

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-7786

Exam Date: 9/4/2012

1. Current Owner: TETON CREEK RESORT LLC
C/O TAMARA ALBRECHT
PO BOX 3010
JACKSON WY 83001-3010
(307)733-6408
2. Accompanied by: Jared Gunderson (Director of Public Works, Driggs)
Phone No: 208-354-2362
Address:
Relationship to Permit Holder: City of Driggs is new owner of Well and Jared works for the city.

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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE1/4SW1/4 Sec. 20, Twp 05N, Rge 46E, B.M.
TETON County

Method of Determination: GPS and Aerial Photography

2.

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	46E	20		X	X						X					X			

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	46E	20		X	X						X					X			

PLACE OF USE: COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
05N	46E	20	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
				X	X														

Method of Determination: Aerial Photography, GPS

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

<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 Size</u>
A0015867	Submerged	75			

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

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Portable Flowmeter	FSC		Fuji	S10A1-00Y	A0L5539T	3/30/2012

2. Measurements: A ten minute flow reading was performed. Maximum instantaneous flow rate was 558.9 gpm or 1.25 cfs. Pressure was at 55 PSI.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Portable flowmeter.

Measured flow at 1.25 cfs. (Maximum flow rate)

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation: No 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:**- Domestic Irrigation**

$$6 \text{ acres (total irrigated land on finished lots)} \times 3.5 \text{ AF/acre (Irrigation requirement)} = 21 \text{ AF}$$

$$10(\text{unfinished lots limited to .5 acre}) \times 3.5 \text{ AF/acre} = 17.5 \text{ AF}$$

$$21 + 17.5 = 38.5 \text{ total AF for Domestic Irrigation}$$

- In-house

$$20 \text{ (finished homes)} \times (.6 \text{ AF}) = 12 \text{ AF}$$

$$10 \text{ (assumed homes w/ hookups)} \times (.6 \text{ AF}) = 6 \text{ AF}$$

$$12 + 6 = 18.0 \text{ AF for In-house use}$$

- Commercial

$$4 \text{ (lodges)} \times (.6 \text{ AF}) = 2.4 \text{ AF Commercial Use}$$

G. NARRATIVE/REMARKS/COMMENTS

System runs a 75 HP submerged pump which sits in a well house. Only 1 POD is utilized for domestic, commercial, and fire protection purposes. This POD (A0015867) is located in the NESW of 5N, 46E, Section 20. This POD is now used as part of the City of Driggs water delivery system.

Domestic use is for 20 town homes, and 10 unfinished lots with water connection.

56.5 AF will be provided to the finished and unfinished lots for irrigation for domestic and in-house use.

Commercial use is for 4 lodges.

Rate requirements (in CFS) were calculated using the "Maximum Instantaneous Water Requirements for Domestic Use" chart. This method allows for a flow rate of .25 CFS for 30 homes, and an additional .02 CFS per acre of domestic irrigation (11 acres) which provides a total .47 CFS flowrate.

Well (D0004217), located in the NWNE of 5N, 46E, Section 20, was originally drilled to provide water for commercial purposes. This well is no longer used.

Well (D0004215), located in the NWNE of 5N, 46E, Section 20 was used for domestic purposes but is now used to provide water to a pond system. This diversion is being removed from the water right.

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>
FIRE PROTECTION	01/01 to 12/31	1.250 CFS	
DOMESTIC	01/01 to 12/31	0.560 CFS	56.5 AF
COMMERCIAL	01/01 to 12/31	0.160 CFS	2.4 AF
	<u>Totals:</u>	1.250 CFS	58.9 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 Byrd Date 6-9-13

