

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17665
Exam Date: 05/20/2025

1. Current Owner:
DAVID R CISCEL 12289 E WHITETAIL DR ATHOL ID 83801 AND/OR
DEBORAH L CISCEL 12289 E WHITETAIL DR ATHOL ID 83801
2. Accompanied by: David Ciscel
Phone No: 208-561-1056
Address: Same as above
Relationship to permit Holder: Permit Holder.

3. **SOURCE:**
GROUND WATER

Method of Determination: ArcMap and DRG Layer.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
95-10215	GROUND WATER	DOMESTIC	DECREED

Comments: Decreed Right 95-10215 is in the same ownership as this Permit and used the same ground water source/well for Domestic use related to the primary residence on the property. Although the Domestic use authorizes 13,000 gpd, 95-10215 incorporates a separate beneficial use (BU) category than this Permit's Irrigation and Stockwater BUs and is not recommended for overlapping concerns e.g. not a stacking of water rights.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-10215	GROUND WATER	DOMESTIC	DECREED

Comments: 95-10215 was recommended for decree in the Coeur D'Alene Spokane River Basin Adjudication with a maximum diversion rate = 0.02 cfs which uses the same POD as this Permit. I validated there are no other ground water well(s) in use by the Right Holder during the field examination. I have added two conditions for licensing recommendation, F06 (shared well) and X35 (combined diversion rate limitation between the two WRs). Addition of X35 mitigates overlapping WR concerns related to stacking of WRs based on diversion rate(s).

C. DIVERSION AND DELIVERY SYSTEM

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

GROUND WATER SE¼ SW¼, Sec. 18, Twp 53N, Rge 02W, B.M. KOOTENAI County

Method of Determination: GPS located 8-inch cased GW well at -116°37.4542, 47°56.0908; well 96-95-N-30.

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	
53N	02W	18												8.4					8.4

Total Acres: 8.4

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
53N	02W	18												X					

Method of Determination: Beneficial use field examination and ArcMap aerial imagery.

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 1:24,000 or greater.

X

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

X

Photo of Diversion and System Attached

X

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
96-95-N-30	Franklin Electric	2	Model No. 2823018310	Unknown	Unknown

D. FLOW MEASUREMENTS

1.

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

2. Measurements: I conducted 5-gal bucket measurements using a frost-free hydrant (blow-out hydrant) co-located with the cased well with resulting average diversion rate equaling 35.2 gpm or 0.08 cfs considering Department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5-GAL Bucket Test = (5 gal / 8.37 sec) x 60 sec/min = 35.84 gpm
 = (5 gal / 9.05 sec) x 60 sec/min = 33.15 gpm
 = (5 gal / 8.21 sec) x 60 sec/min = 36.54 gpm

- Average of 3ea 5-GAL Bucket Tests = (35.84 gpm + 33.15 gpm + 36.54 gpm) / 3 = 35.18 gpm = 0.08 cfs considering department rounding standards.
- Permit authorized a maximum diversion rate of 0.20 cfs, Irrigation diversion rate = 0.20 cfs based on 16 acres, and Stockwater diversion rate = 0.02 cfs based on 10 head mixed stock.
- The license recommended diversion rate(s) are **0.08 cfs** maximum diversion rate which is reduced based on pump performance found at time of field exam, Irrigation diversion rate = **0.08 cfs** which is again limited by pump performance, and Stockwater diversion rate = **0.02 cfs** based on 5 head mixed stock observed during the exam.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 8.4 \text{ ac} \times 3.0 \text{ afa} = 25.2 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 34.0$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{25.2 \text{ af}}$$

2. Volume Calculations for Other Uses:

- Stockwater diversion volume = 5 head mixed stock x 12 gpd x 365 days = 21,900 gal / 325,850 gal/af = **0.1 af** considering Department rounding standards.
- Maximum diversion volume = 25.2 af (irrigation) + 0.1 af (stockwater) = **25.3 af**.

G. NARRATIVE/REMARKS/COMMENTS

I performed the beneficial use field exam on 5/20/2025 with the Permit Holder, David Ciscel, which showed ground water being diverted from a cased well for irrigation and stockwater uses. At the POD, 8-inch well 96-95-N-30 has a 2-hp Franklin Electric pump motor paired with a matched pump. I performed 5-gallon bucket measurements from the first frost-free hydrant co-located with the well which derived a flow rate of **0.08 cfs** which is recommended for licensing the irrigation beneficial use and maximum diversion rate. The stockwater diversion rate remains **0.02 cfs**. The Department standard diversion rate for irrigation of 8.4 acres is 0.17 cfs but the Permit Holder is limited by pump performance observed at time of exam and the rate is reduced for licensing purposes.

From the POD buried main poly-pipe is routed to 6 frost-free hydrants and an in-home service connection for stockwater and irrigation use. During the exam I used field maps as Mr. Ciscel and I walked the property and I collected numerous photographs to illustrate beneficial use of water within the POU. From each frost-free hydrant up to 400 ft of hose to sprinkler is rotated to irrigation pastureland for stock feed, lawn space, and landscape watering for trees and shrubs around the primary residence. A small rotomolded fishpond is maintained near the primary residence but the water used for the water feature is accounted for under the Permit Holder's prior Right 95-10215 which authorizes 13,000 gpd for Domestic use.

During the exam I sketched the irrigation POU on field maps and during licensing review I used ArcMap aerial imagery to accurately trace out the POU which consists of 8.4 acres irrigation. I observed multiple stacks of 100-ft hose and tripod sprinklers which are used to irrigation. The horse pasture is watered periodically to get enough stock feed to sustain the horses through summer months, but aerial imagery doesn't accurately depict the watering practices. Portions of the POU that are within tree canopy are watered throughout the season of use primarily to maintain pasture grass and to keep wetting to reduce fire hazards. The annual volume recommended for licensing equals $3.0 \text{ afa} \times 8.4 \text{ acres} = \mathbf{25.2 \text{ af}}$.

