

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-12223

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 279, 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: 78-12222 (stockwater and wildlife)
2. Other water rights with the same point of diversion: None

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

SPRING SE1/4NW1/4SW1/4 Sec. 32, Twp 20N, Rge 02E, B.M. ADAMS County

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

2.

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				
			<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>	<u>Totals</u>
20N	02E	32										X							

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				
			<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>	<u>Totals</u>
20N	02E	32										X							

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

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>
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No ID Tag, since I ran out of them (system is a gravity flow system, see Narrative)

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

D. FLOW MEASUREMENTS

1. Measurements:

At the time of the field exam, there was no active flow from the spring or through the 4 inch overflow, so no physical measurement could be taken. For this reason the following calculations were considered prior to making the recommendation:

- A) **Mr. Proctor stated at the time of the field inspection that the normal flow is 2 – 3 gpm:**
 $2 \text{ gpm} \times 0.00223 = .004 \text{ cfs}$; $3 \text{ gpm} \times 0.00223 = 0.0066 \text{ cfs}$, therefore consider 0.01 cfs
- B) No Domestic Beneficial Use found at the time of the field exam (barn/house are hooked up to private domestic well).
- C) Stockwater: Table 1 Recommended Diversion Rate for 51 – 100 head cattle = 0.03 cfs
- D) Wildlife (deer, elk, bear, turkeys, numerous birds). Whatever rate recommended for stockwater should be recommended for wildlife, since it's the same water.
- E) Pipe Flow Calculation $Q=5 \times 3.1416 \times R\text{-squared}$ $R = (\text{diameter}/12)/2$
 4 inch overflow pipe = 0.44 cfs

RECOMMEND:
 Stockwater: 0.01 cfs
 Wildlife: 0.01 cfs
 Total Diversion Rate: 0.01 cfs

E. VOLUME CALCULATIONS

1. Stockwater:
 $\text{Vir} = (100 \text{ head} \times 12 \text{ gpd} \times 365 \text{ days})/325850 = 1.3 \text{ af}$
 $\text{Vdr} = 0.01 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 7.2 \text{ af}$
 $V = 1.3 \text{ af}$
 Wildlife: same water as stockwater

RECOMMEND:
 Stockwater: 1.3 af
 Wildlife: 1.3 af
 Total Annual Volume: 1.3 af

F. NARRATIVE/REMARKS/COMMENTS

At the spring, buried rock that acts as a collection area, with a small ditch that open discharges into the inlet of a 20 ft X 30 ft X 2 ft deep pond (instead of a trough). In the winter time the pond increases in size to 50 ft X 50 ft X 5 ft deep. It is a gravity flow system, with a 4 inch overflow pipe at the south end of the pond that runs 40 ft, then open discharges and gravity flows to a field before it sinks. Martin Creek is located to the north, and this spring is not tributary to Martin Creek. No domestic use was found from this spring, since a domestic well services the barn/house. Stockwater is for 100 head cattle that are moved around the different areas on Mr. Proctor's property (he leases out the property to a rancher for grazing). Wildlife includes deer, bear, elk, turkeys, and numerous birds. At the time of the field exam, there was no measurable flow from the spring and no overflow to enable a physical measurement.

Directions: North on Hwy 95 thru New Meadows, then turn east on Circle C, at the "T" turn left on Campbell Rd, and continue staying to the right for 3 splits in the road. Directly after the split at Road #305, take the first drive way to the right and continue down to the house/barn.

Have conditions of permit approval been met? ☒ Yes ☐ No Condition 029 was removed, due to the tributary being "sinks" instead of Martin Creek, therefore no screening would be required. X01 was removed, due to no Domestic beneficial use being found from the spring (they are hooked up to a private domestic well).

