

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 81-12019
Exam Date: 06/15/2021

1. Current Owner:
EUGENE R WOLLERTON 6883 HIGHWAY 12 KOOSKIA ID 83539-5010
2. Accompanied by: Eugene Wollerton
Phone No: 208-926-0985
Address: Same as above
Relationship to permit Holder: Permit holder

3. **SOURCE:** MIDDLE FORK CLEARWATER RIVER Tributary
CLEARWATER RIVER

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
81-4010	GROUNDWATER	DOMESTIC	DECREEED
81-10235	GROUNDWATER	DOMESTIC	DECREEED
81-10108	GROUNDWATER	DOMESTIC	DECREEED
81-10066	GROUNDWATER	DOMESTIC	DECREEED
81-10156	GROUNDWATER	DOMESTIC	DECREEED

Comments: WRs 81-4010, 81-10235, 81-10066, and 81-10156 all use a groundwater source with domestic POU(s) that overlap this right's POU, but are not associated with the applicant's property and not a concern for overlap. 81-10108 is a decreed right that uses groundwater for domestic purposes; the parcel No. associated with 81-10108's proof report has the same parcel number as the applicant's property, except the letter A at the end. I was unable to validate any property in the parcel search in Arcmap using RP32N05E025860A (81-10108), and the applicant did not recognize the name Ena May Yerkey to which 81-10108 is owned by. As I could not definitively validate the properties, I do not recommend using overlap conditions when licensing this permit 81-12019. The applicant states he only irrigates using his surface water system, which reduces the potential for overlap concerns between irrigation and domestic up to ½ acre irrigation on his property.

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

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

MIDDLE FORK CLEARWATER RIVER NW¼ SW¼, Sec. 2, Twp 32N, Rge 05E, B.M. IDAHO County

Method of Determination: GPS; POD is a screened 2" intake poly pipe to pump from the river, located at -115°48.190, 46°08.328.

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	
32N	05E	2										0.7	L5						0.7

Right Acre Limit: 0.7

Total Acres: 0.7

Method of Determination: Field exam and Arcmap aerial imagery.

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
INTAKE PIPE TO PUMP		1.5		FLOTEC	

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 GAL BUCKET MEASUREMENTS						

2. Measurements: Three 5 gallon bucket tests were completed from an inline irrigation riser pipe fed direct from pump, with average of three resulting in a diversion rate of 5 gal / 28.48 sec x 60 sec/min = 10.53 gpm = **0.02 cfs**, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5 GAL Bucket Test = (5 gal / 28.31 sec) x 60 sec/min = 10.60 gpm
 = (5 gal / 28.63 sec) x 60 sec/min = 10.48 gpm
 = (5 gal / 28.50 sec) x 60 sec/min = 10.52 gpm
 Average of 3ea 5 GAL Bucket Tests = (10.60 gpm + 10.48 gpm + 10.52 gpm) / 3 = 10.53 gpm = 0.02 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.7 \text{ ac} \times 3.0 \text{ afa} = 2.1 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ cfs} \times 246 \times 1.9835 = 9.8$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.1 \text{ af}$$

2. Volume Calculations for Other Uses:

This is a surface source water right, and no volume metrics will be applied to the license.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 6/15/2021 with the applicant, Mr. Eugene Wollerton, showed water being diverted from the Middle Fork Clearwater River for irrigation purposes. At the POD, the applicant has a screened intake 2 inch poly pipe that routes up-grade from the river bank to a small pump house. The intake pipe is of sufficient length to attach a measuring device as required by permit approval conditions. The water system incorporates a 1.5 HP Flotec water transfer pump, which runs across HWY 12 to an irrigation riser pipe to hose connections. Three 5 gallon bucket tests were completed from the riser pipe, with average of three resulting in a diversion rate of $5 \text{ gal} / 28.48 \text{ sec} \times 60 \text{ sec/min} = 10.53 \text{ gpm} = \mathbf{0.02 \text{ cfs}}$, considering department rounding standards which is recommended for licensing purposes.

