

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 29-13355

Exam Date: 12/16/2014

1. Current Owner: SLATE MOUNTAIN WATER USERS ASSN
9727 W BIGHORN DR
POCATELLO ID 83204
(208)234-0677
2. Accompanied by: Dean and Peggy Perry
Phone No: 208-234-0677
Address: 9727 W. Bighorn Drive
Relationship to Permit Holder: Sec/Treasurer

3. **SOURCE** **TRIBUTARY**
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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L2 (SW1/4NW1/4) Sec. 30, Twp 07S, Rge 35E, B.M.
BANNOCK County

Method of Determination: GPS and aerial photography

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<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>	
07S	35E	30							X	X									
									L 2										

Method of Determination: Aerial photography and field inspection.

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 or Diversion**ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge
Size**

5.0

D. FLOW MEASUREMENTS

1. Unable to measure with flowmeter

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Flow calculation is based on the Departments domestic flow measurement chart.

In-house use for 7 homes = 0.12 cfs

 $\frac{1}{2}$ acre of irrigation per lot at 0.02 cfs/acre.

7 lots X 0.5 acres/lot X 0.02 cfs = 0.07 cfs/acre

Q = 0.19 cfs.

Water right permit is for 0.13 cfs. This permit will be licensed for 0.13 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{N/A}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{N/A}$$

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

2. Volume Calculations for Other Uses:

In-house use: 7 homes X 0.6 acre-feet/home = 4.2 acre-feet

 $\frac{1}{2}$ acre irrigation/lot: 7 lots X 0.5 acres/lot X 2.7 acre-feet/acre (CIR for turf grass) = 9.5 acre-feet

Total volume = 13.7 acre-feet

G. NARRATIVE/REMARKS/COMMENTS

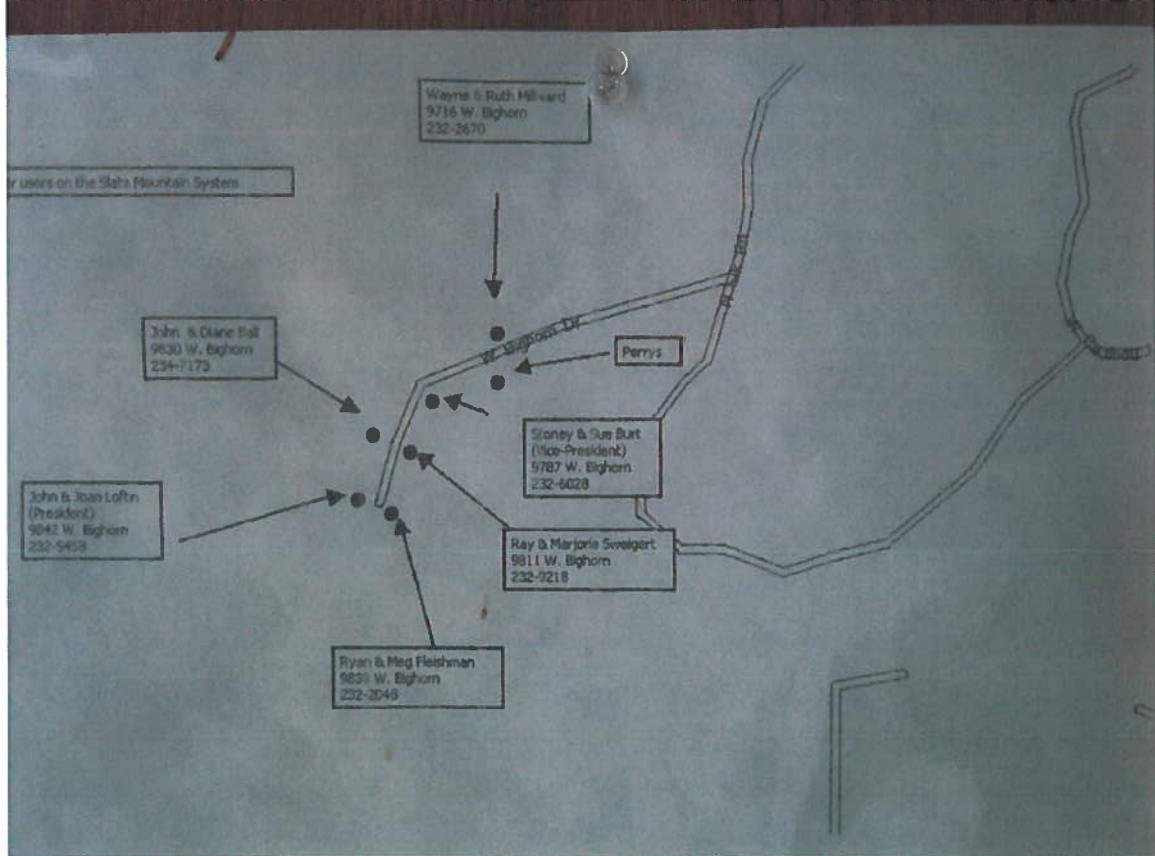
Five horse power pump diverts water to a storage tank on a hill and then water is delivered from the storage tank to 7 homes.

