

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-8657
Exam Date: 09/04/1997

1. Current Owner:
PINEWOOD & PINEWOOD WEST HOA 398 ROCKVIEW DR PRIEST RIVER ID 83856
2. Accompanied by: Doug Johnston and Robert Hansen
Phone No: 1-509-981-0903 and 208-265-4270
Address: Same as above
Relationship to permit Holder: Permit Holder Representative

3. **SOURCE:**
GROUND WATER

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9667	PEND OREILLE RIVER	IRRIGATION	LICENSE
96-9725	PEND OREILLE RIVER	IRRIGATION	LICENSE

Comments: Both 96-9667 and 96-9725 overlap individual parcels within this right's POU, but are for irrigation using water from the Pend Oreille River as the source, and not a concern for overlap.

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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L4 (NW¼ NW¼), Sec. 1, Twp 55N, Rge 04W, B.M. BONNER County
GROUND WATER L4 (NW¼ NW¼), Sec. 1, Twp 55N, Rge 04W, B.M. BONNER County

Method of Determination: GPS. PODs located at: well No.1 -116°47.018, 48°09.069 and well No.2 -116°47.025, 48°09.051.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
55N	04W	1						0.2											0.2
								L4											
55N	04W	2	2.5	0.2															2.7
			L1	L2															
55N	04W	35																0.1	0.1
																		L1	
56N	04W	36											2.0						2.0
													L1						

Total Acres: 5.0

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	
55N	04W	1						X L4											
55N	04W	2	X	X L2															
55N	04W	2	X L1																
56N	04W	35																X L1	
56N	04W	36											X						
56N	04W	36											X L1						

Method of Determination: multiple field exams and Arcmap.

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

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0020034 (well No. 1)		2			
A0020025 (well No. 2)		3			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
FLOWMETER #1		KENT INLINE		85019008	1.5 INCH	
FLOWMETER #2		BADGER INLINE		90586794	2 INCH	

2. Measurements: during field exam conducted 9/10/1997, flowmeters were used to obtain flow measurements; flowmeter #1 = 32.47 gpm, and flowmeter #2 = 43.51 gpm. Total flow rate = 75.98 gpm = 0.17 cfs. Reference Permit back-file Beneficial Use Field Report pages 2 and 4.

E. FLOW CALCULATIONS

Measured Method: 2ea flowmeter measurements were taken on well No.1 & No.2, with resulting flow rate equal to 32.47 gpm (well No.1) + 43.51 gpm (well No.2) = 75.98 gpm = **0.17 cfs** for Maximum Diversion Rate.

F. VOLUME CALCULATIONS**1. Volume Calculations for irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5 \text{ ac} \times 3.0 \text{ afa} = 15.0 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 48.4 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{15.0 \text{ af}}$$

2. Volume Calculations for Other Uses:

$$\text{Domestic annual volume} = 32 \text{ homes/stub-ins} \times 0.6 \text{ af} = \mathbf{19.2 \text{ af}}$$

$$\text{Maximum diversion volume} = 19.2 \text{ af (domestic component)} + 15 \text{ af (irrigation component)} = \mathbf{34.2 \text{ af}}$$

G. NARRATIVE/REMARKS/COMMENTS

Administrative Note: this water permit had an initial field exam conducted on 9/10/97; following that several years passed without permit being finalized for licensing by the Department. As such, current Department staff utilized past years aerial imagery and follow on field exams to gain adequate information to develop during licensing review in order to finalize this right.

Follow on field exam conducted on 8/7/2017 with applicant's representatives, Doug Johnston and Robert Hansen, showed two wells providing groundwater for Pinewood and Pinewood West HOA water system's domestic and irrigation purposes. During the Departments 9/10/1997 field exam, two flowmeter measurements were taken to determine the flow rates for 2ea well PODs equaling 32.47 gpm (well No.1) + 43.51 gpm (well No.2) = 75.98 gpm = **0.17 cfs** for Maximum Diversion Rate. As the past field exam captured flow measurements associated with this Permit's development period, the flowmeter measurements are recommended for use during licensing of the permit. The irrigation component and domestic component rates of diversion equal 0.10 respectively, but are not additive as the applicant is limited by two well pump performance at time of initial field exam. The wells pipe into vaults that contain a total of 6 pressure tanks as of the initial field exam, prior to joining to service the water system by one main water line that distributes water to the stub-ins in the subdivision.

