

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 79-14186
Exam Date: 06/13/2018

1. Current Owner:
TEN PLUS INC 111 SUMMERBREEZE LN GRANGEVILLE ID 83530-5350 AND
SUMMER BREEZE SUBDIVISION HOMEOWNERS ASSN 111 SUMMERBREEZE LN GRANGEVILLE ID
83530-5350

2. Accompanied by: Lindsey Cooley
Phone No: (208) 989-2648
Address: same as above
Relationship to permit Holder: Secretary of Homeowner Assn.

3. **SOURCE:**
GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

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

GROUND WATER NE¼ SE¼ SW¼, Sec. 27, Twp 30N, Rge 02E, B.M. IDAHO County

Method of Determination: Maps and GPS. POD located at -116°11.629, 45°54.357. Well D0045018.

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	
30N	02E	27												X					

Method of Determination: Arcmap and tax lot data.

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
D0045018	Franklin	3			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: Unable to perform flow measurement because system pumped directly into storage tank.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Theoretical pumping equation estimates flow at 0.05 cfs. See attached theoretical pumping equation worksheet.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$

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

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

2. Volume Calculations for Other Uses:

Domestic use with up to ½ acre of irrigation = 1.2 af.

8 homes \times 1.2 af = 9.6 af.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed with the HOA secretary, Lindsey Cooley, showed a well being used for domestic purposes. The well, D0045018, has a 3 HP pump which diverted water into a 3,000 gallon storage tank. I was unable to perform a flow measurement because water was diverted directly into storage tank with no proper place to perform measurement. Theoretical pumping equation was used to estimate a flow rate of 0.05 cfs. The pump was estimated to be 295 feet down and the system running at 50 psi (equation attached).

The applicant only applied for a diversion rate of 0.04 cfs for domestic uses, and a rate of 0.08 cfs for irrigation uses. Because this was a subdivision and only three homes were built at time of statement of completion, the license will be changed to domestic with up to ½ acre of irrigation per home. All lots were stubbed-in at time of beneficial use and additional homes had been built since statement of completion was submitted. When application was applied for, there was no option to apply for up to a ½ acre of irrigation in association with multiple domestic uses. The applicant had applied for more than enough irrigation to account for ½ acre being covered under the domestic use. The license will be changed to domestic only, and irrigation will be removed from the license. The theoretical pumping equation estimates diversion rate might exceed the rate applied for domestic uses. The maximum rate that can be given for domestic is 0.04 cfs. The diversion rate for domestic use will be licensed for 0.04 cfs and an annual volume of 9.6 af (8 homes x 1.2 af).

Conditions 046 and R62 were removed from license. Condition 132 was modified to X04 because the irrigation component was removed. Condition 187 was added to account for up to ½ acre of irrigation per lot. Condition X59 was added to describe the POD lot. Water right 79-10126 is identified in the same 40 acre tract, but is actually located south of the subdivision. There are no overlap concerns.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	9.6 AF
<u>Totals:</u>		0.04 CFS	9.6 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

Luke Bates - Water Resource Agent

Field Examiner's Name Adam F. [Signature] Date 3/20/2020
 Reviewer [Signature] Date 3/20/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
79-14186