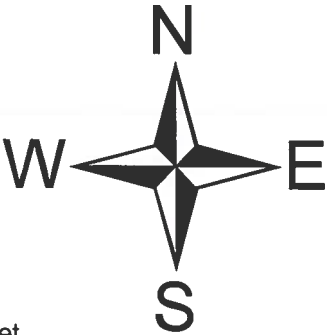
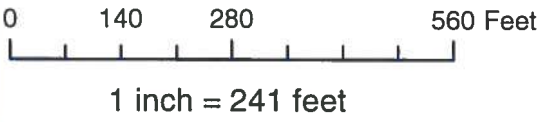
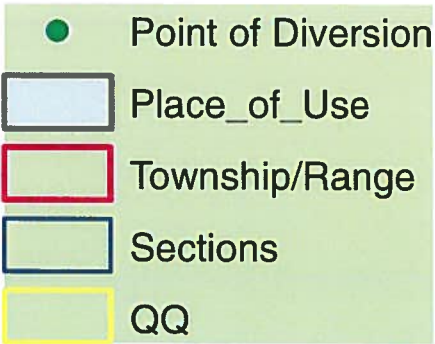
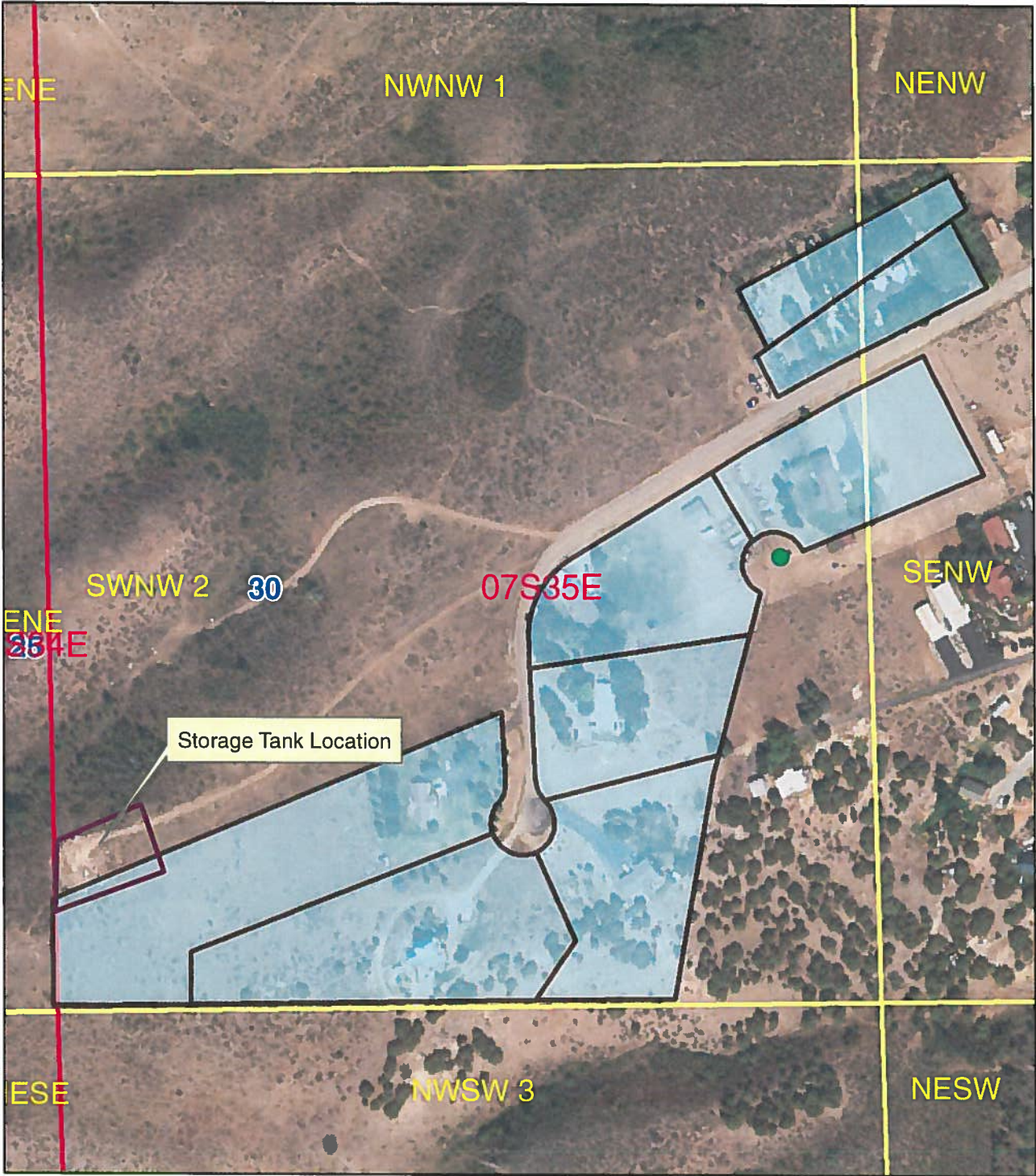
Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.130 CFS	13.70 AF
<u>Totals:</u>		0.130 CFS	13.70 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 Blake Jordan Date 12/17/2014

