

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-7272
Exam Date: 05/15/1996

1. Current Owner:
VICTOR L THULON 28617 PRIMROSE LN JULIAETTA ID 83535-6035 AND
SHARON S THULON 28617 PRIMROSE LN JULIAETTA ID 83535-6035
2. Accompanied by: Victor Thulon
Phone No: 208-276-4411
Address: Same Rt 1 Box 34-A Juliaetta, ID 83535
Relationship to permit Holder: Permit Holder

3. SOURCE: SPRINGS

Tributary
CLEARWATER RIVER

Method of Determination: Arcmap and DGR

B. OVERLAP REVIEW

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

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|--------|
| 86-10190 | SPRING | STOCKWATER | DECREE |
| | | | |

Comments: WR 86-10190 is for stockwater use from a spring by Gene Heath, and covers the entire 40 acre tract.

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:

SPRINGS NW¼ SW¼ SE¼, Sec. 23, Twp 37N, Rge 03W, B.M. NEZ PERCE County
 SPRINGS SW¼ NW¼ SE¼, Sec. 23, Twp 37N, Rge 03W, B.M. NEZ PERCE County

Method of Determination: Maps and GPS. PODs located at -116°40.237, 46°31.941 and -116°40.262, 46°31.837.

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 | |
| 37N | 03W | 23 | | | | | | | | | | | | | | | 1.9 | | 1.9 |

Total Acres: 1.9

PLACE OF USE: DOMESTIC

[illegible]

Method of Determination: Field Exam, GPS, Arcmap.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.

X 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

4.

| Well or Diversion ID No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------|------------|----|------------------|-----------|-----------------------------------|
| NONE | | | | | |

D. FLOW MEASUREMENTS

1.

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

2. Measurements: 5 gallon bucket test was performed during field exam on 5/24/1996, to determine diversion rates in units = (5 gal / 25 sec) x 60 sec = 12gpm = Diversion Rate for license = **0.03 cfs**.

E. FLOW CALCULATIONS

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.9 \text{ ac} \times 4.0 \text{ afa} = 7.6 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 294 \times 1.9835 = 17.5$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 7.6 \text{ af}$$

2. Volume Calculations for Other Uses:

DOMESTIC for 1 home = **0.6 af** annual volume

As this is a surface water source, no there will be no volume applied to irrigation. The annual volume applied to domestic is associated with diversion rate from irrigation, resulting in no Maximum Diversion Volume applied to license.

G. NARRATIVE/REMARKS/COMMENTS

Initial field exam conducted on 5/24/1996 with applicant, Victor Thulon, showed two springs diverting water via spring box pipes to home for domestic and irrigation use. A follow-on field exam was conducted on 6/12/2018 to obtain GPS point locations for two spring PODs that were in question. A 5-gallon bucket test was completed to determine the diversion rate equaling $(5 \text{ gal} / 25 \text{ sec}) \times 60 \text{ sec} = 12 \text{ gpm} = \mathbf{0.03 \text{ cfs}}$. The applicant is limited by his system's diversion rate, and both Irrigation and Domestic components will be assigned 0.03 cfs, which is not additive, resulting in a Maximum diversion rate of **0.03 cfs** which will be applied to license.

Domestic use was for 1 home found during field exam on 5/24/1996. The department annual volume for 1 home = **0.6 af**, which will be applied to annual volume on license. Due to irrigation component being a surface water source, the 0.6 af will not be applied as a maximum diversion volume on license. Since the initial field exam, aerial imagery shows a second home, but as it was constructed after time of license is not factored at time of license.

From discussion with applicants, it was found that Victor Thulon has an illness that has caused the irrigated orchard area to not be kept up as it should be. During field exam performed on 5/24/1996, 4.4 acres was identified for irrigation. During follow on field exam conducted 6/12/2018, less than 4.4 acres was identified. The irrigated area was sketched out and at time of licensing review irrigated acreage was traced out using arcmap aerial imagery equaling 1.9 acres. Current technology enables past year aerial imagery to be referenced, and more accurately capture irrigated areas from the mid-1990s, which support the value of 1.9 acres of irrigation. The annual volume for the irrigation component equals $1.9 \text{ ac} \times 4.0 \text{ afa} = 7.6 \text{ af}$, but as this is a surface water source, no volume is applied to the license.

