

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10018

Exam Date: 10/4/2013

1. Current Owner: LAUREL R TWETE
14386 E TWETE RD
ATHOL ID 83801
(208) 683-4867

Or

KENT D TWETE
14386 E TWETE RD
ATHOL ID 83801
(208) 683-4867

2. Accompanied by: *Rodney A Twete (Father)*
Phone No:
Address:
Relationship to Permit Holder:

3. **SOURCE**

BARKER CREEK

TRIBUTARY

SINKS

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:**

BARKER CREEK
KOOTENAI County

SE1/4SE1/4

Sec. 17, Twp 53N, Rge 02W, B.M.

Method of Determination:

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
53N	02W	17	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
53N	02W	17	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	3.0

Total Acres: 3

PLACE OF USE: IRRIGATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 17	<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>	X

PLACE OF USE: IRRIGATION FROM STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 17	<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>	3.0

Total Acres: 3

PLACE OF USE: RECREATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 17	<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>	X

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</u> <u>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</u> <u>Size</u>
A0003223 PUMP IN BARKER CREEK					

D. FLOW MEASUREMENTS

AVERAGE FLOW IS 26 GPM USED 5 GALLON BUCKET. 5 GALLONS PER 11 SEC=26GPM=0.06CFS

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 25.46 \text{ AF}$$

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

2. Volume Calculations for Other Uses:

ONE HOME = 0.6 AF PER YEAR

STORAGE 20FT X25 FT X4.5 FT IN STREAM = 0.05AF

SURFACE AREA = 500SF

EVAPERATION = 0.02AF

TOTAL POND SIZE IS STORAGE + EVAPERATION= 0.1AF**G. NARRATIVE/REMARKS/COMMENTS: POND IS STREAM**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	0.040 CFS	0.60 AF
IRRIGATION	04/01 to 11/01	0.060 CFS	9.00 AF
IRRIGATION STORAGE	01/01 to 12/31		0.10 AF
IRRIGATION FROM STORAGE	04/01 to 11/01		0.10 AF
RECREATION STORAGE	01/01 to 12/31		0.10 AF
<u>Totals:</u>		0.060 CFS	9.7 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 10-11-2013Reviewer *[Signature]* Date 12/17/2013



STORAGE.JPG



HOME.JPG



POD.JPG



IRRIGATION .JPG



LAWN.JPG



POWER.JPG

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