

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9252

Exam Date: 4/24/2007

1. Current Owner: BRIAN T FARLEY
PO BOX 1836
HAYDEN LAKE ID 83835-1836
(208)772-1822

2. Accompanied by: BRIAN T FARLEY
Phone No: (208) 772-1822
Address: PO BOX 1836, HAYDEN LAKE ID 83835-1836
Relationship to Permit Holder: Same

3. SOURCE

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

- Other water rights with the same place of use: (Stockwater portion of 95-9252 overlaps POU for 95-8966 & 95-8966 Stockwater)
- Other water rights with the same point of diversion: NONE

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

SPRING SE1/4NE1/4SW1/4 Sec. 9, Twp 52N, Rge 03W, B.M., KOOTENAI County

Method of Determination:

Garmin GPS Receiver, USGS 7.5 Minute Hayden Lake Quadrangle (Topographic) (E55)

2.

PLACE OF USE:

DOMESTIC

Twp	Rge	Sec	NE	NW	SW	SE	Totals
52N	03W	9	NE	NW	SW	SE	
						X	

PLACE OF USE:

STOCKWATER

Twp	Rge	Sec	NE	NW	SW	SE	Totals
52N	03W	9	NE	NW	SW	SE	
						X	

Method of Determination:

- ☒ 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

95-9252

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>
—	—	—	—	—	—
—	Unknown	.75	Unknown	Unknown	Unknown

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
—	—	—	—	—	—	—
—	—	—	—	—	—	—

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

**PUMP
EQUATIONS
WATER RIGHT**

	<u>No.</u>	95-9252				
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI	
Q						
=	HP*8.8*Eff/H	0.75	115.5	0.7	0	25
Q						
=	0.040 cfs					

Vertical elevation change (50 feet) multiplied by 2.31 to get H for equation above.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Stockwater ϕ -10 head
(per App. Processing Memo
#3)

Domestic (1 home)
garden

95-9252

<u>cfs</u>	<u>AF/yr.</u>
.02	.2
~~1.02~~	1.2
~~1.02~~	1.4

G. NARRATIVE/REMARKS/COMMENTS

Field exam completed August 2007 with Field examiner accompanied by owner.

Gravity Fed water system has pump in home for pressure tank. System begins with a spring in a forested area on a South facing slope. Exact location of spring could not be determined because of heavy animal traffic (deer, elk, etc.) in area. GPS coordinates were not available due to loss of signal due to heavy overhead cover.

A perforated pipe buried in the spring collects water that moves downhill to the South approximately 75 feet to a collection box. The box is located at GPS Coordinates LAT 47 51.888, LONG 116 42.763. Water continues south from the collection box in a two inch diameter line down a ridge approximately 350 feet before turning west toward a Spigot/Riser. The water travels approximately 150 feet top the West after making the turn before reaching the Spigot/Riser. A hose is connected at the Spigot riser to provide stockwater to buckets/water tanks.

The water line continues approximately another 75 feet before reaching a pressure tank in the home. A 3/4 horse pump is used with the pressure tank. A visual inspection of the pressure tank and water system in the home was not made due to the absence of the tenant.

The spring (Point of Diversion) and collection box were found in a different quarter quarter than listed on the permit.

While theoretical calculations indicates the system can generate .04 cfs the Permit and Proof indicate only .02 cfs.

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

H. 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	0.020 CFS	1.20 AF
STOCKWATER	01/01 to 12/31	0.020 CFS	0.20 AF
<u>Tota/s:</u>		0.020 CFS	1.40 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