When this water right was permitted on 12/6/1994, topographic maps were used to assign POD locations. Since that time there have been several updates to both tax lot and PLS mapping systems, resulting in shifting of Section and QQ designator lines. The POD locations on Permit do not match the POD location at time of licensing, but due to this shift in aerial imagery no amendments are recommended, and license is recommended to be approved as it is.

Condition 03A was removed, and replaced with R68 to describe rate of diversion for irrigation not to exceed 0.03 cfs nor more than 4.0 afa at headgate. Condition X35 was added to describe overlap limitations for WRs 86-7315 and 86-7272 for domestic and irrigation diversion rates. All other conditions from permit will remain on license. WR 86-10190 is for stockwater use from a separate spring, covers the entire 40 acre tract as this water right, and is not a concern for overlap. WR 86-7315 overlaps this water right and is assigned to the same applicants, and condition X35 was added to mitigate overlap concerns.

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 | 02/15 to 11/30 | 0.03 CFS | |
| DOMESTIC | 1/01 to 12/31 | 0.03 CFS | 0.6 AF |

Totals: 0.03 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

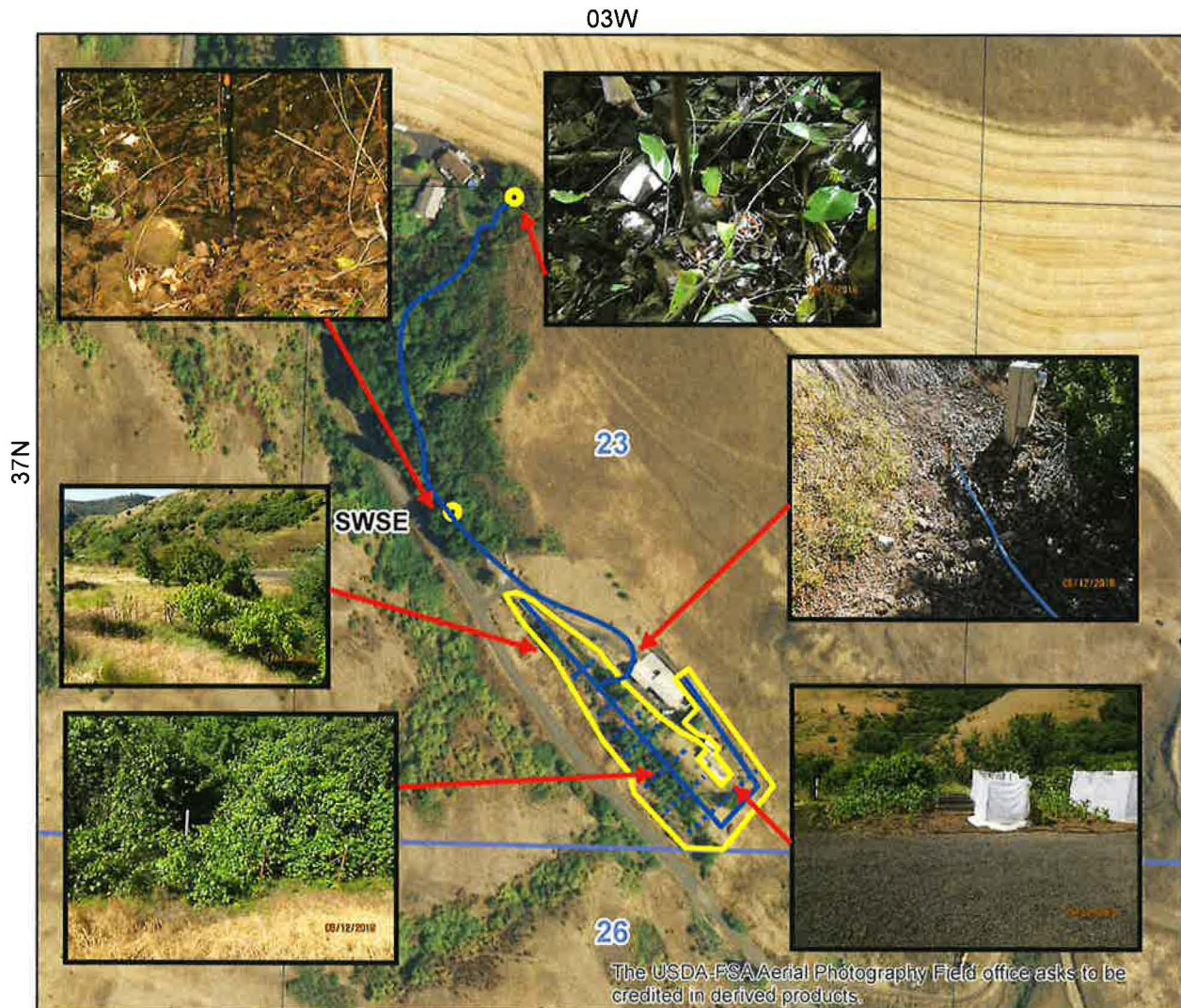
I. AUTHENTICATION Luke Bates - Water Resource Agent






