

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: **65-22383**Exam Date: **10/25/2019**

1. Current Owner: Name: **CHRISTINE M BRYSON 9450 LIBERTY RD SWEET ID 83670-0005**
 Owner of Record Correct? ☒ Y ☐ N
 Address of Record Correct? ☒ Y ☐ N
 If No: Address:

Note that an Assignment of Permit has been received from Joseph Bryson releasing his interest in this water right permit.

Parcel information corroborates address. Owner stated any mail must also include PO Box 5.

Please note that water right permit #65-22383 is located within the Water District #65A geographic boundary however, ground water is EXCLUDED from the order and is NOT administered (EXC).

2. Beneficial Use Fees have been paid: ☒ Y ☐ N Receipt No:

3. **SOURCE** **TRIBUTARY**
 GROUND WATER

Method of Determination: ArcGIS and Field Examination

Change in Source: ☐ Y ☒ X ☐ N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: ☐ NO Overlap

Water Right No.	Source	Purpose of Use	Basis
65-12049 (Link)	South Fork Coon Creek	Irrigation	Decreed/Active
65-433 (Link)	Coon Creek	Irrigation From Storage	Decreed/Active

Comments: A review of the property in ArcGIS and a POU comparison shows two water rights that overlap the place of use in the NESW and in the NWSW. Upon review, right 65-12049 and 65-433 are the only irrigation rights (source: Coon Creek) to overlap the permit place of use and are owned by the applicant's deceased parents (Link). An additional stockwater right 65-22439 is also owned by the applicant's deceased parents (Link). These three (3) water rights cover irrigation and stockwater use from Coon Creek/South Fork Coon Creek when water is available only during spring months. Note that these overlapping irrigation rights are gravity fed and can only cover the field on the lower flat of the property therefore, no supplemental conditions should be included at licensing. This permit primarily irrigates the sloped pasture areas within the place of use. The applicant is currently in the process of filing a change of ownership for these three water rights (see narrative).

2. Other water rights with the same point of diversion: ☒ X ☐ NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no water rights with the same point of diversion.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
GROUND WATER			NW	SW	26	08N	01E	B.M.	GEM

Method of Determination: ArcGIS, GPS and Field Examination. The point of diversion legal description is correct however, the actual on-the-ground point of diversion (well) is located immediately west of the house in the back yard (see pictures for GPS of well).

Change in POD? X N Amendment Required? X N

2. PLACE OF USE: Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08N	01E	26									2.2	4.8							7.0
		Lot #																	
Total Acres =																			7.0

Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08N	01E	26										X							
		Lot #																	
Total Acres =																			

Method of Determination: Tax Parcels, ArcGIS, and Field Examination

Change in POU? X N Amendment Required? X N

 X Delivery System Diagram Attached (required). Indicate all major components and distances between components.

 N/A Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres).

 X Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Unknown	None	N/A	N/A	Berkeley	22MGA10-15 (1.5 HP)

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

Note: The well utilized under this permit is ID# 293201 (in the name of applicant's deceased parents: LINK, CLARENCE D., LINK, LORNA R.). The well is located immediately west of the house in the middle of the back yard (see map and pictures for well POD location and GPS coordinates respectively).

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Pressure Gauge	Unknown	Unknown	Unknown	Unknown	N/A	N/A

2. Measurements: This field examination was conducted on 10/25/2019. This is a simple irrigation system consisting of a 1.5 HP submersible pump in the well, a pressure tank inside the pump house, and 5 spigots placed throughout the property to irrigate the place of use. Irrigation to the field and pasture areas is supplied from these spigots via garden hose and generic flat sprinklers. Two of the spigots were measured using a pressure gauge. Pressure test yielded 40 psi at both spigots.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

A theoretical diversion rate for this ground water well was calculated based on procedures stated in Administrative Memorandum #51. A theoretical rate was used to deduce if the well could produce the permitted rate and/or the standard generic rate. The system capacity (0.06 cfs) is less than the permitted amount of 0.20 cfs and less than the standard generic rate of 0.14 cfs. Therefore, the recommended rate will be the system capacity. During the field examination a pressure test was conducted at two different spigots. The theoretical diversion rate was calculated based on the pump horsepower (1.5 HP), lift of 60 feet (from well log), and the pressure test of 40 psi. The domestic diversion rate was based on Administrative Application Processing Memorandum #22 for one (1) house.

Irrigation Rate:

Groundwater Theoretical Rate: $8.8 \times 1.5 \text{ HP} \times 0.70 = 9.24 / ((60 \text{ ft} + (40 \times 2.31))) = 0.06 \text{ cfs}$

Standard Generic Rate = $0.02 \text{ cfs/ac} \times 7.0 \text{ acres} = 0.14 \text{ cfs}$

Permit = 0.20 cfs

I am recommending a rate of **0.06 cfs** for irrigation of 7.0 acres.

