RECEIVED
MAR 25 2024
DEPT. OF WATER RESOURCES

Form 42-248/42-1409(6) Rev. 6/22

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

NOTICE OF CHANGE IN WATER RIGHT OWNERSHIP

1. List the numbers of all water rights and/or adjudication claim records to be changed. If you only acquired a portion of the water right or adjudication claim, check "*Yes*" in the "*Split?*" column. If the water right is leased to the Water Supply Bank, check "*Yes*". If you are not sure if the water right is leased to the Water Supply Bank, see #7 of the instructions.

Water Right/Claim No.	Split?	Leased to Water Supply Bank?	Water Right/Claim No.	Split?	Leased to Water Supply Bank?
57-11793 ✓	Yes ☐	Yes ☐		Yes ☐	Yes ☐
	Yes ☐	Yes ☐		Yes ☐	Yes ☐
	Yes ☐	Yes ☐		Yes ☐	Yes ☐
	Yes ☐	Yes ☐		Yes ☐	Yes ☐
	Yes ☐	Yes ☐		Yes ☐	Yes ☐

2. Previous Owner's Name: Jack and Corrine Young
   Name of current water right holder/claimant

3. New Owner(s)/Claimant(s): Denise Hetrick
   New owner(s) as listed on the conveyance document Name connector ☐ and ☐ or

   126 Warm Springs Rd — Mailing address
   Garden Valley — City; ID — State; 83622 — Zip
   714-609-7140 — Telephone
   Denise@clearmindcenter.com — Email

4. If the water rights and/or adjudication claims were split, how did the division occur?
   - ☐ The water rights or claims were divided as specifically identified in a deed, contract, or other conveyance document.
   - ☐ The water rights or claims were divided proportionately based on the portion of their place(s) of use acquired by the new owner.

5. Date you acquired the water rights and/or claims listed above: _____.

6. Do you own the land identified as the water right place of use? Yes ☒ No ☐
   - If no, attach evidence that written notice of the change of water right ownership has been delivered to the landowner of record.

7. This form must be signed and submitted with the following **REQUIRED** items:
   - ☒ A copy of the conveyance document – warranty deed, quitclaim deed, court decree, contract of sale, etc. The conveyance document must include a legal description of the property or description of the water right(s) if no land is conveyed.
   - ☐ Plat map, survey map or aerial photograph which clearly shows the place of use and point of diversion for each water right and/or claim listed above (if necessary to clarify division of water rights or complex property descriptions).
   - ☒ Filing fee (see instructions for further explanation):
     - $25 per *undivided* water right.
     - $100 per *split* water right.
     - No fee is required for pending adjudication claims.
   - ☐ If water right(s) are leased to the Water Supply Bank AND there are multiple owners, a Lessor Designation form is required.
   - ☐ If water right(s) are leased to the Water Supply Bank, the individual owner or designated lessor must complete, sign and submit an IRS Form W-9.

8. Signature: _____ (Signature of new owner/claimant) _____ (Title, if applicable) 3-19-24 (Date)
   Denise Hetrick (Print name)

   Signature: _____ (Signature of new owner/claimant) _____ (Title, if applicable) _____ (Date)
   _____ (Print name)

For IDWR Office Use Only:

Receipted by KM Date 3.25.24 Receipt No. C118015 Receipt Amt. $25.00

Active in the Water Supply Bank? Yes ☐ No ☐ If yes, forward to the State Office for processing. W-9 received? Yes ☐ No ☑

Name on W-9 _____ Approved by _____ Processed by DM Date 3-28-24

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MAR 25 2024
DEPT. OF WATER RESOURCES

Instrument # 317189
MURPHY, OWYHEE, IDAHO
2024-03-19 11:33:06 No. of Pages: 2
Recorded for: PIONEER TITLE CANYON - CALDWELL
ANGELA BARKELL Fee: $15.00
Ex-Officio Recorder Deputy: map
Index To: DEED WARRANTY
Electronically Recorded by Simplifile

PioneerTitleCo.
GOING BEYOND

610 S. Kimball Avenue
Caldwell, ID 83605

ELECTRONICALLY RECORDED-DO NOT REMOVE THE COUNTY STAMPED FIRST PAGE AS IT IS NOW INCORPORATED AS PART OF THE ORIGINAL DOCUMENT

File No. 848374 VH/EM

WARRANTY DEED

For Value Received Corrine L. Young, an unmarried woman

hereinafter referred to as Grantor, does hereby grant, bargain, sell, warrant and convey unto

Denise Hetrick, an unmarried woman

hereinafter referred to as Grantee, whose current address is 126 Warm Springs Rd. Garden Valley, ID 83622

The following described premises, to-wit:

See Exhibit A attached hereto and made a part hereof.

To HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantee(s), and Grantees(s) heirs and assigns forever. And the said Grantor(s) does (do) hereby covenant to and with the said Grantee(s), that the Grantor(s) is/are the owner(s) in fee simple of said premises; that said premises are free from all encumbrances EXCEPT those to which this conveyance is expressly made subject and those made, suffered or done by the Grantee(s); and subject to U.S. Patent reservations, restrictions, dedications, easements, rights of way and agreements, (if any) of record, and current years taxes, levies, and assessments, includes irrigation and utility assessments, (if any) which are not yet due and payable, and that Grantor(s) will warrant and defend the same from all lawful claims whatsoever.

Dated: March 13, 2024

Corrine L. Young

State of Idaho, County of Canyon

This record was acknowledged before me on March 15, 2024 by Corrine L. Young

Signature of notary public
Commission Expires: _____

Residing in: Caldwell, ID
Commission Expires: 12/02/2028

VICKI HUNSPERGER
COMMISSION #31135
NOTARY PUBLIC
STATE OF IDAHO

EXHIBIT A

PARCEL 1:

Lot 1, Block 1 of Leaning Gate Estates, according to the official plat of record, recorded as Instrument No. 316534, records of Owyhee County, Idaho.

PARCEL 2:

Lot 2, Block 1 of Leaning Gate Estates, according to the official plat of record, recorded as Instrument No. 316534, records of Owyhee County, Idaho.

PARCEL 3:

Lot 3, Block 1 of Leaning Gate Estates, according to the official plat of record, recorded as Instrument No. 316534, records of Owyhee County, Idaho.

PARCEL 4:

Lot 4, Block 1 of Leaning Gate Estates, according to the official plat of record, recorded as Instrument No. 316534, records of Owyhee County, Idaho.

State of Idaho
Department of Water Resources

Water Right License

Water Right No. 57-11793

Priority: June 16, 2010

Maximum Diversion Rate: 0.20 CFS
Maximum Diversion Volume: 17.0 AF

It is hereby certified that:

JACK YOUNG
AND/OR
CORRINE YOUNG
11487 STATE HIGHWAY 78
MELBA ID 83641-4128

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated June 16, 2010, and has submitted Proof of Beneficial Use on March 01, 2021. An examination confirms water is diverted from:

Source : GROUND WATER

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION STORAGE	05/01 to 10/31		2.3 AF
COMMERCIAL	01/01 to 12/31	0.20 CFS	8.7 AF
COMMERCIAL STORAGE	05/01 to 10/31		2.3 AF
HEATING	01/01 to 12/31	0.20 CFS	14.6 AF
DIVERSION TO STORAGE	05/01 to 10/31	0.20 CFS	
STOCKWATER	01/01 to 12/31	0.04 CFS	0.1 AF
IRRIGATION FROM STORAGE	05/01 to 10/31		2.3 AF

Location of Point(s) of Diversion
GROUND WATER SE¼ NW¼, Sec. 21, Twp 01N, Rge 03W, B.M. OWYHEE County

Place of Use: IRRIGATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21								X									

Place of Use: COMMERCIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21								X									

Place of Use: COMMERCIAL STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21								X									

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AUG 17 2023

State of Idaho
Department of Water Resources

Water Right License

Water Right No. 57-11793

Place of Use: HEATING

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21					X L2			X									

Place of Use: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21					X L2			X									

Place of Use: IRRIGATION FROM STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21					0.2 L2			1.4									1.6

Total Acres: 1.6

Conditions of Approval

1. When notified by the Department, the right holder shall install and maintain a measuring device of a type acceptable to the Department as part of the diverting works.
2. Low temperature geothermal water diverted under this right shall not be used for irrigation purposes unless it is first used for heating purposes.
3. Commercial use is for watering plants in greenhouses.
4. Commercial storage is for pools.
5. Heating use is for home, shop, and greenhouses.
6. The right holder shall make full beneficial use of all surface water available to the right holder for irrigation of lands within the authorized place of use for this right. The right holder may divert ground water under this right to irrigate land with appurtenant surface water rights when the surface water supply is not reasonably sufficient to irrigate the place of use for this water right or is not available due to drought, curtailment by priority, or the seasonal startup and shutoff or maintenance schedule for canal company or irrigation district deliveries. The right holder shall not divert ground water for irrigation purposes under this right if use of the surface water supply is intentionally discontinued or reduced (for example abandoned, forfeited, sold, disallowed by court decree, or leased to the Water Supply Bank), or is not deliverable due to non-payment of annual assessments, without an approved transfer pursuant to Idaho Code § 42-222 or other Department approval.
7. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

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AUG 17 2023

State of Idaho
Department of Water Resources

Water Right License

Water Right No. 57-11793

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 7th day of August, 2023.

COREY SKINNER
Southern Regional Manager

SCANNED
AUG 17 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

57-11793

This map depicts the HEATING 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.



0 0.035 0.07 0.14 Miles

Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

N

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AUG 17 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

57-11793

This map depicts the COMMERCIAL 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.



