stockwater and Wildlife (same water, not additive, per 7/18/1996 memo from Shelley Keen---see memo attached)

$$Vir = (100 \text{ head} \times 12 \text{ gpd} \times 365 \text{ days}) / 325850 = 1.34 \text{ af}$$

$$Vdr = 0.02 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 14.5 \text{ af}$$

$$V = 1.3 \text{ af}$$

2. Stockwater Storage and Wildlife Storage (same water, not additive, see 7/18/1996 memo from Shelley Keen).

$$\text{Pond \#1: } (100 \text{ ft} \times 40 \text{ ft} \times 1.5 \text{ ft}) / 43560 = 0.13 \text{ af}$$

$$\text{Pond \#2: } (400 \text{ ft} \times 150 \text{ ft} \times 1.5 \text{ ft}) / 43560 = 2.066 \text{ af}$$

Precipitation Loss Calculation (see attachment): 0.3 af

Total for both interconnected ponds (2.2 af) + precipitation Loss (0.3af) = 2.5 af

RECOMMEND: Stockwater and Wildlife	1.3 af (not additive)
Stockwater Storage and Wildlife Storage	2.5 af (not additive)
TOTAL ANNUAL VOLUME	3.8 AF

F. NARRATIVE/REMARKS/COMMENTS

POD #1 spring is developed with buried rock and then runs to a dug out area used for stockwater. At the bottom is a 4 inch pipe that is buried and piped out 10 ft down the hill to handle the overflow. The 4 inch pipe open discharges to a dirt ditch which carries the water down the hill to pond #1. Pond #1 is (100 ft X 40 ft X 1.5 ft), with a screened 4 inch overflow that discharges to Martin Creek in the spring time when there is a higher flow. At the time of the field examination, there was no active flow from the spring #1 or #2, but Mr. Proctor stated that the average flow from spring #1 was 4 gpm (0.009 cfs).

POD #2 spring is the major source for the pond. It is developed with buried rock then discharges to a dirt ditch that runs down the hill and discharges into pond #1. Mr. Proctor stated that the average flow for spring #2 was 5 gpm (0.01 cfs).

Pond #1 and Pond #2 are interconnected. Pond #2 is 400 ft X 150 ft X 1.5 ft. The ponds are used for 100 head range cattle (Mr. Proctor leases the property to a local rancher, and the cattle eat down the grass and assist with fire prevention), and also for deer, elk, bear, turkeys and numerous birds.

Directions: North on Hwy 95, turn east on Circle C (outside of New Meadows), turn north on Campbell Rd, keeping right after 3 splits in the road. At the 3rd split (road 305), keep right, then take the first drive way on the right down the hill. The spring is located on the right side prior to getting to Mr. Proctor's cabin.

Have conditions of permit approval been met? ☒ Yes ☐ No. There is a 4 inch overflow pipe off of Pond #1 that is screened.

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	0.020 CFS	1.30 AF
STOCKWATER STORAGE	01/01 to 12/31		2.50 AF
WILDLIFE	01/01 to 12/31	0.020 CFS	1.30 AF
WILDLIFE STORAGE	01/01 to 12/31		2.50 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.020 CFS	
<u>Totals:</u>		0.020 CFS	3.80 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

Judy Hernerway Date *11/30/2011*

Precipitation Loss Calculation

Date: December 1, 2011
Prepared by: Sandy Hemenway
Water Right No: 78-12221

P = Precipitation
ET= Evapotransporation
 P_d = Precipitation deficit
 P_d = P- ET

P_d

Found at: <http://www.kimberly.uidaho.edu/ETIdaho/>

P_d = convert to AFA:

(mm/yr)	/	(convert to feet)	x	# acres	=
184		304.8		0.49	
(From ET Idaho)					

P_d = 0.3 AFA

acres limited to; in the conditions

* Use the Precipitation Deficit for 'P' value

MEMORANDUM

DATE: July 18, 1996

TO: Permits Section

FROM: Shelley Keen

SWK

SUBJECT: Wildlife Volume Recommendations

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Per discussion today between Jim Johnson, Cindy Zimmerman, Sharla Curtis, and myself, wildlife volume recommendations for licensing shall be recommended as equal but not additive to the recommended stockwater volume unless the wildlife volume has been specifically quantified. In the event stockwater is not identified or recommended as a use, actual wildlife volume needs to be quantified and verified.





POD

#1
Spring
that
flows
down
to dug
out
area for
stockwater
usually
runs
at
4gpm
(per
owner)
At time
of exam
no
visible
measured
flow.

Stockwater
100 head
cattle.

No
trough,
but a
dug out
area
w/ pipe
that
dischar-
ges to (1000)
ditch
that
runs to
pond #



Pond #1 100' x 40' x 1 1/2' deep, usually full in the spring overflow during the spring discharges to Martin Creek.

