

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 95-17931Exam Date: < > 6/5/20

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N /
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other

2. Current Owner: Name: Andreas and Kathleen Knapp

Owner of Record Correct? X Y N /Address of Record Correct? X Y N /

If No: Address

3. Fees have been paid: X Y N Receipt No: No fee required /**4. SOURCE****TRIBUTARY**

Groundwater

Method of Determination: Statement of completion and well logs /

Change in Source: Y X N /**B. OVERLAP REVIEW**1. Other water rights with the same place of use: X NONE

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
| | | | |
| | | | |

Comments: WR 95-8402 is a domestic and irrigation right with a nominal shape that overlaps the permit under review. In reviewing the backfile of 98-8402 it is evident that the POU is actually for the Woodland Shores development, which is a series of lots north and east of the POU for 95-17931.

2. Other water rights with the same point of diversion: X NONE

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
| | | | |
| | | | |

Comments: No overlap

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

| Source | Govt. Lot | ¼ | ¼ | ¼ | Sec | Twp. | Rge. | | County |
|-------------|-----------|---|----|----|-----|------|------|------|----------|
| Groundwater | 6 | | SW | SW | 17 | 48N | 04W | B.M. | Kootenai |
| | | | | | | | | B.M. | |
| | | | | | | | | B.M. | |

Method of Determination: GIS examination

Change in POD? Y X N Amendment Required? Y X N

2. **PLACE OF USE:** DOMESTIC

| 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 | 04W | 17 | | | | | | | | | | | X L6 | | | | | | |

Method of Determination: GIS Examination

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 |
|---------------------------|------------|----|------------------|-----------|-----------------------------------|
| D0035233 | | | | | |

* Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| | | | | | | |

2. Measurements: None Taken

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

N/A

Measurement = none taken

Permit allowed = 0.04 cfs

0.04 cfs per Admin AP Memo 22 for 1 home

0.04 per BU Exam fee \$0

License recommended for 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Domestic use volume 1.2 af per processing memo 22 for a single home with ½ acre of irrigation included.

G. PURPOSE OF USE

Irrigation ☐ Y ☒ X ☐ N # Stock Domestic # of Homes 1

Other:

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Statement of completion and GIS examination

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

Statement of completion was submitted by Anderas and Kathleen Knapp on May 20, 2020. The permit was for one home and included a half-acre of irrigation. The permit application and statement of completion reference well tag D0035233 as the point of diversion (POD). Examination of the wells spatial data confirmed this well is in the same location as the POD on the permit. In examining aerial imagery, it is clear that this home was just recently built, as there is no structure in place in 2017 imagery and it is present in the 2019 imagery. In 2019 imagery, it appears the home was recently completed and the yard was still under development. Examination of Max NDVI data through June 3, 2020, using the Climate Engine remote sensing data app provided no definitive proof that the cleared area around the home was being irrigated, however since this is such new construction, it is completely reasonable to believe the landscaping/lawn area has not completely grown in yet but is actively being irrigated. The place of use (POU) was determined by outlining the home and the cleared area around the home, excluding the driveway area.

Condition 046 was removed from the license. Conditions X01, 187 and 004 will all be retained on the license.

Have conditions of permit approval been met? ☒ X Yes ☐ No

I. RECOMMENDATIONS**1. Recommended Amounts**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| Domestic | 01/01 – 12/31 | 0.04 CFS | 1.2 AF |
| <u>Totals:</u> | | 0.04 CFS | 1.2 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

Other:

J. AUTHENTICATION Scott Storms, Water Resource Agent, Senior

Field Examiner's Name

Date

6/5/2020

Reviewer

Date

6/30/20

2017 Aerial Imagery



2019 Aerial Imagery

