

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9195

Exam Date: 7/30/2007

1. Current Owner: DIAGONAL ROAD WATER DISTRICT 1
6192 W DIAGONAL RD
RATHDRUM ID 83858
(208)687-5132
2. Accompanied by: DEAN RENNINGER
Phone No: (208) 661-9521
Address: 5582 DIAGONAL ROAD
Relationship to Permit Holder: USER

3. SOURCE TRIBUTARY
GROUND WATER

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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE1/4SE1/4 Sec. 20, Twp 52N, Rge 04W, B.M.
KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N	04W	20													X				
52N	04W	21								X	X								

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N	04W	20													1.0				1.0
52N	04W	21							1.0	1.0									2.0

Total Acres: 3

Method of Determination:

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>
U/K	U/K	7.5	U/K	U/K	U/K

*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 No.			95-9195		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \times 8.8 \times \text{Eff}}{H}$	7.5	269.0816327	0.7	165	45
Q = 0.172 cfs 77.2 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3 \times 3 = 9 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .09 \times 246 \times 1.9835 = 43.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 9 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$5 \times .6 = 3 \text{ AF}$$

$$+ 9 \text{ AF}$$

$$\hline 12 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUND WATER FOR DOMESTIC AND IRRIGATION USE. THE DOMESTIC USE IS FOR 5 HOMES. THE IRRIGATION IS FOR 3 ACRES OF IRRIGATION. THE PUMP IN THE WELL IS A 7.5 HP PUMP AND THE SYSTEM RUNS AT 45 PSI.

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	0.110 CFS	3.00 AF
IRRIGATION	03/15 to 11/15	0.090 CFS	9.00 AF
<u>Totals:</u>		0.130 CFS	12.00 AF

2. Recommended Amendments

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

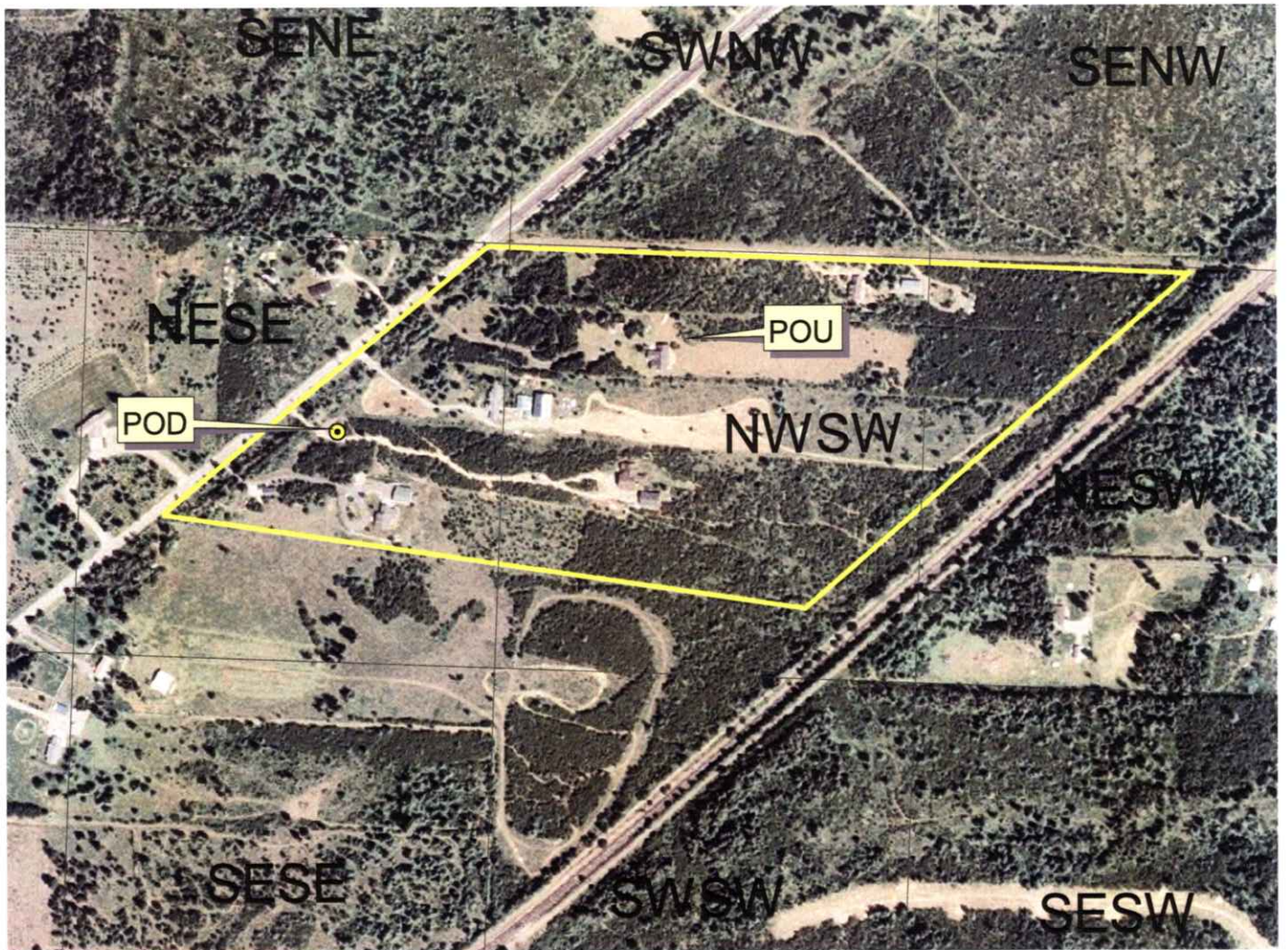
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name [Signature] Date 9-4-07

Reviewer [Signature] Date 9/5/7

95-9195



-  GCDB52N04W GCDB
-  Right POD
-  Pou.shp
-  Pod.shp
-  Administrative BasinsAdminbas.shp





SYSTEM



SYSTEM PRESSURE



WELL



WELL AND PUMP HOUSE

95-9195



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