

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 71-10926

Exam Date: 9/19/2016

1. Current Owner:
DANIEL J MAHONEY III
14 BERESFORD CT
BLOOMFIELD HILLS MI 48304
(248) 203-5923

2. Accompanied by: Chad Baasch, caretaker, and Kent Aasa, IDWR Agent

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 71-48 (See Narrative)
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE¼NE¼ Sec. 10, Twp 11N, Rge 12E, B.M. CUSTER County

Method of Determination: Aerial Photography, Site Visit

2.

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11N	12E	10				X													

PLACE OF USE: FIRE PROTECTION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11N	12E	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	
11N	12E	10			0.5	2.0													2.5

Total Acres: 5

DIVERSION TO STORAGE same as IRRIGATION

Method of Determination: Aerial Photography, Site Visit

3.

 X Delivery System Diagram Attached (required). Indicate all major components and distances between components. 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
N/A					

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

D. FLOW MEASUREMENTS

1. Measurements: None taken

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Per Application Processing Memo #17, standard allowable flow rate of 0.03 cfs/acre for ≤ 5 acres.

0.03 cfs per acre = 0.03 cfs X 2.5 acres = 0.075 cfs = 0.08 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.5 \text{ acres} \times 3 \text{ AF} = 7.5 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \times 184 = 14.72 \times 1.9835 = 29.19 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 7.5 \text{ AF}$$

Recommended Irrigation Volume of 15 AF

2. Volume Calculations for Other Uses: Pond Volume for Storage

$$\text{Pond \#1, Volume} = 0.025 \text{ acres} \times 1' \text{ average depth} = 0.025 \text{ AF} = 0.03 \text{ AF}$$

$$\text{Pond \#2, Volume} = 0.05 \text{ acres} \times 1.5' \text{ average depth} = 0.075 \text{ AF} = 0.08 \text{ AF}$$

$$\text{Total } 0.011 \text{ AF}$$

Recommend Permitted amount of 0.1 AF for Storage

G. NARRATIVE/REMARKS/COMMENTS

The application for permit was filed on June 29, 2009 by Daniel J Mahoney III for 0.15 cfs, Irrigation of 5.0 acres, Aesthetic Storage, and Fire Protection Storage. Proof of beneficial use was due on or before November 01, 2011. The statement of completion of beneficial use was filed on December 27, 2011 by Mr. Mahoney. In the application the applicant states "The purpose for this application is to irrigate the land that is currently irrigated via the Elk Creek Diversion under water right # 71-48. It is the desire of the U.S. Forest Service within the Sawtooth National Recreation Area (SNRA) to close the Elk Creek diversion and ditch for the purpose of fisheries benefits". It is also proposed that water right # 71-48 will no longer be used on this property and the applicant will place water right #71-48 into the Water Supply Bank. Currently water right 71-48 is not leased to the Water Supply Bank.

A field examination was conducted on September 19, 2016 by myself and assisted by Kent Aasa, IDWR Agent. During our visit we met with Chad Baasch the caretaker of the property. He showed us the location of the well and explained how water was diverted from the well into the existing irrigation systems, both flood and sprinklers. He also explained that they were in the process of doing some improvements to the system. We then documented the systems and verified the irrigated place of use and the storage ponds. Based on the site visit and aerial photography we estimated a total irrigation of 2.5 acres. For acreage up to 5 acres or less, the standard flow rate of 0.03 cfs per acre is allowed. This permit is separate and independent of water right # 71-48 and is to be used as a primary ground water right. The conditions on the permit appear to have been satisfied and it is recommended to license this permit as described below.