During the exam, the irrigation POU was drawn using field maps, and are irrigated by two irrigation risers capable of using 3 total hose to tripod sprinklers. During licensing review, Arcmap aerial imagery was used to trace out the irrigation POU, which equals 0.7 acres. The permit was approved for the development of 1.0 acres, but the final irrigation trace out excludes the driveway, parking area, and house located on the property. The applicant uses a circuit breaker to turn on the pumping system, and irrigation was observed during the exam. The annual volume associated with the irrigation of 0.7 acres = $0.7 \text{ ac} \times 3.0 \text{ afa} = 2.1 \text{ af}$, but as this is a surface water source no volume metrics are applied when licensing. There is a noticeable shift between Arcmap imagery layers and the DRG layer, resulting in the applicants parcel boundaries being offset to the north and east of actual location. When developing POU legal descriptions this causes the appearance of acreage outside the NWSW5 quarter-quarter, but that is inaccurate and no amendment is recommended to license this water right.

The applicant submitted letter correspondence to the Department (on file) that identifies a discrepancy between a neighboring property and point of diversion that was identified as the applicant's pump house during prior adjudication. Review of Arcmap aerial imagery shows a POD centroid placed in the approximate location of this permit's pump house, but Mr. Wollerton asserts the pump only services his irrigation system.

Condition 029 and 195 were removed from the permit during licensing review. Condition 227 was updated to reflect daily flow monitoring gauging station data. Condition R66 was replaced with X31, to accurately describe diversion and volume limitations applied to less than 1 acre of irrigation. All other conditions on the permit shall be carried forward to the license. The wild and scenic function in ADHOC was updated to reflect Middle Fork Clearwater River (river name), 0.7 acres (debited acres), 0.02 cfs (debited rate), & benefiting from subordination (reason not subject to curtailment).

Overlap concerns: WRs 81-4010, 81-10235, 81-10066, and 81-10156 all use a groundwater source with domestic POU(s) that overlap this right's POU, but are not associated with the applicant's property and not a concern for overlap. 81-10108 is a decreed right that uses groundwater for domestic purposes; the parcel No. associated with 81-10108's proof report has the same parcel number as the applicant's property, except the letter A at the end. I was unable to validate any property in the parcel search in Arcmap using RP32N05E025860A (81-10108), and the applicant did not recognize the name Ena May Yerkey to which 81-10108 is owned by. As I could not definitively validate the properties, I do not recommend using overlap conditions when licensing this permit 81-12019. The applicant states he only irrigates using his surface water system, which reduces the potential for overlap concerns between irrigation and domestic up to $\frac{1}{2}$ acre irrigation on his property. There are no additional overlap concerns for this 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>Rate of Diversion</u>
IRRIGATION	03/15 to 11/15	0.02 CFS

Totals: 0.02 CFS

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

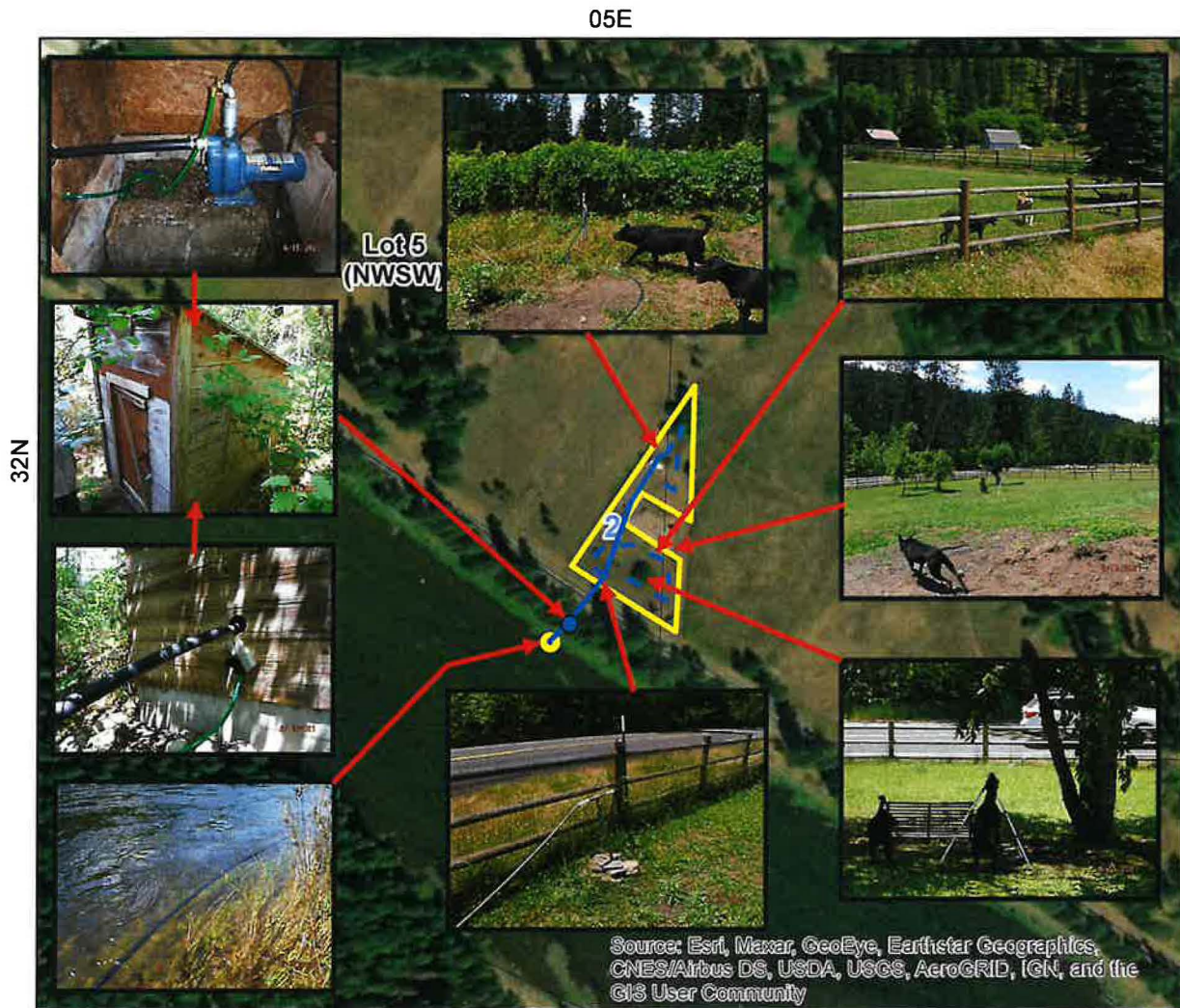
I. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name *[Signature]* Date 6/25/2021

