

IN-OFFICE BENEFICIAL USE FIELD REPORT

Permit No: 63-33576

Examiner: CP

Date: 12/01/16

In-office qualification (IDAPA 035.01.r):

- ☒ Irrigation $\leq$ 5 acres
☐ Stockwater storage $\leq$ 14.6 af
☐ Total diversion rate $\leq$ 0.24 cfs and not irrigation or storage

Current Owner Name: Daniel Knorpp

Address: 17134 Big Sage Ct. Caldwell, Idaho 83607

Beneficial Use Fee Paid: \$50.00

Receipt: C096240

Source: Groundwater

 Source change? ☒ N ☐ Y Change clarifies originally intended source.
 If not – void permit.

Point of Diversion			NE				NW				SW				SE			
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
05N	03W	18	X															

Method of Determination: Description and coordinates on well log. Well head apparent in Google street view images, description confirmed using aerial imagery and digital PLS mapping

POD change? ☒ N ☐ Y

Place of Use			NE				NW				SW				SE				Totals
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	03W	18	0.8																0.8
			X																

Method of Determination: Irrigation and domestic use apparent from aerial imagery,

POU change? ☒ N ☐ Y

Purpose of Use: Irrigation and Domestic

Purpose change? ☒ N ☐ Y

Method of Determination: House is apparent from aerial images, area surrounding house is irrigated yard, small pasture to the north looks possibly irrigated when viewed from Google street view

Standard Season of Use: Irrigation: 03/01 - 11/15

Domestic: 01/01 - 12/31

Update required on license? ☒ N ☐ Y**Overlap Review**POD overlap? ☒ N ☐ Y WR's:Analysis Attached ☒

Comments: All other WR's in QQ are from surface water sources

POU overlap? ☒ N ☐ Y WR's:

Comments: Property lies within irrigation district but does not appear to receive water from it

Diversion Rate

Permitted Rate: 0.06 cfs

BU Standard Limit: 0.06 cfs

BU Fee Limit: 0.20 cfs

Theoretical (optional): cfs

Recommended Total Div Rate: 0.04 cfs**Annual Volume**

For Irrigation:

0.02 cfs x 1.9835 x 260 days = 10.3 af

0.8 acres x 4.5 af/ac (FHR) = 3.6 af

Smaller of two volumes = 3.6 af

For other uses: Domestic: 0.6 af, irrigation is separate (per memo #22)

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Recommended Amounts

Beneficial Use	Season of Use	Diversion Rate (cfs)	Annual Volume (af)
Irrigation	03/01 - 11/15	0.02	3.6
Domestic	01/01 - 12/31	0.02	0.6
Totals		0.04 cfs	4.2 af

Amendments Required

☐ Change P.D. ☐ Add P.D. ☒ None
☐ Change P.U. ☐ Add P.U. ☐ Other:

Conditions: Change R69 to X31 for irrigation less than 1-acre, change 121 to 103 and 132 to WB5 at licensing.

Have conditions of permit been met? ☒ Y ☐ N

Narrative:

Permit 63-33576 authorized the diversion of 0.06 cfs from groundwater, 0.04 cfs to irrigate 1.2 acres, and 0.02 cfs for domestic use. The irrigated area is less than 5 acres, qualifying this permit for an in-office field exam. This exam was completed on 12/1/16 by WRA Cody Parker.

I located the property using the legal descriptions from the permit. The specific location of the POD is given as GPS coordinates on the well log. I created a new point shapefile in Arcmap, specifying the location of the point based on these coordinates. This location is directly north of the house in the NE corner of the taxlot. The location of the POD can be verified by looking on Google Earth street view, which clearly shows the well head in this corner.

The place of use for the domestic part of this right is just the home on the property. The POU for the irrigation use is ~0.8 acres of land surrounding the house, including the pasture along the northern border of the taxlot. In the application, the landowner mentions that the GW well was already being used for the domestic purpose and to irrigate the yard surrounding the house. The intent when filing the application was to add irrigation rights for this northern pasture. It is difficult to determine if the irrigation use has been developed in this pasture or not from the aerial imagery. However, Google Earth street view (see attached) supports the irrigation use in this area, especially when compared to the surrounding landscape.

There is no overlap with either the POU or POD for this right. The area is covered by the POU for some irrigation districts diverting from a number of surface water sources including the irrigation ditch to the west of this taxlot. However, it does not appear that water is diverted from this drain for irrigation or any other purpose to the permit POU. There are no other uses found for this groundwater well either.

The overall diversion rate I have determined for this license is 0.04 cfs. This is 0.02 cfs for domestic purpose, which was the permitted rate (lower than the BU standard defined by Admin AP Memo No. 2 for 1 home), and 0.02 cfs for irrigation. The irrigation diversion rate comes from 0.03 cfs/acre standard (per Admin AP Memo No. 19) multiplied by 0.8 acres. The total annual volume is 4.2 af; 0.6 af for domestic uses not including irrigation (per Admin AP Memo No. 22) and 3.6 af for irrigation from the 4.5 af/acre headgate requirement.

The place of use and point of diversion are no longer owned by the permit holders according to the most current parcel data. For that reason, condition 004 will be retained on the license and both a copy of the license and an ownership change form will be sent to the new owners upon approval of the draft.

Workflow

Exam Date Entered ☒
 POU/POD shapes ☒
 Combined Rights Entry ☐
 Wild & Scenic Entry ☐
 Draft License and Map ☒
 Other:

Supporting Documents

Aerial Photograph ☒ Well Log ☒
 POU/POD Map ☒ Diagrams ☐
 LandSat ☐ Theoretical ☐
 Photographs ☒ Other: ☐
 Site Visit ☐ Date:

Authentication

Field Examiners Name: Cody Parker

Date: 06/12/17

Reviewer: Angela Gorman

Date: 6/13/17

State of Idaho
Department of Water Resources
Map of POU/POD
63-33576

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.0325 0.065 0.13 Miles



State of Idaho
Department of Water Resources
Map of POU/POD
63-33576

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.035 0.07 0.14 Miles



12/2/16



Figure: A view of the northern pasture of the property in Street View of Google Earth. The pasture certainly appears to be irrigated, especially when compared to the surrounding landscape. The location of the well head can be seen in the lower right corner of the photo. According to Google Earth, this image was capture September 2012, which falls within the development period of the water right in question.