0 0.035 0.07 0.14 Miles

Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

N

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AUG 17 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

57-11793

This map depicts the COMMERCIAL & IRRIGATION STORAGE 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.



0 0.035 0.07 0.14 Miles

Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

N

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AUG 17 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

57-11793

This map depicts the IRRIGATION FROM STORAGE 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.



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AUG 17 2023

State of Idaho
Department of Water Resources

Attachment to Water Right

57-11793

This map depicts the STOCKWATER 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.



SCANNED
AUG 17 2023

IDAHO DEPARTMENT OF
WATER RESOURCES

322 E Front Street, Suite 648, Boise ID 83702 • PO Box 83720, Boise ID 83720-0098
Phone: 208-287-4800 • Fax: 208-287-6700 • Email: idwrinfo@idwr.idaho.gov • Website: idwr.idaho.gov

Governor Brad Little

Director Mathew Weaver

March 28, 2024

DENISE HETRICK
126 WARM SPRINGS RD
GARDEN VALLEY ID 83622-5076

Re: Change in Ownership for Water Right No(s): **57-11793**

Dear Water Right Holder(s):

The Department of Water Resources (Department) acknowledges the receipt of correspondence changing ownership of the above referenced water right(s) to you. The Department has modified its records and has enclosed a computer-generated report for you.

Updating the ownership record for a water right does not reconfirm the validity of the right. When processing a Notice of Change in Water Right Ownership, the Department does not review the history of water use to determine if the right has been forfeited or deliberately abandoned through five years or more of non-use. To read more about water right forfeiture, including how to protect a water right from forfeiture, please see Idaho Code §§ 42-222 and 42-223.

Please note, water right owners are required to report any change of water right ownership and any change of mailing address to the Department within 120 days of the change. Reporting forms are available from any office of the Department, or from the Department's website.

If you have any questions concerning the enclosed information, please contact me at (208)287-4921.

Sincerely,

Debra Mansfield

Debra Mansfield
Technical Records Specialist 1

Enclosure(s)

IDAHO DEPARTMENT OF
WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, ID 83301-5858
Phone: 208-736-3033 • Fax: 208-736-3037 • Email: southerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little **Director Gary Spackman**

August 14, 2023

JACK YOUNG
CORRINE YOUNG
11487 STATE HIGHWAY 78
MELBA ID 83641-4128

RE: License No. 57-11793

ISSUANCE OF LICENSE

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 736-3033.

Sincerely,

Corey Skinner
Southern Regional Manager

Enclosure(s)

SCANNED
AUG 17 2023

CERTIFICATE OF SERVICE

I hereby certify that on August 14, 2023, I served a true and correct copy of Water Right License No. 57-11793 by U.S. Mail, postage prepaid, to the following:

JACK YOUNG (Current Owner)
CORRINE YOUNG (Current Owner)
11487 STATE HIGHWAY 78
MELBA ID 83641-4128

HDR INC (Representative)
ATTN LORI GRAVES
412 E PARKCENTER BLVD STE 100
BOISE ID 83706-6659

Denise Maline

Denise Maline
Administrative Assistant 1

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AUG 17 2023

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

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AUG 17 2023

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

(a) The petition for reconsideration is disposed of; or
(b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

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AUG 17 2023

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region • 2735 Airport Way • Boise, Idaho 83705-5082
Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

COPY

April 19, 2021

CORRINE & JACK YOUNG
11487 STATE HIGHWAY 78
MELBA, ID 83641-4128

Re: Notice of Intent to Void Permit to Appropriate Water No. 57-11793

Dear Permit Holder,

On March 18, 2021 the Department of Water Resources (IDWR) attempted to contact you to conduct a field examination to verify your water use and issue a water right license. As of April 19, 2021 there has been no response to that letter. If department staff cannot demonstrate that water is diverted and put to beneficial use in accordance with the permit by field examination, then a license will not be issued. It is the intent of IDWR to void your permit if a response is not received within fourteen (14) days.

IDWR forms and other information are available on the Internet at www.idwr.idaho.gov. Please contact me at 208-334-2190 if you need more information. Thank you for your attention to these matters.

Sincerely,

Tyler Smith
Water Resource Agent
Western Region, IDWR

Proof of Beneficial Use was received March 1, 2021

SCANNED
AUG 17 2023

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region • 2735 W Airport Way • Boise ID 83705-5082
Phone: (208) 334-2190 • Fax: (208) 334-2348
Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

March 18, 2021

COPY

CORRINE & JACK YOUNG
11487 STATE HIGHWAY 78
MELBA, ID 83641-4128

RE: Scheduling Field Exam for Water Right Permit No. 57-11793

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season.** An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.20 CFS & 7.0 AF** of **GROUND WATER** for **IRRIGATION, IRRIGATION STORAGE, IRRIGATION FROM STORAGE, COMMERCIAL, COMMERCIAL STORAGE, HEATING, DOMESTIC & DIVERSION TO STORAGE** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable $25 processing fee.

