STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-17616
Exam Date: 04/29/2025

1. Current Owner:
   ROCKLEDGE ESTATES HOA INC 1200 OVERLAND AVE BURLEY ID 83318

2. Accompanied by: Tom Staples
   Phone No: (208) 207-3600
   Relationship to permit Holder: Rockledge Estates Resident & Caretaker

3. **SOURCE:**
GROUND WATER

Method of Determination: ArcMap and Field Exam Observation

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 NE¼ SE¼ SE¼, Sec. 15, Twp 10S, Rge 18E, B.M. TWIN FALLS County
GROUND WATER NE¼ SE¼ SE¼, Sec. 15, Twp 10S, Rge 18E, B.M. TWIN FALLS County

Method of Determination: **ArcMap and Field Exam Observation**

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
10S	18E	15													X			X	

Method of Determination: **ArcMap and Field Exam Observation**

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
__X__ 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
__X__ 1:24,000 or greater.

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

__X__ Photo of Diversion and System Attached

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Portable Flowmeter	Polysonic	General Electric	PT878	09045		April 2025

2. Measurements: **Demand load of 286.0 gallons per minute**

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Please see attached computation sheet

F. VOLUME CALCULATIONS

Please see attached computation sheet

G. NARRATIVE/REMARKS/COMMENTS

On April 29, 2025 I performed a field exam for Domestic permit 47-17616 (0.36 cfs/34.8 AF) at a subdivision located near the intersection of Highway 50 and 3700 East in Hansen. This permit was authorized for the development of a distribution system, using two new wells, for delivering in-house culinary water (with no irrigation of any kind) to 58 homes. The subdivision is known as the Rockledge Estates Subdivision and is owned by the Rockledge Estates HOA Inc. A private pressurized irrigation system, using available surface water, is used to irrigate lot owners' lawns plus the subdivision common areas. Tom Staples, a Rockledge Estates HOA member, showed me the developed system.

The two wells (east well and west well) and a pumphouse are located on the east side of the subdivision. Both wells are approximately 30 feet apart and are approximately 50 feet east of the pumphouse. The wells have variable-demand pumps that work in tandem to supply water to the pumphouse. The system is designed so that neither well ever runs at full capacity. When demand for water from the "east" well reaches 60% capacity, the "west" well kicks in to accommodate the extra load. Inside the pumphouse, the two water lines from the wells have two IDWR-approved meters manufactured by Master Meter (Octave model). Downstream from the two meters, water is co-mingled and distributed to the subdivision utilizing two pressure tanks to modulate water pressure. I used a GE Panametrics Model PT878 portable flow meter to measure the co-mingled water flow. A demand was placed on the system and a flow rate of 286.0 gallons per minute (0.63 cfs) was recorded.

Although the permit was approved for 58 homes, the subdivision has a total of 59 lots that are a combination of lots with existing homes, plus vacant stubbed-in lots. When development of the subdivision first began, two homes were built before the distribution system was complete and

operational. Consequently, the two homes each have a private domestic well for domestic water use and neither home is connected to the subdivision distribution system. On the day of the exam the developed distribution system was connected to a total of 50 existing homes and 7 stubbed-in lots, which means there are a total of 57 possible service connections (one less than what was authorized on the permit).

Conditions of the permit have been complied with, and I recommend licensing 47-17616 for **0.36 cfs and 34.2 AF for 57 homes.**

Have conditions of permit approval been met? __X__ Yes ____ No

34.2 AF
A.S.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
DOMESTIC	01/01 to 12/31	0.35 CFS	33.6 AF
	Totals:	0.35 CFS	33.6 AF

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above __X__ None

____ Change P.U. as reflected above ____ Add P.U. as reflected above __X__ None

I. AUTHENTICATION

Kent Aasa - Water Resource Agent, Senior

Field Examiner's Name _____ Date _____

Reviewer _____ Date 5/25/2025

Flow and Volume Calculations for 47-17616 Field Exam

Flow Calculations

Field Exam flow rate measurement: **286.0 gpm**

286.0 gpm / 448.83 gpm per cfs = 0.637 or **0.64 cfs**

Permit 47-17616 is authorized for a flow rate of 0.36 cfs and the field exam measurement indicates the system easily produces the permitted rate of 0.36 cfs for 58 homes. However, 2 homes have private domestic wells and are not connected to the system, so the system services a potential total of 57 homes[1].

Permitted flow rate per home: 0.36 cfs/58 homes = **0.006206897 cfs per home** which means each home is permitted a flow rate of *less than 0.01 cfs*.