During the initial field exam, field report identified 34 lots with 16 parcels having homes developed and 18 parcels having stub-ins. The domestic component of this Permit does not include irrigation, as it is a separate component. Follow-on field exam conducted on 8/7/2017 identified provided more accurate information regarding the number of homes developed and remaining stub-ins. It was found that there are a total of 32 service connections providing domestic water use to the subdivision. This value is less than the 34 identified originally, but applicant's representatives and Department staff completed an exhaustive evaluation of the system and 32 homes will be used to license this right. Domestic annual volume equals 32 homes x 0.6 af = **19.2 af**, which will be applied to the license. Arcmap aerial imagery was used to more accurately trace out the POU boundary compared to that which was applied to the permit.

Applicant was approved for 77 acres of irrigation, but both past and current field exams determined there was minimal irrigation occurring. Applicant's representative, Mr. Johnston, asserted that the applicant's HOA did not want irrigation to occur on this permit, rather each parcel owner develop irrigation using individual water rights that draw water from the Pend Oreille River. As such, understanding there was some irrigation occurring during the development period, irrigated acreage was determined to equal 5 acres, which corresponds with the permit approved irrigation diversion rate of 0.10 cfs. The annual volume equals 5 acres x 3.0 afa = **15 af**, which will be applied to the license. Irrigation was designated as equitably

as possible amongst the $\frac{1}{4}$ sections within the POU rather than to individual lot owners, with the water system HOA left to manage how the annual volume was to be distributed. Applicant stated that the intent is to push for lot owners who do irrigate to develop their own water rights from the river in the future. The Maximum Diversion Volume for this right equals 19.2 af (domestic component) + 15 af (irrigation component) = **34.2 af**

At time of licensing, the permitted POU for domestic and irrigation was found to be inaccurate, see below:

POU: authorized on permit = multiple $\frac{1}{4}$ sections that DID NOT INCLUDE 55N04W1NWNW government lot 1.
 POU: verified at time of licensing = multiple $\frac{1}{4}$ sections that DO INCLUDE 55N04W1NWNW government lot 1.

Two Application for Amendments were initiated, and mailed with cover letter to applicant on 7/10/2020 and 8/10/2020. Applicant has signed and submitted the \$100.00 fee, received by the Department on 8/21/2020.

Conditions 26A, 046, 03A, and a text condition were removed from permit. Condition R62 was added to describe the irrigation limitations for permit. Condition X60 was added to describe the Pinewood and Pinewood West Sub. And Pinewood Bay Sub. Lots that the license's POU is comprised of. All other conditions remain from permit to license. Water Rights 96-9667 and 96-9725 overlap individual parcels within this right's POU, but are for irrigation using water from the Pend Oreille River as the source, and not a concern for overlap. During the licensing review process, multiple other parcel owners of the Pinewood West and Pinewood Bay Subdivisions have initiated applications for water permit to use Pend Oreille River water to develop irrigation systems on their parcels. The addition of these will further ensure there is no enlargement to this water license in the future. There are no other concerns of overlap for this right.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

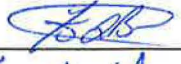
1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	0.10 CFS	15.0 AF
DOMESTIC	01/01 to 12/31	0.10 CFS	19.2 AF
<u>Totals:</u>		0.17 CFS	34.2 AF