The stockwater POU has been assigned as the fenced in pasture on the Permit Holder's parcel which coincides with frost-free hydrants that fill portable stock tanks. I have reduced the footprint of the POU from the entire parcel as stock are not normally watered in the southern reach of the parcel which is separated by a fence line. I observed 5 horses on the property during the exam and the annual volume recommended for stockwater beneficial use equals **0.1 af**, value which has been rounded up to conform with Department rounding standards. The maximum diversion volume equals the sum of irrigation and stockwater beneficial uses, or **25.3 af**.

I removed condition 26A and 046 during licensing review based on compliance by the Permit Holder. Condition X02 was removed based on condition description guidance to drop at licensing. I've recommended addition of conditions F06 and X35 to the license as discussed on PG1 of this report. The Permit was recommended without condition 01M which normally accompanies approvals with irrigation beneficial uses that exceed 5.0 acres in size, but I don't recommend adding it at time of licensing as I can't make the Permit more restrictive without authorizing the Permit Holder time to develop the condition. All other conditions on the Permit shall be carried forward to the license. Overlapping water right concerns have been discussed in detail on PG1 of this report and there are no other overlapping concerns toward licensing 95-17665.

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>
IRRIGATION	04/01 to 10/31	0.08 CFS	25.2 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
<u>Totals:</u>		0.08 CFS	25.3 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 – Sr. Water Resource Agent

Field Examiner's Name

Date

Reviewer

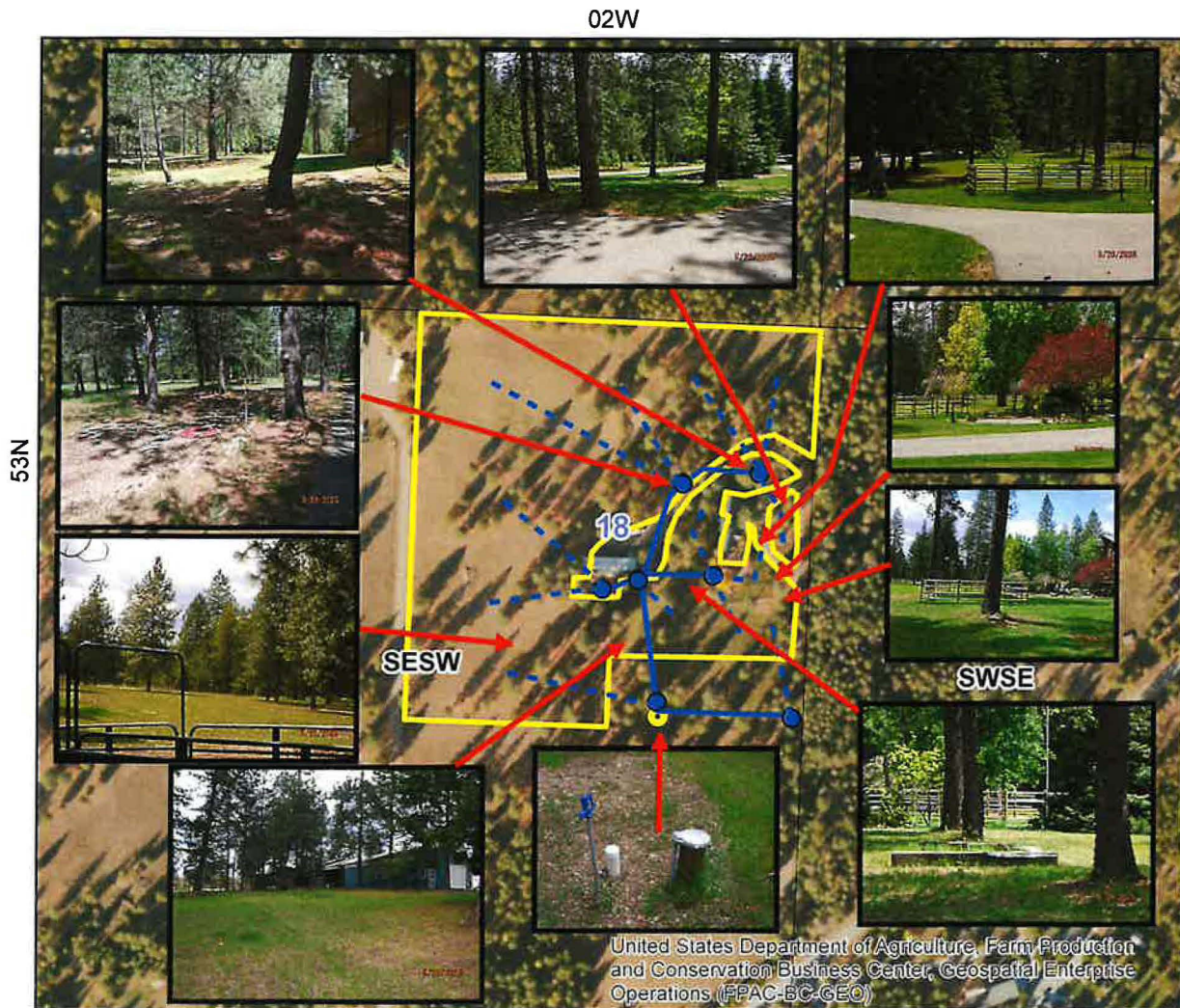
Date

12/8/2025

7/21/26

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-17665

This map depicts the IRRIGATION system diagram.