Reviewer _____ Date _____



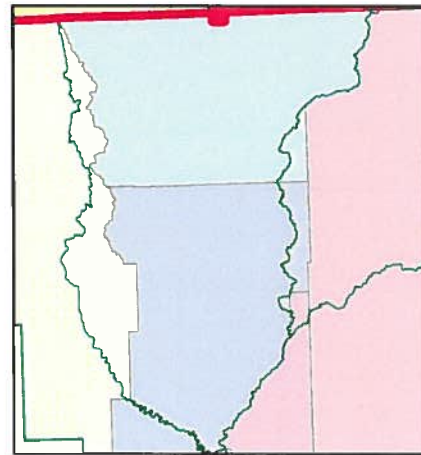
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9/4/2012 9:55	4.505	509.97	115337	9/4/2012 10:01	4.894	554.023	118290.8
9/4/2012 9:55	4.375	495.269	115421.1	9/4/2012 10:01	4.908	555.672	118383.4
9/4/2012 9:56	4.851	549.123	115511.3	9/4/2012 10:01	4.892	553.784	118472.2
9/4/2012 9:56	4.909	555.771	115603.5	9/4/2012 10:01	4.881	552.604	118566.6
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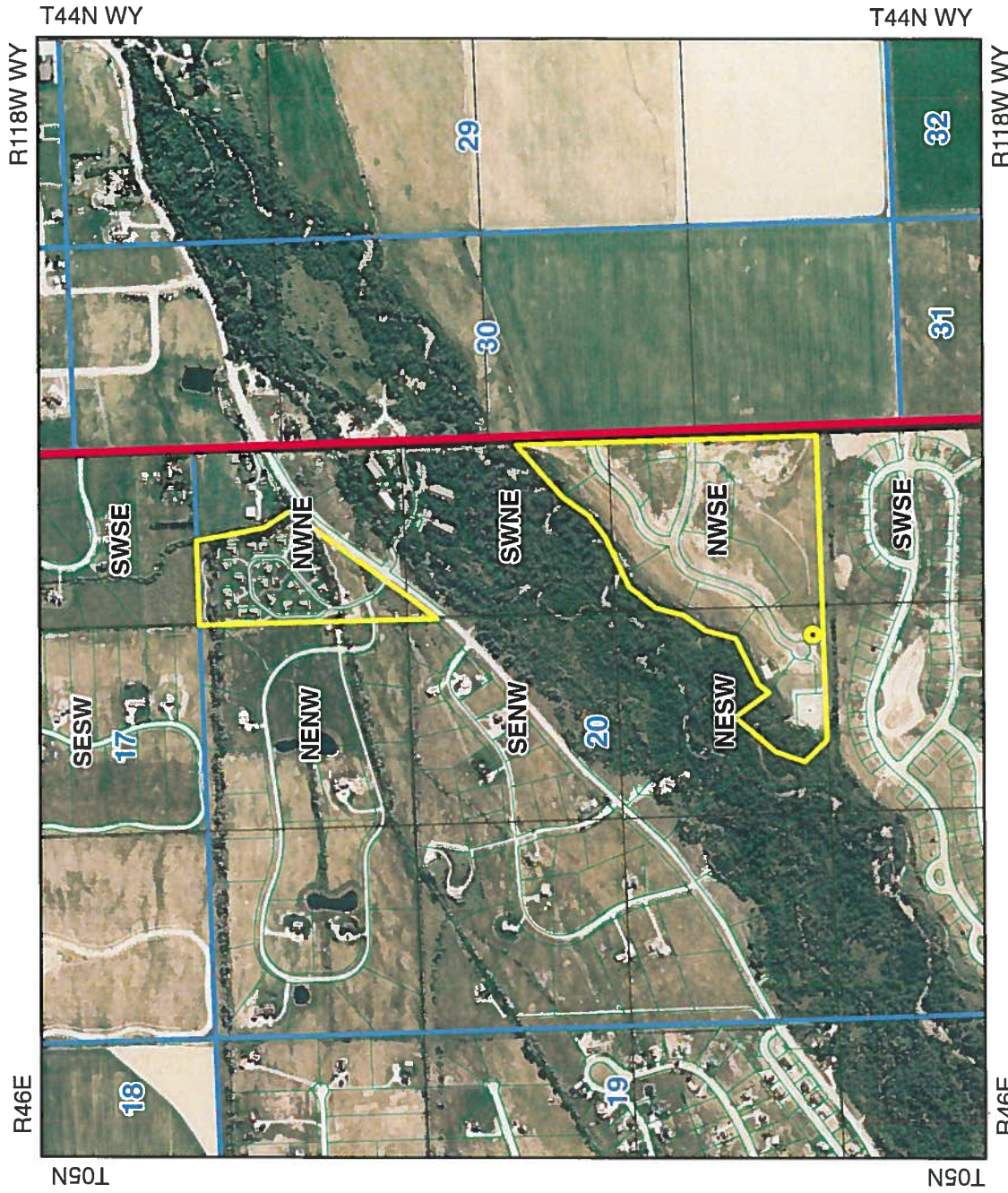
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Water Right
22-7786
(DOMESTIC)