Please contact me within the next thirty (30) days at (208) 334-2190 or tyler.smith@idwr.idaho.gov to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Tyler Smith
Water Resource Agent

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Proof Report and Map

SCANNED
AUG 17 2023

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-11793
Exam Date: 04/18/2023

1. Current Owner:
   JACK YOUNG 11487 STATE HIGHWAY 78 MELBA ID 83641-4128
   CORRINE YOUNG 11487 STATE HIGHWAY 78 MELBA ID 83641-4128

2. Accompanied by:
   Corrine Young (owner), Corey Skinner (region manager), Benny Walker (IDWR)

3. **SOURCE:**
GROUND WATER
Method of Determination: Well driller's report, on-site visit, and aerial imagery.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Yes, one overlapping water right.

Water Right No.	Source	Purpose of Use	Basis
57-10392	Groundwater	Domestic, stockwater	Decreed

Comments: IDWR shapefile records of the POU of above-mentioned water right is a generic shape for the QQ. Based on a priority date of 8/23/1960 and historical aerial imagery it does not appear the above-mentioned water right is appurtenant to the same property as 57-11793.

2. Other water rights with the same point-of-diversion: None

Water Right No.	Source	Purpose of Use	Basis

Comments:

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SE¼ NW¼, Sec. 21, Twp 01N, Rge 03W, OWYHEE County

Method of Determination: Well driller's report, on-site visit, and aerial imagery.

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21					0.2			1.4									1.6

Total Acres: 1.6

PLACE OF USE: COMMERCIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21								X									

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PLACE OF USE: COMMERCIAL STORAGE & IRRIGATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21								X									

PLACE OF USE: HEATING

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21					X			X									

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	03W	21					X			X									

Method of Determination: On-site visit, discussions with the owner, and aerial imagery.

3.

X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

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

X 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
408441 (D0042455)	**NA**	**NA**	**NA**	**NA**	**NA**

Comments: Water is artesian and therefore does not have a pump installed.

D. FLOW MEASUREMENTS

1. No flow measurements were required per Beneficial Use Examination Rules (Rule 35.01.r.iii) when the combined use of all uses is less than 0.24 cfs.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NA						

2. Measurements: None

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E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method: NA

During the in-field inspection, it was indicated that the point of diversion for water right 57-11793 has also been used to fill fire trucks. It was estimated that the fire trucks were probably 3,000 gallons and could fill in approximately 5-7 minutes. Therefore, the estimated flow capacity of the well would be calculated as follows:

$$\frac{3{,}000\ gallons}{7\ minutes} = 429 gpm \left(\frac{1\ cfs}{448.83\ gpm}\right) = 0.95\ cfs$$

Although a field measurement was not required it was deemed plausible that the combined flow rate for all uses of 0.2 cfs issued on the permit would be possible.

Therefore, the flow rate permitted for each beneficial use should be rolled forward to the license and the combined flow rate for all uses should remain at 0.2 cfs.

F. VOLUME CALCULATIONS

The volume calculations for the heating and commercial uses were calculated using an excel document based on two methods described as follows:

Method #1 – Based on Administrator's Memorandum "Application Processing No. 23 (Amended)" dated September 28, 1992. The design heat load is calculated based on the equation: $E = e \times \Delta T \times A \times 0.8$. This method has four options for the efficiency factor and allows for an adjustment for two story homes. This method is best suited for newer homes and should not be used for greenhouses.

Method #2 – Based on Memorandum from Rick Sterling to Terry Blau dated March 25, 1988, titled "Estimating annual water requirements for geothermal heating". This method uses graphs and tables taken from ASHRAE and NOAA. The graphs allow for seven different classifications for building type, four of which are related to greenhouses.

For more information on the volume calculations for heating and commercial see attached calculations.

Heating: The volume calculated for heating includes heating for the house, shed, and three greenhouses. The house was broken into two separate calculations because a portion of the house is 1 story, and the other portion is 2 story. The volumes calculated are summarized as follows:

House (1 story, 1200 ft²)	1.47 AF
House (2 story, 2000 ft²)	1.96 AF
Shed (1 story, 1200 ft²)	2.44 AF
Large Greenhouse	6.94 AF
Medium Greenhouse	0.73 AF
Small Greenhouse	1.06 AF

Therefore, the total annual volume calculated for heating purposes is 14.6 AF. Recommended suggested volume for heating based on calculations should be **14.6 AF**.

Commercial: The commercial use developed pertains to the greenhouses. The volume used for commercial purposes is the same as the volumes calculated for heating purposes but **is not additive to the total use** because heating value is used first and then used to water plants. The total commercial volume is calculated as 6.94 + 0.73 + 1.06 = 8.73 AF. Therefore, the suggested volume for commercial use be **8.7 AF**.