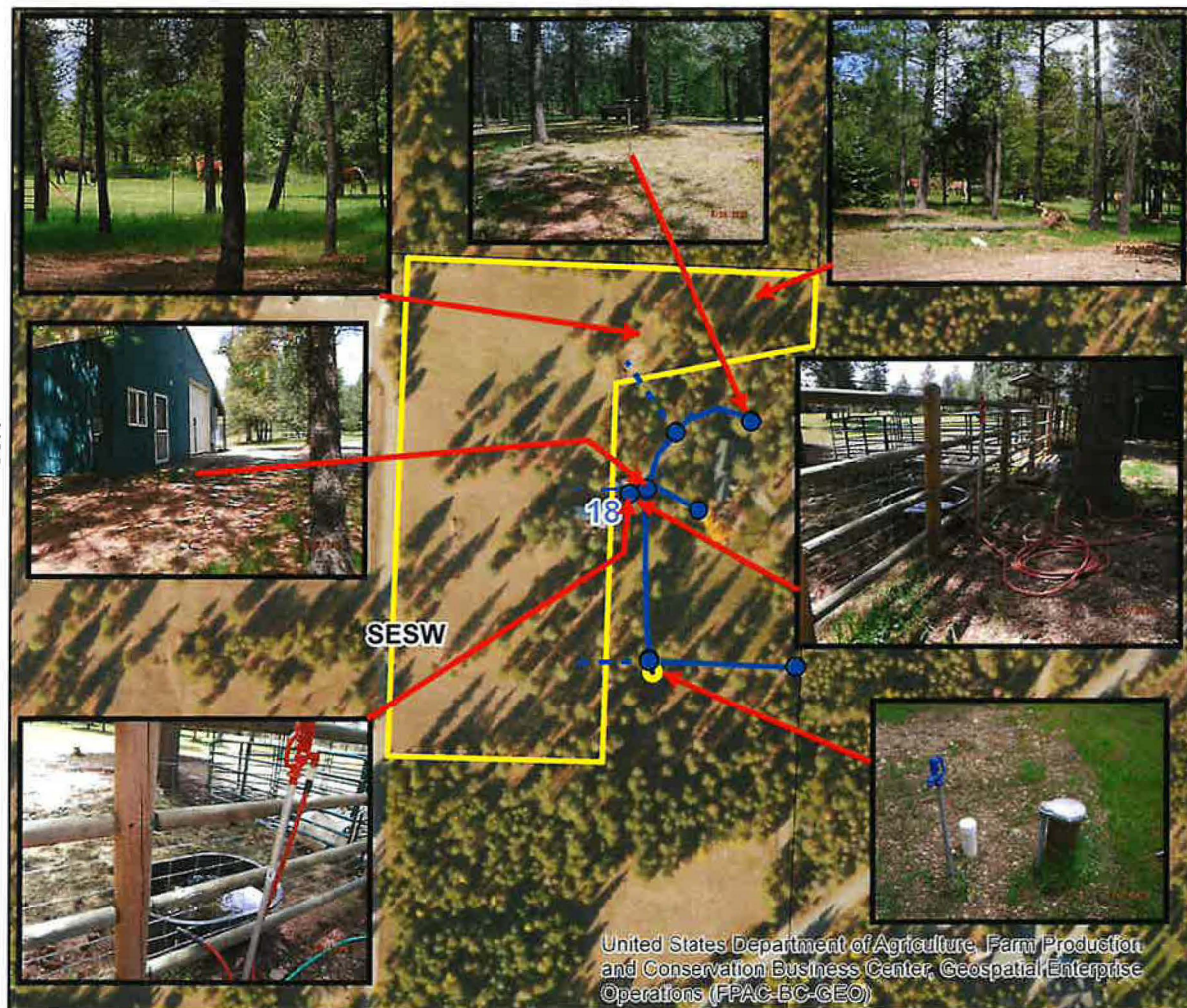
0 0.035 0.07 0.14 Miles

- Seven (7) Frost-free Irrigation Hydrants
- Place Of Use Boundary
- Point of Diversion
- Townships
- PLS Sections
- Quarter Quarters



This map depicts the STOCKWATER system diagram.

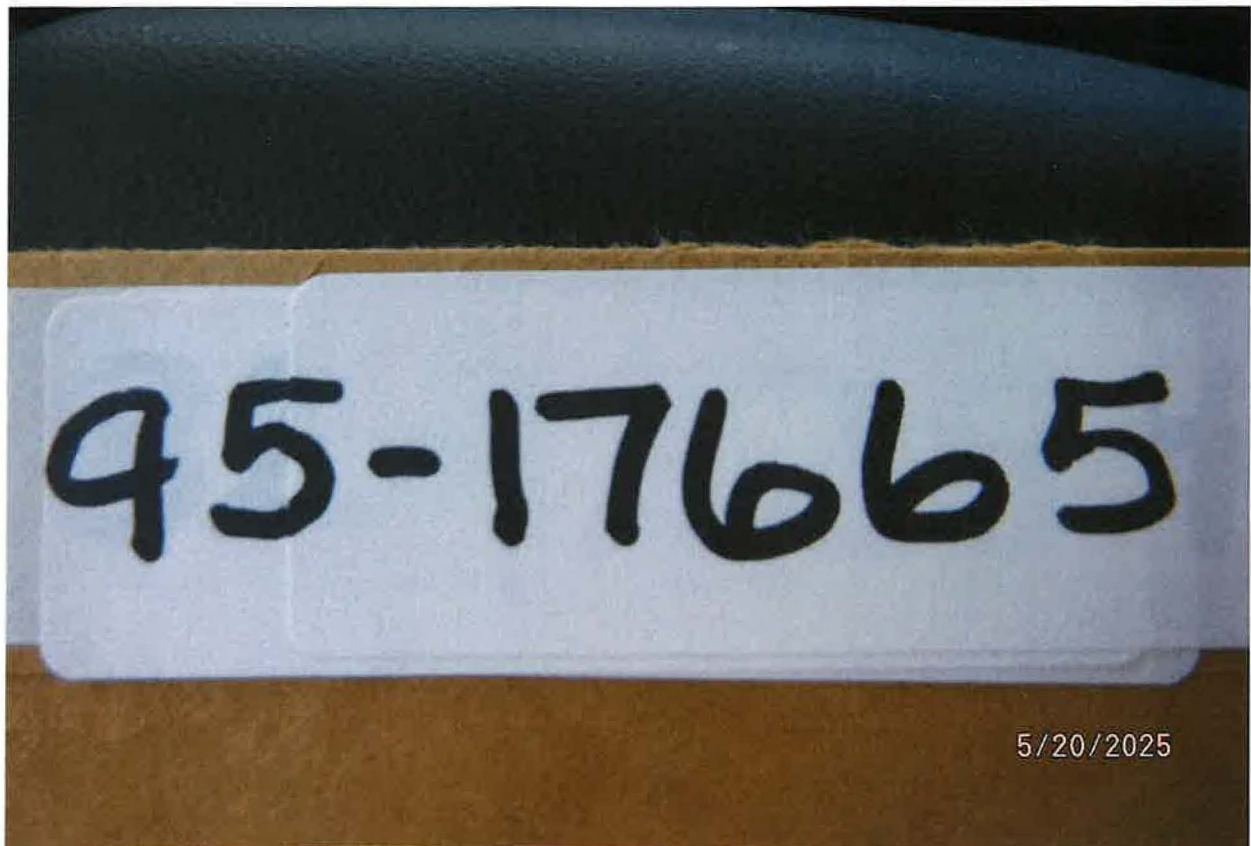
53N



0 0.035 0.07 0.14 Miles

- Seven (7) Frost-free Hydrants for Stockwater Use**
-  Place Of Use Boundary
-  Point of Diversion
-  Townships
-  PLS Sections
-  Quarter Quarters





