

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9388

Exam Date: 07/30/2020

1. Current Owner:

DAVID P GIBSON PO BOX 969 POST FALLS ID 83877 AND/OR
LINDA K GIBSON PO BOX 969 POST FALLS ID 83877 AND/OR
GARY L GIBSON PO BOX 969 POST FALLS ID 83877

2. Accompanied by: David Gibson.

Phone No: 208-660-3970.

Address: Same as above.

Relationship to permit Holder: Permit Holder.

3. **SOURCE:**

GROUND WATER

Method of Determination: DRG and Arcmap

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

GROUND WATER SE¼ SW¼, Sec. 29, Twp 51N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS; POD is a well D0051245 located at -116°59.767, 47°43.951.

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	
51N	05W	29												1.3					1.3

Total Acres: 1.3

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	
51N	05W	29												X					

Method of Determination: Field Exam and Arcmap.

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
D0051245	UNKOWN	5			

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Three 5 gallon bucket tests were completed from frost free hydrant piped direct from well, with average of three resulting in diversion flow rate of 5 gal / 11.93 sec x 60 sec/min = 25.16 gpm = **0.06 cfs**.

E. FLOW CALCULATIONS

Measured Method: 5 GAL Bucket Test = (5 gal / 11.91 sec) x 60 sec/min = 25.19 gpm
 = (5 gal / 11.74 sec) x 60 sec/min = 25.55 gpm
 = (5 gal / 12.13 sec) x 60 sec/min = 24.73 gpm

Average of 3ea 5 GAL Bucket Tests = (25.19 gpm + 25.55 gpm + 24.73 gpm) / 3 = 25.16 gpm = 0.06 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.3 \text{ ac} \times 3.0 \text{ afa} = 3.9 \text{ af}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 246 \text{ days} \times 1.9835 = 29.28 \text{ af}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{3.9 \text{ af}}$

2. Volume Calculations for Other Uses:

Stockwater Annual Volume = 15 head mixed stock x 12 gpd x 365 days = 65,700 gal / 325,850 gal/af = **0.2 af**.

Combined Maximum Diversion Volume = 3.9 af (irrigation) + 0.2 af (stockwater) = **4.1 af**

State of Idaho
Department of Water Resources
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IRRIGATION system diagram.



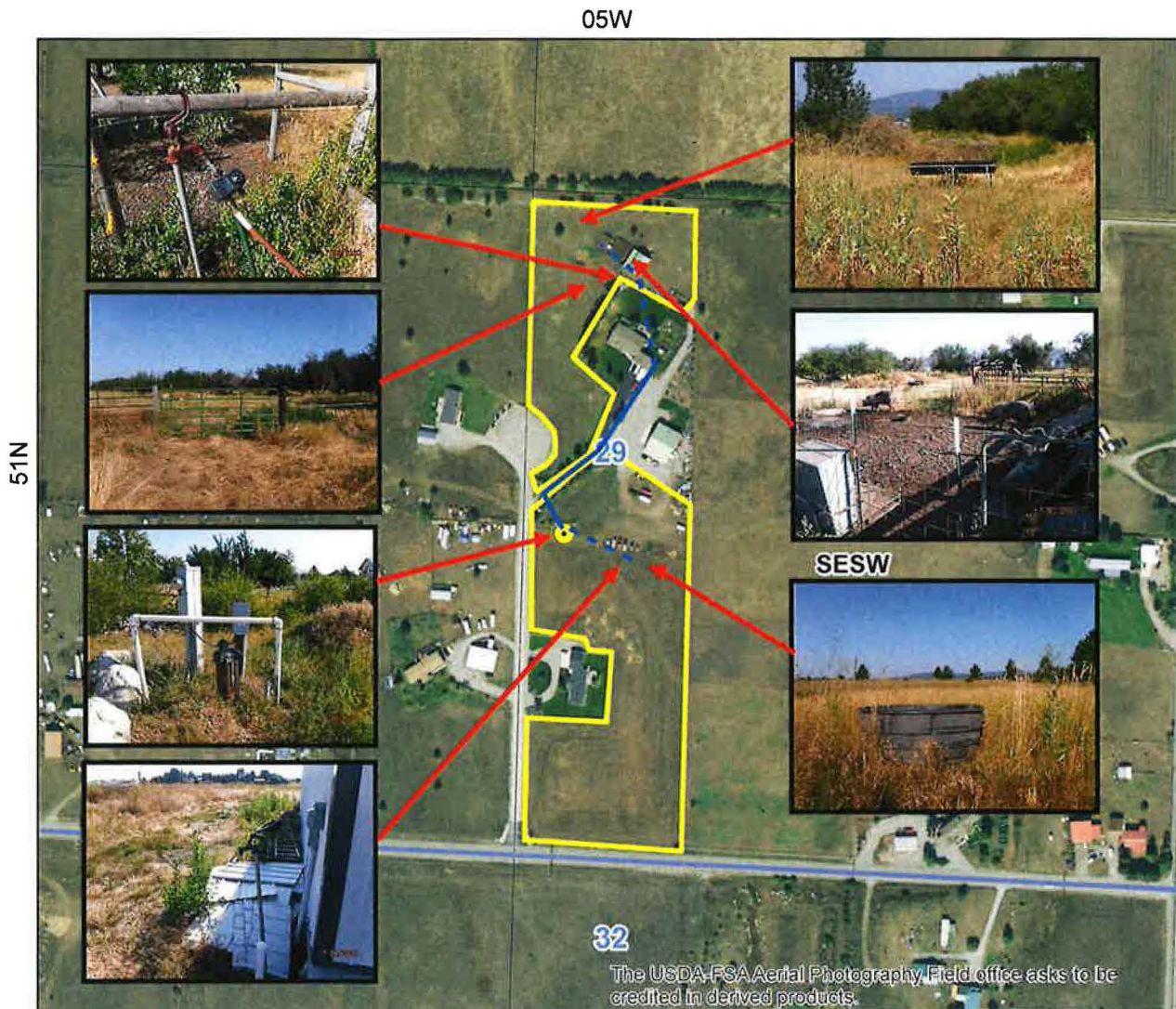
- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.035 0.07 0.14 Miles