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Commercial Storage: The commercial storage portion is for the pools and small pond used for soaking. It was indicated that scout troops, family reunions, and other parties had utilized the pools and property for commercial purposes in the past. There were two pools on the property as well as one small pond. The large pool was a circular pool 18 ft in diameter and 4.33 ft deep and the smaller pool was 9 ft in diameter and 2.5 ft deep. The small pond was measured to be 33 ft x 22 ft and estimated to have an average depth of 3 ft. Owner mentioned the pools are refilled about three times a week between May 1st and October 31st (26.3 weeks). Therefore, the commercial storage would be calculated as follows:

$$(Volume\ of\ pools * 3 * 26.3) + Volume\ of\ pond =$$

$$\{[(\pi(\frac{18}{2})^2 * 4.33) + (\pi(\frac{9}{2})^2 * 2.5)] * 3 * 26.3\} + (33 * 22 * 3) = 101{,}662\ ft^3(\frac{1\ AF}{43560 ft^3}) = \mathbf{2.3\ AF}$$

Irrigation Storage and Irrigation from Storage: It was verbally mentioned during the field exam that the pools are emptied into the irrigation area/system on the east side of the property. Recommend also describing the 2.3 AF of commercial storage as irrigation storage and irrigation from storage.

Stockwater: It was verbally mentioned during the field exam that the stockwater portion served 8 cows and 30 chickens on an annual basis in the past. The flow rate for stockwater is 0.04 cfs. The total volume for stockwater would be calculated as follows based on rural and domestic water use values for cows and chickens:

$$\left[8cows * \frac{12\ gal}{day} + \frac{30\ chickens}{100\ chickens} * \frac{6\ gal}{day}\right] * \frac{365\ day}{1\ year} = 35697\ gal * \left(\frac{1\ AF}{325850\ gal}\right) = 0.1096\ AF = \mathbf{0.1\ AF}$$

Summary:
A summary of the above calculations for each of the beneficial uses that require a volume is shown in the table below. *Note the irrigation storage and irrigation from storage volume is not additive to the total volume because it is the same water used for commercial storage in the pools. *Note the commercial volume is not additive to the total volume because it is the same water used for heating in the greenhouses.

Volume Calculations Summary	
*Irrigation Storage and Irrigation from Storage	*2.3 acre-feet
Heating	14.6 acre-feet
*Commercial	*8.7 acre-feet
Commercial Storage	2.3 acre-feet
Stockwater	0.1 acre-feet
TOTAL	**17.0 acre-feet**

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G. NARRATIVE/REMARKS/COMMENTS

The licensing field exam for 57-11793 was conducted on April 18, 2023, with Corey Skinner (IDWR Southern Region Manager) Benny Walker (IDWR), and permit owner Corrine Young. The well (site tag # D0042455) is located approximately 270 feet east of the house. Flow rate measurements were not taken since it is not required per the Beneficial Use Examination Rules because the total combined use is less than 0.24 cfs (Rule 35.01.r.iii).

According to the well drillers report the well is artesian, was drilled to a depth of 820 feet, and had a recorded water temperature of 132°F.

Permit was issued with a condition indicating that irrigation cannot occur without first utilizing the heat value of the water. This basically prohibits direct diversion from the well for irrigation use. However, once the heat value is used for the pools (commercial storage) the water is emptied into the irrigation area/system on the east side of the property. Recommend also describing the 2.3 AF of commercial storage as irrigation storage and irrigation from storage.

Permit was also issued with "domestic" as one of the uses. During the field exam it was noted that there is a cold water well that serves the house for domestic purposes such as in house use and irrigation of lawn around the house. However, water from the geothermal well does water cattle in a trough on the eastern portion of the property and chickens on the southwest portion of the property. Because stockwater is a subcategory of the "domestic" definition, I recommend licensing the domestic use as stockwater use.

Volume calculations for heating and commercial uses were based Administrator's Memorandums "Application Processing No. 23 (Amended)" dated September 28, 1992, and from Rick Sterling to Terry Blau dated March 25, 1988, titled "Estimating annual water requirements for geothermal heating". Commercial storage value was calculated based on the size of the pools and small pond. Stockwater volume calculated using generic daily stockwater use estimates.
I recommend licensing a total volume of 17.0 AF for all uses.

