

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

**A. GENERAL INFORMATION**

Permit No: 98-07874  
Exam Date: 9/23/2016

1. Current Owner:  
TOM BARROWS PO BOX 147 LACLEDE ID 83841 (208)597-4789
2. Accompanied by: Frank Sellers (Current property owner)  
Phone No: 530-354-6479  
Address: 517445 Hwy 95 Bonners Ferry ID 83805  
Relationship to Permit Holder: Current owner of property

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

GROUND WATER NW¼SW¼ Sec. 10, Twp 63N, Rge 01E, B.M. BOUNDARY County

Method of Determination: Maps and GPS. POD location at 48° 49.426, 116° 19.683 (Hand dug well)

2.

**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 |        |
| 63N | 01E | 10  |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |        |

**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 |        |
| 63N | 01E | 10  |    |    |    |    |    |    |    |    | 0.7 |    |    |    |    |    |    |    | .7     |

Total Acres: 0.7

Method of Determination: Google Earth and Arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

  X   Indicate weir size/pipe as applicable.  X   Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 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 |
|---------------------------|------------|-----|------------------|-----------|-----------------------------------|
| HAND DUG WELL             | FRANKLIN   | 1/2 |                  |           |                                   |
|                           |            |     |                  |           |                                   |
|                           |            |     |                  |           |                                   |
|                           |            |     |                  |           |                                   |

\*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: 5 GALLON BUCKET TEST

5 GALLONS FILLED IN 25 SECONDS

5 GAL / 25 SECONDS = 0.2 X 60 SECONDS = 12 GPM

**E. FLOW CALCULATIONS**

Measured Method:

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

**F. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.7 \text{ AC} \times 3.0 \text{ AF} = 2.1 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 214 \times 1.9835 = 8.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.1 \text{ AF}$$

## 2. Volume Calculations for Other Uses: DOMESTIC FOR 2 HOMES AND 1 STUB IN

$$0.6 \text{ AF} \times 3 \text{ HOMES} = 1.8 \text{ AF}$$

**G. NARRATIVE/REMARKS/COMMENTS**

Field exam with Frank Sellers, the current property owner, showed a concrete cistern hand dug well. Well was adjacent to a swampy area that the USGS Quad map shows as an intermittent creek. Hand dug well was 15 feet deep with a 1/2hp Franklin pump. Water was pumped up access road from well where there was a frost free hydrant on an empty property owned by Mr. Sellers. He said that hydrant was a stub in for a future home. That hydrant used water directly from the hand dug well before it reached the two built homes with pressure tanks. A 5 gallon bucket test was performed in 25 seconds which is equal to 12gpm or 0.03 cfs.

Applicant had two built homes on one taxlot, and one stub-in on adjacent taxlot. Each home had a pressure tank and filtration system for water from well. Irrigation of garden, fruit trees, and yard were around both built homes and was equal to 0.7 acres. License will be issued for 0.03cfs with annual volume of 3.9 acre feet. Domestic will be issued for 3 homes with a diversion rate of 0.03cfs with annual volume of 1.8 acre feet. Irrigation will be licensed for 0.7 acre with a diversion rate of 0.02cfs with annual volume of 2.1 acre feet.

Mr. Sellers mentioned he could have water from Bee Line Water Assn Inc or Three Mile Water District who are both municipal providers in that area. Mr. Sellers said it was cheaper to clean the water from the hand dug well. No overlap conditions will need to be added on license. Mr. Sellers was notified during exam about a change in ownership during licensing if he wanted license in his name. He said he would get the warranty deed and stop by during the winter. A voicemail was left in April 2017 with no response about doing the change in ownership. License will be issued in the name of Tom Barrows.

