

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

**A. GENERAL INFORMATION**

Permit No: 91-07156

Exam Date: 9/9/2016

1. Current Owner:  
ACE MARTIN 90 GRACIE LN SAINT MARIES ID 83861 (208) 582-1819
2. Accompanied by: Ace Martin and Laurie Martin  
Relationship to Permit Holder: Owners
3. **SOURCE:**  
ST JOE RIVER

**TRIBUTARY:**  
COEUR D ALENE LAKE

**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:**

ST JOE RIVER SW¼SW¼ Sec. 14, Twp 46N, Rge 02W, B.M. BENEWAH County

Method of Determination: GPS and maps. POD location at 116° 33.861, 47° 19.709

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 |        |
| 46N | 02W | 14  |    |    |    |    |    |    |    |    |    |    | 3.6<br>L 10 |    |    |    |    |    | 3.6    |

Total Acres: 3.6

Method of Determination: GPS and maps.

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  
  X   1:24,000 or greater.

  X   Aerial Photo Attached (required for irrigation of 10+ acres).

  X   Photo of Diversion and System Attached

4.

| Well or Diversion ID No.* | Motor Make | Hp  | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------|------------|-----|------------------|-----------|-----------------------------------|
|                           | AG SMITH   | 1.5 |                  |           |                                   |
|                           |            |     |                  |           |                                   |
|                           |            |     |                  |           |                                   |
|                           |            |     |                  |           |                                   |

\*Code to correspond with No. on map and aerial photo

#### D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
|                       |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. Measurements:

#### E. FLOW CALCULATIONS

           Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT, PUMP WAS OUT OF WATER BEING REPAIRED. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 35.8 GPM OR 0.08 CFS. SEE ATTACHED

**F. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.6 \text{ AC} \times 3 \text{ AF} = 10.8 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \text{ CFS} \times 231 \times 1.9835 = 36.7 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 10.8 \text{ AF}$$

## 2. Volume Calculations for Other Uses:

**G. NARRATIVE/REMARKS/COMMENTS**

Field exam with Laurie and Ace Martin showed applicants had 1.5 hp pump that had been removed from river for repairs. Water had to be pumped up 40 ft high dike before it went to the irrigated lands. Theoretical pumping equation estimates flow at 35.8 gpm or 0.08 cfs. Applicant outlined where they were irrigating and comes out to 3.6 acres of irrigation. Applicant was not using river water for house because well was drilled in 2009. Domestic will be removed from license.

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> |
|-----------------------|----------------------|-----------------------|----------------------|
| IRRIGATION            | 03/15 to 10/31       | 0.08 CFS              | 10.8 AF              |
| <u>Totals:</u>        |                      | 0.080 CFS             | 10.80 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 ☒ None

**I. AUTHENTICATION**

Field Examiner's Name Adam Fendrich Date 11-18-2016

Reviewer Morgan Case Date 12/25/2016

State of Idaho  
Department of Water Resources  
**Water Right License**  
91-7156