2. Recommended Amendments

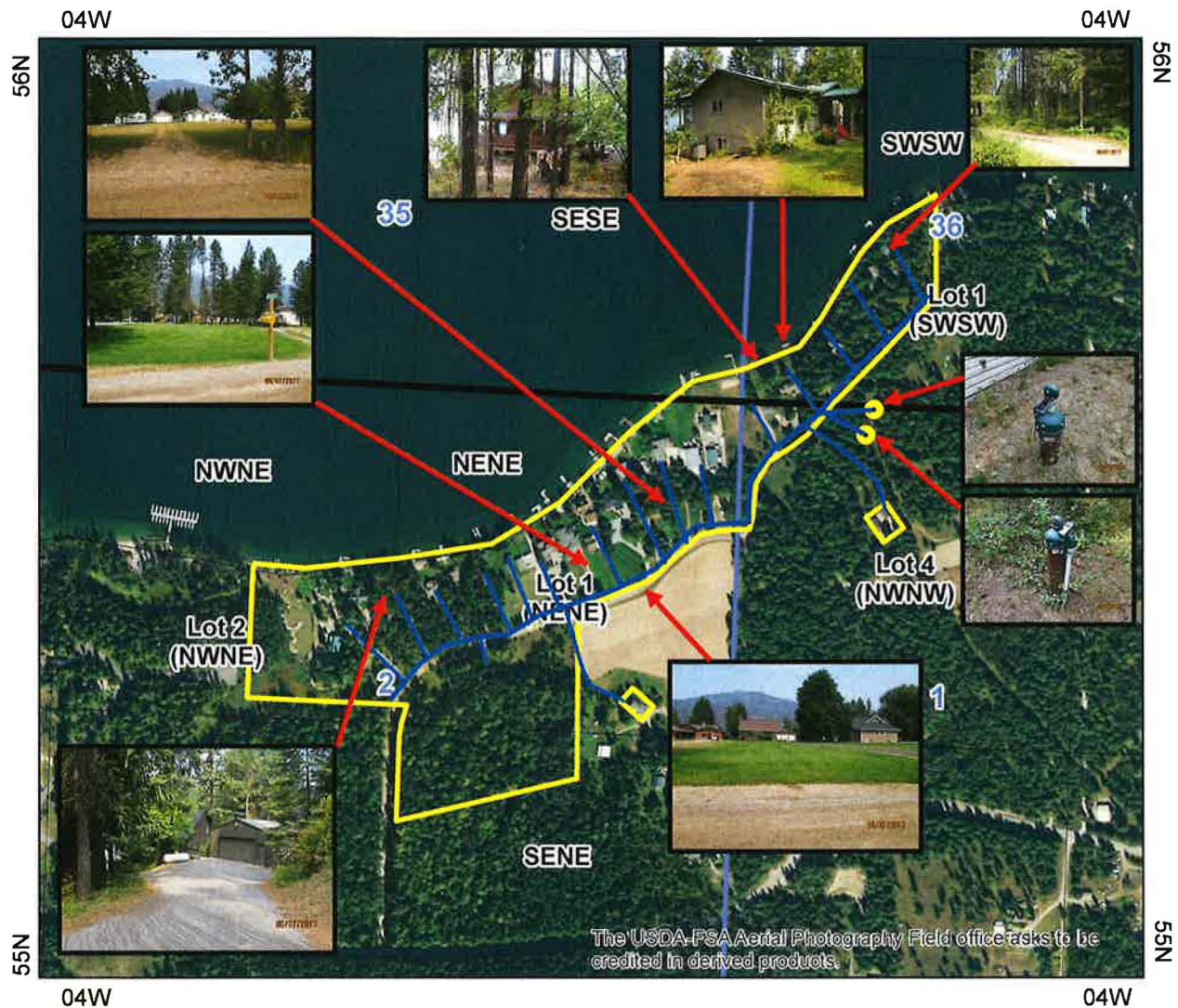
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

I. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name  Date 8/21/2020
 Reviewer  Date 8/31/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-8657