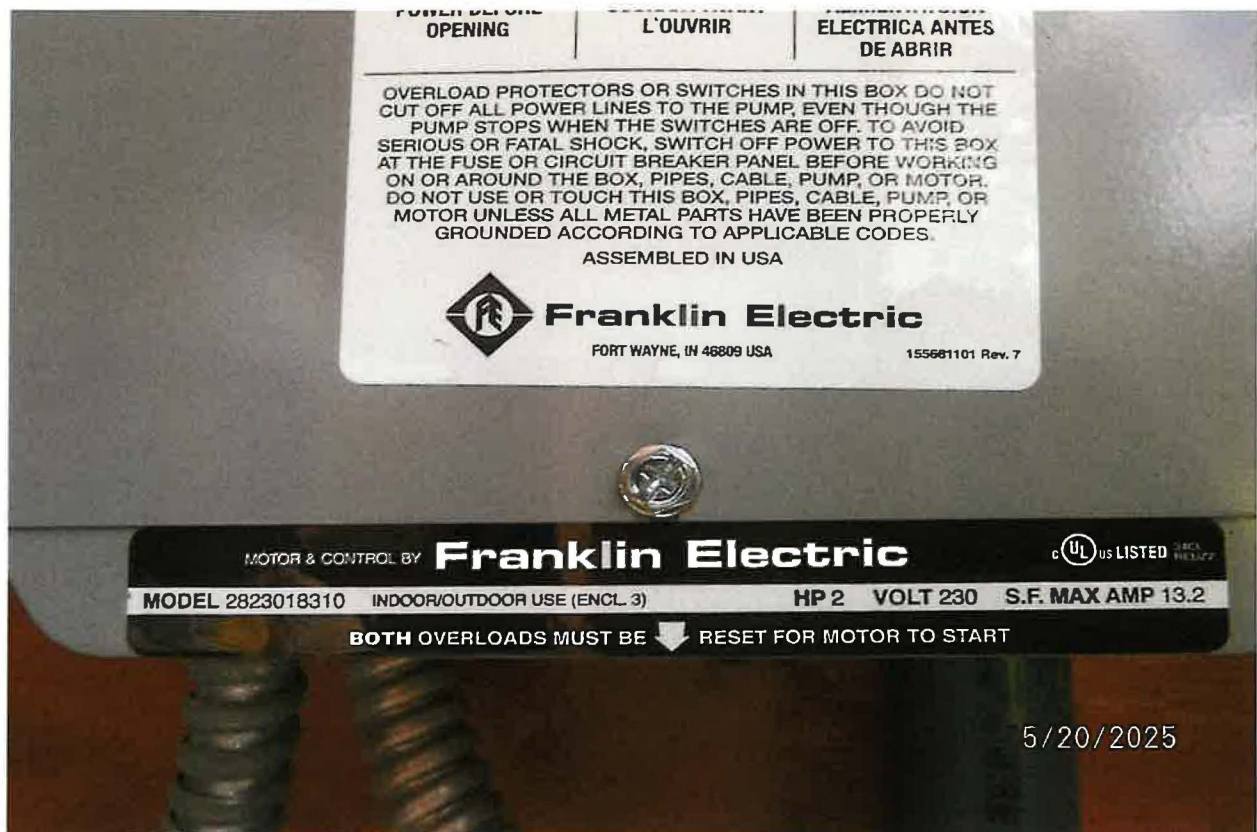
BENEFICIAL USE FIELD EXAM DATE 5/20/2025



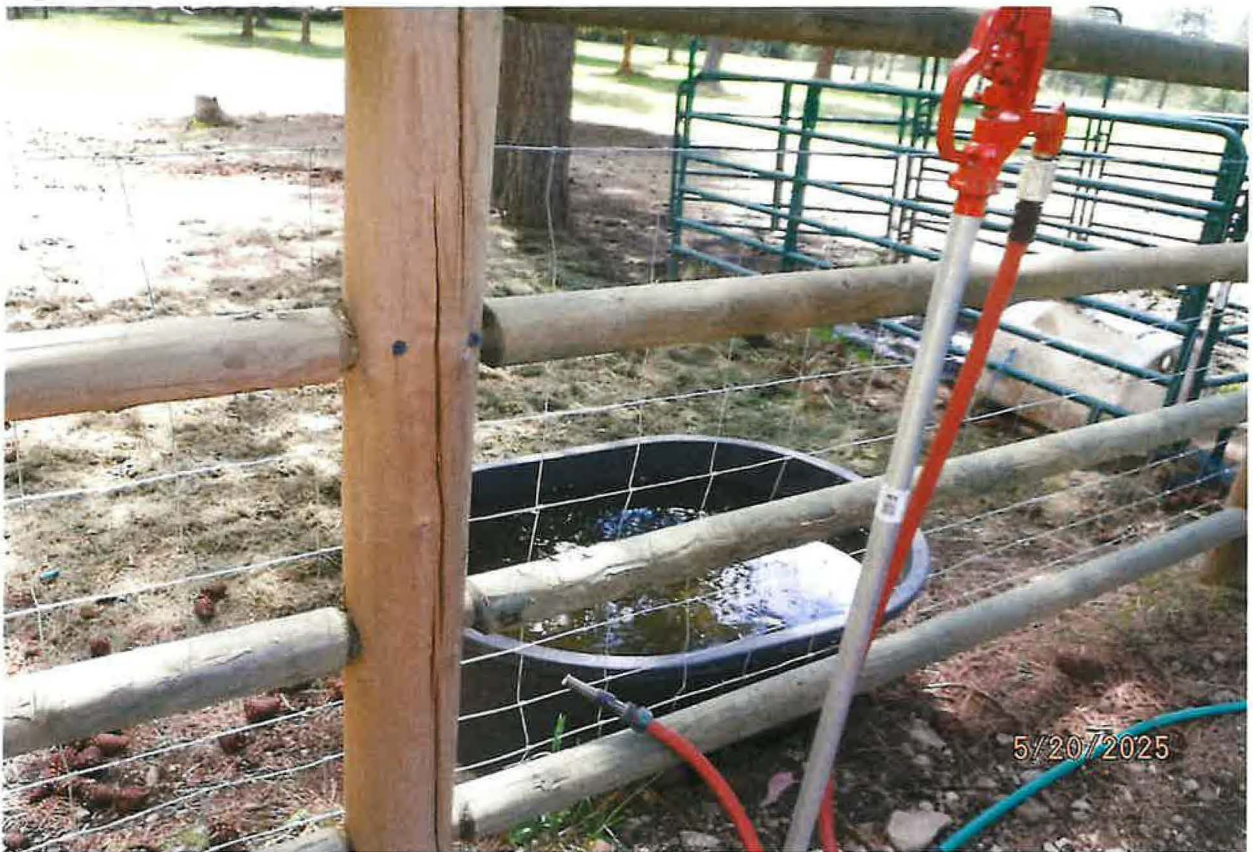
POD – 8-INCH CASED GROUND WATER WELL PERMIT NO. 96-95-N-30
CO-LOCATED FROST-FREE HYDRANT (USED FOR FLOW MEASUREMENTS)