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters
- Taxlots



Teton County
IDWR Basin 22



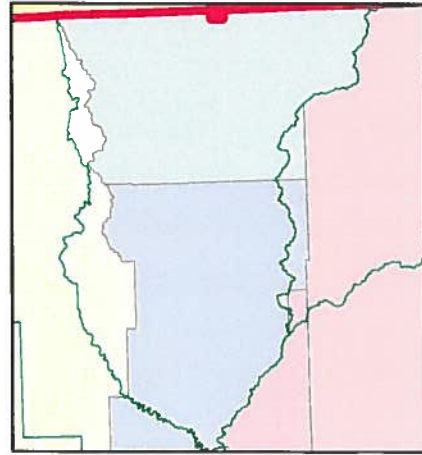


Idaho Department of Water Resources

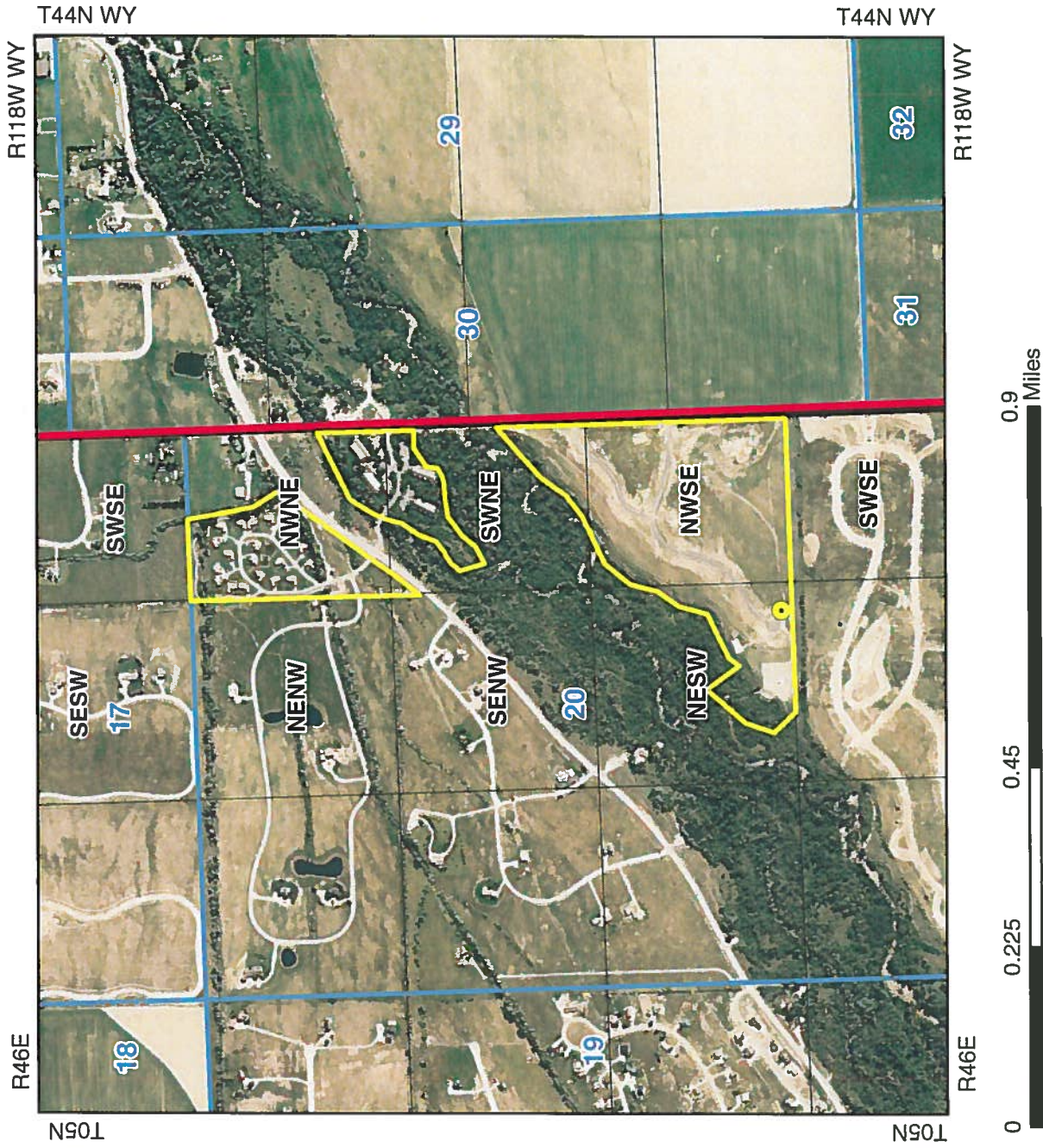
Water Right
22-7786

(FIRE PROTECTION)

-  Point of Diversion
-  Place of Use
-  State Outline
-  Townships
-  PLS Sections
-  Quarter Quarters



Teton County
IDWR Basin 22

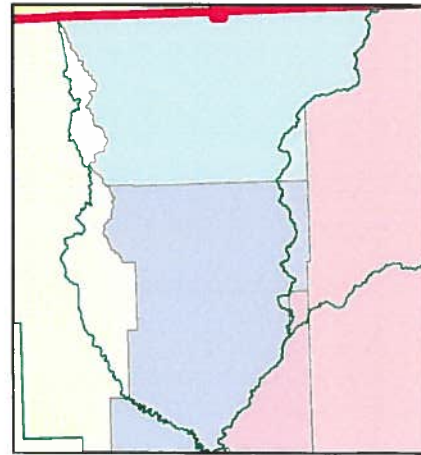




Idaho Department of Water Resources

Water Right
22-7786
(COMMERCIAL)

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Teton County
IDWR Basin 22