Reviewer _____ Date _____





ET_{Idaho} 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu Copyright 2012, University of Idaho.

McCammon (NWS -- 105716)

Statistics based on thirty year normal spans 1950 to 2007 years

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Grass - Turf (lawns) - Irrigated															
Precipitation Deficit (Click here for a graph)															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b	Annual
Mean ^j	mm/day												mm		
Monthly ^c	-0.11	0.05	0.11	0.92	3.53	5.61	6.45	5.20	3.98	1.39	-0.44	-0.32	826	-17	811
15-Day Moving Average ^d	-0.14	0.05	0.12	0.87	3.66	5.76	6.58	5.18	3.81	1.33	-0.58	-0.30			
7-Day Moving Average ^e	-0.11	0.05	0.10	0.88	3.61	5.67	6.51	5.21	3.89	1.32	-0.50	-0.30			
3-Day Moving Average ^f	-0.11	0.05	0.11	0.88	3.54	5.62	6.46	5.21	3.95	1.36	-0.47	-0.31			
Standard Deviation ^k	mm/day												mm		
Monthly ^c	0.58	0.13	0.23	0.69	1.76	1.09	1.01	1.22	0.97	1.61	0.45	0.58	111	26	118
15-Day Moving Average ^d	0.64	0.24	0.33	0.84	1.70	1.32	0.87	1.15	1.49	1.55	0.68	0.60			
7-Day Moving Average ^e	0.72	0.44	0.53	1.15	2.28	1.93	1.26	1.53	1.89	2.03	1.08	0.78			
3-Day Moving Average ^f	0.87	0.82	0.89	1.73	3.14	2.70	1.92	2.22	2.58	2.60	1.58	1.13			
20% Exceedance ^l	mm/day												mm		
Monthly ^c	0.03	0.12	0.18	1.43	4.74	6.49	6.88	5.90	4.87	2.23	-0.11	0.01	927	4	924
15-Day Moving Average ^d	0.14	0.27	0.57	2.21	5.88	7.45	7.50	6.50	5.70	4.03	0.37	0.15			
7-Day Moving Average ^e	0.35	0.48	0.87	3.09	7.10	8.19	8.04	7.17	6.15	5.00	0.66	0.34			