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> |
|-----------------------|----------------------|-----------------------|----------------------|
| DOMESTIC              | 01/01 to 12/31       | 0.03 CFS              | 1.8 AF               |
| IRRIGATION            | 04/01 to 10/31       | 0.02 CFS              | 2.1 AF               |
|                       | <u>Totals:</u>       | 0.030 CFS             | 3.90 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  X  None

**I. AUTHENTICATION**

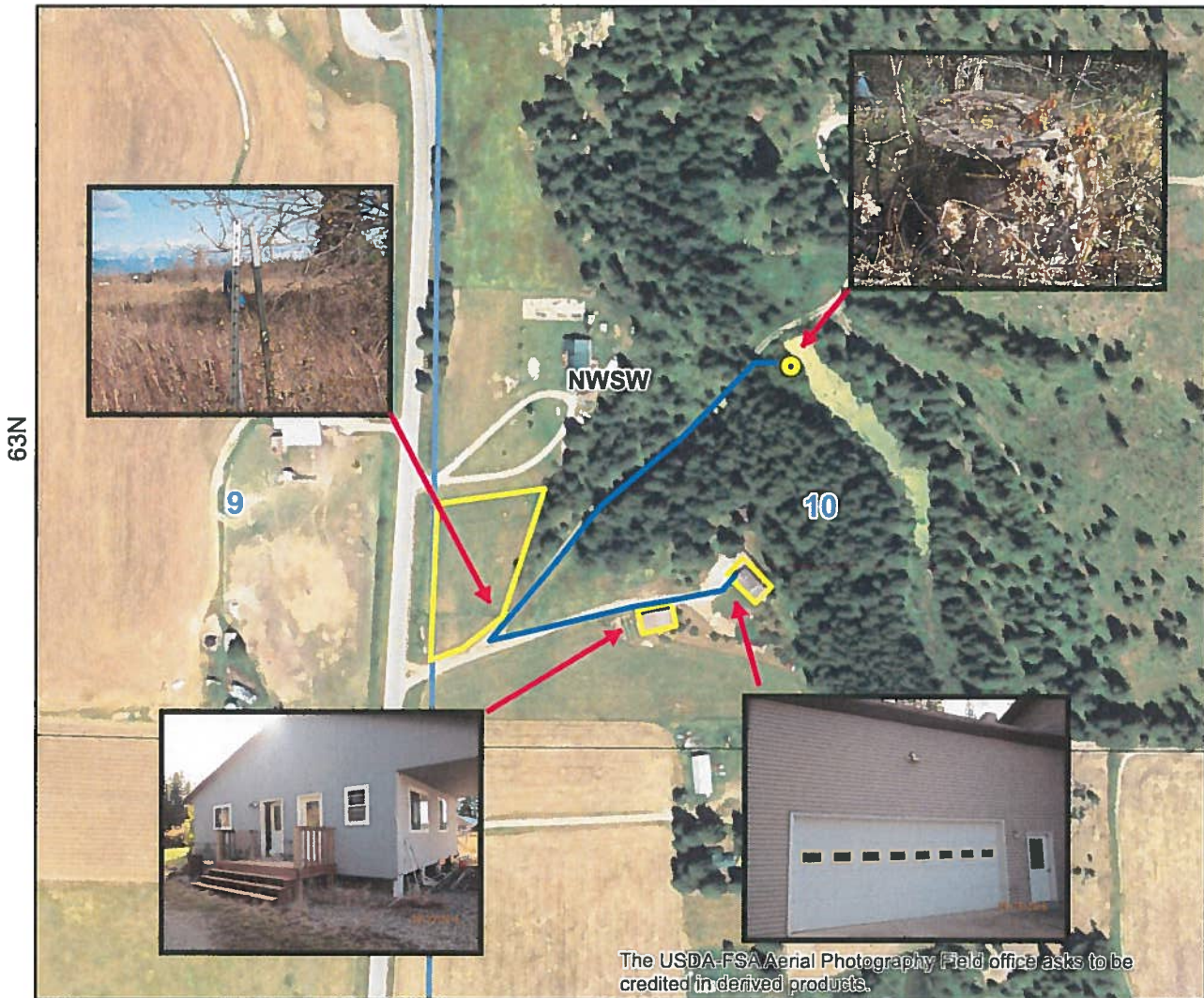
Field Examiner's Name Adam Friedman Date 5-10-2017