Stockwater: 100 head range cattle

Stockwater Storage (pond #1 + pond #2 interconnected)

Wildlife (deer, elk, numerous birds, bear)

Wildlife Storage (pond #1 + pond #2 interconnected)

Diversion to Storage $\begin{matrix} \text{POD \#1 spring} = 4 \text{ gpm} \\ \text{POD \#2 spring} = 5 \text{ gpm} \end{matrix} \left. \vphantom{\begin{matrix} \text{POD \#1 spring} \\ \text{POD \#2 spring} \end{matrix}} \right\} \times .00223 = 0.02 \text{ cfs}$



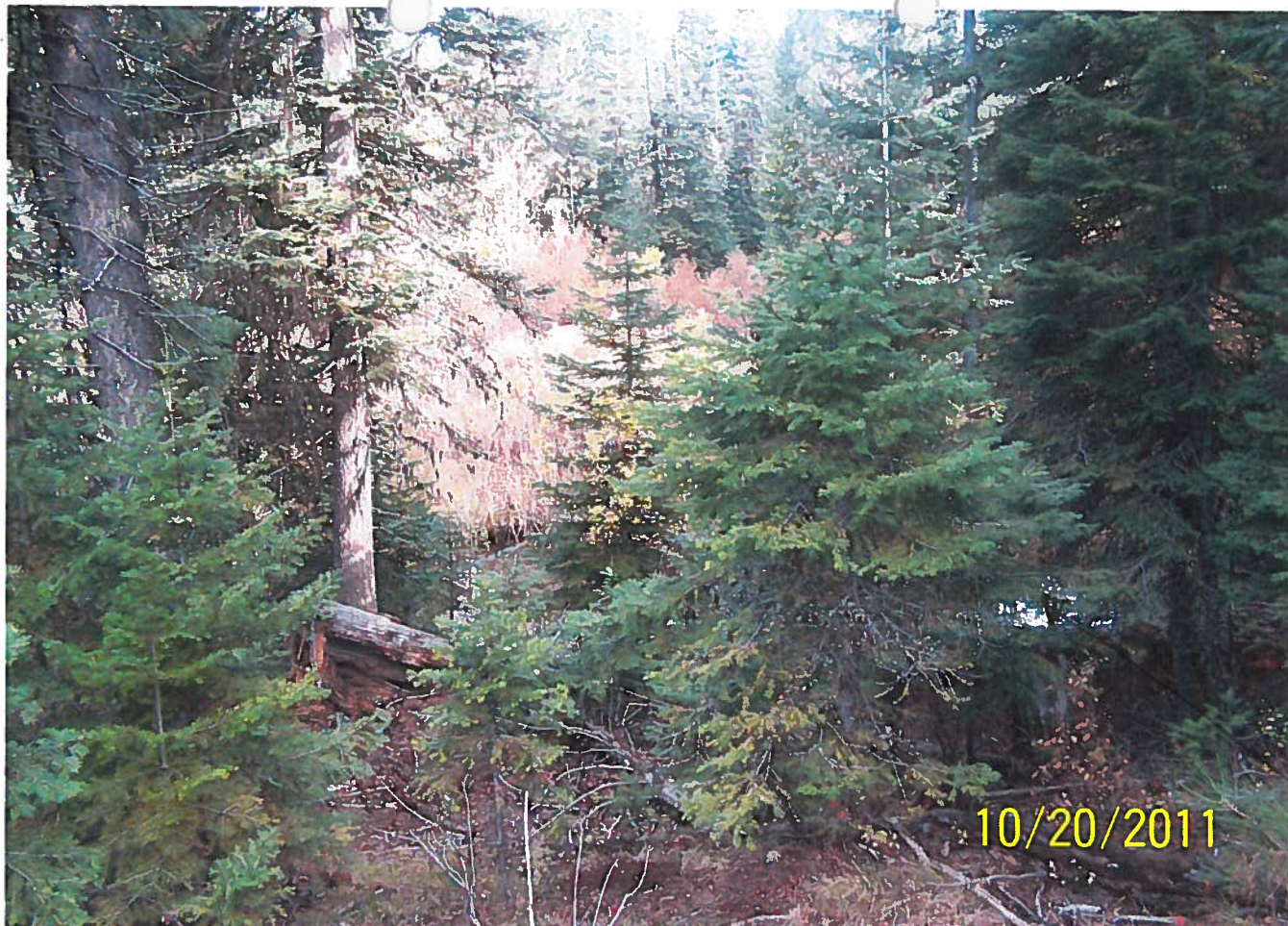
Pond
#2
spring



→ Ditch
that goes
to
pond #2

78-12221 Proctor

S. Hemerway



Pond #1
or
Pond #2
inter-
connects

10/20/2011

#2
Pond



400' x
150' x
1.5'
average
depth

10/20/2011

78-12221 Proctor

S. Hemenway