I. AUTHENTICATION

Field Examiner's Name

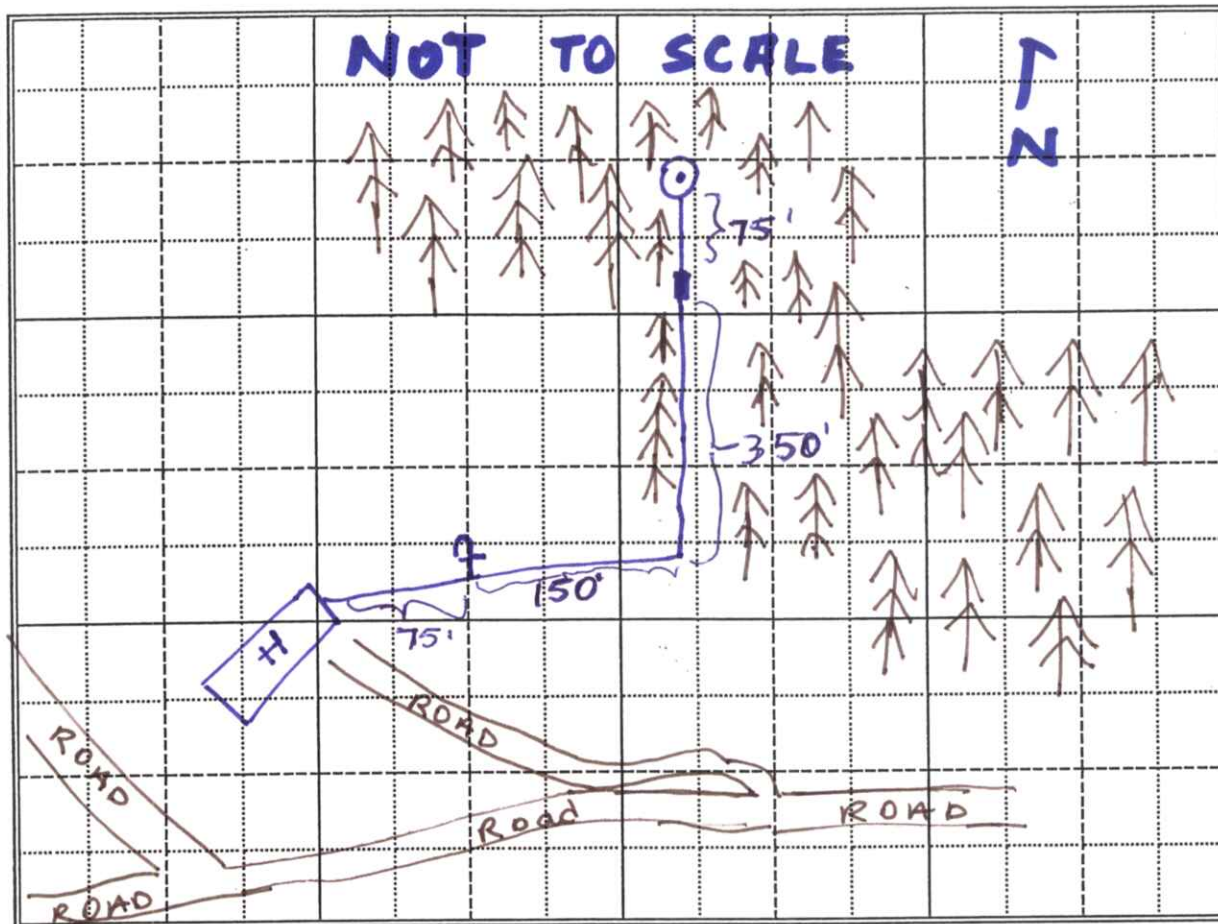
Reviewer

Date

Date

95-9252

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

⊙ Spring

■ Collection Box

⌢ Spigot / Riser

— Water Line

⌢ House (Domestic Point of Use)

↑ Trees / Brush

== Road

95-9252

NW0000206



95-9252

이

95-9252



0.1 0 0.1 0.2 Miles

- Kootenai taxlots
- GCDB52N03W GCDB
- Right POD
- Administrative BasinsAdminbas.shp



95-9252



95-9252 White Water line
near bales.JPG



95-9252 End View Collect
Box.JPG



95-9252 Home POU.JPG



95-9252 POD.JPG



95-9252 Removed lid at
Collect box.JPG



95-9252 Riser above home
for stock.JPG



95-9252 Stock 1.JPG

95-9252



92-9252 POD



95-9252 Removed lid at Collection Box

95-9252

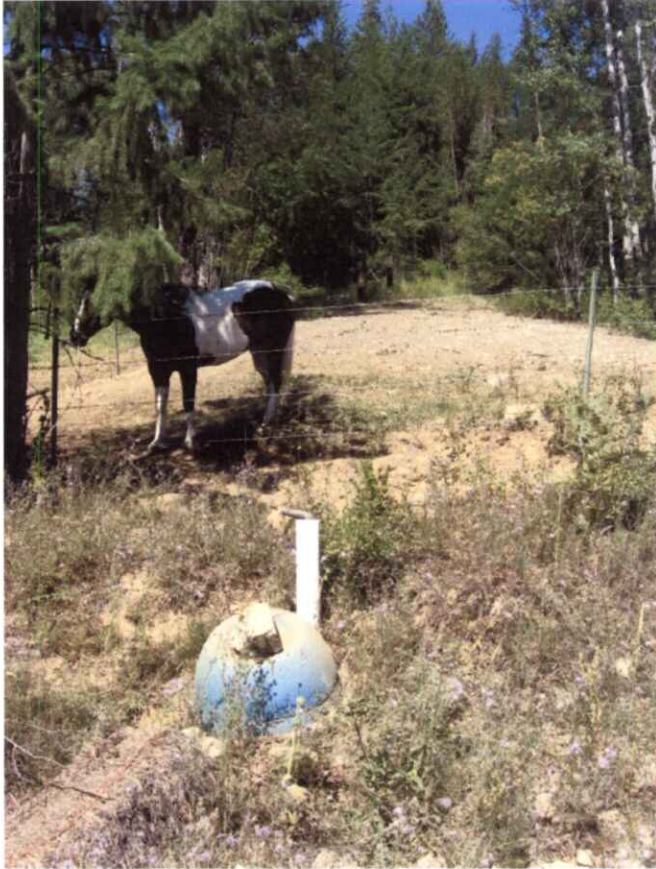


95-9252 End View Collect Box



95-9252 Riser above home for stock

95 - 9252



95-9252 Stock 1



95-9252 White Water line near bales

95-9252



95-9252 Home POU

95-9252