Field Examiner's Name Adam Franklin Date 5/27/2020

Reviewer Luke Bates Date 5/21/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
86-7272

IRRIGATION system diagram.



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

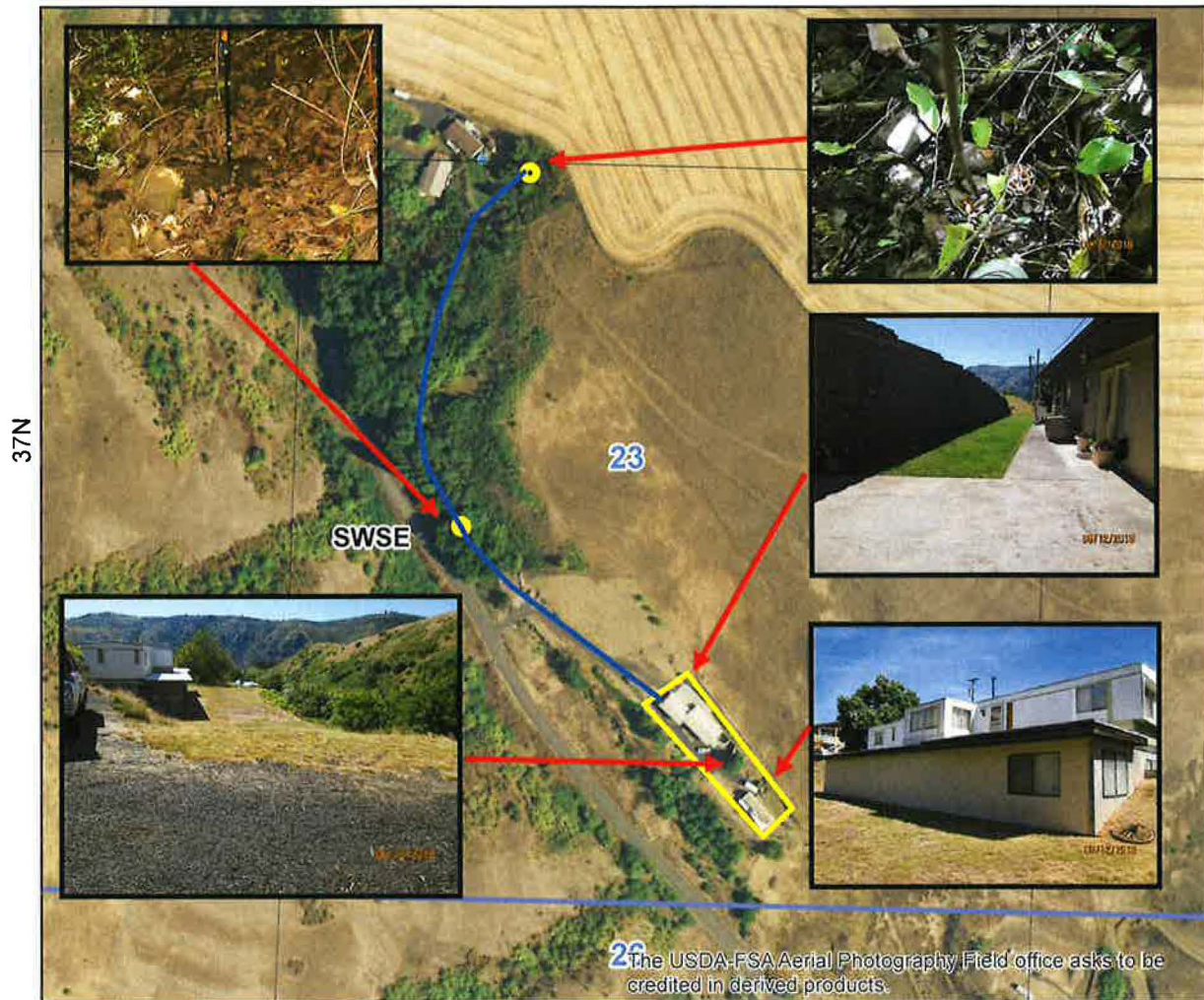
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DOMESTIC system diagram

