

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-7626B

Exam Date: 11/9/07

1. Current Owner: HDI INC
3892 LAPWAI RD
LEWISTON ID 83501
(208)746-9185

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

This Beneficial Field Use Field Report was completed by Michele Edl in conjunction with a review for reinstating this lapsed permit.

3. SOURCETRIBUTARY

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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

NW1/4SE1/4

Sec. 2, Twp 35N, Rge 05W, B.M.

NEZ PERCE County

Method of Determination: permit holder identified the well location on an aerial photograph.

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	
35N	05W	2			X											X			

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
35N	05W	2			X											X			

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<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>	
35N	05W	2			3.5				.1							6.4			10.0

Total Acres: 10

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>
Drilling permit ID 85-96-N-1					well capacity is 0.188 cfs

*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:

SEE NARRATIVE

E. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (10) \times (4) = 40$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (.19) \times (294) \times 1.9835 = 109.63$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 40$$

2. Volume Calculations for Other Uses:

for domestic use internal only: $(0.6) \times 16 \text{ stub-ins} = 9.6 \text{ AF}$

for fire protection

from the max instantaneous curve for domestic use, the flowrate for 16 residential stub-in is approximately 0.18 cfs.

G. NARRATIVE/REMARKS/COMMENTS

I reviewed the CAD drawings of the water distribution system and the 2004 aerial photograph that were submitted with the request to reinstate this permit. Although those items were sufficient information to establish domestic use, they didn't sufficiently establish irrigation use.

I requested additional information from the permit holder and in response I received information submittals from Mark VonLindern, engineering consultant for the permit holder.

The well capacity is the limiting factor in the system. The pumps and storage tanks were designed to accommodate additional future users.

Not all 16 lots have been sold and built upon. I used the stub-in rule to arrive at 16 domestic users.

Each new home owner installs an in-ground sprinkler system which draws from the common water supply system. I created irrigation shapes based on the best of 2004 and 2006 aerial photography to arrive at 10 irrigated acres. Jeff Peppersack gave me ok to give irrigation acreage on the vacant lots with stub-ins.

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	0.190 CFS	9.6
FIRE PROTECTION	01/01 to 12/31	0.190 CFS	
IRRIGATION	03/15 to 11/15	0.190 CFS	40.0
<u>Totals:</u>		0.190 CFS	49.60 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 Michael Bell Date 11/19/07

Reviewer _____ Date _____