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>
IRRIGATION	05/01 to 10/31	0.08 CFS	7.5 AF
DIVERSION TO STORAGE	05/01 to 10/31	0.08 CFS	
AESTHETIC STORAGE	05/01 to 10/31		0.1 AF
FIRE PROTECTION STORAGE	05/01 to 10/31		0.1 AF
<u>Totals:</u>		0.080 CFS	7.6 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 Benny Walker Date 2/22/2019
 Reviewer _____ Date _____

Permit 71-10926

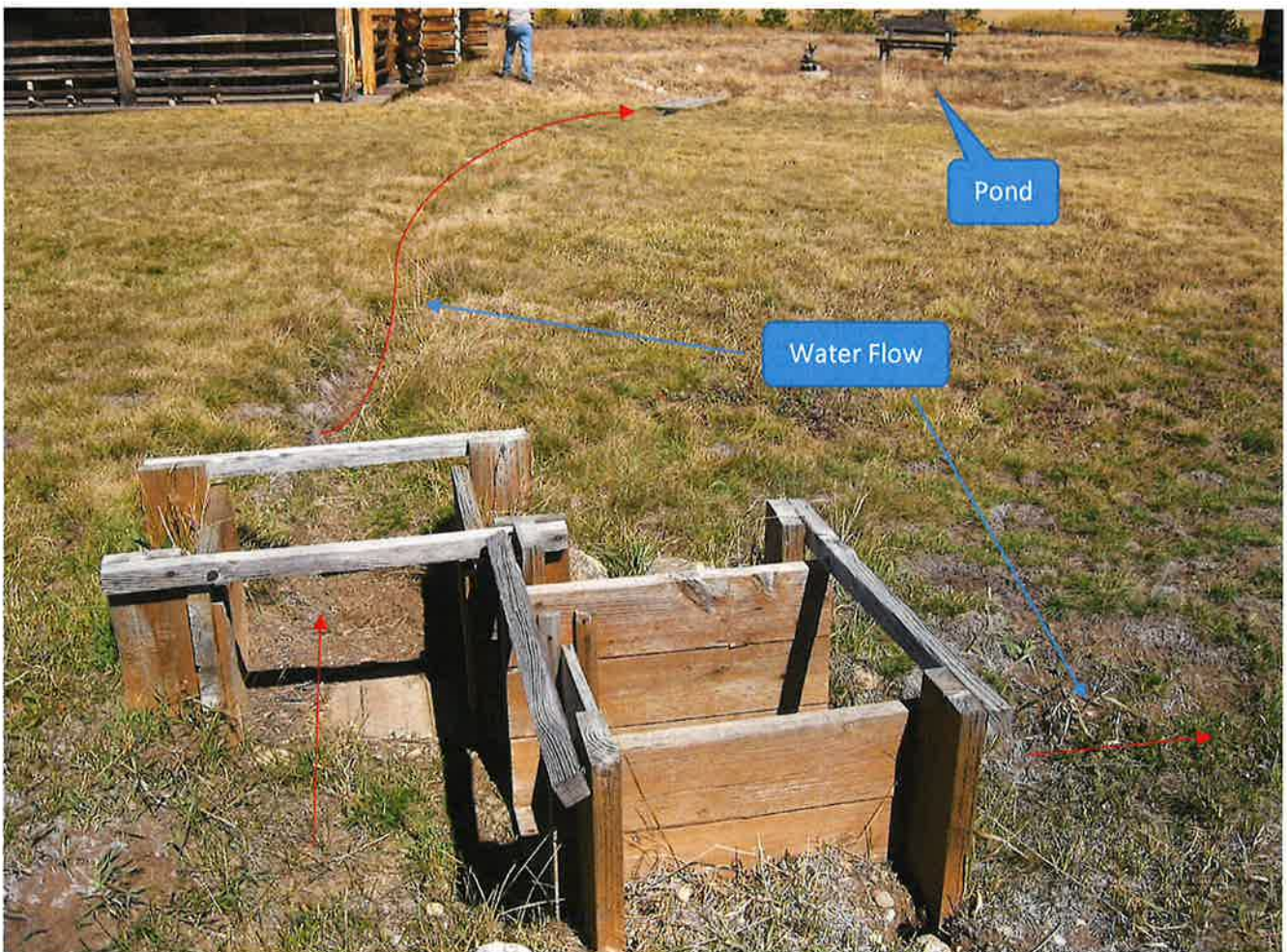
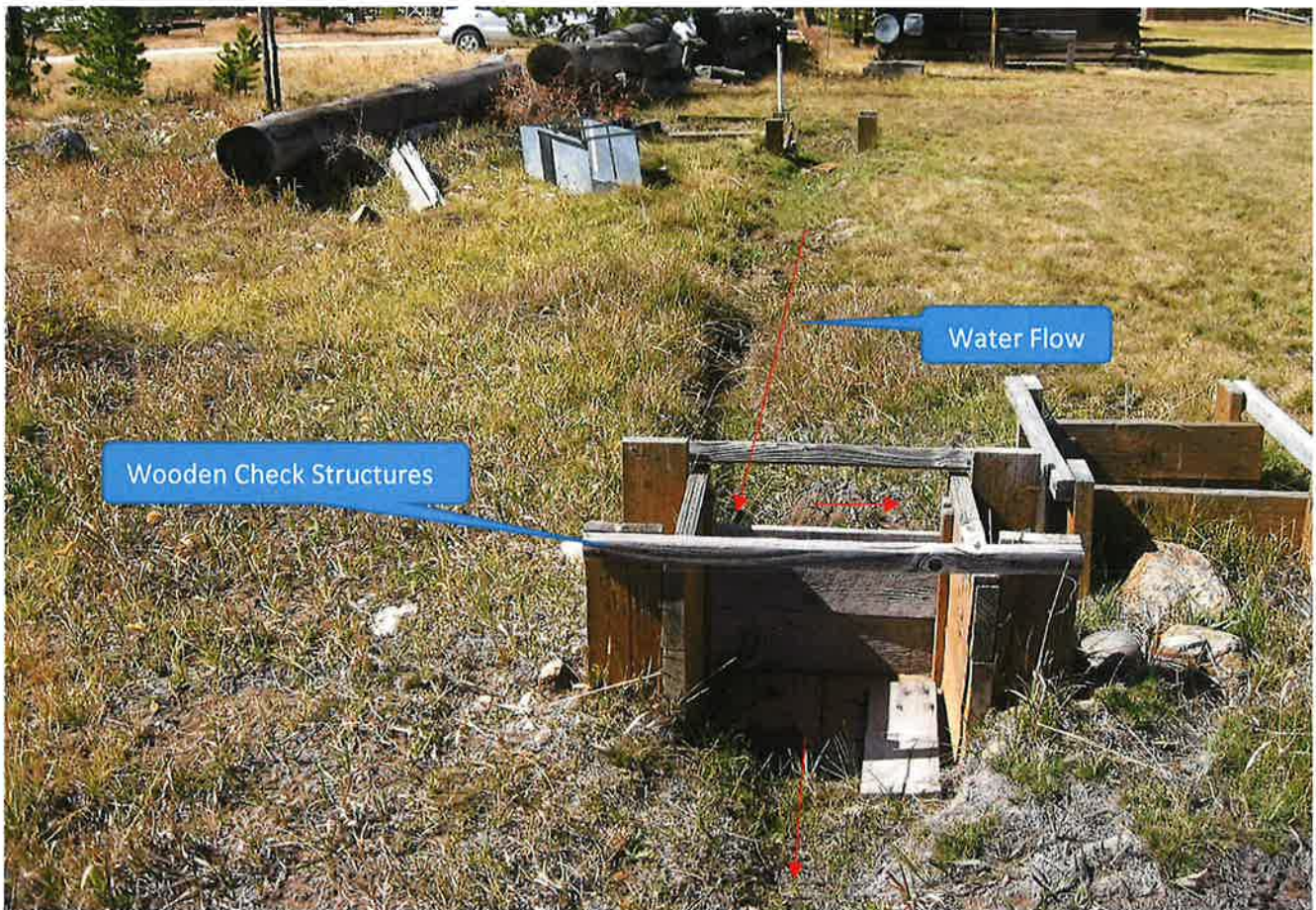