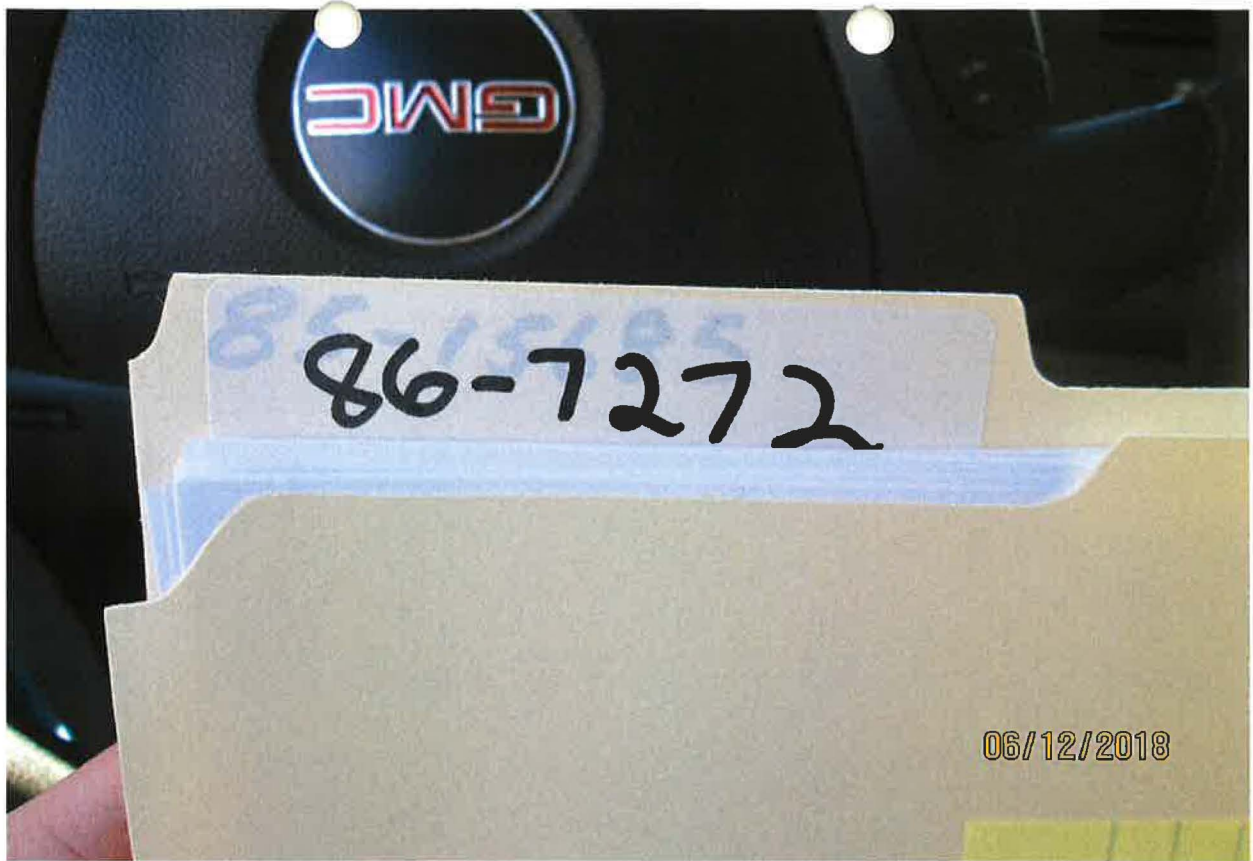
03W



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

0 0.04 0.08 0.16 Miles





POD SPRING -116°40.237, 46°31.941



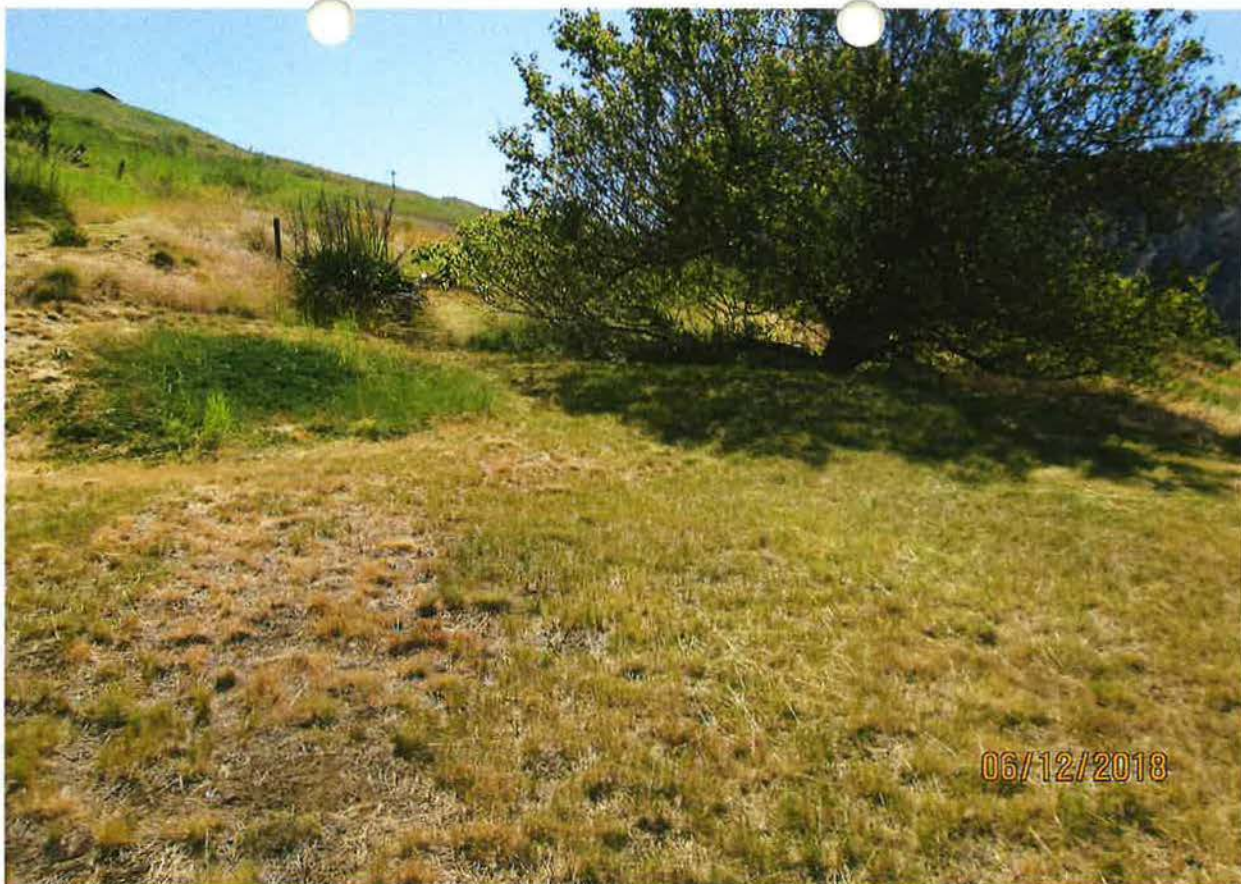
POD SPRING -116°40.262, 46°31.941





DOMESTIC POU





IRRIGATION POU





IRRIGATION POU





FROST FREE HYDRANT



IRRIGATION ORCHARD POU



IRRIGATION ORCHARD POU