Reviewer *[Signature]* Date 6/30/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
81-12019

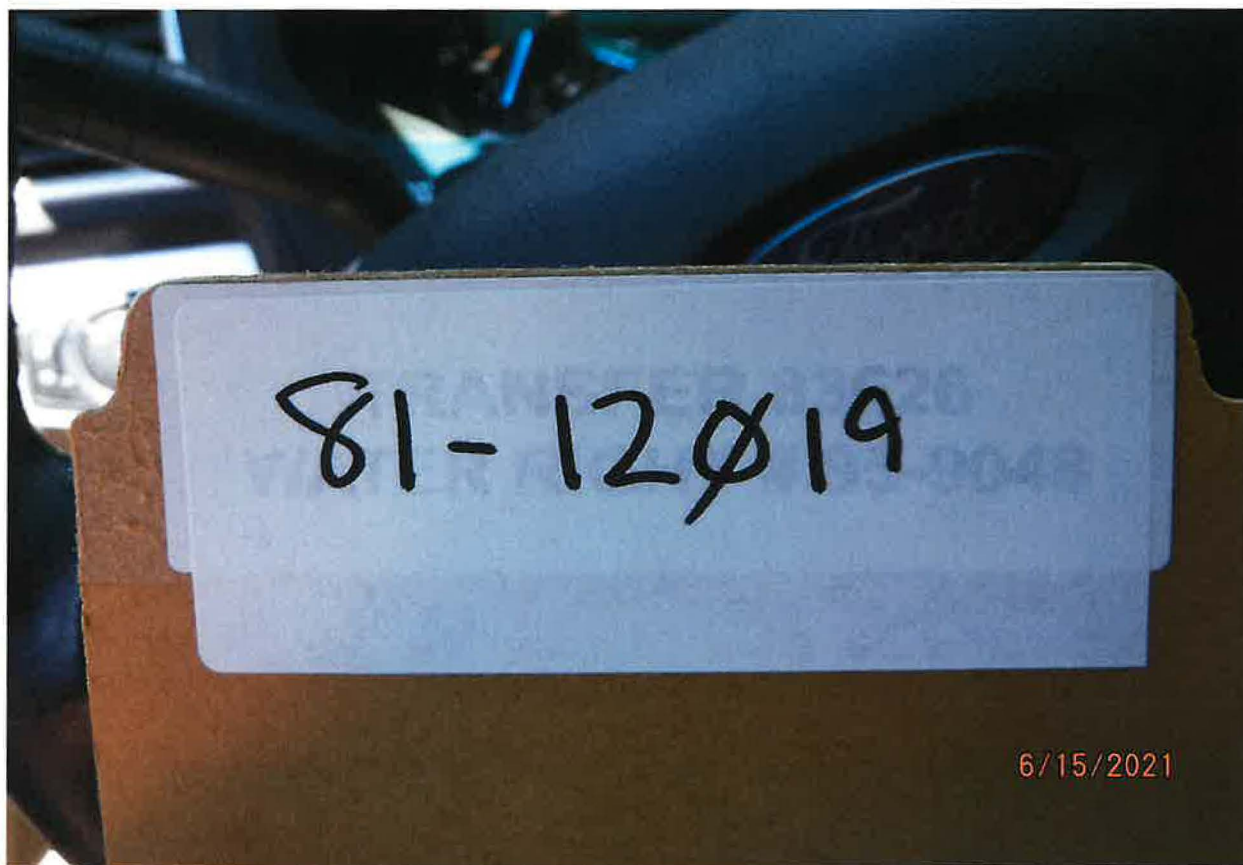
IRRIGATION system diagram.