Reviewer Morgan Case Date 6/1/2017

State of Idaho  
Department of Water Resources  
**Attachment to Field Exam**  
98-7874

DOMESTIC / SYSTEM DIAGRAM

01E



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

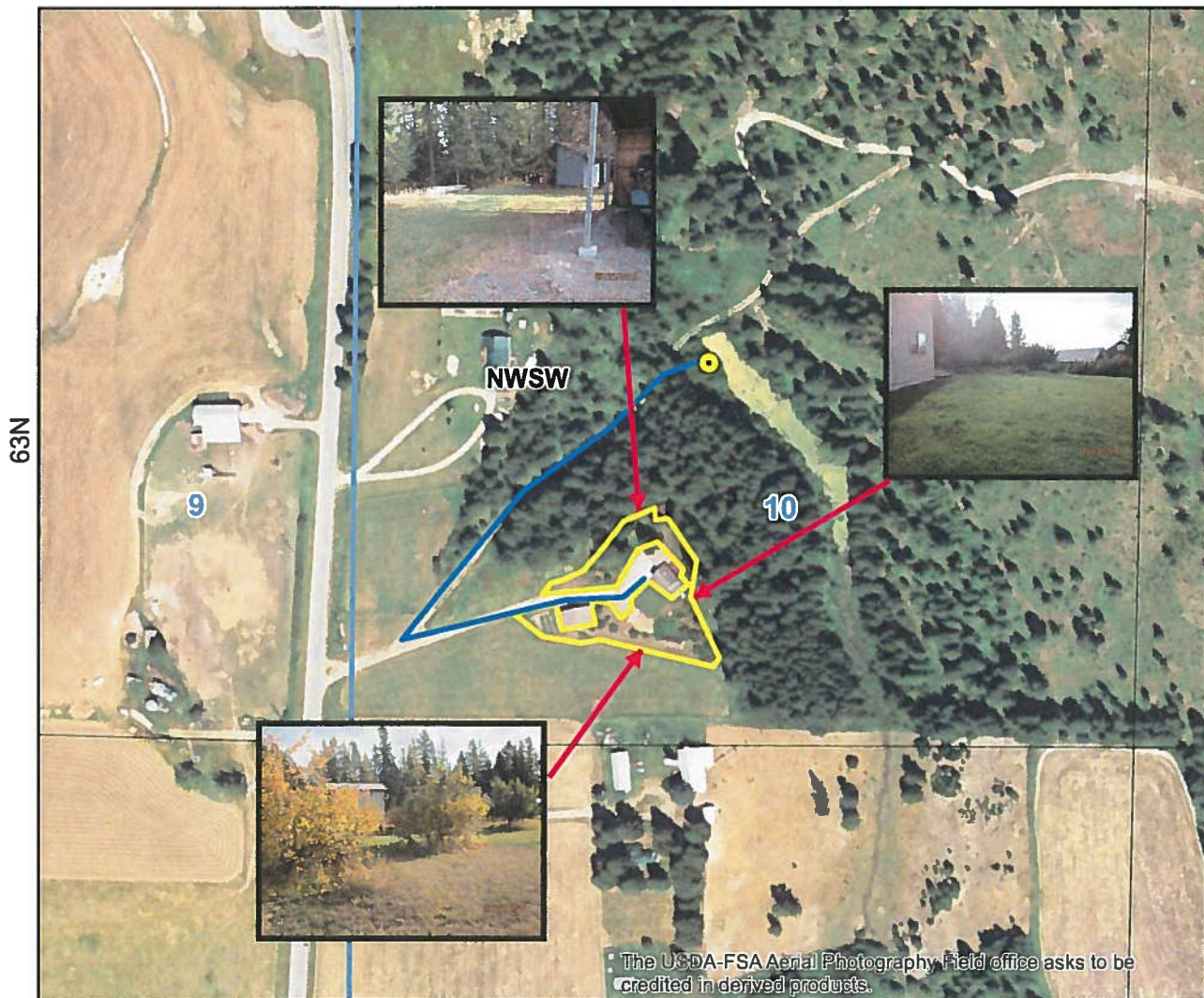
0 0.035 0.07 0.14 Miles