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
WILDLIFE	01/01 to 12/31	0.010 CFS	1.30 AF
STOCKWATER	01/01 to 12/31	0.010 CFS	1.30 AF
<u>Totals:</u>		0.010 CFS	1.30 AF

2. Recommended Amendments

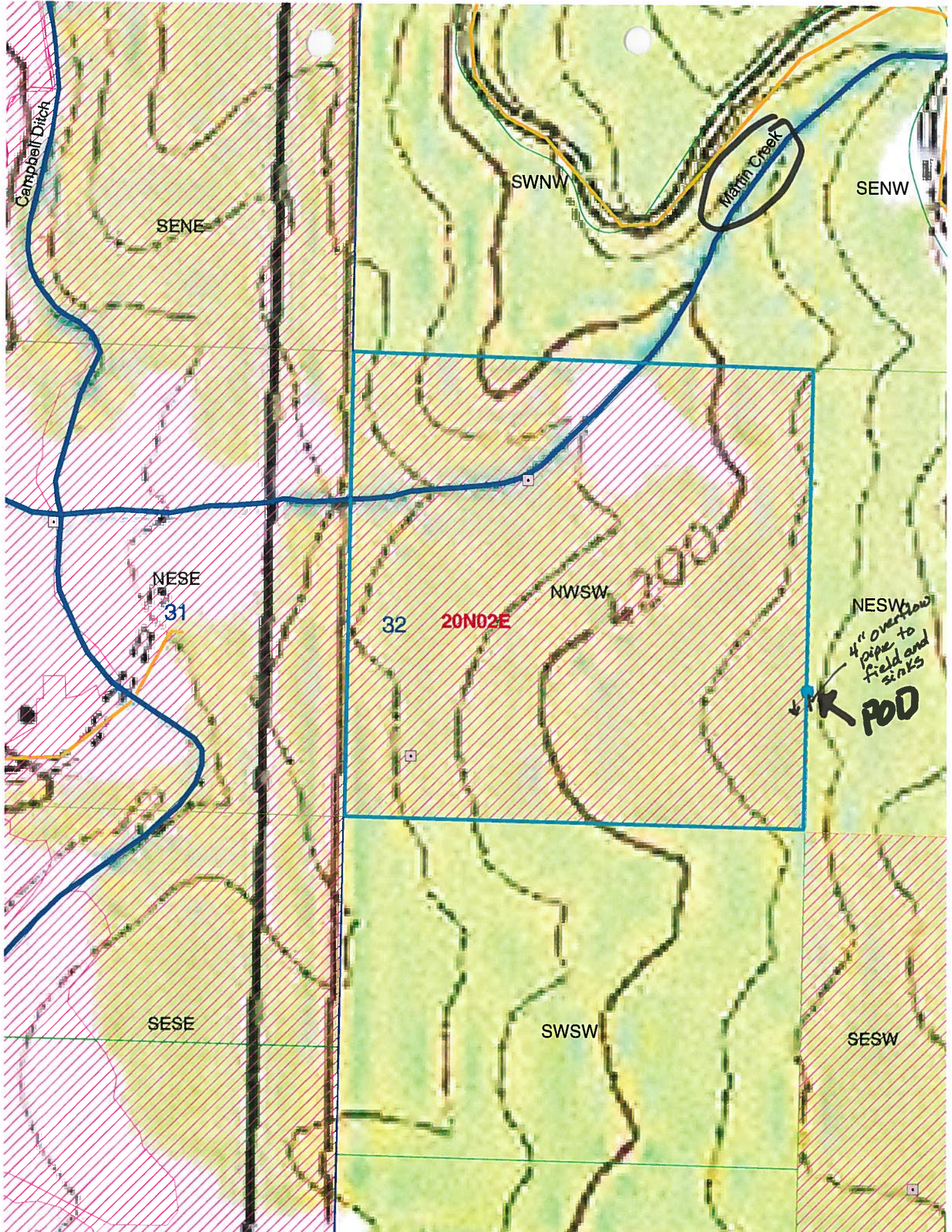
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

H. AUTHENTICATION

Field Examiner's Name

Judy Hemminger Date 11/2/2011



Campbell Ditch

Martin Creek

SENE

SWNW

SENW

NESE

31

32

20N02E

NWSW

NESW
4" overflow
pipe to
field and
sinks
POD

SESE

SWSW

SESW

PDD
 wet
 sand,
 rocks
 at
 spring
 area
 itself



PDD
 4"
 over
 -no trou
 just a
 pond
 that
 some-
 times
 gets to
 the
 size of
 50'x50'
 x 2' deep
 pond,
 5' deep
 in the
 winter



40' from
 pond
 there is
 4" open
 discharge
 gravity
 flows
 to
 field
 & sinks