

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

Permit No: 91-7162

Exam Date: 9/11/2008

1. Current Owner: HOWARD P THORHAUG  
5680 ST JOE RIVER RD  
ST MARIES ID 83861  
(208)245-4176
2. Accompanied by: OWNER  
Phone No: SAME  
Address: SAME  
Relationship to Permit Holder:

3. SOURCE

ST JOE RIVER

TRIBUTARY

COEUR D ALENE LAKE

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

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

ST JOE RIVER

L12 NE1/4SE1/4

Sec. 16, Twp 46N, Rge 01W, B.M.

BENEWAH County

Method of Determination: MAP

2.

PLACE OF USE: IRRIGATION

| Twp Rge Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| 46N 01W 16  | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | 1.0    |
|             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | L 12   |

Total Acres: 1

## 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> |
|----------------------------------|-------------------|-----------|-------------------------|------------------|------------------------------------------|
|                                  |                   | 1         | 4/K                     | Floreco          | FP5162-08                                |
|                                  |                   |           |                         | Model:           | C48K2EC11C3                              |
|                                  |                   |           |                         |                  |                                          |
|                                  |                   |           |                         |                  |                                          |

\*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:

## E. FLOW CALCULATIONS

\_\_\_\_ Additional Computation Sheets Attached

Measured Method:

5 GAL Bucket in 20 sec = 15 gpm = 0.03 cfs

**F. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \times 3 \text{ AF} = 3 \text{ AF}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3 \text{ AF}$$

## 2. Volume Calculations for Other Uses:

**G. NARRATIVE/REMARKS/COMMENTS: USE IS ONE LOT 5 & 6 WITH THE TOTAL USE OF IRRIGATION 1 ac.**

Have conditions of permit approval been met? 1 Yes      No

**H. RECOMMENDATIONS**

## 1. Recommended Amounts

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| IRRIGATION            | 03/15 to 10/31       | 0.030 CFS             | 3.00 AF              |
| <u>Totals:</u>        |                      | 0.030 CFS             | 3.00 AF              |

## 2. Recommended Amendments

     Change P.D. as reflected above      Add P.D. as reflected above 1 None

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

**I. AUTHENTICATION**

Field Examiner's Name Eric J. Davis Date 9-12-2008

Reviewer [Signature] Date 9/18/8

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**Legend**

- ⊙ Right POD
- place of use

0 20 40 80 120 160 Feet



# SYSTEM



## Legend

- ⊙ Right POD
- place of use

0 20 40 80 120 160 Feet





FLOW.JPG



IRR .JPG



POD.JPG



POU LOT 5.JPG



POU LOT 6.JPG



PUMP.JPG

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09/10/2008

**Flotec®**  
 DELAVAN, WISCONSIN 53115  
 Pump Model No:  
**FP5162-08**  
 Code: Código: 144V 115TFC  
**1E04B 0200**

**Motor Model: C48K2EC11C3**

|                            |           |               |         |
|----------------------------|-----------|---------------|---------|
| HP 1                       | KW        | Volts         | 115/230 |
| RPM 3450                   | Phase 1   | Hz 60         | Code K  |
| Max Load Amps 14.8/7.4     | SF 1.25   |               |         |
| <b>THERMALLY PROTECTED</b> |           | <b>TYPE B</b> |         |
| Insul Class B              | Amb 50 °C | Time Rating   | CONT.   |

**A.O.Smith Corp.**

**\*Record pump model number prior to motor replacement.**  
**\*Relever le numéro de modèle de la pompe avant de remplacer le moteur.**  
**\*Anoté el numero del modelo de la bomba antes de cambiar el motor.**

**\*Motor prewired 230 Volt.**  
**\*Le moteur est cable pour**  
**le courant 230 V.**

**GRD** **GREEN (GROUND)**  
 HIGH VOLTAGE SH-DOWN ROTATE DIAL