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IRRIGATION / SYSTEM DIAGRAM

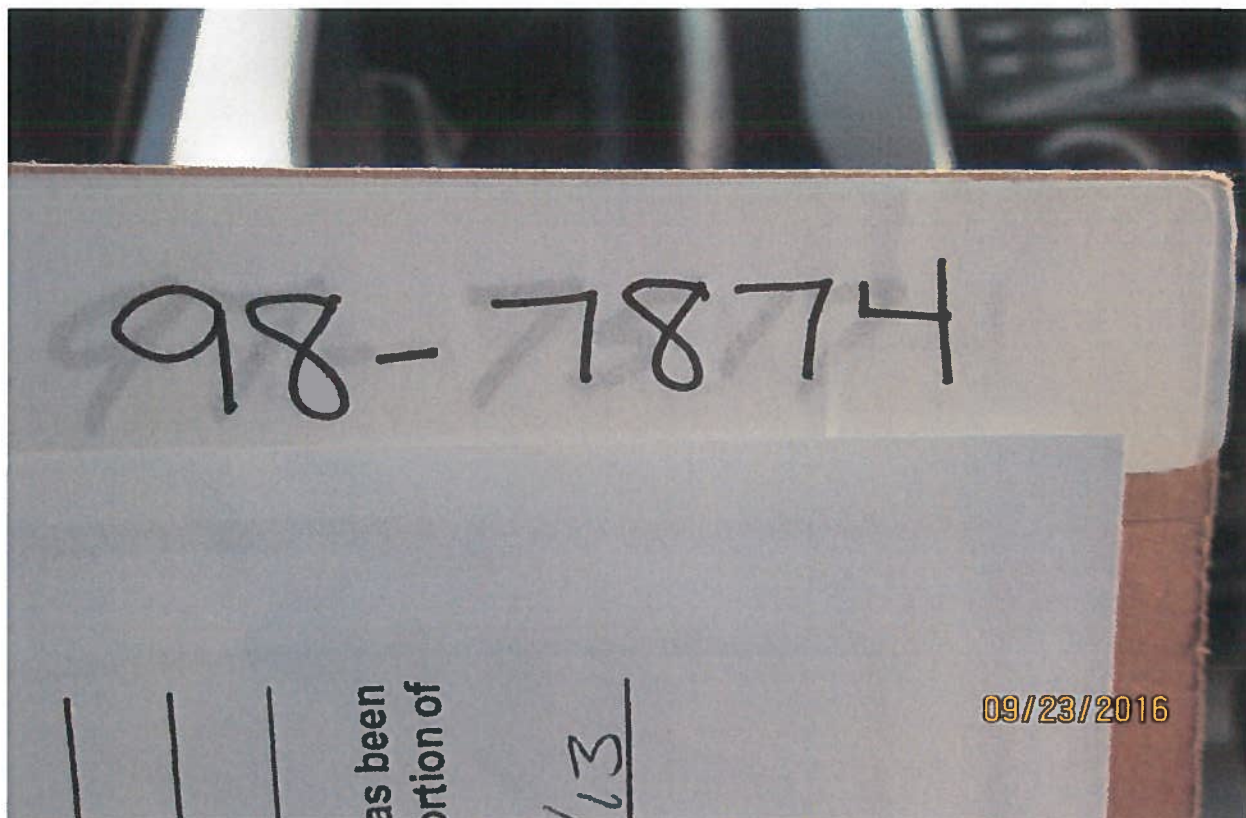
01E



0 0.035 0.07 0.14 Miles

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





Front of home 1.



Side of home 1 and irrigation.



Irrigation around back and side of home 1.



