

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

SCANNED
JUN 22 2007

A. GENERAL INFORMATION

Permit No: 91-7139

Exam Date: 6/11/2007

1. Current Owner: HELLS GULCH WATER ASSOCIATION
33321 S HELLS GULCH RD
ST MARIES ID 83861
2. Accompanied by: LARRY DAHLKEY
Phone No: 208-245-4209
Address: SAME AS ABOVE
Relationship to Permit Holder: ASSOCIATION MEMBER
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

SE1/4NE1/4

Sec. 36, Twp 47N, Rge 03W, B.M.

KOOTENAI County

Method of Determination: GPS

2.

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	
47N 03W 36				1.0									1.0				2.0

Total Acres: 2

DOMESTIC same as IRRIGATION

Method of Determination:

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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>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*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: 5 gallon bucket
5 gallon in 6 seconds
50 gpm

E. FLOW CALCULATIONS

Measured Method:

☐ Additional Computation Sheets Attached

$$50 \text{ gpm} = .1114 \text{ cfs}$$

$$0.11 \text{ cfs}$$

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F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \times 3 = 6 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .06 \times 246 \times 1.9835 = 29.28 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\begin{array}{r}
 .6 \text{ AF} \times 4 \text{ homes} = 2.4 \text{ AF} \\
 + 6.0 \text{ AF} \\
 \hline
 8.4 \text{ AF}
 \end{array}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUNDWATER FOR 4 DOMESTIC HOMES AND THE IRRIGATION OF 1/2 ACRE ON EACH PROPERTY. A MEASUREMENT OF 50 GPM WAS TAKEN AT THE TIME OF THE FIELD EXAM. .

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	
IRRIGATION	03/15 to 11/15	0.060 CFS	
<u>Totals:</u>		0.110 CFS	8.40 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 6-21-07

Reviewer [Signature] Date 6/21/7

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0.1 0 0.1 0.2 Miles



- Kootenai taxlots
- GCDB47N03W GCDB
- GCDB47N02W GCDB
- GCDB46N03W GCDB
- GCDB46N02W GCDB
- Right POD
- Pou.shp
- Pod.shp
- Administrative BasinsAdminbas.shp





DOMESTIC 1



DOMESTIC 2



DOMESTIC 3



DOMESTIC 3 AGAIN



DOMESTIC 4



IRRIGATION



OLD WELL CAVED IN



OLD WELL HOUSE NOT IN
USE IRRIGATION BEHIND



SYSTEM



SYSTEM PRESSURE



TAG # WELL IN USE



WELL HOUSE IN USE



WELL IN USE

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00003356

STATE OF CALIFORNIA
DEPARTMENT OF
WATER RESOURCES

WELL INSPECTED BY:
[Redacted]

DATE:
[Redacted]

REF:
[Redacted]

CDWR

TAG