02W

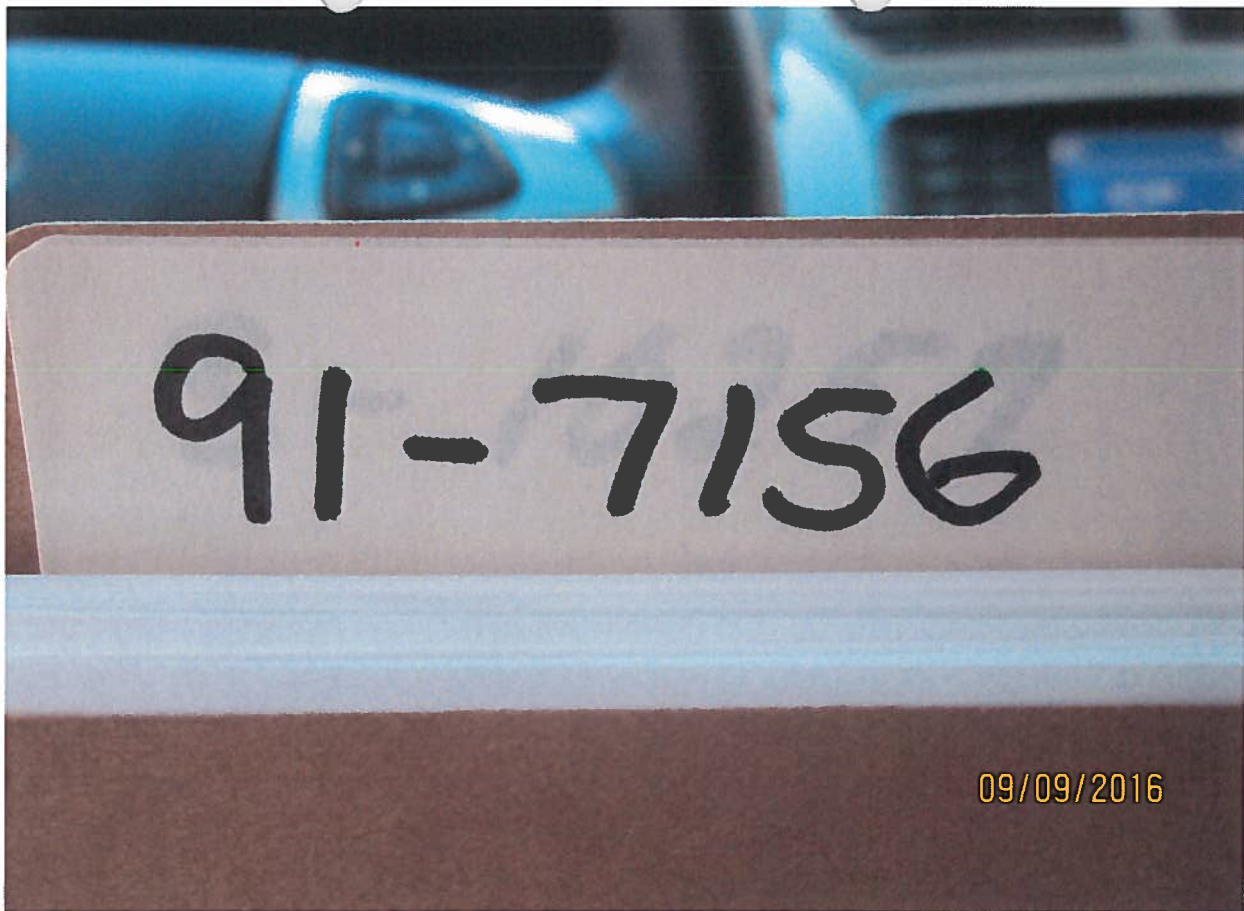


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

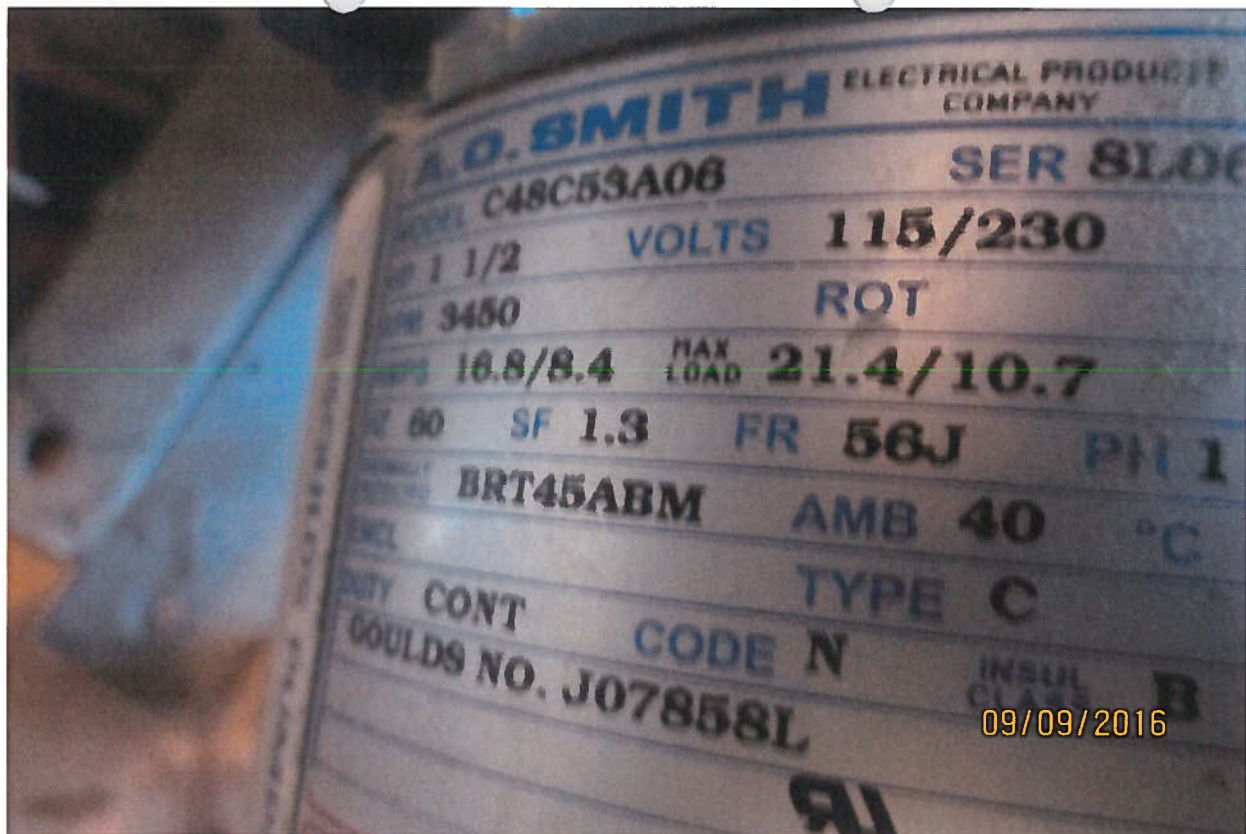
0 0.035 0.07 0.14 Miles