DIVERTING WORKS – WELL PUMP MOTOR CONTROL PANEL (LOCATED INSIDE SHOP NORTH OF WELL ACROSS PASTURE)



FRANKLIN ELECTRIC PUMP MOTOR CONTROL PANEL MODEL 2823018310, 2 HP

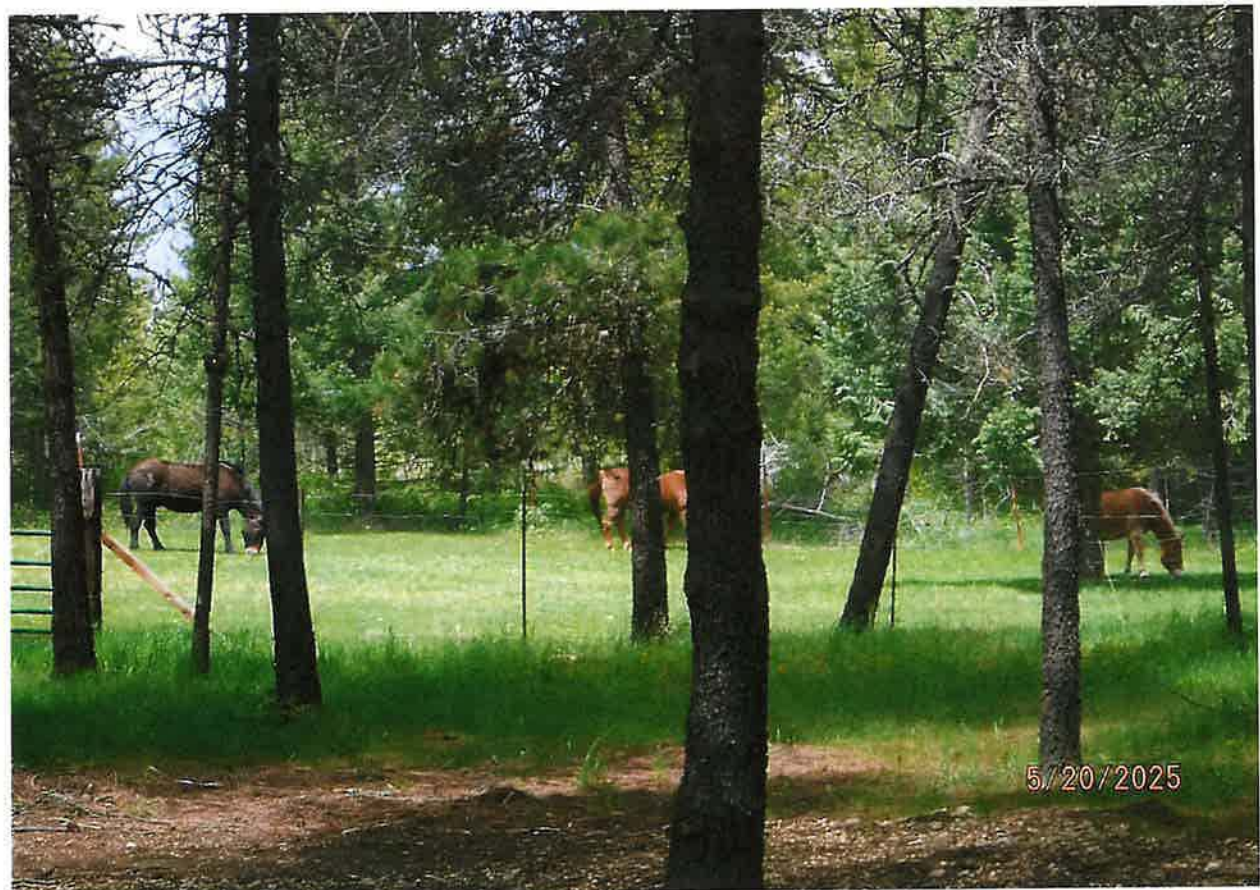


STOCKWATER POU – EXAMPLE 1-OF-7 FROST FREE HYDRANTS AND PORTABLE STOCK TANK





STOCKWATER POU – 5 HEAD MIXED STOCK (HORSES AND MULE)