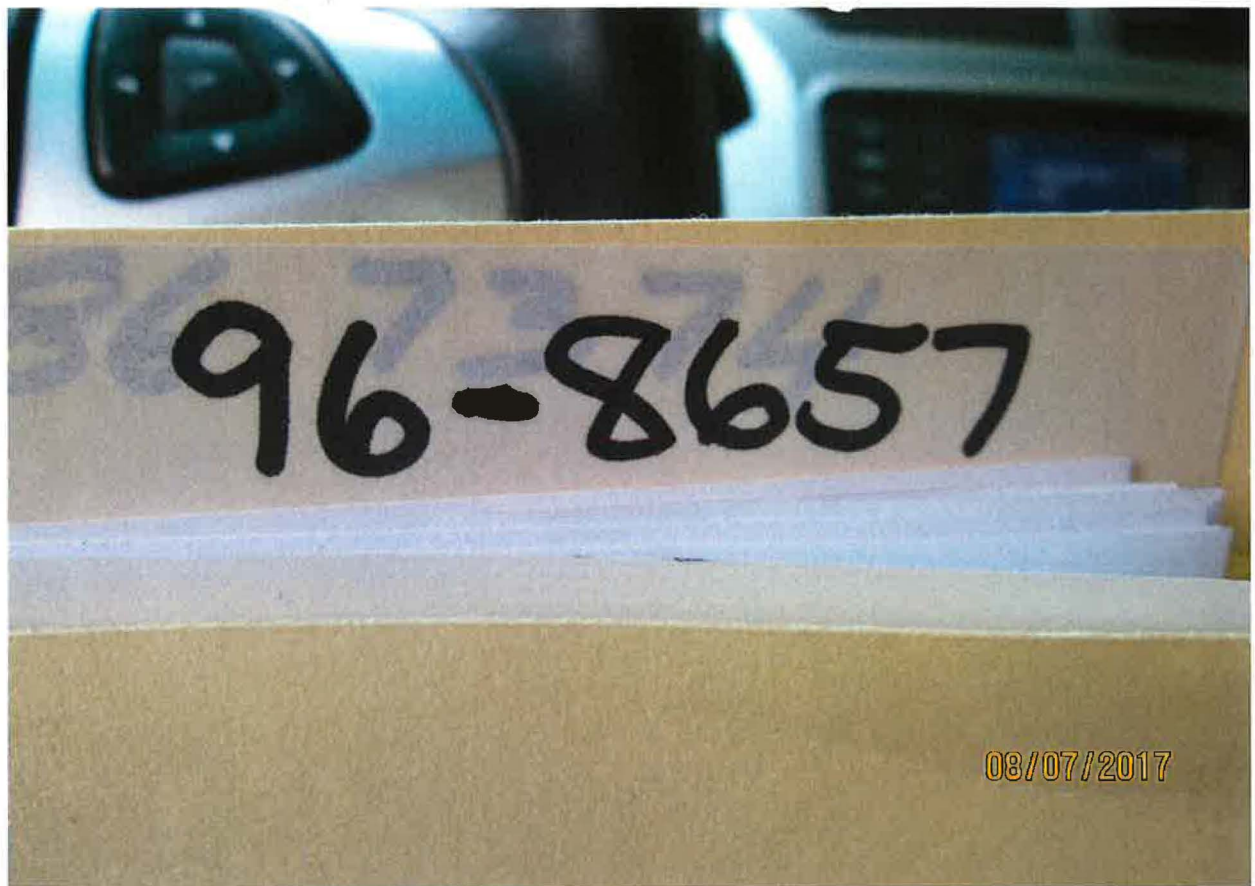
DOMESTIC and IRRIGATION system diagram.



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

0 0.075 0.15 0.3 Miles





POD – WELL No. 1, A0020024



POD – WELL No. 2, A0020025



PRESSURE TANKS IN PUMP HOUSE

...CABLE, PUMP OR MOTOR UNLESS ALL
METAL PARTS HAVE BEEN PROPERLY GROUNDED
ACCORDING TO APPLICABLE CODES.



Franklin Electric
Bluffton, Indiana 46714

155661101

MOTOR AND CONTROL BY

Franklin Electric

BLUFFTON, INDIANA



MODEL 2823018310 HP 2 VOLT 230 HZ 60
PUSH TO  RESET

08/07/2017

2 HP PUMP FOR WELL No.1

...CABLE, PUMP OR MOTOR UNLESS ALL
METAL PARTS HAVE BEEN PROPERLY GROUNDED
ACCORDING TO APPLICABLE CODES.