Well Head and Deliver System





View from Valve to Well Head

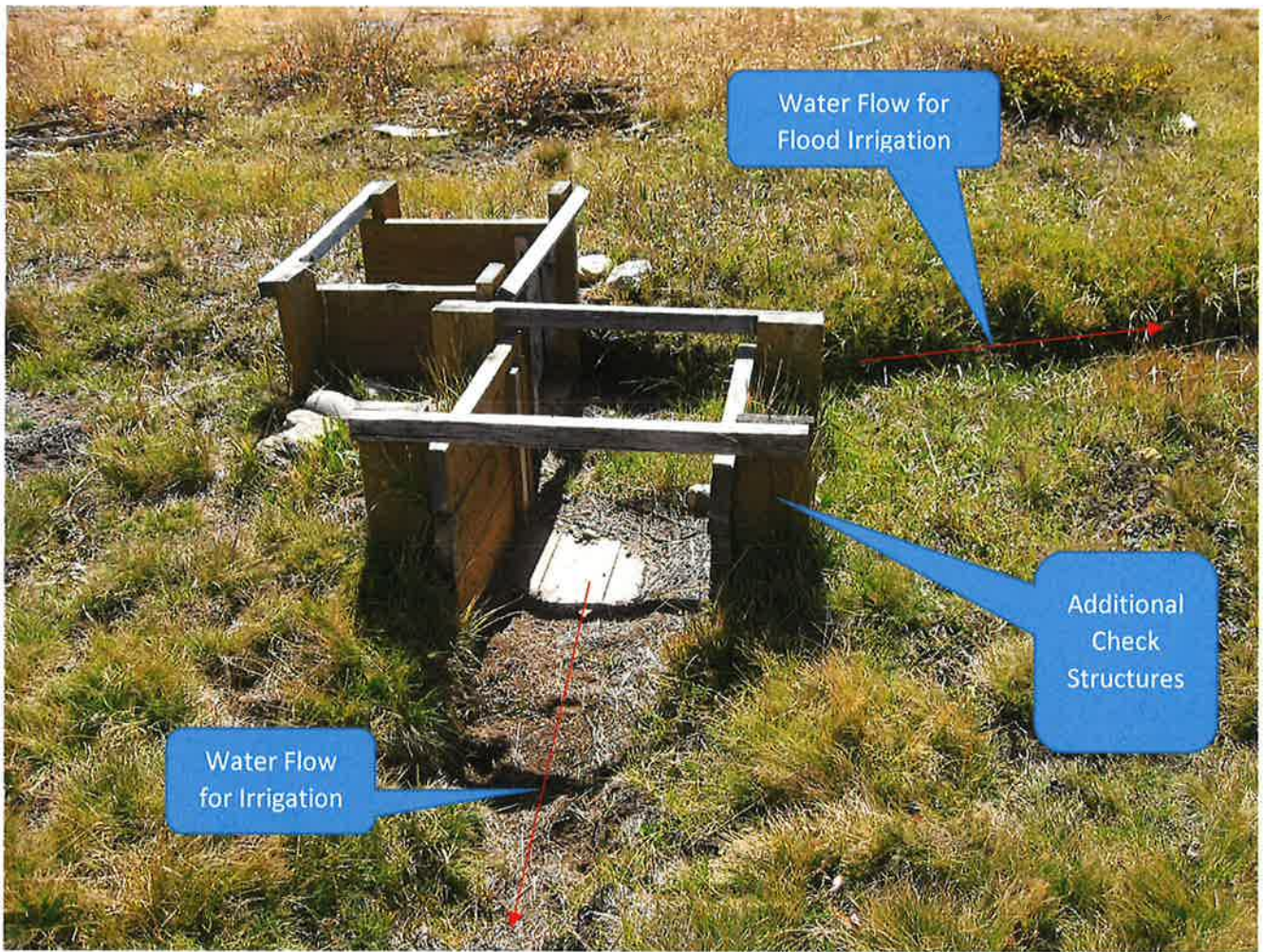




Ponds



Permit 71-10926

