

IN-OFFICE BENEFICIAL USE FIELD REPORT

Permit No: 67-07916

Examiner: CP

Date: 01/05/17

In-office qualification (IDAPA 035.01.r): ☒ Irrigation ≤ 5 acres
☐ Stockwater storage ≤ 14.6 af
☐ Total diversion rate ≤ 0.24 cfs and not irrigation or storage

Current Owner Name: COUNTY OF WASHINGTON

Address: 256 E COURT ST, PO BOX 670, WEISER, ID 83672-0607

Beneficial Use Fee Paid: \$50.00 Receipt: C035948

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
11N	05W	32								X								

Method of Determination: previous field exam w/ photos, well log, Google Earth street view, aerial imagery, 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	
11N	05W	32								0.8									0.8

Method of Determination: previous field exam, aerial imagery, digital PLS mapping

POU change? ☒ N ☐ Y

Purpose of Use: Irrigation

Purpose change? ☒ N ☐ Y

Method of Determination: Irrigation use apparent in aerial imagery, and field exam was done to confirm

Standard Season of Use: 03/01 - 11/15 Update required on license? ☐ N ☒ YOverlap Review POD overlap? ☒ N ☐ Y WR's:Analysis Attached ☒ Comments: The well is not used for any other purpose according to field visitPOU overlap? ☒ N ☐ Y WR's:

Comments: Field exam states no surface water is used at this location

Diversion Rate Permitted Rate: 0.03 cfs BU Standard Limit: 0.02 cfs

BU Fee Limit: 0.20 cfs Theoretical (optional): 0.20 cfs

Recommended Total Div Rate: 0.02 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: No other uses

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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
Totals		0.02 cfs	3.6 af

Amendments Required

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

Conditions: Remove all conditions. Add X31. Place of use description is not valid. Irrigation right is not supplemental.

Have conditions of permit been met? ☒ Y ☐ N

Narrative:

Permit 67-7916 authorized the diversion of 0.03 cfs from groundwater for irrigation of 1 acre in Section 32, Township 11 North, Range 05 West, SE 1/4, NW 1/4. An in-field examination was completed on December 11, 1996 by Steve Lester following the submission of the Proof of Beneficial Use. The information collected during this field visit was not written up after, nor was a draft license created. The total irrigated area on the permit is less than 5 acres, qualifying this permit for an in-office field exam. An in-office field exam was completed on January 5, 2017 by WRA Cody Parker, incorporating and summarizing the information obtained during the 1996 field visit.

The locations of the POU and POD were previously determined using the USGS 7 1/2' topo map. I confirmed the location of the POU using aerial imagery and digital PLS mapping. I was able to identify 0.8 acres of irrigated land located on the taxlot owned by the permit holder, surrounding the Washington County courthouse. This value is a reduction in acreage from the 1.0 acre estimated in the field. The field estimate was based on pacing the lot dimensions to determine the approximate lot area and estimating a percentage of the lot that was irrigated. Therefore, I believe my value to be more accurate. The location of the POD is given on the well log. The previous examiner provided a photo of the well head which I used to identify the well in Google Earth street view (see attached) to confirm the location description.

The diversion works capacity (calculated from the horsepower equation using pump information from the field exam) is 0.20 cfs. The diversion rate I have recommended is 0.02 cfs, lower than the permitted rate reflecting a reduction in acreage. The original examiner notes that the irrigation occurs over a 7-hour period at night to avoid watering during the business hours. However, this new information cannot be used to justify a higher diversion rate at the licensing stage. The owner should be advised to file an application for transfer to clarify their use and allow for a higher diversion rate over a shorter period.

There was no overlap found with either the POU or the POD. The notes from the field exam state that the well is not used for any other purpose, and that there is no surface water from the irrigation districts used for irrigation.

Workflow

☒ Exam Date Entered
☒ POU/POD shapes
☐ Combined Rights Entry
☐ Wild & Scenic Entry
☒ Draft License and Map
☒ FE Database (N: drive)

Supporting Documents

☒ Aerial Photograph ☒ Well Log
☒ POU/POD Map ☒ Diagrams
☐ LandSat ☒ Theoretical
☒ Photographs Other:
 Site Visit Date: 12/11/96

Authentication

Field Examiner's Name: Cody Parker

Date: 01/05/17

Reviewer: Patrick Kelly

Date: 1-9-2017

State of Idaho
Department of Water Resources
Map of POU/POD
67-7916

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.