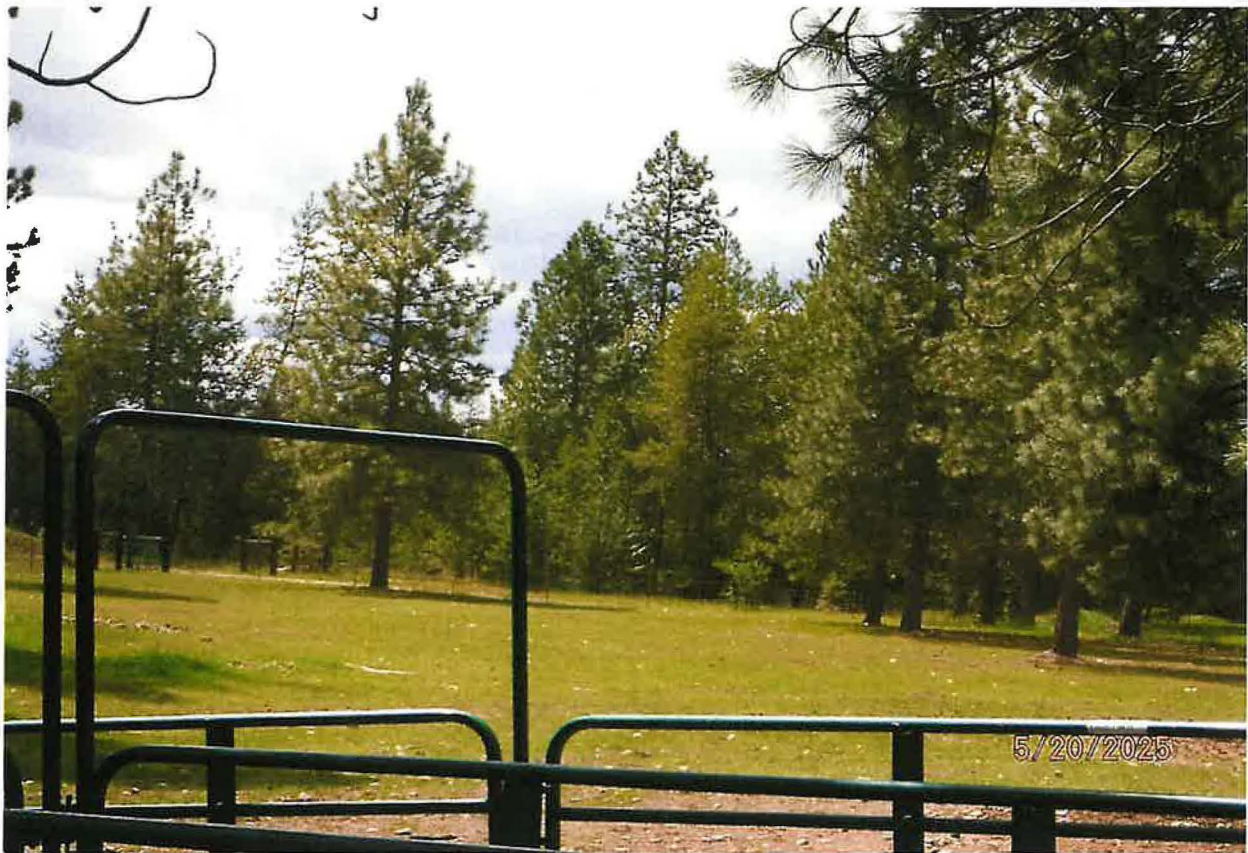




EXAMPLE – 1-OF-7 FROST-FREE HYDRANTS USED FOR IRRIGATION; 400 FT OF HOSE AND RAINBIRD TRIPOD SPRINKLERS USED TO IRRIGATE LAWN, PASTURE, AND LANDSCAPING



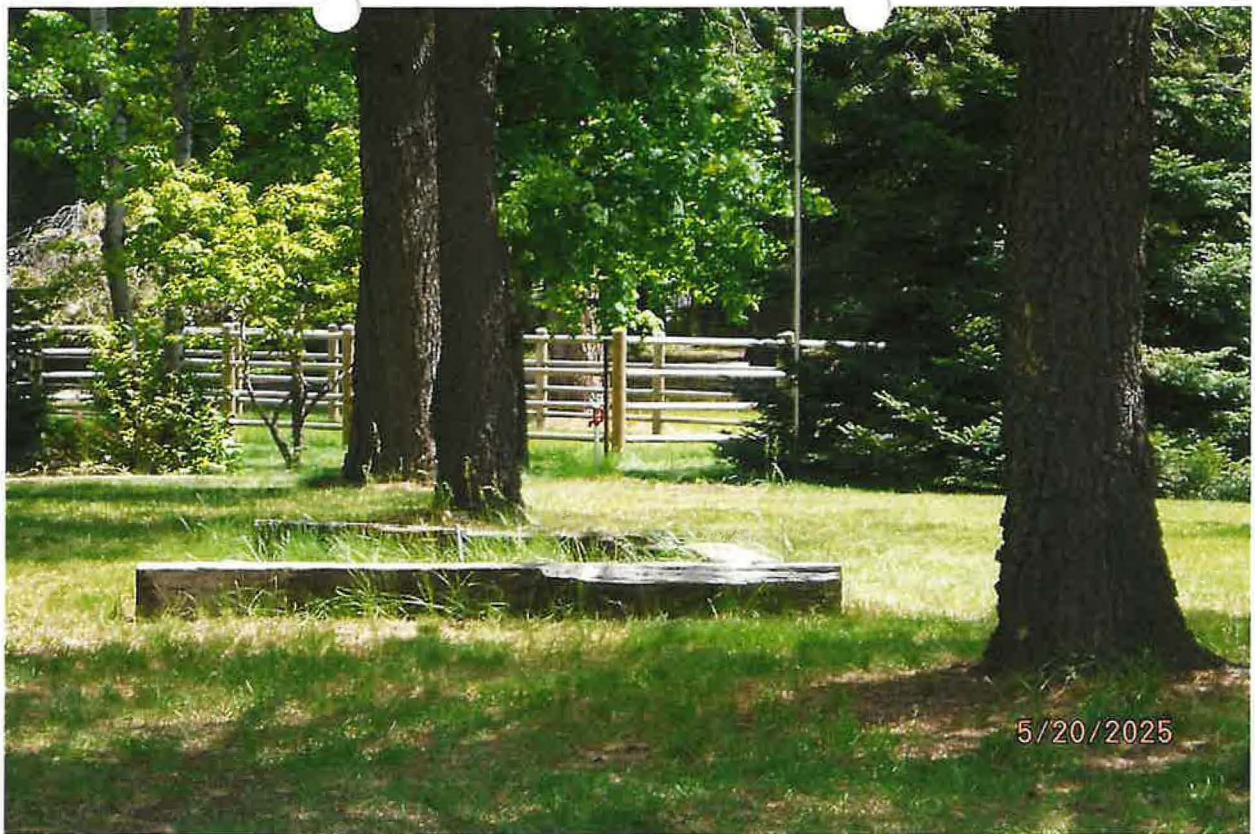
IRRIGATION POU – PASTURE AREA BETWEEN WELL AND HOUSE