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

0 0.035 0.07 0.14 Miles





FIELD EXAM DATE 6/15/2021



POD – 2 INCH POLY PIPE IN RIVER



SCREENED INTAKE PIPE IN RIVER



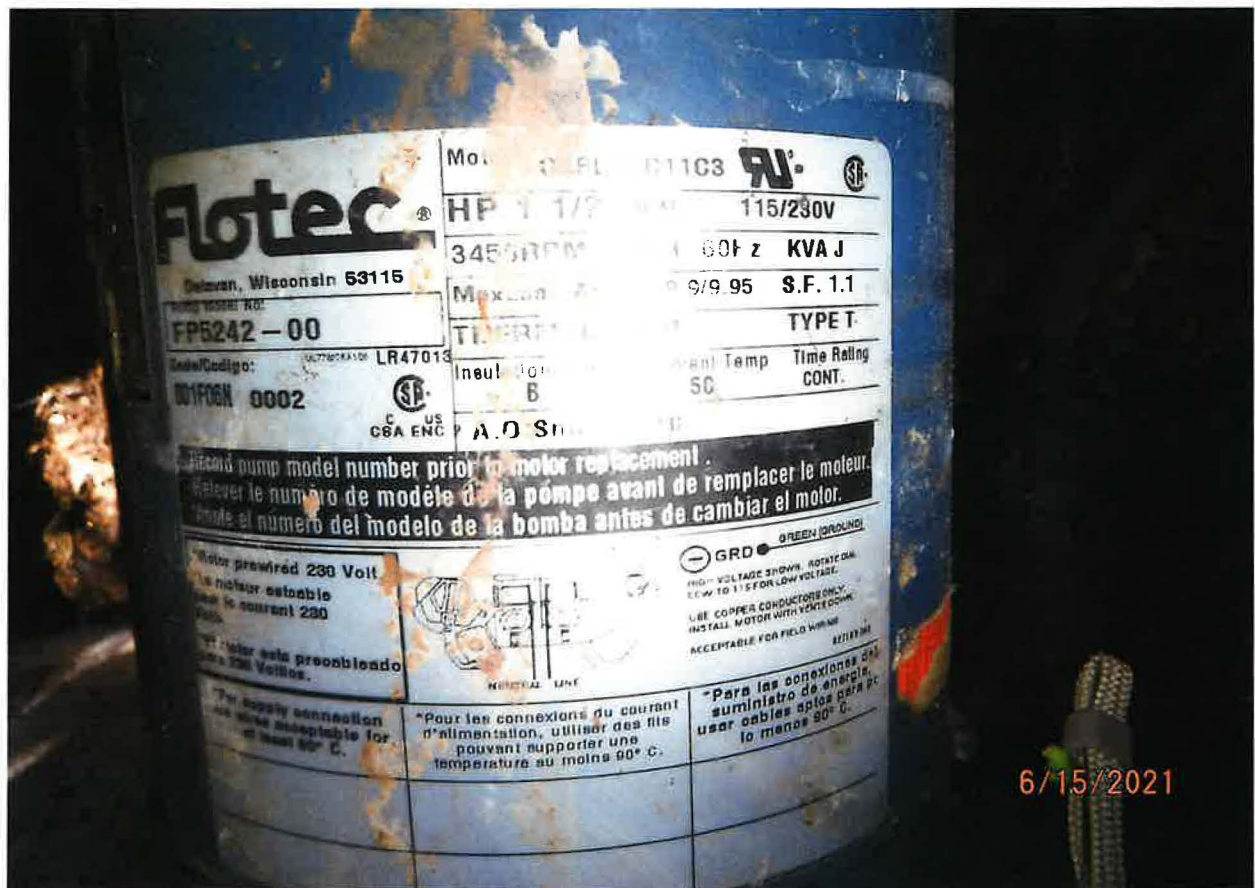
2 INCH POLY PIPE FROM RIVER ROUTED INTO SMALL PUMP HOUSE



