

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13686

Exam Date: 05/12/2023

1. Current Owner:

CROSSTIMBER RANCH PROPERTY OWNERS ASSOC. 30 Meadowview Dr., Garden Valley, ID

Owner of Record Correct? X NAddress of Record Correct? X N

If No Explain:

IDWR records indicate that Jon L. Barnes (permit holder) submitted the Proof of beneficial use prior to 2022. An ownership change with a chain of custody will be necessary.

2. Accompanied by: Jeff Crow,

Phone No: 208-908-9882

Address: 30 Meadowview Dr., Garden Valley, ID

Relationship to permit Holder: Groundskeeper-Maintenance

3. **SOURCE:**

GROUND WATER

Method of Determination: Site visit, well log

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

YES Overlap

Water Right No.	Source	Purpose of Use	Basis
65-5682B	Alder Creek	Irrigation	License
65-5685	Groundwater	Domestic	License

Comments: The only overlapping right is the surface water from Alder Creek (primary) for irrigation, right 65-5682B also listing Jon L. Barnes as the current owner. The permit and license have been conditioned that the groundwater will be used supplemental to groundwater for irrigation within the overlapping place of use (POU). Right 65-5685 for domestic use is appurtenant to an adjacent parcel of land, the GIS shape is inaccurate.

2. Other water rights with the same point-of-diversion:

NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A	N/A	N/A.	N/A

Comments: No overlap present.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ NW¼, Sec. 2, Gov. Lot 3, Twp 08N, Rge 04E, B.M. BOISE County

Method of Determination: Wellsite Garmin GPS: 44°.060906 N, -115°.949196 W.

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	
08N	04E	2		1.7	0.4		2.6			0.3									5.0
Gov. Lot #				2			3												

Total 5.0 Acres

Method of Determination: Site visit, GIS imagery

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
A0019154	Unknown	2	Unknown	Unknown	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Bucket Test	bucket & Cell Phone Timer	n/a	n/a	n/a	5 Gal	n/a

2. Measurements: A 2" PVC pipe discharges into the ditch draining into the storage pond. A cell phone timer was used to measure the time elapsed to fill the bucket (3 times), and an average of those times was used to determine the rate of flow.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: 5 Gallon bucket test

TEST RUN	TIME (Sec)	GPM	CFS
1	12.8 sec	23.45 GPM	0.0523cfs
2	13.55 sec	22.14 GPM	0.0493cfs
3	13.54 sec	22.16 GPM	0.0494cfs

Average Rate= 0.05cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5.0 \times 3.5 \text{ afa} = 17.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 230 \times 1.9835 = 22.8 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 17.5 \text{ AF}$$

Comments:

The headgate calculation annual volume to irrigate all 5 acres of the POU is 17.5 AF at licensing.

G. NARRATIVE/REMARKS/COMMENTS

This permit authorizes 0.15 cfs of groundwater for the irrigation of 5.3 acres currently owned by Crosstimber Ranch Property Owners Association Inc., in Boise County. The permit holder Jon L. Barnes was president of Crosstimber Ranch Property Owners Association Inc. through 2006. Proof of beneficial use was submitted on April 10, 2000. A field exam was conducted by WRA Bob Howe and WR supervisor Cody Parker on May 12, 2023, accompanied by Jeff Crow, the Groundskeeper/Handyman. Groundwater for this permit is diverted via a 6" casing well drilled to 290 ft below surface level. The well contains a 2-hp pump which draws water from the well to 2" PVC pipe emptying into a ditch, which fills the westernmost pond (photos 1-12). An intake in the pond conveys water to the 3Hp pump (photo 3), which delivers water to the sprinkler system. The sprinkler system pressure gauge was broken at the time of the exam.

The water cascades from the west pond to the east pond and then returns to Alder Creek in the east through a series of ditches. The primary irrigation right overlapping the POU is 65-5682B diverting surface water from Alder Creek. A headgate south of the POU at Alder Cr diverts water into an irrigation ditch that enters the western pond from the southwest (photos 13 & 14). The series of ditches form a loop through two ponds and back to Alder Creek (figure 3). According to the groundskeeper, Jeff, the groundwater has not been used for irrigation within the POU for many years, as the surface water has been adequate for irrigation. The pump has only been run periodically to test its integrity.