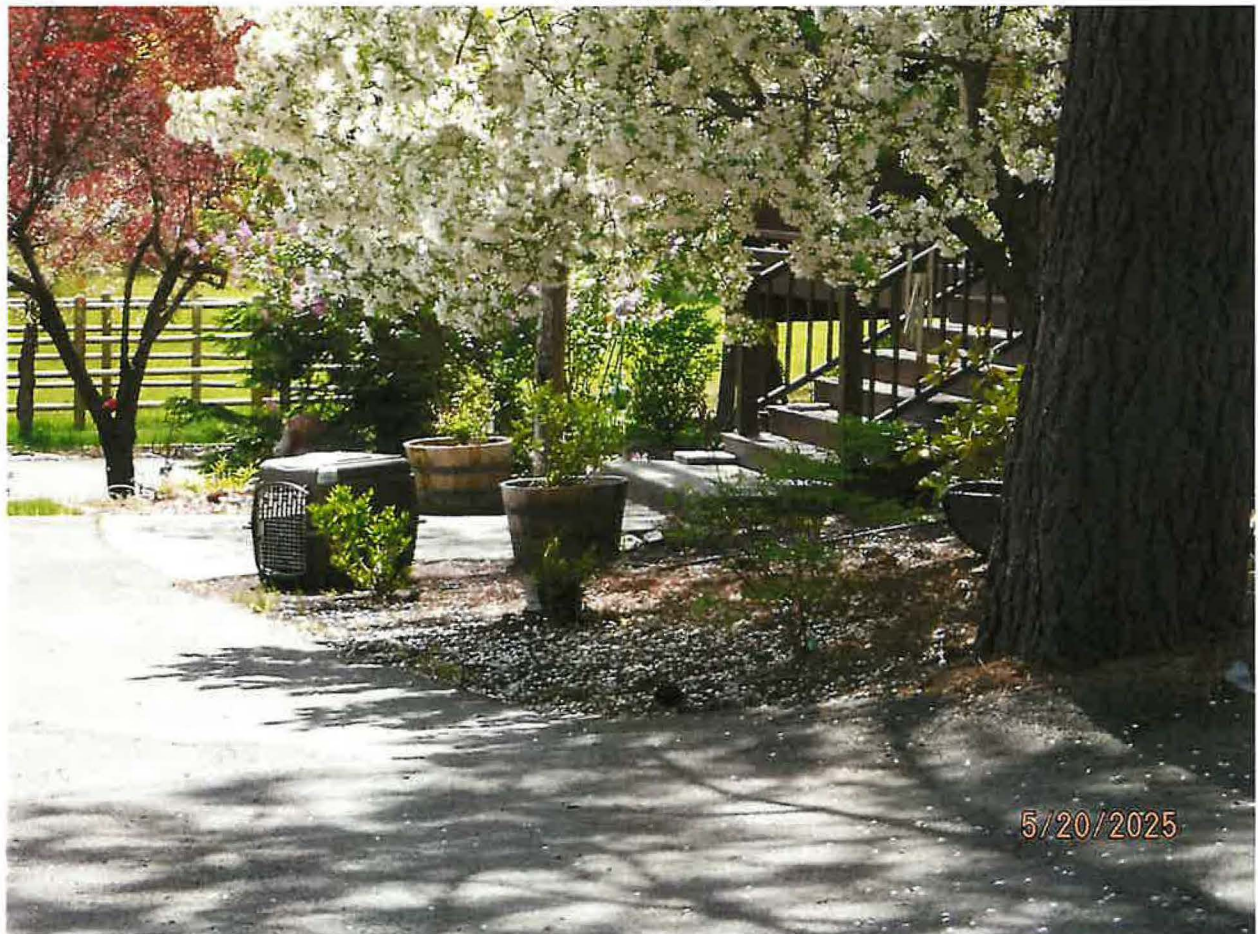
IRRIGATION POU – FENCED PASTURE AREA WEST OF SHOP/HORSE BARN;
PRIMARILY IRRIGATED LATE IN SEASON FOR STOCK FEED



