

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

**Permit No:** 95-17301  
**Exam Date:** 06/08/2020

1. Current Owner:  
KARL GEORGE PO BOX 163 HARRISON ID 83833
2. Accompanied by: Permission granted by Karl George to be Un-Accompanied  
Phone No: 509-290-0602  
Address: Same as above  
Relationship to permit Holder: Permit Holder

3. **SOURCE:**  
GROUND WATER

**Method of Determination:** Arcmap and DRG.

**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 SYSTEM**

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

GROUND WATER L6 ( SW¼ SE¼), Sec. 17, Twp 48N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS. POD located at -116°4.597, 47°29.909. Well D0056468.

**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 |        |
| 48N | 03W | 17  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.4<br>L6 |    | 1.4    |

Total Acres: 1.4

**PLACE OF USE: DOMESTIC and 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 |        |
| 48N | 03W | 17  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X<br>L6 |    |        |

Method of Determination: Field Exam and 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 |
|---------------------------|------------|----|------------------|-----------|-----------------------------------|
| D0056468                  | UNKOWN     | 2  |                  |           |                                   |

#### 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, with average of three resulting in diversion flow rate = 21.78 gpm = **0.05 cfs**.

#### E. FLOW CALCULATIONS

Measured Method: Measured Method: 5 GAL Bucket Test = (5 gal / 14.01 sec) x 60 sec/min = 21.41 gpm  
 = (5 gal / 13.70 sec) x 60 sec/min = 21.90 gpm  
 = (5 gal / 13.61 sec) x 60 sec/min = 22.04 gpm  
 Average of 3ea 5 GAL Bucket Tests = (21.41 gpm + 21.90 gpm + 22.04 gpm) / 3 = 21.78gpm = 0.05 cfs

#### F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ ac} \times 3.0 \text{ afa} = 4.2 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 246 \times 1.9835 = 24.4$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{4.2 \text{ af}}$$

2. Volume Calculations for Other Uses:

Stockwater component annual volume = 15 goats x 2 gpd x 365 days = 10,950 gal & 10 chickens x 0.1 gpd x 365 = 365 gal

Combined total Stockwater Annual Volume = 10,950 gal (goats) + 365 gal (chickens) = 11,315 gal / 325,850 gal per af = 0.03 af which defaults to **0.1 af** considering this is the minimum volume the Department can apply to volume computations.

Domestic component annual volume (without irrigation included) = **0.6 af**.

Maximum diversion volume = 0.6 af (domestic) + 4.2 af (irrigation) + 0.1 af (stockwater) = **4.9 af**.










State of Idaho  
Department of Water Resources  
**Attachment to Field Exam**  
95-17301

DOMESTIC system diagram.



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

0 0.025 0.05 0.1 Miles










State of Idaho  
Department of Water Resources  
**Attachment to Field Exam**  
95-17301

IRRIGATION system diagram.



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

0 0.04 0.08 0.16 Miles








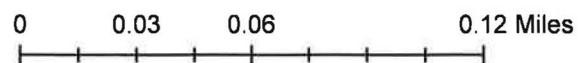


STOCKWATER system diagram.

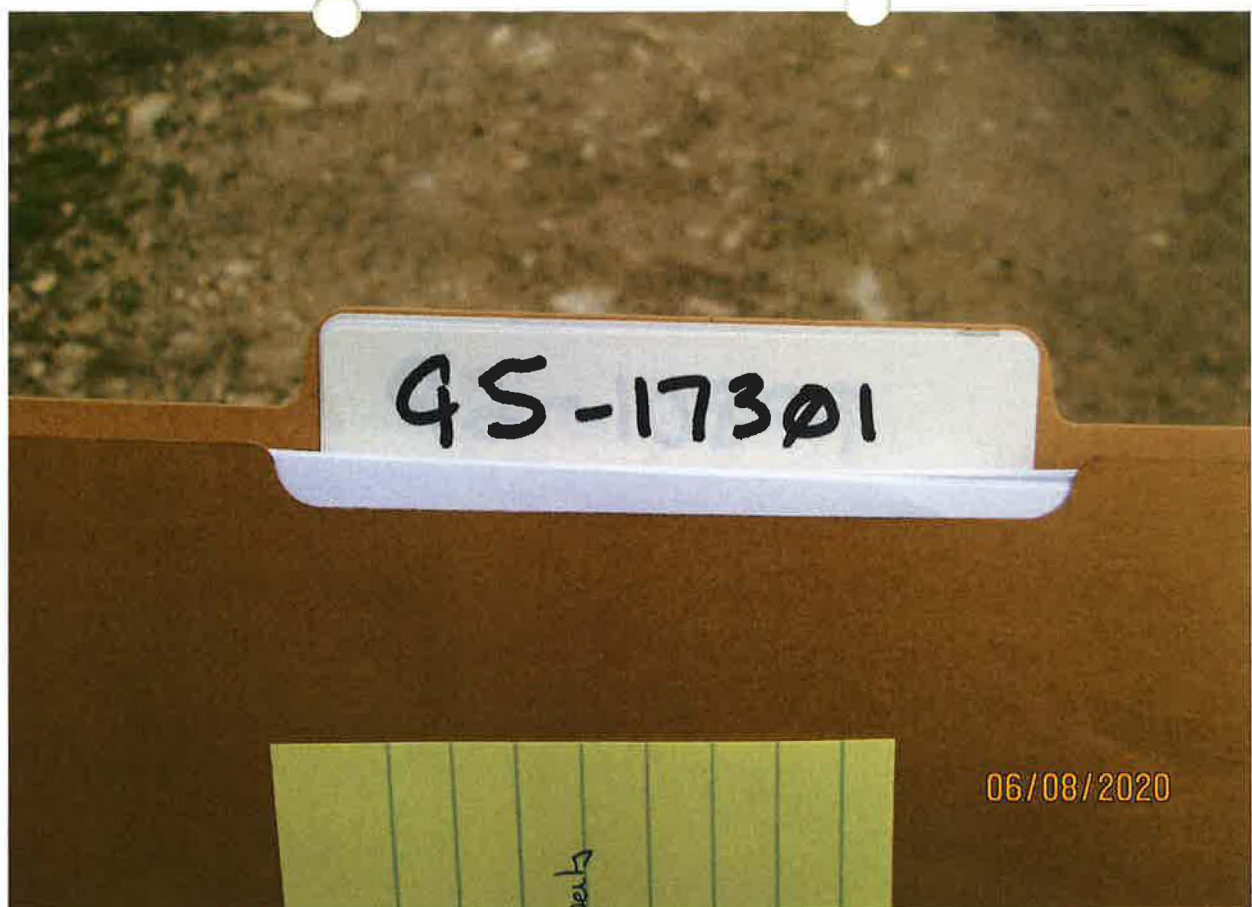
48N



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







POD - WELL D0056468





WELL D0056468



DOMESTIC POU





IRRIGATION POU







FROST FREE HYDRANT



IRRIGATION POU





IRRIGATION POU







SPRINKLERS FOR IRRIGATION







STOCKWATER POU







IRRIGATION POU – IMAGE PROVIDED BY APPLICANT



STOCKWATER POU – IMAGE PROVIDED BY APPLICANT