

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8486

Exam Date: 5/23/2012

1. Current Owner: ELVERA L RICHAN
CLYDE L. RICHAN
230 WEST SIDE DR
RUPERT ID 83350
(208)436-9927

2. Accompanied by: Corey Skinner
Relationship to Permit Holder: IDWR staff

3. **SOURCE**

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

SE1/4SW1/4SE1/4

Sec. 28, Twp 09S, Rge 23E, B.M.

MINIDOKA County

Method of Determination: GPS point taken by staff 5/23/2012.

2.

PLACE OF USE: COMMERCIAL

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	23E	28															X		

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	23E	28															X		

Method of Determination: 2012 aerial photography.

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
 X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required).
 _____ Aerial Photo Attached (required for irrigation of 10+ acres).

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>
	Grundfos	1 HP		JPF 2-A	2 inch

*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>
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E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method:

Theoretical yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

Where: Hp = 1 Hp

Eff = 70% (assumed)

H = elevation distance(22.0 ft. proof of beneficial use) + 2.31 x operating pressure 50 PSI

H = 22.0 feet + (2.31 x 50 psi) = 137.5

$$Q = \frac{8.8 \times (1.0) \times (0.70)}{137.5}$$

Q= 0.045 cfs Rate exceeds permitted amount of 0.03 cfs, therefore **recommend permitted rate of 0.03 cfs****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses:

Commercial use:

6 employees

Open 6 days a week

6 employees x 50 gpd x 312 days= 93,600 = 0.3 AF

325,850 g/af

Domestic Use:

1 residence (loft above shop)

IDWR standard 0.6 AF for in-house use and 0.6 AF for ½ acre of irrigation= **1.2AF****Reccomended combined volume of 1.5 AF for commercial and domestic use.**

G. NARRATIVE/REMARKS/COMMENTS

Application for permit 36-8486 was filed on September 19, 1989 for the diversion of up 0.03 cfs of groundwater for domestic and commercial uses associated with a shop and residence. Permit 36-8486 was issued on April 27, 1990 and Proof of Beneficial Use was filed on April 4, 1991.

The system consists of one sand point well and a 1 HP pump.

Theoretical yield is slightly higher (0.04 cfs) than the combined permitted amount of 0.03 cfs. **Recommended 0.02 cfs for domestic and 0.03 cfs for commercial use as permitted.**

Commercial volume is based on 6 employees, working 6 days a week at time proof was filed. **Recommended volume for commercial use is 0.3 AF.** (see above calculations)

Domestic volume based on IDWR standards for in-house use and ½ acre of irrigation. **Recommended volume for domestic use is 1.2 AF.**

Note, Cindy Yenter, Watermaster of Water District 130, requested that the measuring device condition and Water District 130 flag be removed from the license for non jurisdictional purposes.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
COMMERCIAL	01/01 to 12/31	0.030 CFS	0.30 AF
DOMESTIC	01/01 to 12/31	0.020 CFS	1.20 AF
<u>Totals:</u>		0.030 CFS	1.50 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

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

I. AUTHENTICATION

Field Examiner's Name Sana Reeder Date 5/30/12
 Reviewer [Signature] Date 5/30/2012

Domestic use

Commercial use

POD

HWY 25



5/23/12

Pump - Grundfos

JPF 2-A

1 HP

22' Sandpt.

$$\frac{1 \times .7 \times 8.8}{22 + (50 \times 2.31)} = \frac{6.16}{137.5} = 0.0448 \text{ cfs}$$

Commercial

Shop

Bathroom

6 employees @ 50 gpd

6 days @ week 312 days

$$6 \times 50 \times 312 = 93,600 / 325,850 = 0.287 \text{ AF}$$

0.3 AF

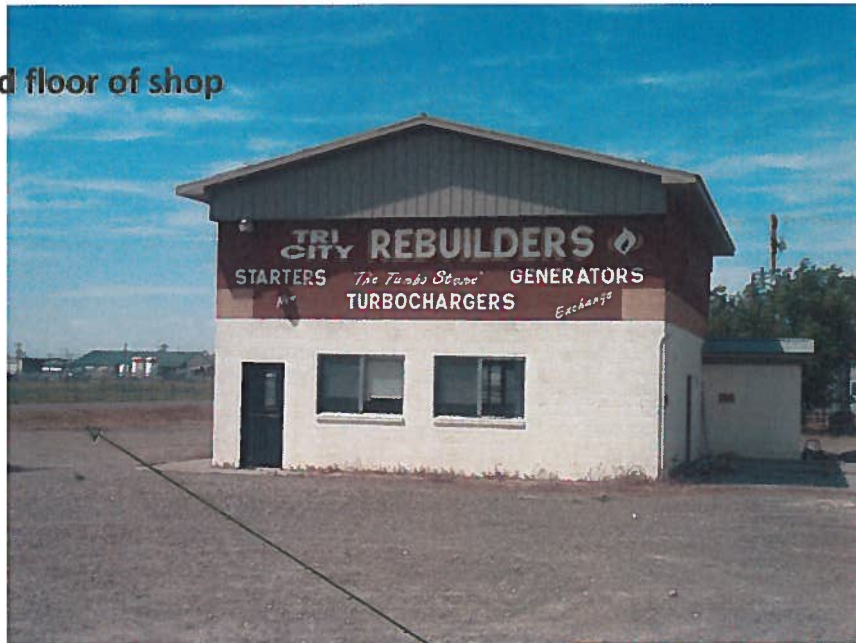
domestic

1 residence (Loft of shop)

$$\begin{array}{l} \text{IDWR Standard } 0.6 \text{ in house} \\ \text{House w/sm. yard } 0.6 \text{ irrigation} \end{array} = 1.2 \text{ AF}$$

Riverbridge Realty (For Sale) 818-1751

Apartment Loft on second floor of shop



Landscaping

Well head and 1 HP Pump