Have conditions of permit approval been met? __X__ Yes ____ No

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H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION STORAGE & IRRIGATION FROM STORAGE	05/01 to 10/31	NA	2.3 AF
COMMERCIAL	01/01 to 12/31	0.20 CFS	8.7 AF
COMMERCIAL STORAGE	05/01 to 10/31	NA	2.3 AF
HEATING	01/01 to 12/31	0.20 CFS	14.6 AF
STOCKWATER	01/01 to 12/31	0.04 CFS	0.1 AF
DIVERSION TO STORAGE	05/01 to 10/31	0.20 CFS	NA
	Totals:	0.20 CFS	17.0 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

I. AUTHENTICATION Tyler Wallace

Field Examiner's Name Tyler Wallace Date 8/4/2023

Reviewer Ray Shinn Date 8/4/2023

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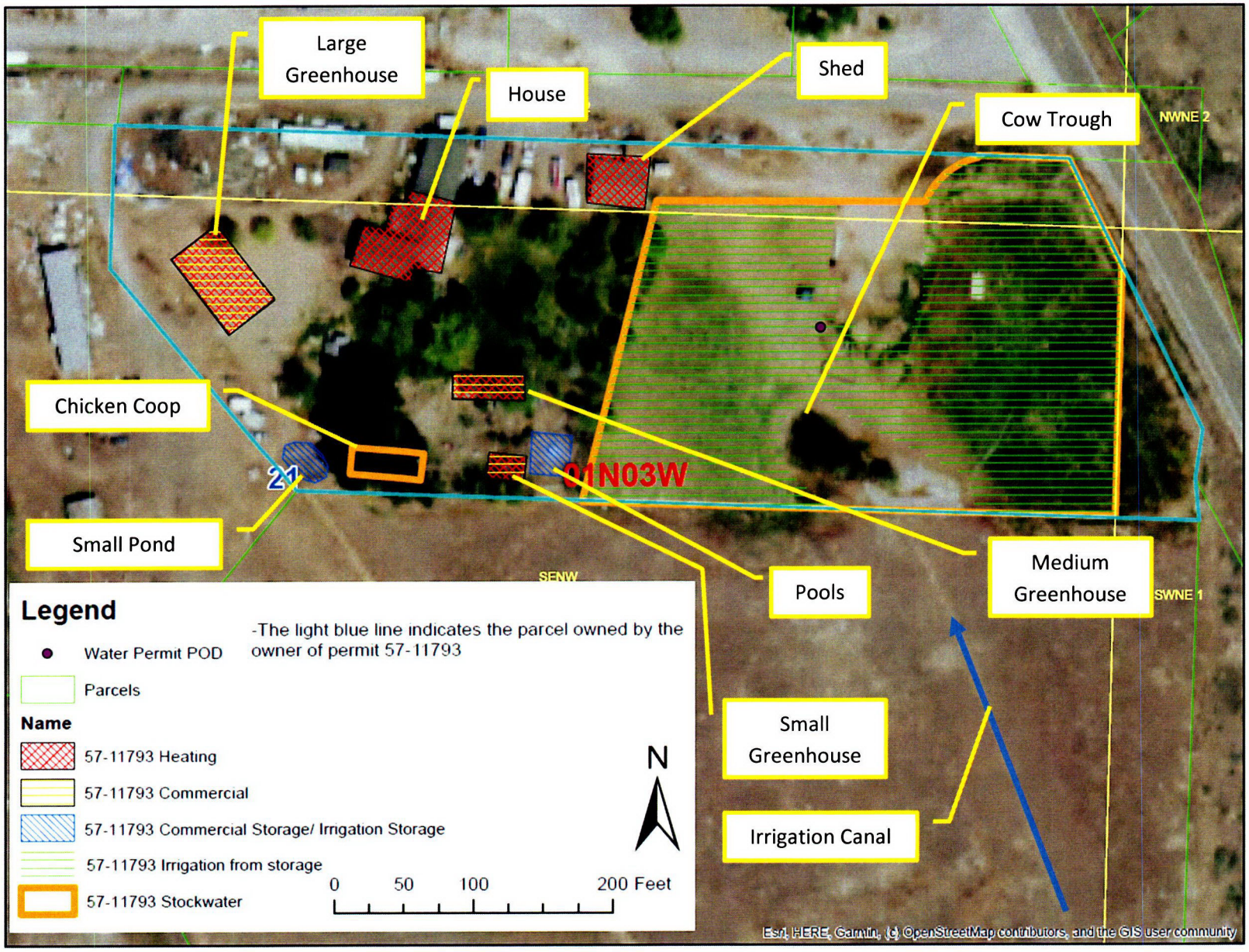


Figure 1: Aerial image taken from ArcMap ESRI imagery showing the point of diversion and the place of use for each of the developed uses under permit 57-11793.