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STOCKWATER system diagram.



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

0 0.0425 0.085 0.17 Miles





POD - WELL D0051245



POD – WELL D0051245



5 HP PUMP



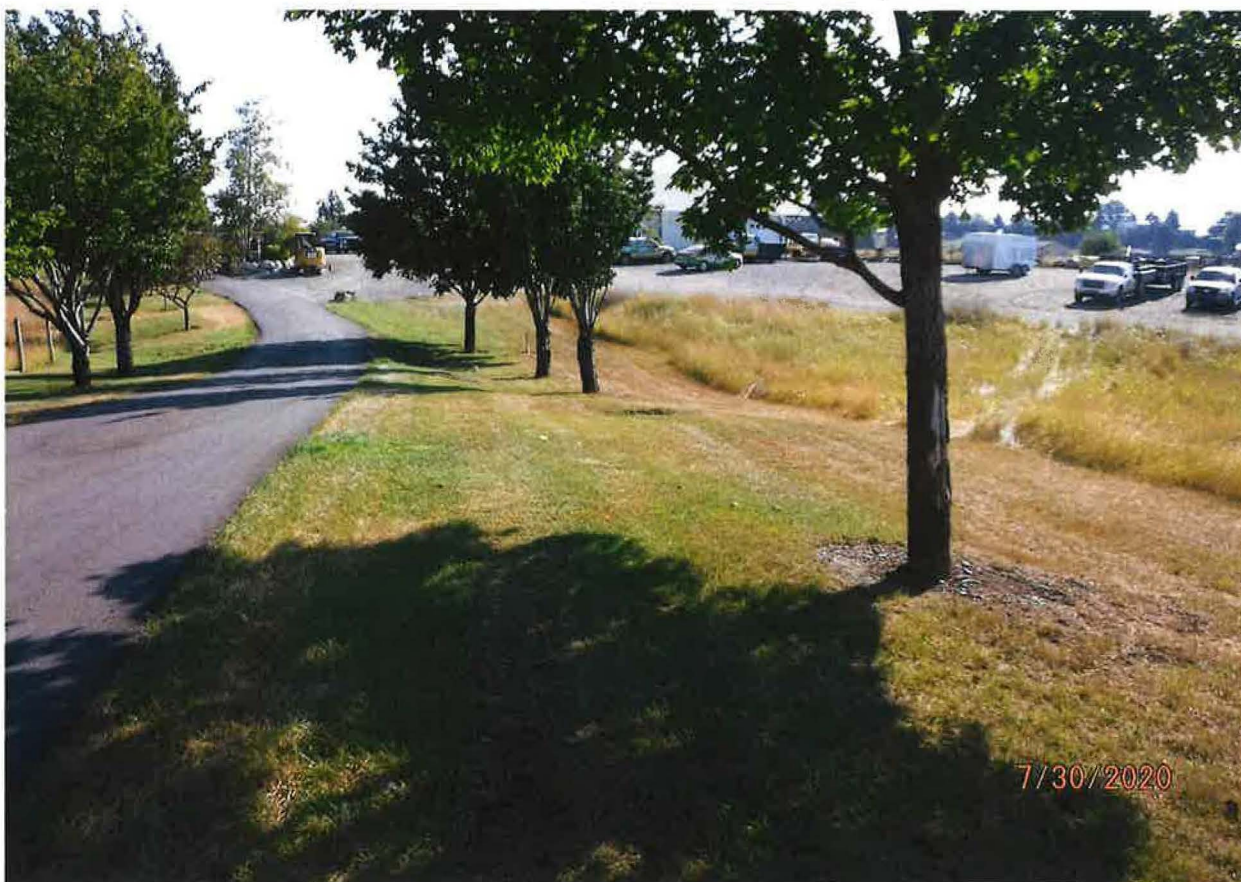
IRRIGATION POU