Domestic Rate:

Permit = 0.04 cfs

I am limited to the permitted rate of **0.04 cfs** for single domestic home use.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 7.0 \text{ ac} \times 4.5 \text{ AFA} = \underline{32.0 \text{ AF}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \text{ cfs} \times 260 \text{ days} = 15.60 \times 1.9835 = \underline{30.9 \text{ AF}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{30.9 \text{ AF}}$$

2. Volume Calculations for Other Uses: Domestic

1 home (in-house use only)

1 home $\times 0.6 \text{ AF} = \underline{0.6 \text{ AF}}$

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes 1Other: **NONE**Change in Purpose of Use? ☐ Y ☒ NMethod of Determination: Proof of Beneficial Use, ArcGIS, and Field Examination.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

A field examination was conducted on site on 10/25/2019. Dan Nelson (IDWR) was also present during the field examination. The property investigated was reviewed in ArcGIS prior to the field visit. I created the place of use (POU) shape dimensions using ArcGIS to calculate total POU acreage. The POU was verified during the field examination.

There are no overlapping water rights at the point of diversion. There are two overlapping water rights at the place of use. These two overlapping irrigation rights (plus an additional stockwater right) are owned by the applicant's deceased parents (Link). The land served by these three (3) water rights is owned by the applicant therefore, the applicant will need to submit a Change of Ownership form to IDWR. Note that these overlapping irrigation rights cover irrigation and stockwater use from Coon Creek/South Fork Coon Creek and are gravity fed and only irrigate the main field on the lower flat of the property only during spring months when water is available. Therefore, no supplemental conditions should be included at licensing. A Change of Ownership form has been sent to the applicant to correct the ownership of these 3 water rights.

The well utilized under this permit is ID# 293201 (in the name Link) for domestic and irrigation uses. The well is located immediately west of the house in the middle of the back yard. The well has a 1.5 HP submersible pump and a pressure tank inside the pump house (note the pressure gauge has been removed due to a leak according to applicant). The irrigation system consists of 5 spigots placed strategically throughout the property to irrigate the place of use. Irrigation to the field and pasture areas is supplied from these spigots via garden hose and generic flat sprinklers. Two of the spigots were measured using a pressure gauge. Pressure test yielded 40 psi at both spigots.

It was determined that the system capacity (0.06 cfs) is less than the permitted amount of 0.20 cfs and less than the standard generic rate of 0.14 cfs. Therefore, the system capacity is the recommended rate for irrigation. For domestic use, the standard rate and volume was applied for 1 home. Domestic use does not include lawn, garden, landscape, or other types of irrigation.

During the field examination, it was discovered that the well is also used to fill a 0.1 acre stockwater pond (via garden hose from a spigot). I have sent the applicant an Application for Permit for the stockwater use (storage is over the 24-hr fill rule).

Water Right License Conditions:26A (removed)046 (removed)01M103R65WB5Have conditions of permit approval been met? ☒ Yes ☐ No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.06 CFS	30.9 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AF
<u>Totals:</u>		0.06 CFS	~~31.5 AF~~ 30.9 AF