1 home (not connected to the system) x 0.006206897 cfs = *less than .01cfs* to be subtracted from the permitted of 0.36 cfs. So: I recommend no change to the flow rate of **0.36 cfs.**

Volume Calculations

Permit 47-17616 was permitted for a volume of 34.8 AF for 58 homes (based on the IDWR standard of 0.6 AF per year per home for in-house culinary use).

Calculation: 1 home (not connected to the system) x 0.6 AF = 0.6 AF to be subtracted from 34.8 AF on the permit.

So: 34.8 AF – 0.6 AF = **34.2 AF**

License amounts: **0.36 cfs and 34.2 AF**

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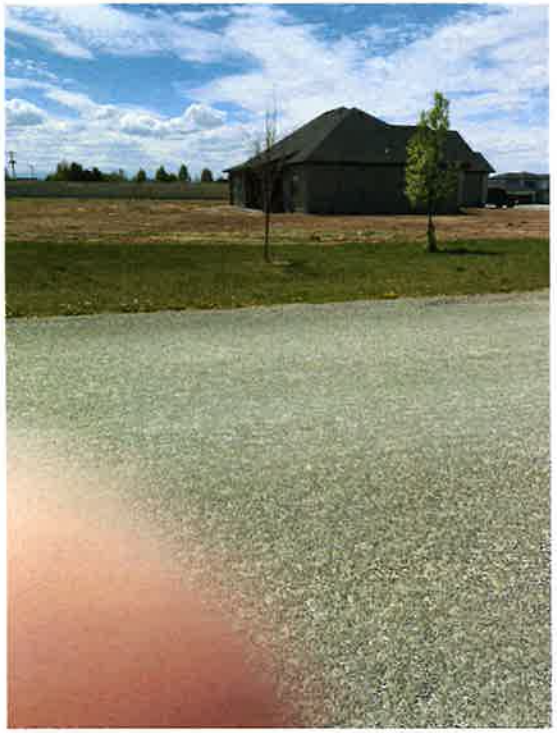
[1] On the day of the field exam there were 50 existing homes, and seven stubbed-in vacant lots connected to the system. When the subdivision is fully built out, the system will service a total of 57 homes.

47-17616 POD's

Field Exam 47-17616

47-17616 POU



Field Exam 47-17616

System inside pumphouse

Field Exam 47-17616

47-17616

Field Exam 47-17616

Common Area Irrigation from separate pressurized irrigation system

Field Exam 47-17616

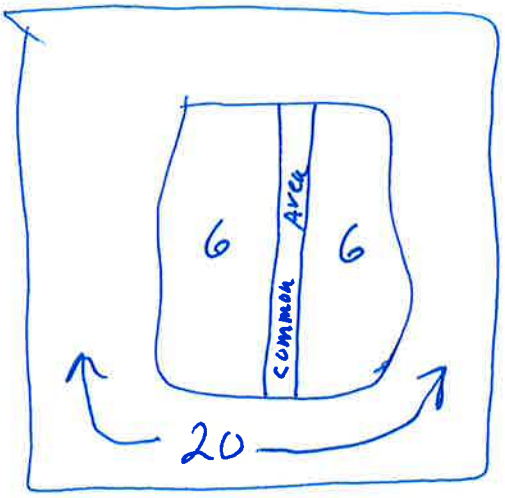
47-17616 Separate
Surface Water Irrigation

Field Exam 47-17616

State of Idaho
Department of Water Resources

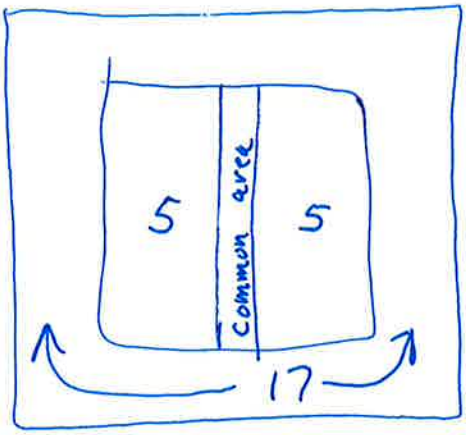
Water Right

47-17616
Domestic for 57 homes



25 homes
+ 7 stubbed-in lots

32 connections



27 homes total
- 2 homes w/own wells

25 connections

TOTAL of 59 lots
- 2

57 lots
connected/connections

2 lots are not connected to system

Field notes Map

V= vacant stubbed-in lots

H= Homes built since date of imagery

47-17616