Field Exam 57-11793

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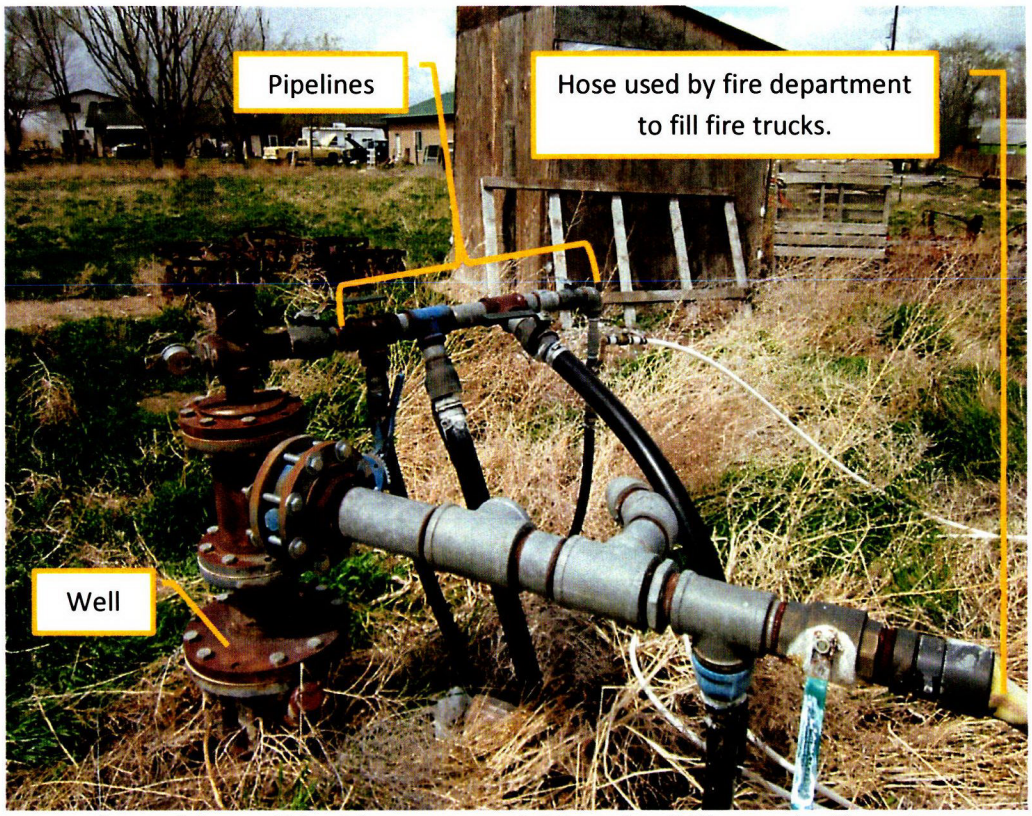


Photo 1. Image taken of the well looking westward. Note the different pipelines that go underground and lead to various parts of the property for use. Field in background is a portion of the irrigated area.

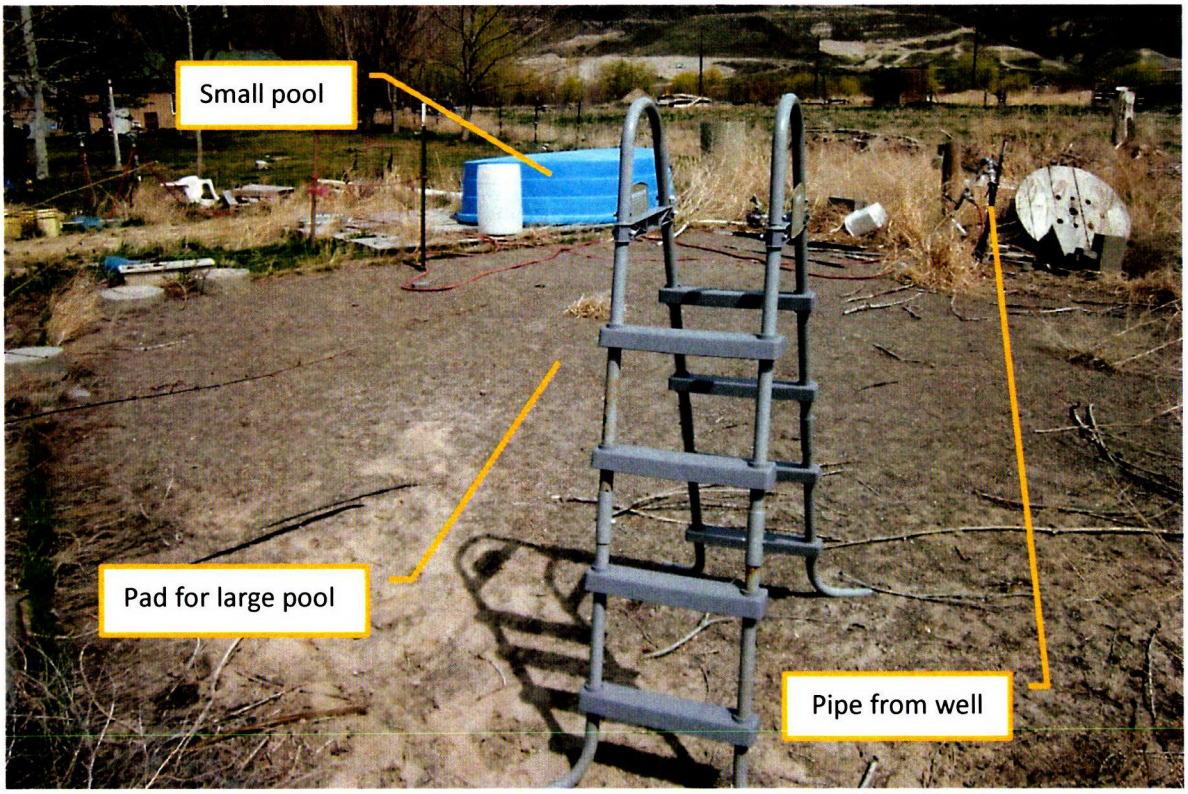


Photo 2. Image taken near the area where the swimming pools are located looking in a northeastern direction. Note the swimming pool, existing pad, and pipe coming out of ground connected to the well.