05W



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

0 0.025 0.05 0.1 Miles



11ND05W32

Basin/Sequencer	Owner	Source	Use
3-10002	BRANDT, LEROY E; ROBERTS FARM	SHAKE RIVER	IRRIGATION
3-2006	WEISER FLAT PIPE LINE CO LTD; W	SHAKE RIVER	IRRIGATION
3-7005	WEISER IRRIGATION DISTRICT	SHAKE RIVER	IRRIGATION
67-10	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-10583	WEISER SCHOOL DISTRICT #431	GROUND WATER	IRRIGATION
67-10584	WEISER SCHOOL DISTRICT #431	GROUND WATER	IRRIGATION
67-10968	EAST WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-11	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-12	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-13B	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-14	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-14621	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-15	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-16	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-17	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-18	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-19	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-20	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-21	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-21688	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-2169G	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-22	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-4135A	MICHAEL, BILLY D; MICHAEL, RIC	WEISER RIVER	IRRIGATION
67-4412	CITY OF WEISER; CLAMPIITT, EVER	WEISER RIVER	IRRIGATION
67-4472	ADAMS, ANGELA A; ADAMS, ROBI	WEISER RIVER	IRRIGATION
67-7	EAST WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-7988	SHELBY, HARLEY E; SHELBY, HELET	MONROE CREEK	IRRIGATION
67-8	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION
67-9	WEISER IRRIGATION DISTRICT	WEISER RIVER	IRRIGATION

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SESW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
																2
X	X	X	X	X	X	X		X	X		2	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
4.3			0.5													4.8
				2.7												2.7
X		X	X					X				X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
X	X	X	X	X	X	X		X	X		X	X	X	X	X	
												1.3				13.3
									0.6	13.4	6					20
											1.5			13		14.5
X		X	X					X			X	X	X	X	X	
		0.5														
X	X	X	X	X	X	X		X	X		X	X	X	X	X	0.5
X	X	X	X	X	X	X		X	X		X	X	X	X	X	

MEMORANDUM

TO: Permit No. 67-07916
FROM: Cody Parker
DATE: January 5, 2017
RE: Summary of Field Exam Data Collected in the Field December 11, 1996

The permit authorizes the diversion of 0.03 cfs from groundwater for irrigation of 1 acre in Section 32, Township 11 North, Range 5 West, SE 1/4, NW 1/4. A field examination was completed by Steve Lester on December 11, 1996. The information collected in the field was summarized in the Beneficial Use Field Report, but no further steps were taken to license this permit. On January 5, 2017 WRA Cody Parker began an in-office field examination, incorporating the previously collected data, to move forward in drafting a license.

Summary of Information Submitted

Diverting Works & POD Location: The diverting mechanism is a groundwater well, 12 inches in diameter and 52 feet deep, for which a well log is available. Water is diverted using a 5-horsepower pump to a buried automatic sprinkler system with a 3-inch mainline. The location of the well head was observed in the field, and a photo of the well head was taken for documentation. The description of the location was determined using a USGS 7 1/2' topo map. The well is located on the eastern end of the taxlot northeast of the Washington County Courthouse.

Place of Use: The place of use was determined to be 1 acre in area. The examiner estimated the lot size at ~4.1 acres (300' x 600' from pacing), and further estimates that ~25% of the lot is irrigated. A photo was taken of the POU for documentation. The description of the POU was again determined using the same USGS 7 1/2' topo map. The irrigated land consists of lawn and trees surrounding the Washington County Courthouse and the Weiser City Police Station.

Rate of Diversion: On the date of the exam, the system was winterized. However, the maintenance manager, Kent Craig, provided information about the well pump permitting the calculation of theoretical flow based on the horsepower equation. For a pressure of 50 psi, a dynamic water level at 35 feet, a 5-horsepower pump, and an assumed efficiency value of 70%, the diversion rate would be 0.20 cfs, or 91.9 gpm. According to the field exam notes, the manager estimated the use at 50 gpm. The manager also stated that watering only occurs for 7-hrs each night to avoid interfering with daytime business hours.

POU/POD Overlap: The examiner found that the well was not currently being used for any other purpose. Additionally, the permit holder does not use surface water from the local irrigation district to water this lawn. He states that the POU was irrigated using the municipal

water system prior to the development of this permit. The new well now provides all the water for irrigation.

Discussion

The data collected in the field generally agree with my observations during the in-office field exam. The entire taxlot falls within a single quarter-quarter, so there is no question about the descriptions of the POU or POD. I was able to determine the location of the well from the photo and system diagram provided by the original examiner to put into ArcMap. The examiner determined the irrigated area by pacing the lot and estimating a percent of the total area that is irrigated. Measuring the irrigated acreage from 0.5-meter resolution aerial imagery likely provides a more accurate estimate. Therefore, I have used the measured value of 0.8 acres for the draft license.

The maintenance manager provided information about the sprinkler system and the pump during the field exam. Using the information in the horsepower equation indicates that the diversion works capacity is 0.20 cfs. The permitted diversion rate was 0.03 cfs and the BU standard, reflecting the reduction in irrigated acreage, is 0.02 cfs. Notes from the conversation with Kent Craig seem to indicate that the permit holder was diverting water above their permitted rate. He estimated the rate at 50 gpm, or ~0.11 cfs. The justification presented in the field exam notes is that they water the lawns at night for a 7-hour period, rather than the full 24-hour period per day. However, this justification, as outlined in Application Processing Memo No. 60, does not apply at the licensing stage. Because the permit holder did not apply for 0.11 cfs I have to recommend the license for 0.02 cfs. The owner should be advised that they may submit an application for transfer to clarify their use and allow for a higher diversion rate for a shorter period of time per day.



Figure 1 A view of the well head in Google Earth street view. The well is located to the northeast of the Washington County courthouse.

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