EXAMPLE – 1-OF-7 FROST-FREE HYDRANTS USED TO FACILITATE IRRIGATION BY
HOSE AND SPRINKLERS

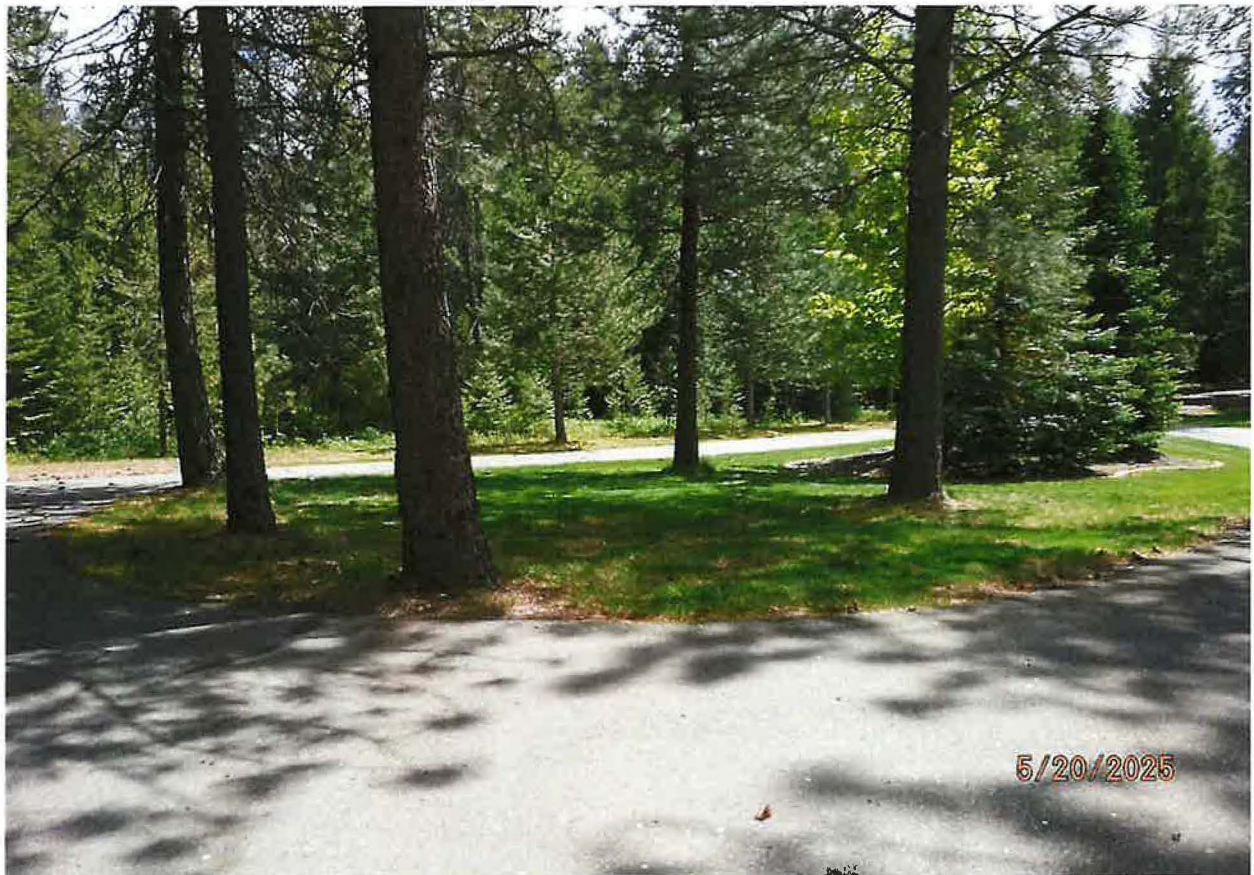


IRRIGATION POU – AREA AROUND RESIDENCE; RED FROST-FREE HANDLED
HYDRANT CONNECTS TO SOAKER HOSE SYSTEM FOR YARD/LANDSCAPE
WATERING





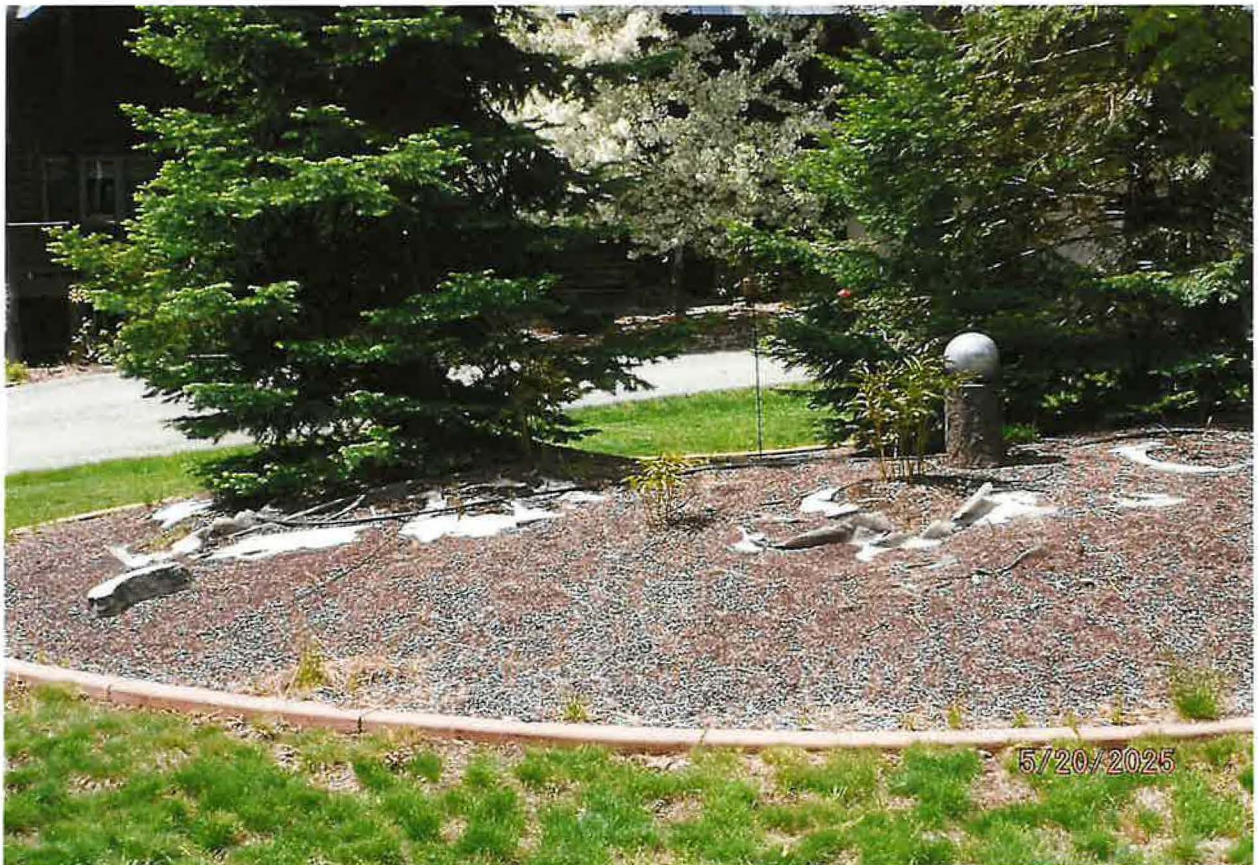
IRRIGATION POU



IRRIGATION POU



IRRIGATION POU



IRRIGATION POU