PUMP HOUSE



FLOWTEC 1.5 HP WATER TRANSFER PUMP INSTALLED



1.5 HP FLOWTEC WATER TRANSFER PUMP



WATER LINE TO IRRIGATION RISER PIPE – OPERATES 2 EA HOSE-TO-TRIPOD SPRINKLERS



5 GAL BUCKET TEST FLOW MESUREMENT COMPLETED



3RD IRRIGATION RISER PIPE INSTALLED ON IRRIGATION SYSTEM – OPERATES 1 TRIPOD SPRINKLER

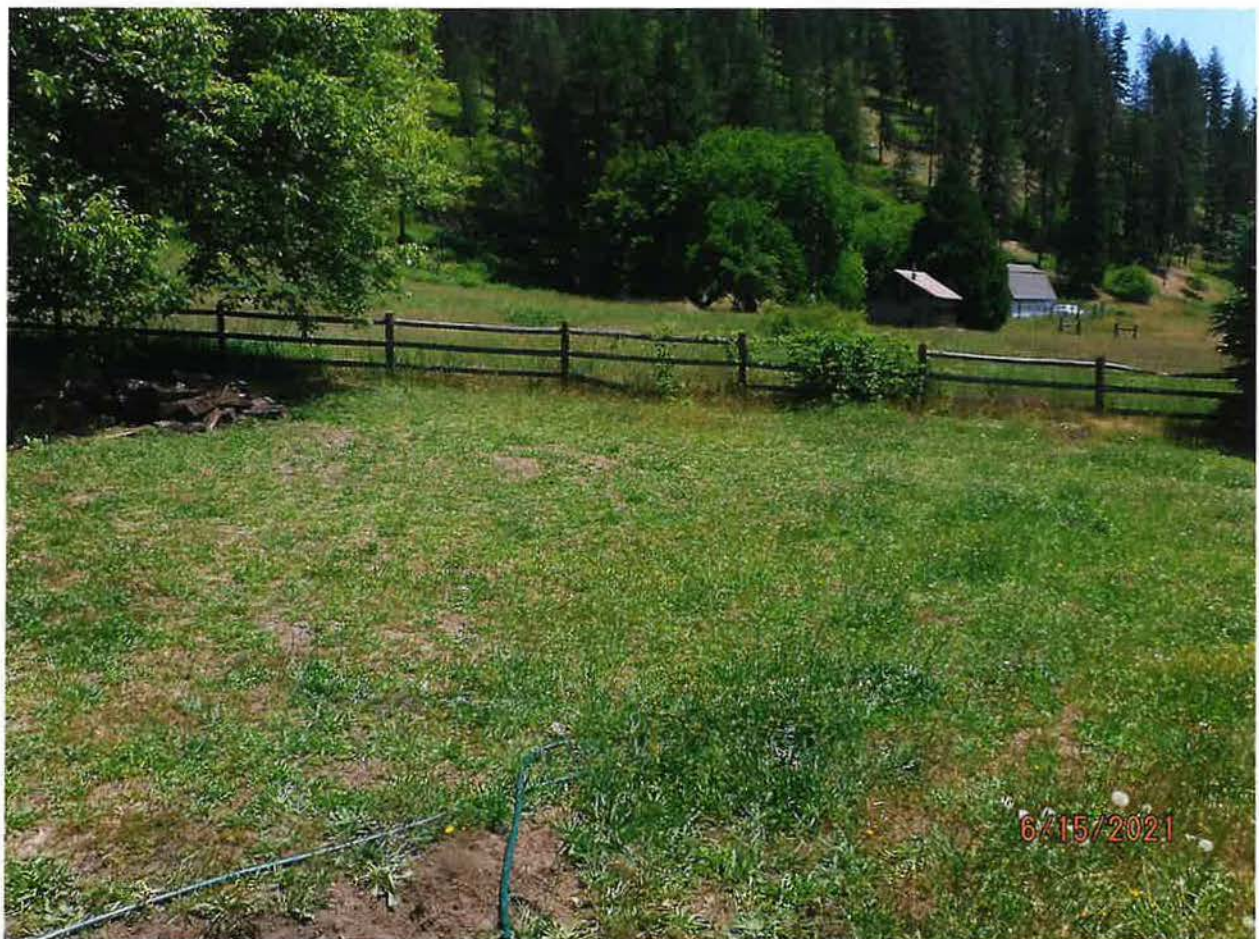


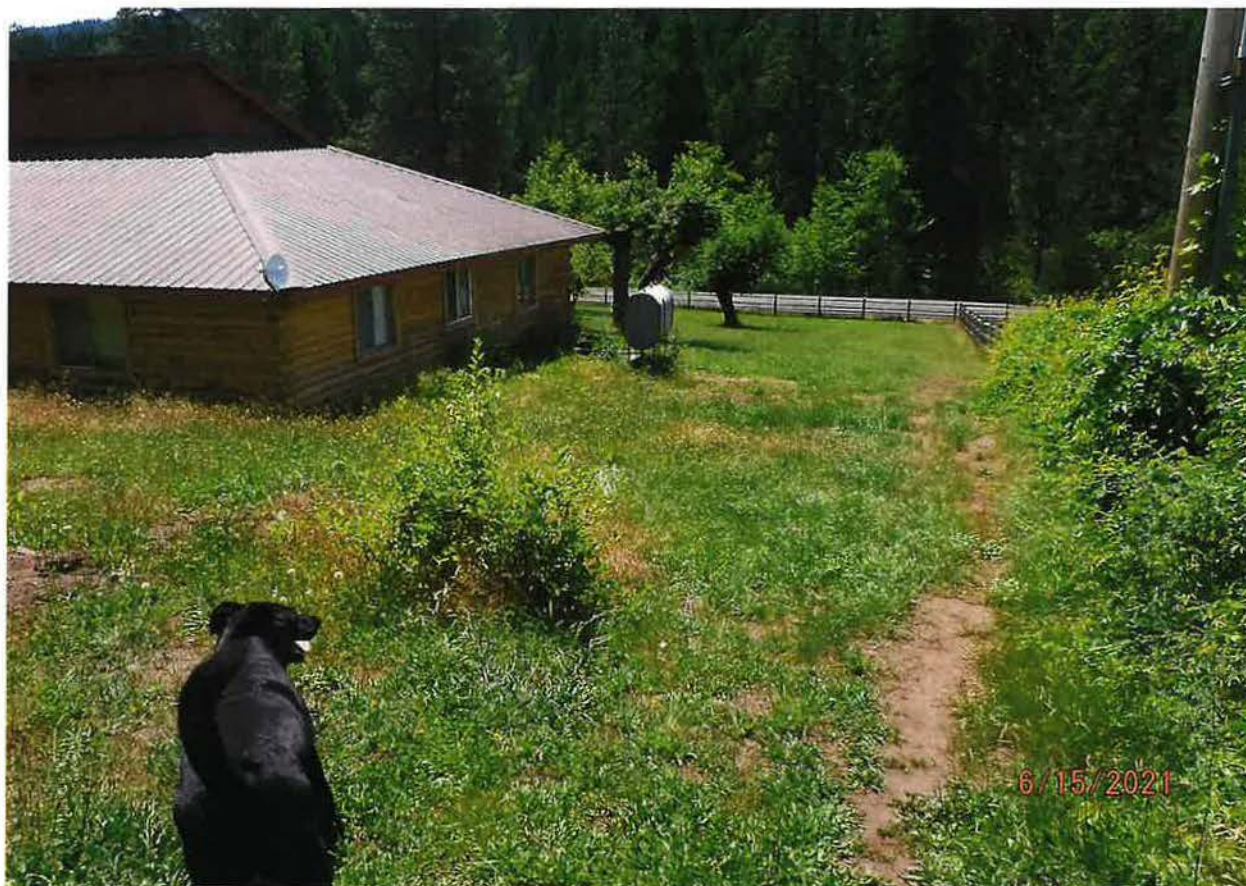
IRRIGATION POU





IRRIGATION POU





IRRIGATION POU