IRRIGATION POU





IRRIGATION POU



IRRIGATION OF LAWNS BY PRESSURIZED SPRINKLER SYSTEM



IRRIGATION POU





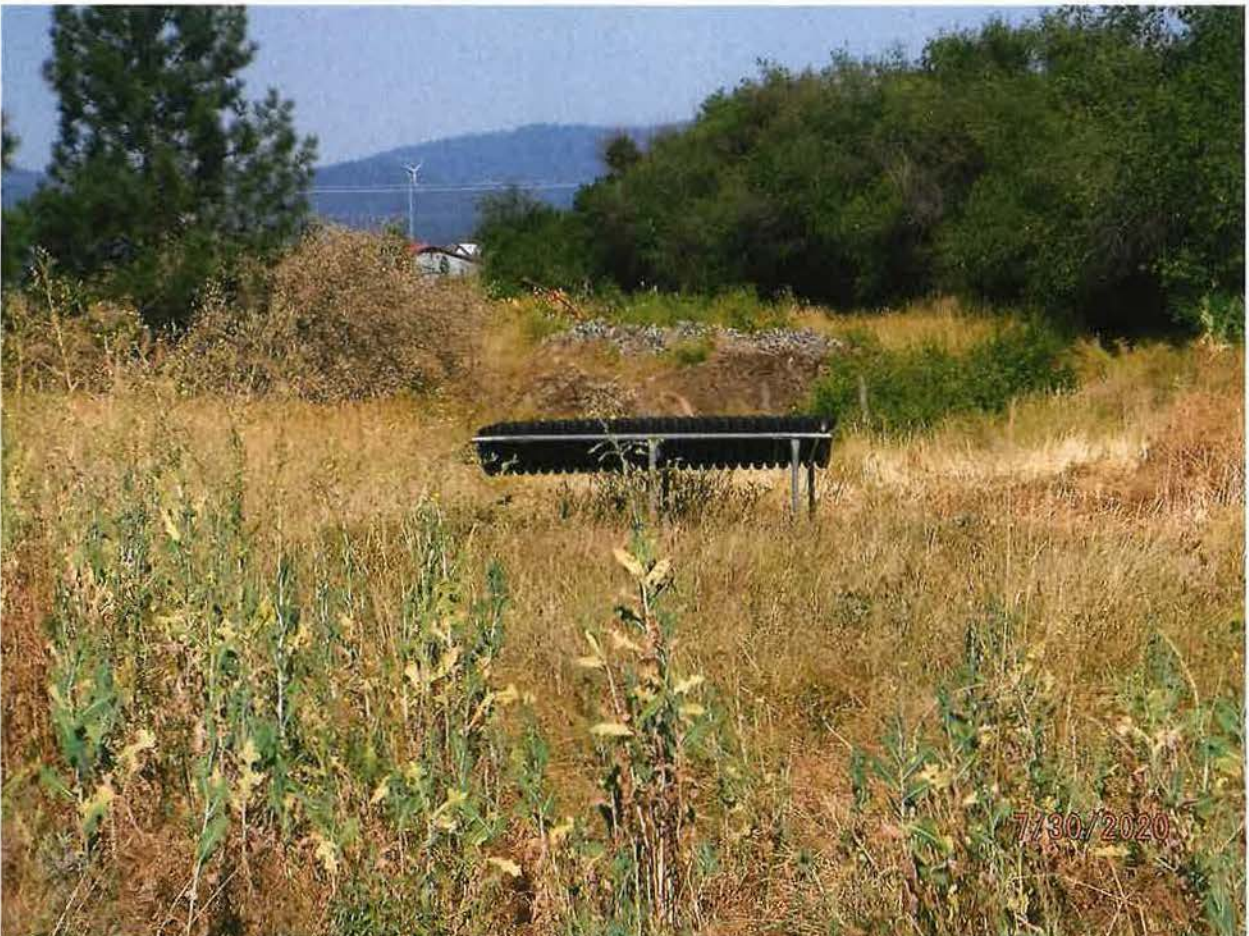
IRRIGATION POU



IRRIGATION OF GARDEN BY HOSE AND SPRINKLER



STOCKWATER POU





STOCKWATER POU





STOCKWATER POU



5 GAL BUCKET FLOW MEASURMENT