

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7389
Exam Date: 8/6/2021

1. Current Owner:
HEIDI BURTON PO BOX 681 MILLVILLE UT 84326 AND/OR
TRAVIS BURTON PO BOX 681 MILLVILLE UT 84326
2. Accompanied by: Travis Burton
Phone No: 208 – 882 - 9999
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Visual observation of a well.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Within Samaria Lake Irrigating Company boundary but does not own shares.

Comments: _____

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

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SW¼ NE¼, Sec. 22, Twp 16S, Rge 36E, B.M. ONEIDA County

Method of Determination: GPS and 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	
16S	36E	22	4.0	13.0	39.0	16.0									19.0	31.0	34.0	24.0	180.0

Total Acres: 180.0

Method of Determination: ArcMap aerial photography

3. Attachments

- X 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
 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 Information:

150 HP "blue pump".

D. FLOW MEASUREMENTS

Measured a maximum diversion rate of 1195.61 gpm, or 2.66 cfs, with a Panametric portable flow meter.

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

Max measured diversion rate 1195.61 gpm / 448.83 gpm/cfs = 2.66 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 180 \text{ acres} \times 3.5 \text{ acre feet annually per acre} = 630.0 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.66 \times 1.9836 \times 214 = 1129.944 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 630.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

One pump to two pivots, and handlines in the four corners around the northern pivot and in the eastern corners of the southern pivot.

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>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	2.66 CFS	630.0 AF

Totals: 2.66 CFS 630.0 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 Cooper Fritz -

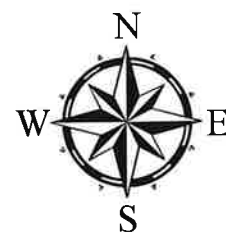
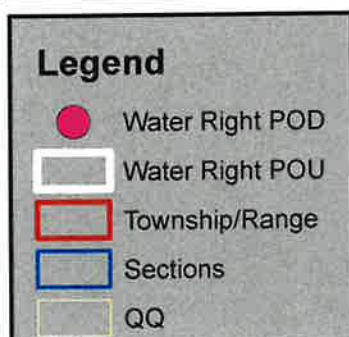
Field Examiner's Name Cooper Fritz Date 3/17/22

Reviewer _____ Date _____

15-7389 Point of Diversion and Place of Use at Licensing



2019 Imagery



0 0.075 0.15 0.3



Date/Time	300394 Ch 1 Volume gal/m	Error
1/30/2021 11:25		0 Velocity/Range
1/30/2021 11:25		0 Velocity/Range
1/30/2021 11:25		0 Velocity/Range
1/30/2021 11:25	946.9633423	Velocity/Range
1/30/2021 11:25	946.9633423	Velocity/Range
1/30/2021 11:25	936.3811248	0
1/30/2021 11:26	842.5904045	0
1/30/2021 11:26	857.4267277	0
1/30/2021 11:26	957.8328613	0
1/30/2021 11:26	968.3679	0
1/30/2021 11:26	1044.013378	0
1/30/2021 11:26	1055.532837	0
1/30/2021 11:27	1058.657789	0
1/30/2021 11:27	1142.433463	0
1/30/2021 11:27	1143.882875	0
1/30/2021 11:27	1158.34263	0
1/30/2021 11:27	1195.607466	0
1/30/2021 11:27	1165.732021	0
1/30/2021 11:28	1146.425962	0
1/30/2021 11:28	1080.686395	0
1/30/2021 11:28	1071.7979	0
1/30/2021 11:28	1070.069513	0
1/30/2021 11:28	954.0611939	0
1/30/2021 11:28	976.5309026	0
1/30/2021 11:29	990.3757244	0
1/30/2021 11:29	995.0532948	0
1/30/2021 11:29	995.2134353	0
1/30/2021 11:29	1000.1049	0
1/30/2021 11:29	999.9732653	0
1/30/2021 11:29	1000.966325	0
1/30/2021 11:30	993.658834	0
1/30/2021 11:30	996.6284815	0
1/30/2021 11:30	988.7666852	0
1/30/2021 11:30	990.5656548	0
1/30/2021 11:30	990.9681053	0
1/30/2021 11:30	1008.064828	0
1/30/2021 11:31	1036.220419	0
1/30/2021 11:31	1015.24203	0
1/30/2021 11:31	951.7237566	0
1/30/2021 11:31	958.7826816	0
1/30/2021 11:31	981.5550202	0
1/30/2021 11:31	1015.822661	Velocity/Range