DOMESTIC system diagram

02E



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

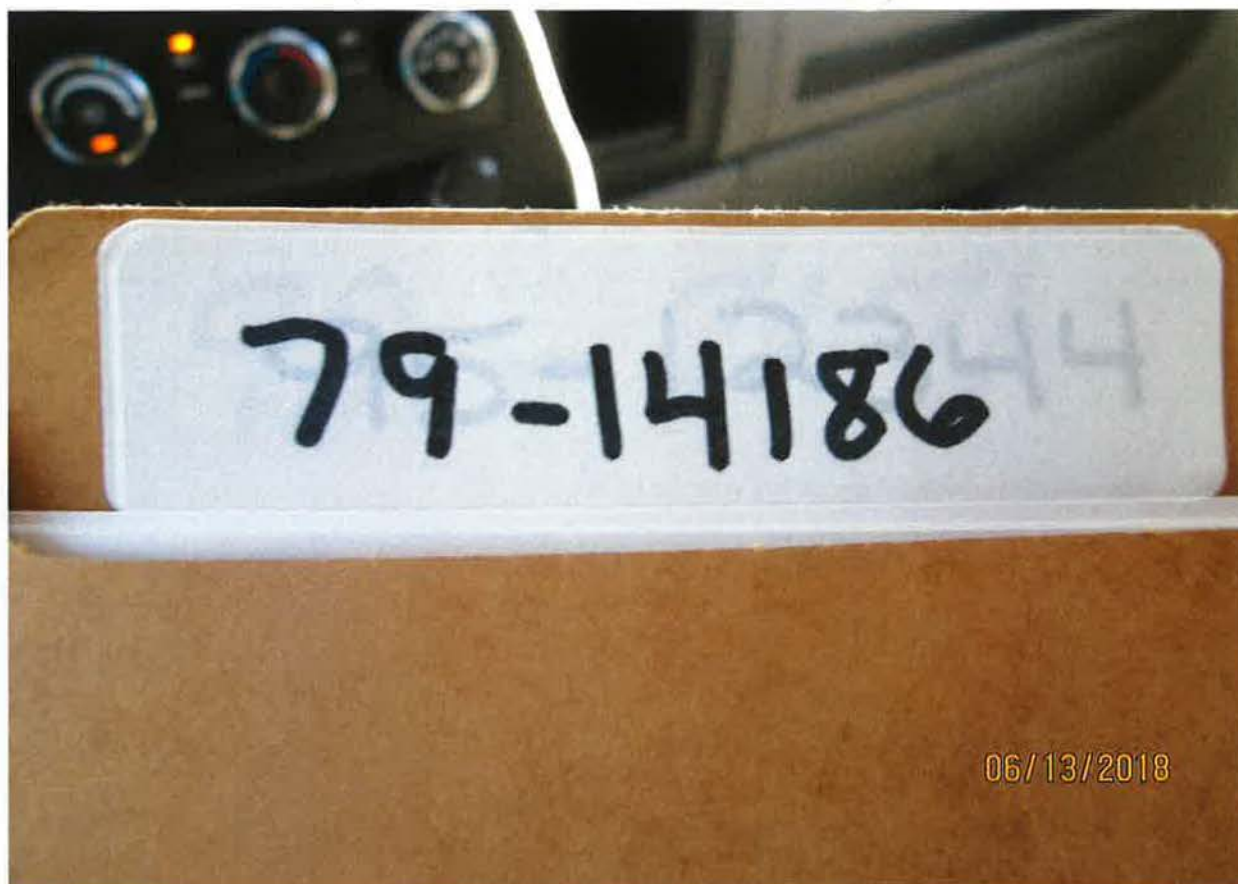
0 0.035 0.07 0.14 Miles



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 79-14186

Theoretical pumping equation is required because system is pumped directly into storage tank. I was unable to perform a flow measurement and thus a theoretical pumping equation was needed for diversion rate. Pump is estimated to be at 295 ft and running at 50 psi.

<div style="text-align: center;"> PUMP EQUATIONS WATER RIGHT No. </div>						
				<div style="text-align: center;"> 79- 14186 </div>		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	3	410.6463	0.8	295	50
<div style="display: flex; justify-content: space-between;"> Q = 0.052 cfs 23.1 gpm </div>						



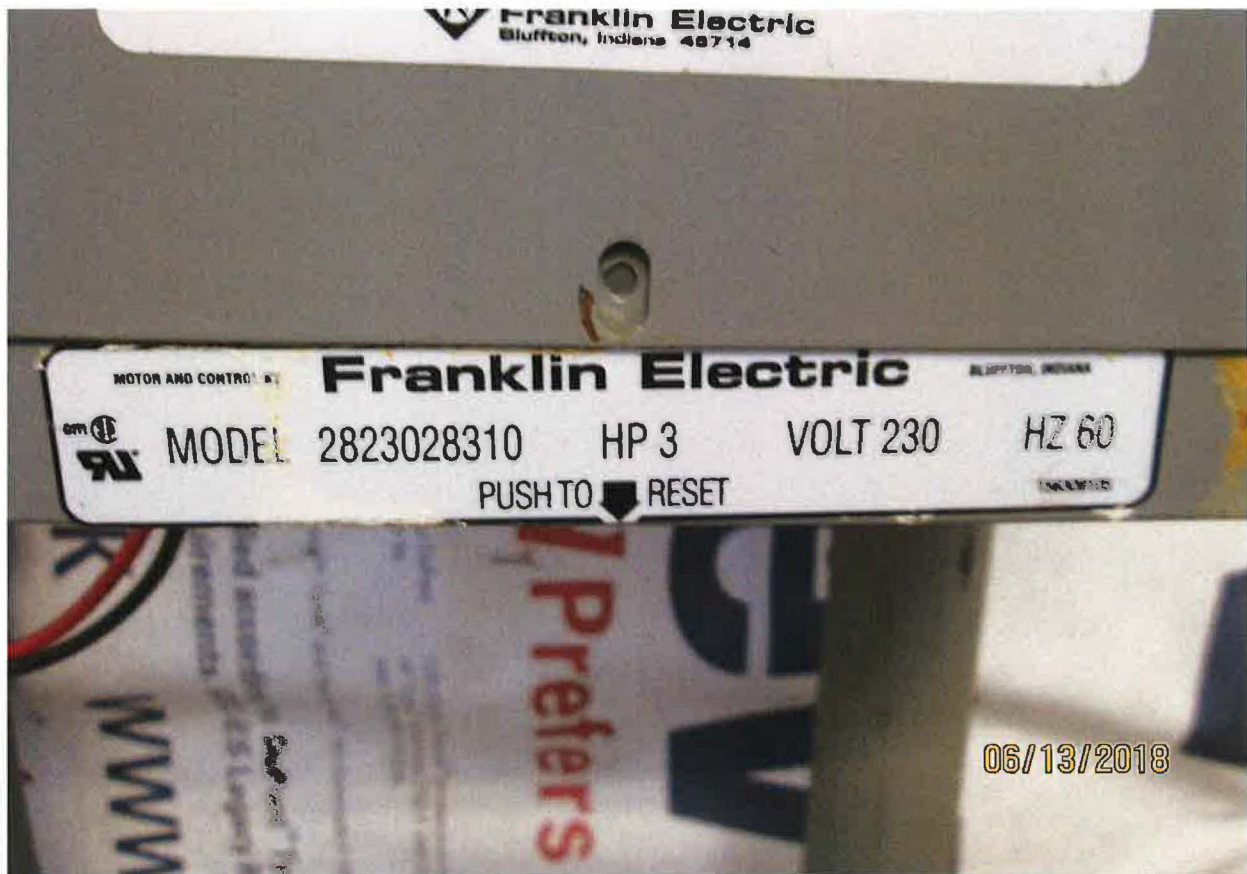
POD Well D0045018



POD



3k storage tank



3 HP pump



Water from storage tank to pressure tanks to homes



POU LOT 4



POU LOT 6



POU LOT 5



POU LOT 7



POU LOT 8



STUB IN LOT 3



STUB-INS LOT 1 AND LOT 2