* BASED ON SYSTEM
CAPACITY. -AR,
12/12/19

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

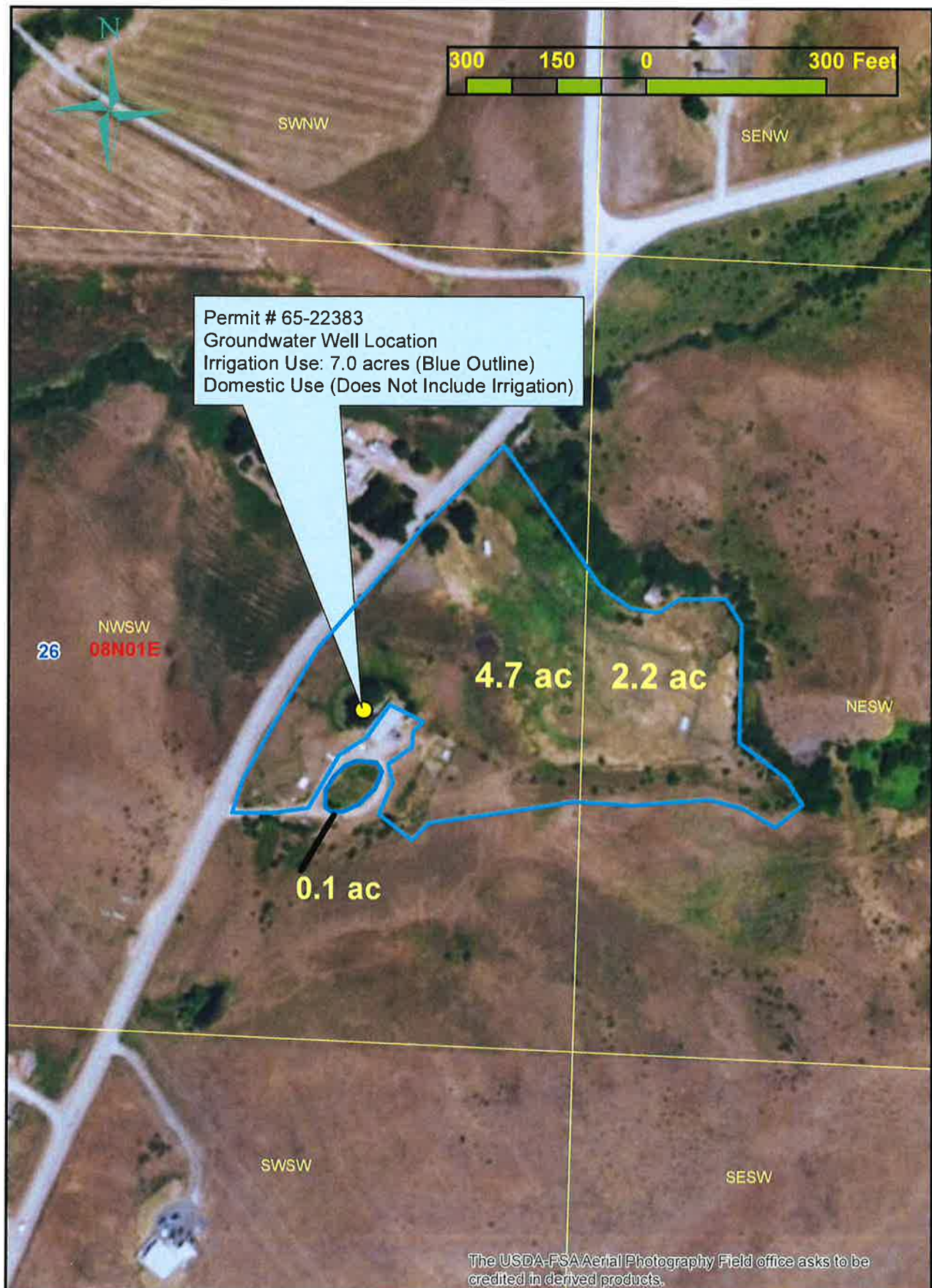
Other: < >

J. AUTHENTICATION - Jes Erling: Water Resource Agent, Sr.

Field Examiner's Name Jes Erling Date 12/12/19

Reviewer Daniel A. Moberg Date 12-13-19

Water Right Permit 65-22383





Looking inside pump house at power supply box to well (1.5 HP submersible Berkeley pump)



Looking inside pump house at pressure tank. Note pressure gauge has been removed due to a leak.



Looking at well located immediately to the west of the house in side yard. Note GPS coordinates.



Looking at irrigation spigot #1 closest to house (1 of 4 spigots). Test yielded 40 psi.



Looking at irrigation spigot #2 in front yard of the house. Test yielded 40 psi.



Looking Northeast from spigot #1 closet to house at irrigated field



Looking Northwest from spigot #1 at irrigated field (field ends at road) and grass pasture



Looking at excavated stockwater pond. Pond not covered by current permit (owner will submit an application)



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street, Suite 648 • PO Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

October 18, 2019

Joseph Bryson
PO Box 669
Emmett, ID 83617

RE: Assignment of Permit to Change Ownership for Water Permit 65-22383

Dear Mr. Bryson,

Our records indicate that you and/or Christine Bryson are the current water right permit owners for the above referenced permit. You had indicated that you would like to be removed as the current owner from this permit. In order to do so, you will need to assign all right, title, and interest in and to water right permit 65-22383.

Please complete and sign the enclosed Assignment of Permit to change the ownership of the permit. Note that the Assignment of Permit application requires a notary. Please submit the completed form and the \$25.00 processing fee to:

Idaho Department of Water Resources
PO Box 83720
Boise, Id 83720-0098

I appreciate your attention to this matter.

Regards,

A handwritten signature in black ink, appearing to read 'Jes Erling'.

Jes Erling

Water Resource Agent, Sr.
Idaho Department of Water Resources
Phone: (208) 287-4956
Email: Jes.Erling@idwr.idaho.gov



State of Idaho

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BRAD LITTLE
Governor

GARY SPACKMAN
Director

September 20, 2019

Joseph and Christine Bryson
PO Box 5
9450 Liberty Rd
Sweet, ID 83670

RE: Beneficial Use Field Exam for Water Permit 65-22383

Dear Mr. and Mrs. Bryson:

The Department of Water Resources is in the process of conducting beneficial use examinations and issuing water right licenses for permit holders who have submitted a Statement of Completion for Submitting Proof of Beneficial Use ("proof statement"). The Department received the proof statement for Permit 65-22383 on August 4, 2003.

We are required to conduct a water right licensing examination of the above-referenced permit as soon as possible. An examination is needed to verify the water use in order to issue a water right license. The above-referenced permit currently authorizes domestic use for 1 home (excludes irrigation) and the irrigation of 10 acres in Gem County.

Our records indicate that you are the current water right permit owners. We have been unable to contact the listed owners by phone. **Please call me within 14 days at 208-287-4956 to schedule an exam appointment.** If there is a problem with scheduling, conducting the examination, or if you have any questions please call and other arrangements can be made.

I appreciate your attention to this matter and I look forward to hearing from you.

Regards,

Jes Erling

Water Resource Agent, Sr.
Idaho Department of Water Resources
Phone: (208) 287-4956
Email: Jes.Erling@idwr.idaho.gov