

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16687
Exam Date: 9/19/2017

1. Current Owner:

MARLENE J BOLEN
9190 AQUARIUS ST
BOISE ID 83709

(208) 362-9043

2. Accompanied by: Marlene Bolen

Phone No: 208-362-5280(work), 208-362-9043(home)

Address: Same as above

Relationship to Permit Holder: Permit holder

3. **SOURCE:**

GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 72-7433 is a domestic right on the same property for RV hookups
2. Other water rights with the same point-of-diversion: 72-7433 is also diverted from same well

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

GROUND WATER L5 (NE¼SW¼) Sec. 28, Twp 11N, Rge 17E, B.M. CUSTER County

Method of Determination: Site visit, aerial imagery, and Google Earth Street View

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11N	17E	28								0.1 L 5	1.3 L 5								1.4

Total Acres: 1.4

Method of Determination: ArcMap aerial imagery and site visit

3.

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 1:24,000 or greater.

 x Aerial Photo Attached (required for irrigation of 10+ acres).

 x 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
	Gould	3	Per 1992 field exam		

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: No measurement necessary per revised Beneficial Use Exam Rules.

E. FLOW CALCULATIONS

Measured Method: Since acres have been reduced from permitted acres, the flow rate is also reduced. Small acreages under 5 acres are allowed 0.03 cfs/acre for flow rate. The 1.4 acres of irrigation are allowed $1.4 \times 0.03 = 0.04$ cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

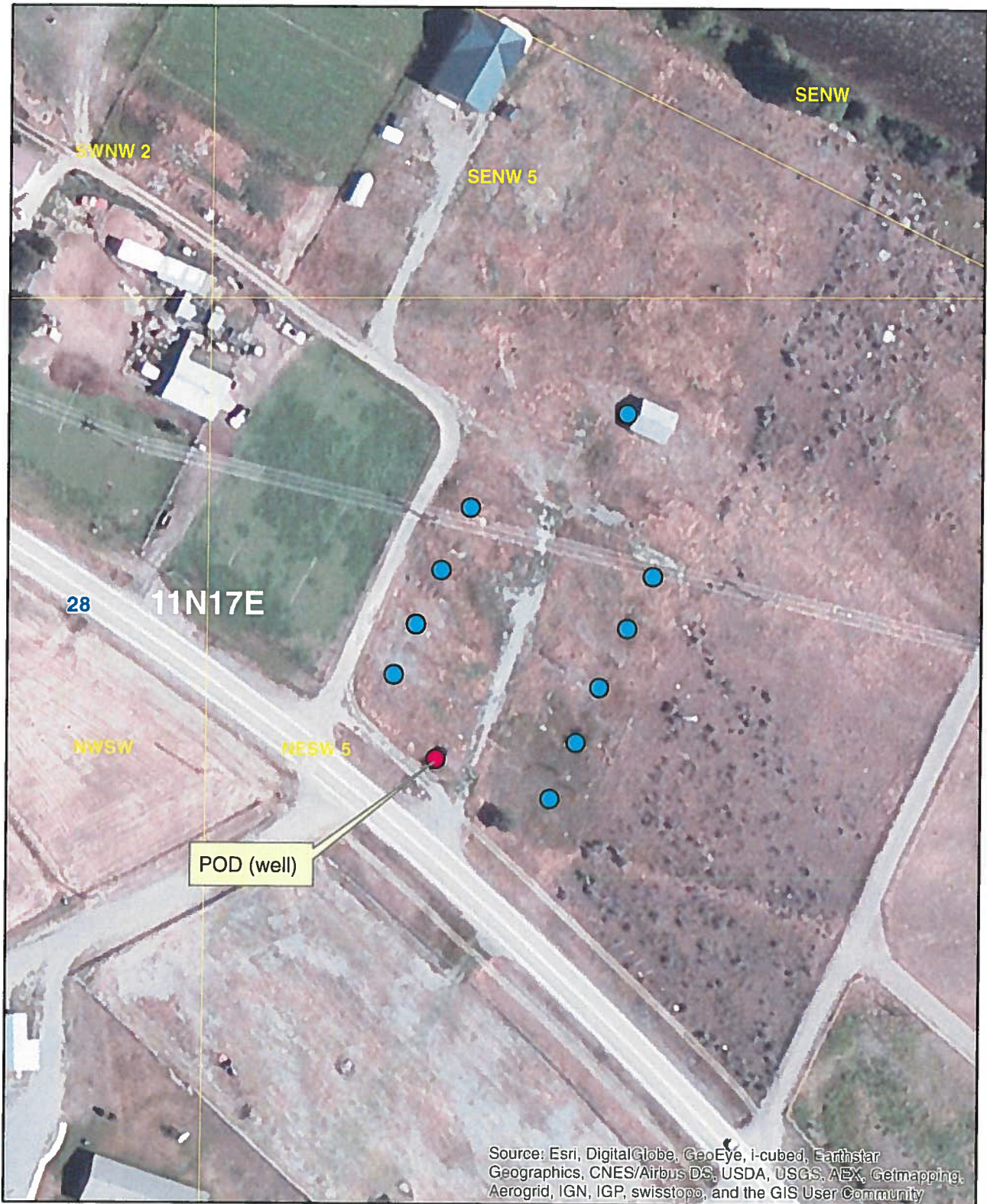
$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ acres} \times 3.5 \text{ AF/acre} = 4.9 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ cfs} \times 214 \text{ days} \times 1.9835 \text{ AF/day} = 17.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 4.9 \text{ AF}$$

2. Volume Calculations for Other Uses: NA

72-16687 System Diagram



Legend

- Township/Range
- Sections
- QQ
- Faucets and Hydrants



0 0.01 0.02 0.04 Miles



Well head near pump house

Plumbing inside pump house





Hydrant near old house

Spigots in irrigated grass area





Sprinklers on irrigated portion of property





Sprinklers on the Bolen property



Field Exam 72-16687



Irrigated grass on the Bolen lot



Field Exam 72-16687