

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7373

Exam Date: 8/20/2020

1. Current Owner:
MARCENE L WILLIAMS 2643 W SAMARIA RD MALAD ID 83252 OR
THOMAS C WILLIAMS 2643 W SAMARIA RD MALAD ID 83252
2. Accompanied by: Marcene Williams
Phone No: 208 766 8682
Address: 2643 W SAMARIA RD MALAD ID 83252
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Visual confirmation of water discharging from the well.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap
Overlaps with Samaria Irrigation Company shares and statutory claims 15-7349 and 15-7352. Applicant uses the other sources of water on the land. Because of their Claim status, 15-7349 and 15-7352 are not included in combined limits.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SW¼ NE¼, Sec. 25, Twp 15S, Rge 35E, B.M. ONEIDA County

Method of Determination: ArcMap aerial photography.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15S	35E	24													20.0	2.0	25.0	38.0	85.0
15S	35E	25	37.0	37.0	2.5	13.0	1.5												91.0
15S	36E	19										6.5 L3	2.5 L4						9.0

Total Acres: 185.0

Method of Determination: Meeting with appropriator and aerial photography.

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. Well Information

125 HP motor, open discharge into ditch.

D. FLOW MEASUREMENTS/CALCULATIONS

See attached surface water flow measurement information. Discharge of 2.68 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 185 \times 3.5 = 647.5 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.51 \times 214 \times 1.9835 = 1065.4 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 647.5 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

One pump, open discharge to a ditch to flood irrigation. Land slopes very slightly to the SE, but ditch can be blocked off so that water flows NW to the service area.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
IRRIGATION	04/01 to 10/31	2.51 CFS	

Totals: 2.51 CFS

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 Cooper Fritz - Water Resource Agent, Senior

Field Examiner's Name Cooper Fritz Date 10/8/2020

Reviewer _____ Date _____

Discharge Measurement Summary

Date Generated: Fri Sep 25 2020

File Information

File Name 1573732.WAD
Start Date and Time 2020/08/10 10:04:34

Site Details

Site Name
Operator(s) CFR.ITZ

System Information

Sensor Type FlowTracker
Serial # P5851
CPU Firmware Version 3.9
Software Ver 2.30
Mounting Correction 0.0%

Units (Metric Units)

Distance m
Velocity m/s
Area m²
Discharge m³/s

Discharge Uncertainty

Category	ISO	Stats
Accuracy	1.0%	1.0%
Depth	0.6%	2.7%
Velocity	3.0%	8.1%
Width	0.2%	0.2%
Method	2.8%	-
# Stations	3.3%	-
Overall	5.4%	8.6%

Summary

Averaging Int. 40 # Stations 15
Start Edge LEW Total Width 2.743
Mean SNR 53.0 dB Total Area 0.295
Mean Temp 13.86 °C Mean Depth 0.107
Disch. Equation Mid-Section Mean Velocity 0.2581
Total Discharge 0.0760

Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	10:04	3.66	None	0.061	0.0	0.0	0.0000	1.00	0.0311	0.009	0.0003	0.4
1	10:04	3.35	0.6	0.061	0.6	0.024	0.0311	1.00	0.0311	0.019	0.0006	0.8
2	10:05	3.05	0.6	0.061	0.6	0.024	-0.0045	1.00	-0.0045	0.019	-0.0001	-0.1
3	10:06	2.74	0.6	0.067	0.6	0.027	0.0819	1.00	0.0819	0.015	0.0013	1.7
4	10:08	2.59	0.6	0.116	0.6	0.046	0.1785	1.00	0.1785	0.018	0.0032	4.1
5	10:10	2.44	0.6	0.128	0.6	0.051	0.4248	1.00	0.4248	0.020	0.0083	10.9
6	10:11	2.29	0.6	0.134	0.6	0.054	0.4914	1.00	0.4914	0.020	0.0100	13.2
7	10:12	2.13	0.6	0.168	0.6	0.067	0.3623	1.00	0.3623	0.026	0.0093	12.2
8	10:13	1.98	0.6	0.165	0.6	0.066	0.3725	1.00	0.3725	0.025	0.0093	12.3
9	10:14	1.83	0.6	0.183	0.6	0.073	0.6038	1.00	0.6038	0.028	0.0188	22.1
10	10:16	1.68	0.6	0.177	0.6	0.071	0.4792	1.00	0.4792	0.027	0.0129	17.0
11	10:17	1.52	0.6	0.152	0.6	0.061	0.1788	1.00	0.1788	0.023	0.0042	5.5
12	10:18	1.37	0.6	0.131	0.6	0.052	0.0007	1.00	0.0007	0.020	0.0000	0.0
13	10:19	1.22	0.6	0.116	0.6	0.046	-0.0006	1.00	-0.0006	0.026	0.0000	0.0
14	10:19	0.91	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0



E47088



MODEL	5K4030TP160120	HP	123
VOLTS	460	RPM	1780
AMP	179	POWER FACTOR	83.5
MAX. KVAR	41.0	S. F.	1.15
INS. CLASS	F	MAX. AMB.	40°C
FRAME	L405TP16	NEMA DESIGN	A
LR. AMPS	991.3	ENCL	WPI
NEMA NOM. EFF.	94.1	CODE	H
SHAFT END BRG	6314		
OPP/END BRG	7222DT		
SER. NO.	63009009	DATE CODE	BK FP
STK. NO.	V3954	WEIGHT	1495 LB
50HZ DATA	100 HP	/ 380 VOLTS	/ 143 AMPS
STANDARD EFFICIENCY VERTICAL AC MOTOR			
MADE IN TAIWAN			



NP235A3601

D34-07544

SPACE HEATER