Frost free hydrant used for irrigation.



Home 2 and irrigation along driveway.



Home 2.



Sprinkler head.



Frost free hydrant for stub in for home 3. 5 gallon bucket test performed here.

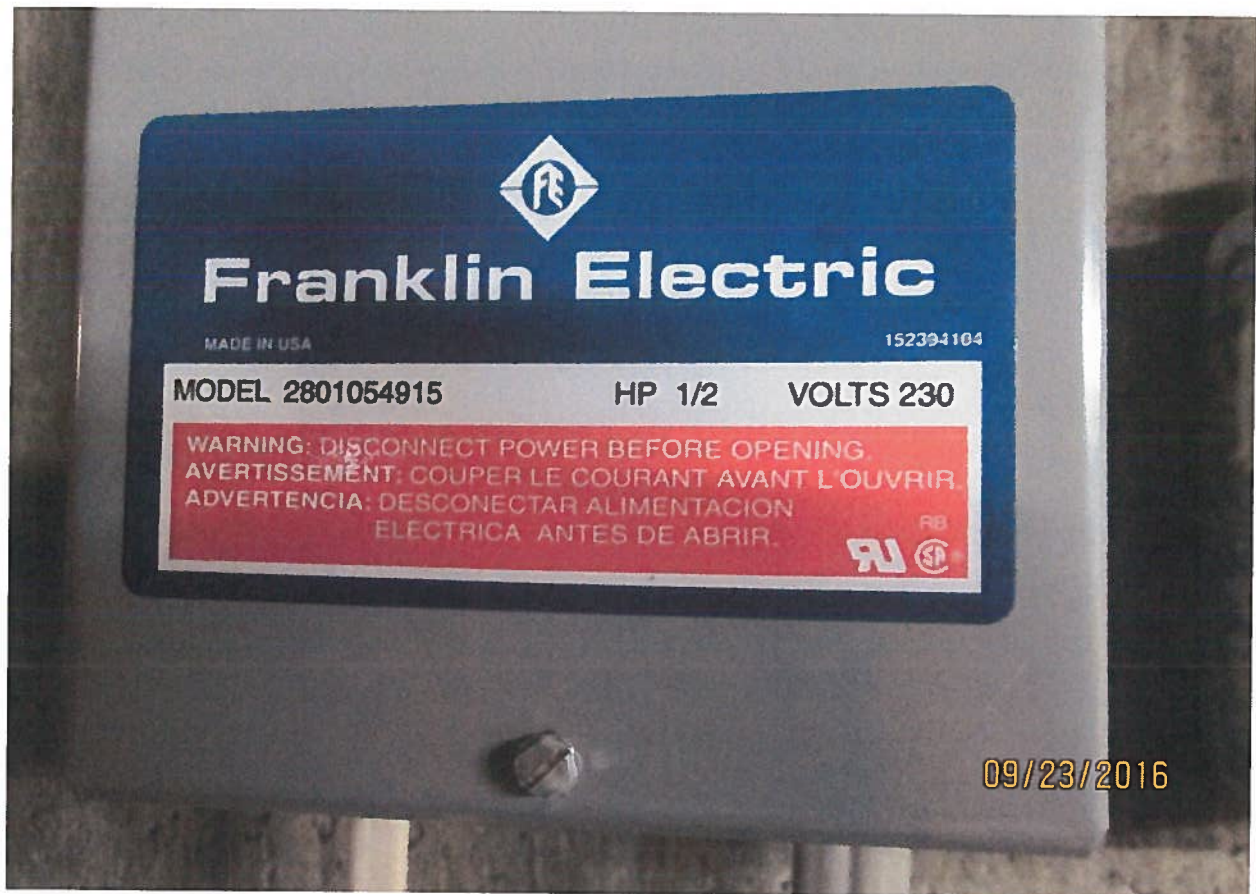


Fruit trees and grass irrigation.



Hand dug well with ½hp pump.





1/2hp pump in well.



View from driveway looking at homes 1 and 2.