

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7268

Exam Date: 9/1/2015

1. Current Owner: GORDON SMITH
1605 GRANDVIEW DR N SPC 46
TWIN FALLS ID 83301
(208) 731 4759

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE**

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Deep Creek Irrigation shares
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

NE1/4SE1/4

Sec. 16, Twp 14S, Rge 36E, B.M.

ONEIDA County

Method of Determination: GPS and site visit.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
14S	36E	16	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	7.5
															7.5				7.5

Total Acres: 7.5

Method of Determination: Aerial Photography and "see comments".

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</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>
D0050931	Submersible	10		#60S100-18 Grundfos.	

*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>
N/A						

2. Measurements: System was not running at the time of the exam. Theoretical and submitted pump test documents will be used in place.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Theoretical and submitted pump test.

Pump company ran a 2 hour pump test. Flow rate was 66 GPM or .15 cfs. Static water level was 276 feet and had 18 feet of draw down after 2 hours of pumping.

Theoretical measurement

$$\frac{(8.8 \times 10 \times .7)}{(294 + (2.31 \times 40))} = .16 \text{ cfs}$$

The pump test and the theoretical calculation are nearly identical. The pump test will be used for the exam.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = 7.5(\text{Acres Irrigated}) \times 3.5(\text{Irrigation Requirement}) = 26.3 \text{ AF}$$

$$V_{D.R.} = .15 [\text{Diversion Rate (cfs)}] \times 214 (\text{Days in Irrigation season}) \times 1.9835 = 63.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 26.3 \text{ AF}$$

2. Volume Calculations for Other Uses:**G. NARRATIVE/REMARKS/COMMENTS**

At the time of the exam 9/1/2015, the well was not connected to any infrastructure and it was determined that no beneficial use had been established. A preliminary order voiding the permit was issued on 10/2/2015. The order was appealed on 10/14/2015 and in review was decided that the permit would be licensed for the rate and volume that were established by a pump test on 4/20/2015, and that the system had been used as flood irrigation. The POU was determined by the following equation;

$$0.15 \text{ cfs} = 7.5 \text{ acres, and will be placed on the property nearest the POD.}$$

$$0.02 \text{ cfs/acre}$$

No evidence of stockwater use during the 2-hr pump test.

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	04/01 to 10/31	0.150 CFS	26.30 AF
<u>Totals:</u>		0.150 CFS	26.30 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 Scott Bergendorf Date 10/19/2015

Reviewer _____ Date _____

Water Right License 15-7268

Idaho Department of Water Resources

Prepared by Scott Bergendorf
2013 Aerial photography

Onieda County
IDWR Basin 15



0 165 330 660 Feet

- POU
- Township/Range
- Sections
- QQ











Rec'd 4-29-15
WR. 15-7268

4/24/2015

**GORDON SMITH
MALAD FARM
800 N 300 W
MALAD, ID.**

Glenn
5-28-15 (4:30 PM)

Set 10 HP sub. Pump on April 20th, 2015.

Pump set at 350 feet.

Pump model# 60S100-18 Grundfos.

Static water level is 276 feet.

Pumped 66 GPM for 2 hours with 18 feet draw down.

Starting Amps
Running Amps

6-2-15 460 Volt 3 Phases
20 KW

THANK YOU.

KENT GLENN
Cell: (435)994-0656
Office: (435)752-4178

6-2-15 (435) 752-4497

M E M O R A N D U M

Date: October 19, 2015
To: Water Right File 15-7268
From: Scott Bergendorf
Re: Field Exam Visit

On September 1, 2015, I conducted a field exam for water right permit 15-7268 in the name of Gordon Smith. The location of the point of diversion was found to be at the GPS coordinates N 42.205, W 112.249 with the well tag number of D0050931. The well has a submersible pump and wiring for a portable generator. At the time of the exam there was not a generator at the location. The well is connected to a plastic hose that is approximately 10 feet long.

At the time of the exam I could find no evidence that the well has ever been connected to the 40 acre place of use irrigation system consisting of wheel lines and hand lines. The well is about 60 feet from the nearest mainline with no other connections to the well other than the 10 foot plastic hose.

System currently uses surface water irrigation and there is no evidence that permit 15-7268 was ever used to irrigate the property.