Intake line from river to shore.



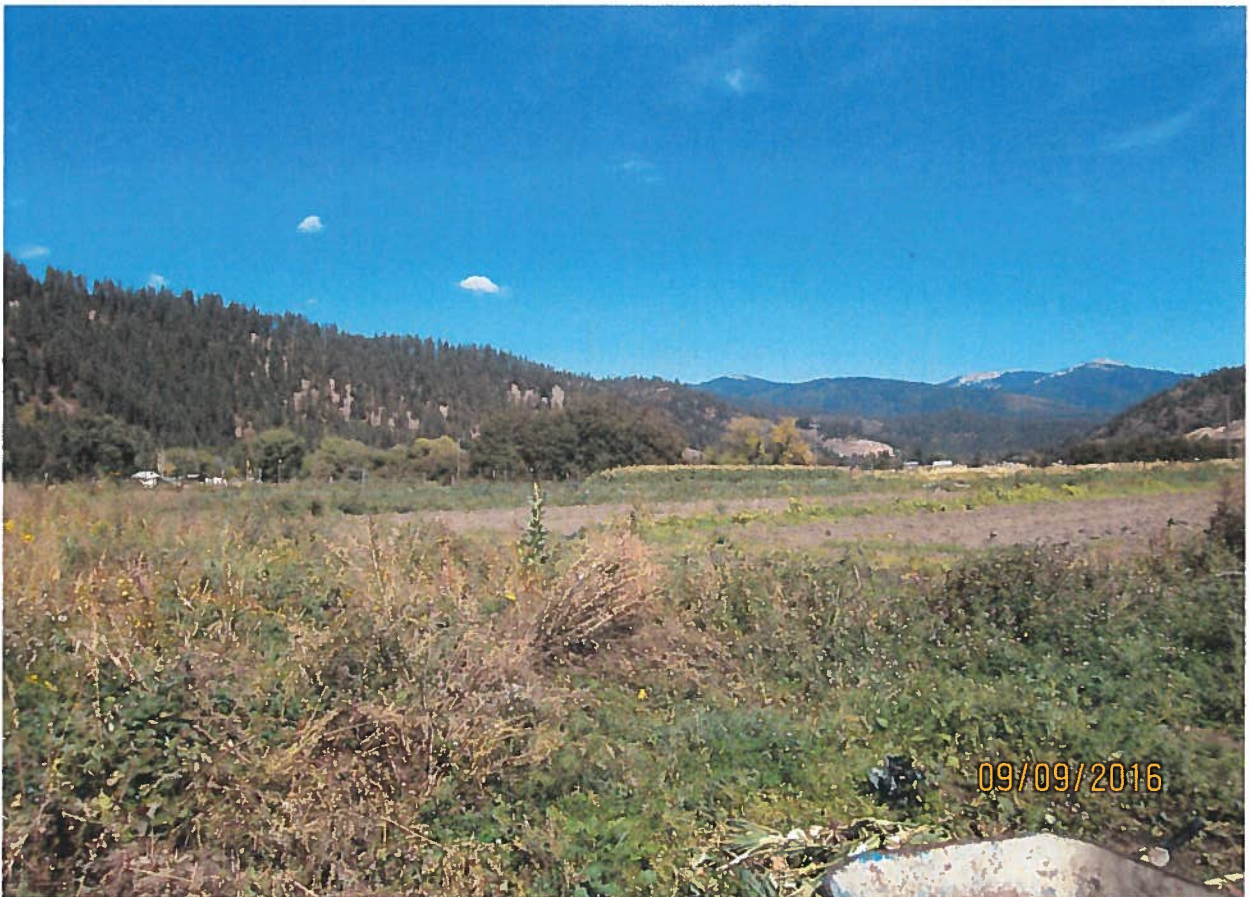
Pump was out getting worked on. 1.5 hp pump.



Orchard south of house.



Irrigation of farmland.



Irrigation of farmland.