

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-16299

Exam Date: 4/11/2011

1. Current Owner: VALLEY SCHOOL DISTRICT #262
882 VALLEY RD S
HAZELTON ID 83335
(208)829-5333
 2. Accompanied by: None
 3. **SOURCE**
GROUND WATER
- B. OVERLAP REVIEW**
1. Other water rights with the same place of use: 36-15190
 2. Other water rights with the same point of diversion: 36-15190

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

GROUND WATER	L7 NW1/4SW1/4SW1/4	Sec. 31, Twp 09S, Rge 20E, B.M.
JEROME County		
GROUND WATER	L7 NW1/4SW1/4SW1/4	Sec. 31, Twp 09S, Rge 20E, B.M.
JEROME County		

Method of Determination: Updated to GPS points from the spatial database that was collected by IDWR staff in 2003.

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	
09S	20E	31										X	X						
												L 6	L 7						

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	
09S	20E	31										X	X						
												L 6	L 7						

Method of Determination: Aerial photography and taxlot information.

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>Site tag #</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Motor Make</u>	<u>Pump Serial No. or Discharge Size</u>
<u>Irrigation Well</u>	<u>D0023735</u>	<u>7.5</u>	<u> </u>	<u>submersible</u>	<u>2 inch pipe</u>
<u>Big Well</u>	<u>A0011886</u>	<u>50</u>	<u> </u>	<u>submersible</u>	<u> </u>

*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>Calib. Date</u>
<u>Portaflow</u>	<u>Sonic</u>	<u>FUJI</u>	<u> </u>	<u>240332</u>	<u>8/29/2007</u>
<u>Portaflow</u>	<u>Sonic</u>	<u>FUJI</u>	<u> </u>	<u>240335</u>	<u>10/05/2004</u>

2. Measurements:

A ten minute average flow measurement of 34 gpm (0.08 cfs) was recorded on 8/29/2007 for the Old Well (D0023735).

Cindy Yenter recorded a ten minute average of 647 gpm (1.44 cfs) for the New Well on 10/5/2004. (see attached)

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

$$\text{HP Equation: } \frac{50 \times .7 \times 8.8}{255 + (62 \times 2.31)} = \frac{308}{398.22} = 0.77 \text{ cfs or } 347 \text{ gpm}$$

$$\text{Polysonic flow meter: Old Well } 37 \text{ gpm} \quad 34 \text{ gpm} + 647 \text{ gpm} = 681 \text{ gpm or } 1.52 \text{ cfs}$$

$$\text{New Well } 647 \text{ gpm}$$

The recorded flow measurements are the controlling factors. Recommended rate is 1.52 minus the 0.15 cfs domestic component from overlapping water right 36-15190. **1.52 cfs – 0.15 cfs = 1.37 cfs**

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

Irrigation (0.2 acres) associated with the domestic use is covered by overlapping water right 36-15109. Recommend the irrigation conditions on the permit to be dropped.

3. Volume Calculations for Other Uses:

Domestic Use- $\frac{825 \text{ students/faculty} \times 25 \text{ gpd} \times 180 \text{ school days}}{325,850 \text{ gallons/ AF}} = 11.4 \text{ AFA} - 2.8 \text{ AF} = 8.6 \text{ AF}$

Fire Protection- None

Domestic volume is based on the IDWR standard of 25 gpd per student for day schools with cafeteria, gym and showers **minus** the 2.8 AF from overlapping water right 36-15190. Recommended volume is **8.6 AF**.

G. NARRATIVE/REMARKS/COMMENTS

Permit 36-16299 in the name of Valley School District 262 is for domestic and fire protection uses associated with the school. The system consists of two wells (A0011886 and D0023735) and a 10,000 gallon storage tank.

This was an in-house field exam using measurements recorded in WMIS and conversations with the principal and grounds keeper on 4/11/2011. (see notes) Two ten minute average flow measurements from both wells were used to calculate rate. Recommended rate is the combined average rates from both wells of 1.52 cfs **minus** the 0.15 cfs domestic component from overlapping water right 36-15190. Recommended rate is **1.37 cfs**. $1.52 \text{ cfs} - 0.15 \text{ cfs} = 1.37 \text{ cfs}$

Proof was filed in 2004 at which time the school was servicing approximately 745 students and 80 faculty members. IDWR standard of 25 gpd per student for day schools with cafeteria, gym and showers was used to calculate volume **minus** the 2.8 AF from overlap 36-15190. Recommended volume is **8.6 AF**. $11.4 \text{ AFA} - 2.8 \text{ AF} = 8.6 \text{ AF}$

In conclusion, it is recommended that the two irrigation conditions for the domestic component of the permit be dropped from the license. Overlapping water right 36-15190 covers the same 0.2 acre of lawn.

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	1.370 CFS	8.6 AF
FIRE PROTECTION	01/01 to 12/31	1.520 CFS	
<u>Totals:</u>		1.520 CFS	8.6 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

Ram Reeder

Date

4/25/11

Reviewer

AKS/Martin

Date

4/25/11