

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13249

Exam Date: 8/28/2014

1. Current Owner: HIGHLAND MEADOWS PUD SUBDIVISION HOMEOWNERS ASSN INC
PO BOX 1554
DRIGGS ID 83422
(208) 360-6670

2. Accompanied by: Fred Johnson

Phone No: 208-360-3317

Address:

Relationship to Permit Holder: Highland Meadows HOA President

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 22-14006
2. Other water rights with the same point of diversion: 22-14006

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

GROUND WATER	SW1/4SW1/4	Sec. 10,	Twp 05N,	Rge 45E, B.M.
TETON County				
GROUND WATER	NE1/4SW1/4	Sec. 10,	Twp 05N,	Rge 45E, B.M.
TETON County				

Method of Determination: GPS and aerial photography

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	45E	10									X	X	X	X					

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	45E	10									X	X	X	X					

Method of Determination: GPS 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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
D0035757		30		Gould	
D0035758		10		Berkley	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Installed Flowmeters						

2. Measurements:

A ten minute flowmeter reading was performed at both locations. Both wells are controlled by pressure tanks. Open discharge valve was opened in an attempt to keep water flowing at the highest flow rate possible.

D0035757 (North Well) 92 gpm or .21 cfs.

D0035758 (South Well) 90 gpm or .20 cfs.

Combined flow rates = .41 cfs

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

Combined Measured Maximum Instantaneous Flow = .41CFS

Rate Requirements (in CFS) were calculated using the "Maximum Instantaneous Water Requirements for Domestic Use" chart. This method allows for a flow rate of .23 CFS for 26 homes, and an additional .02 CFS per acre of domestic irrigation (13 acres) which provides a total of .49 CFS flow rate. Wells can only produce .41 CFS and therefore will be restricted to .41 CFS.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses: **61 AF****-Domestic Irrigation**

$$26 \text{ (lots limited to .5 acres)} \times 3.5 \text{ AF/acre} = 45.5 \text{ AF}$$

-In-House

$$26 \text{ (lots with hook ups)} \times .6 \text{ AF} = 15.5 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

System runs off two wells with submerged pumps at 10hp and 30hp. Domestic use is for 26 lots with water connections and ½ acre of irrigation.

Water right 22-13249 will be combined with water right 22-14006 and be limited to the combined use of .41 cfs, 68 acre feet, and 29 single family 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	0.410 CFS	61.00 AF
FIRE PROTECTION	01/01 to 12/31	0.410 CFS	
<u>Totals:</u>		0.410 CFS	61.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

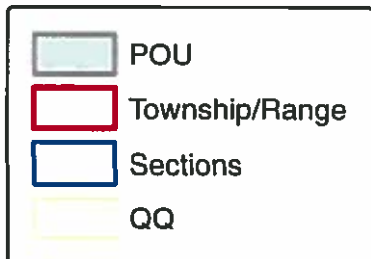
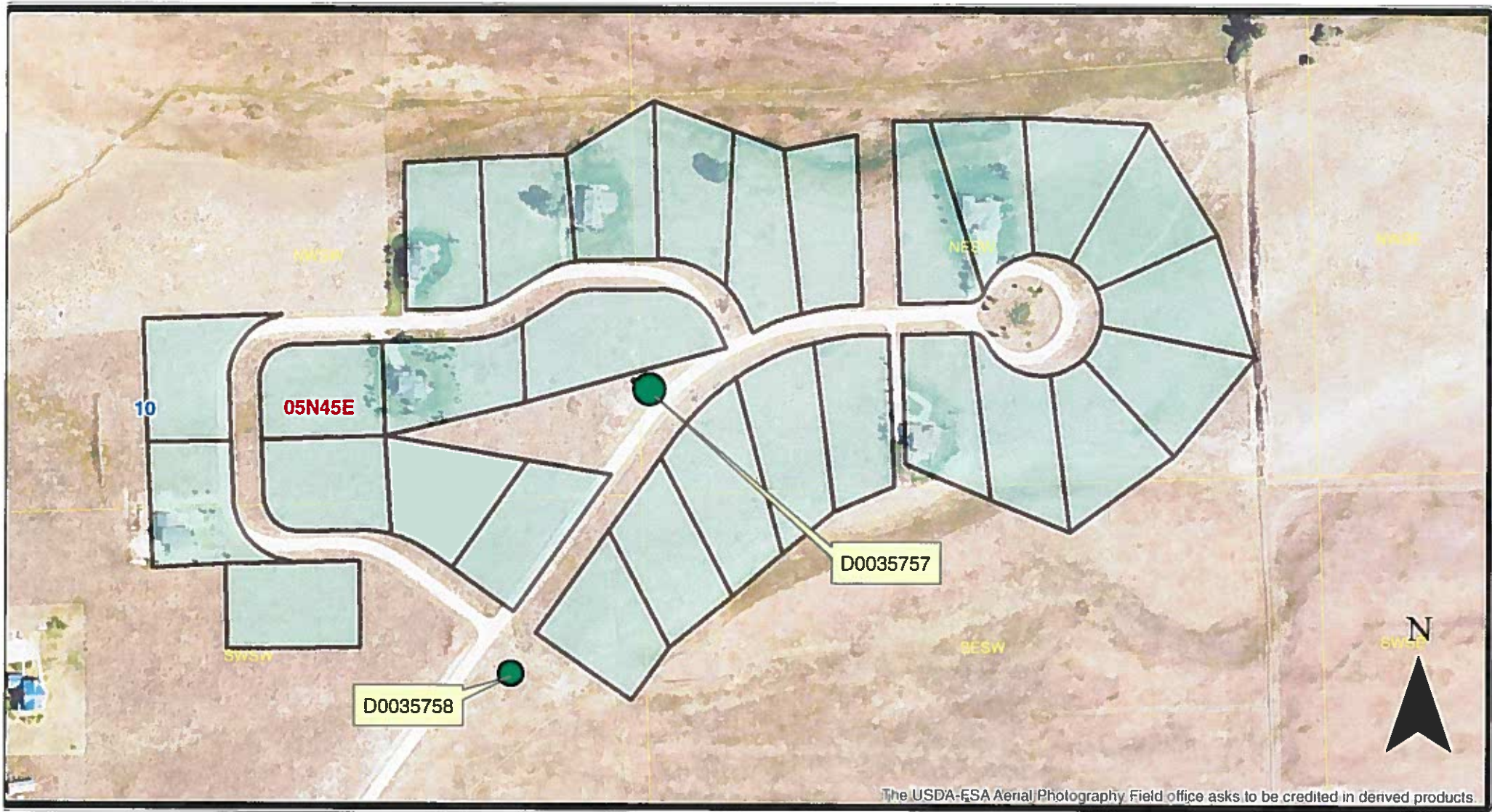
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Scott Boyce Date 6/1/15

Reviewer _____ Date _____

Water Right License 22-13249



Teton County
IDWR Basin 22

Idaho Department of Water Resources
Prepared by Scott Bergendorf
2013 Aerial photography