Franklin Electric
Bluffton, Indiana 46714

155661101

MOTOR AND CONTROL BY

Franklin Electric

BLUFFTON, INDIANA



MODEL 2823028310 HP 3 VOLT 230 HZ 60
PUSH TO  RESET

08/07/2017

3 HP PUMP FOR WELL No.2



MEASURING DEVICES FOR 2 WELLS





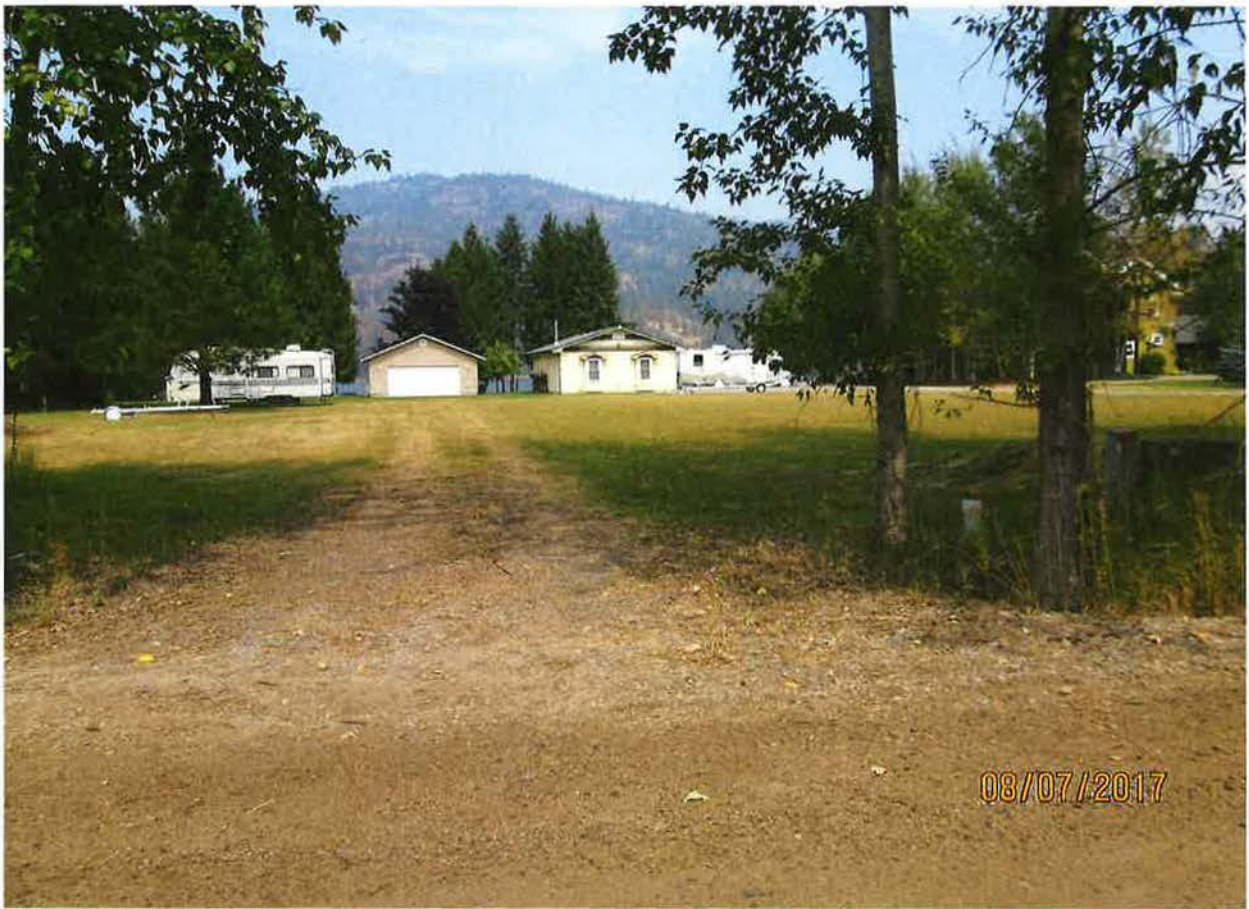
DOMESTIC POU





DOMESTIC POU





DOMESTIC AND IRRIGATION POU





DOMESTIC AND IRRIGATION POU





DOMESTIC POU