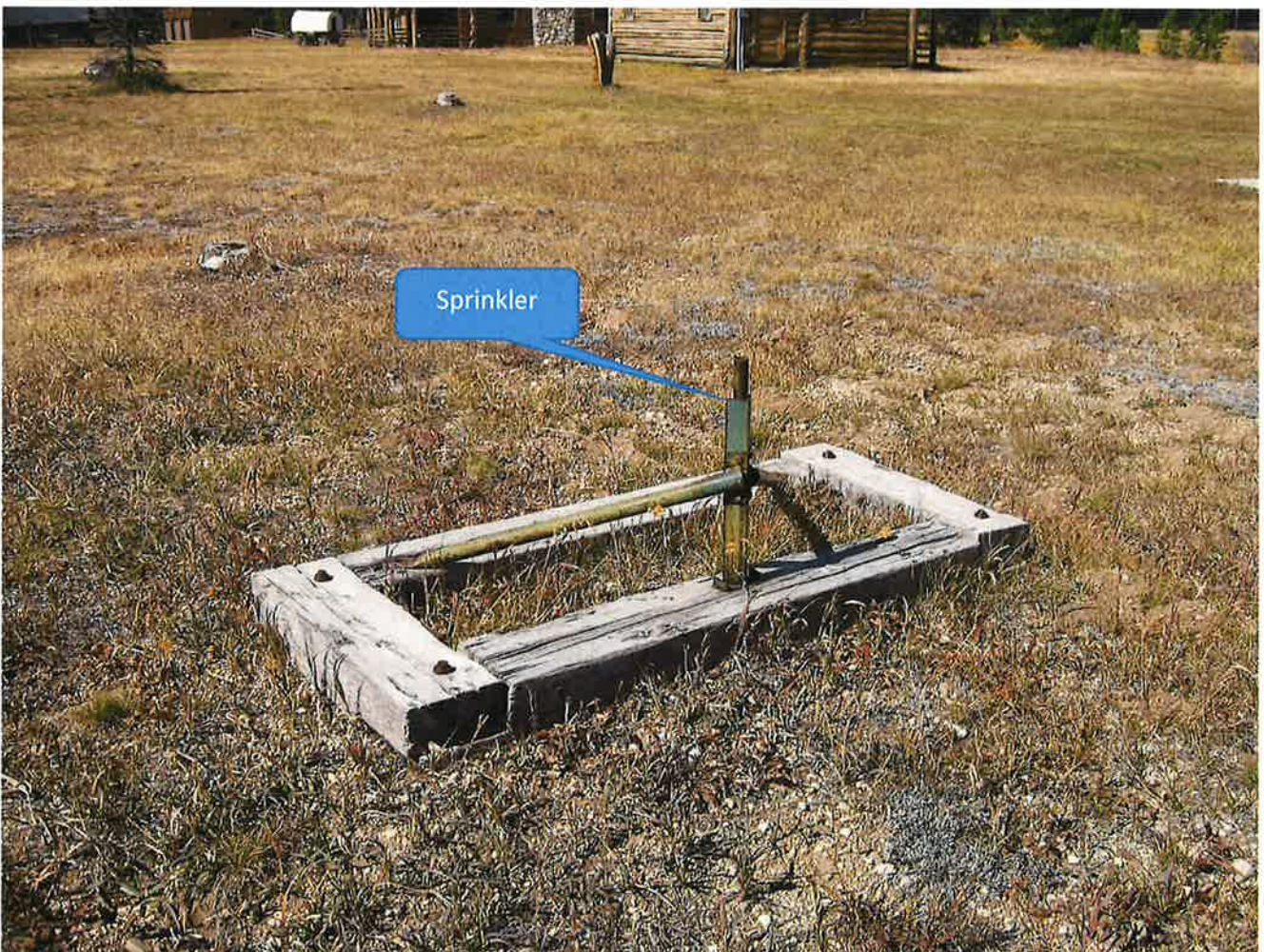


Irrigated Area





Sprinkler Irrigation



Permit 71-10926



Irrigated Area's