During the field examination, it was determined that the place of use area included irrigation in the SWNE of section 2, Township 09N, Range 04E, which was not included in the place of use permitted for development (figure 2). Our escort for the field exam was notified that we would need to process and mail an amendment to the permit for signing before licensing, to ensure the entire place of use is included in licensing.

Upon processing the amendment, I found that the ownership of the permit was never updated when the property ownership changed to Crosstimber Ranch. Idaho Department of Water Resources (IDWR) records currently list Jon L. Barnes as the permit holder, additionally Jon L. Barnes submitted the Proof of Beneficial Use for permit 65-13686. The phone number for Mr. Barnes IDWR has on record is disconnected. However, a copy of this letter will be mailed to him at his last known address, requesting a response.

On October 11, 2023, I received a phone call from CRPOA board member, Steve Reynolds in response to my information requests. I explained that the permit cannot be processed for licensing by the Idaho Department of Water Resources (IDWR) until one of the following actions are taken:

- The Amendment of Permit is signed by the current permit holder (Jon L. Barnes).
- The Assignment of Permit is submitted and signed by Jon L. Barnes, transferring ownership of the permit to Crosstimber Ranch Property Owners Association, INC (CRPOA).

After my request Steve was able to provide an active address and phone number for Jon L. Barnes, who is still in the Boise, ID area. Steve said he explained to Jon Barnes in a phone call that we need to amend the permit and assign the permit to CRPOA, for that we need Jon's signature and fee payments. I also explained to Steve (CRPOA) that right 65-5682B, for surface water irrigation at the POU needs a change of ownership and walked him through how to file. Steve provided his personal contact information, phone number 208-781-1621, email address srenz@surewest.net. The ownership change for right 63-13686 was received by the department with payment for the amendment and ownership change.

The signed amendment was received from Jon L. Barnes on December 11, 2023. I recommend the license be issued with a rate of 0.05cfs, an annual volume of 17.5 AF, and conditions 943, 103, 105, R67, X59, and 01M. Conditions 065, 120, and 079 were replaced at licensing, as per current guidance, and condition 046 was removed as the well drillers report was submitted with the Proof of Beneficial Use, providing the permitting information.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/15 to 10/31	0.05CFS	17.5 AF

Totals: **0.05CFS** **17.5AF**

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

I. AUTHENTICATION

Water Resource Agent-Bob Howe

Field Examiner's Name Bob Howe Date 12/29/2023

Reviewer PH Date 12/29/23



Figure 1- GIS 2021-aerial image of POU (outlined in blue) and POD (blue point). Image includes the intermittent streambed that the ditch water is diverted along from west to east (dashed line) and Alder Creek, running to the north (blue line with arrow for direction).



Figure 2- GIS 2021-aerial image of Permit POU (outlined in blue) and POU confirmed in field exam (outlined in yellow). The area in the southeast is in a quarter/quarter not within the permit POU.



Figure 3- System diagram- Dark blue line (flow of water through ponds and ditches), Medium blue line (water lines from well and irrigation pump to control valves, Light blue outline (POU area).



Photos 1 & 2- Wellhead located on the west side of the western pond. Tag visible in closeup photo on the right.



Photo 3- 3Hp irrigation pump, located west of the western pond.



Photo 4- The brown structure with the green roof is the pumphouse, located between the ponds on the north side of the POU. Photo taken from the southwest side of the western pond.



Photo 5- Power bank and pressure controls located inside of the pump house.



Photo 6- Junction boxes controlling the well pump (labeled #2 "Pond Fill") and the 3 Hp irrigation pump (labeled #1 Irrigation Pump). Pressure control can be seen in the lower right of the image.



Photos 7 & 8- Left photo of the outlet from the well pump delivering water into the ditch flowing east into the western pond. Right photo of the outlet taken facing to the east along the ditch towards the western pond.



Photo 9- Ditch between the western and eastern ponds. Photo taken facing north.



Photo 10- 5 Hp Recirculation pump (no longer functional) located on the south side of the eastern pond. Pump was used to recirculate water from the eastern pond to the western pond to be gravity fed back through the ditch running between the ponds.



Photo 11 & 12- Left photo at the eastern side of the culvert standing on Alder Creek Rd facing east. The right photo is taken from the east side of the eastern pond facing east towards Alder Creek.



Photo 13- Head gate at Alder Creek, diverting water North into the irrigation ditch.



Photo 14- Irrigation ditch from headgate at Alder creek to the west side of the western pond.