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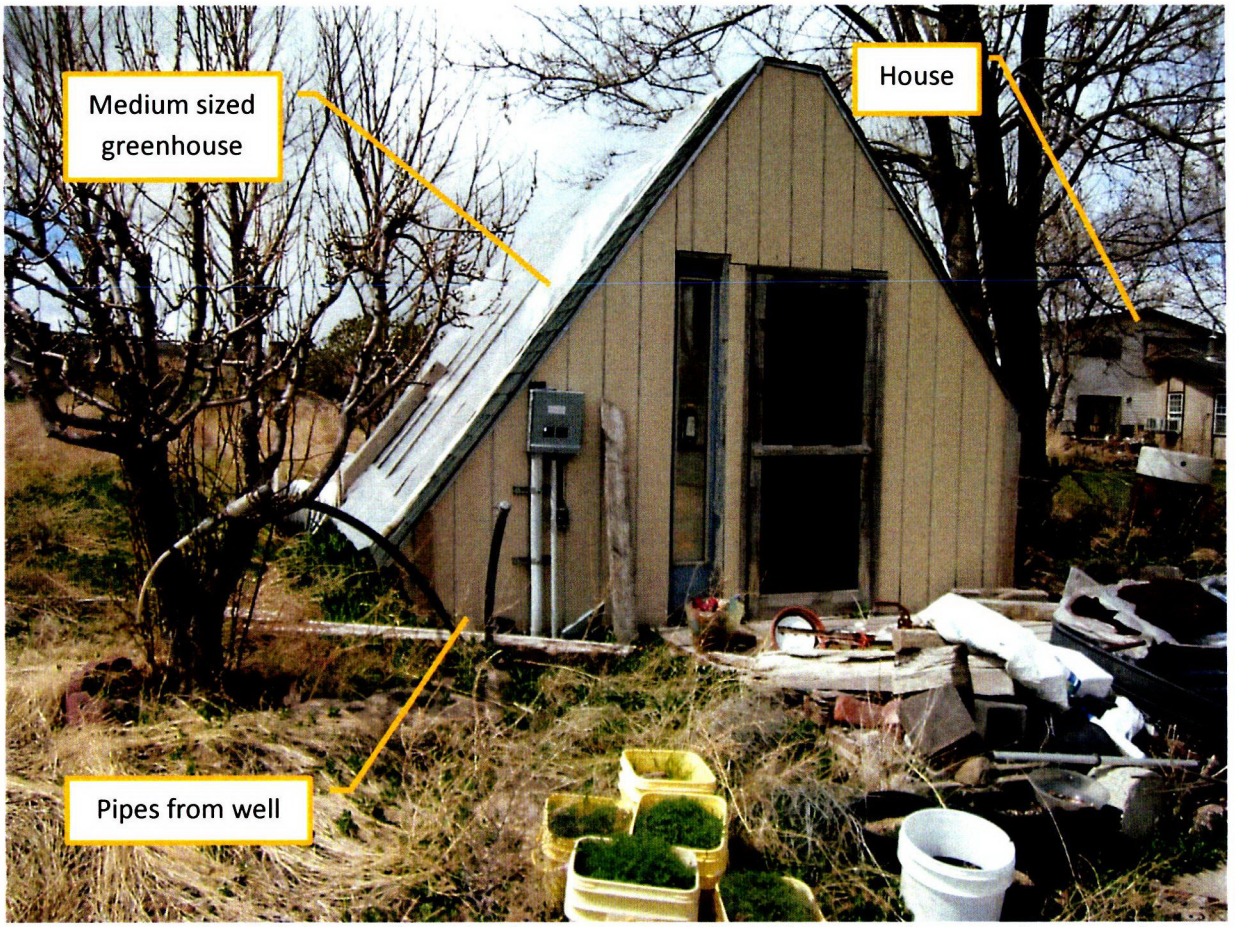


Photo 3. Image taken of the medium sized greenhouse (13'x23'). Note pipes coming out of the ground that are connected to the geothermal well.



Photo 4. Image of the small greenhouse (21'x10').

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Photo 5. Image showing the inside of the large greenhouse. The greenhouse is heated with the geothermal water flowing through the black pipes. Inset image shows a barrel where the water is discharged after heating the greenhouse and then used to water plants.

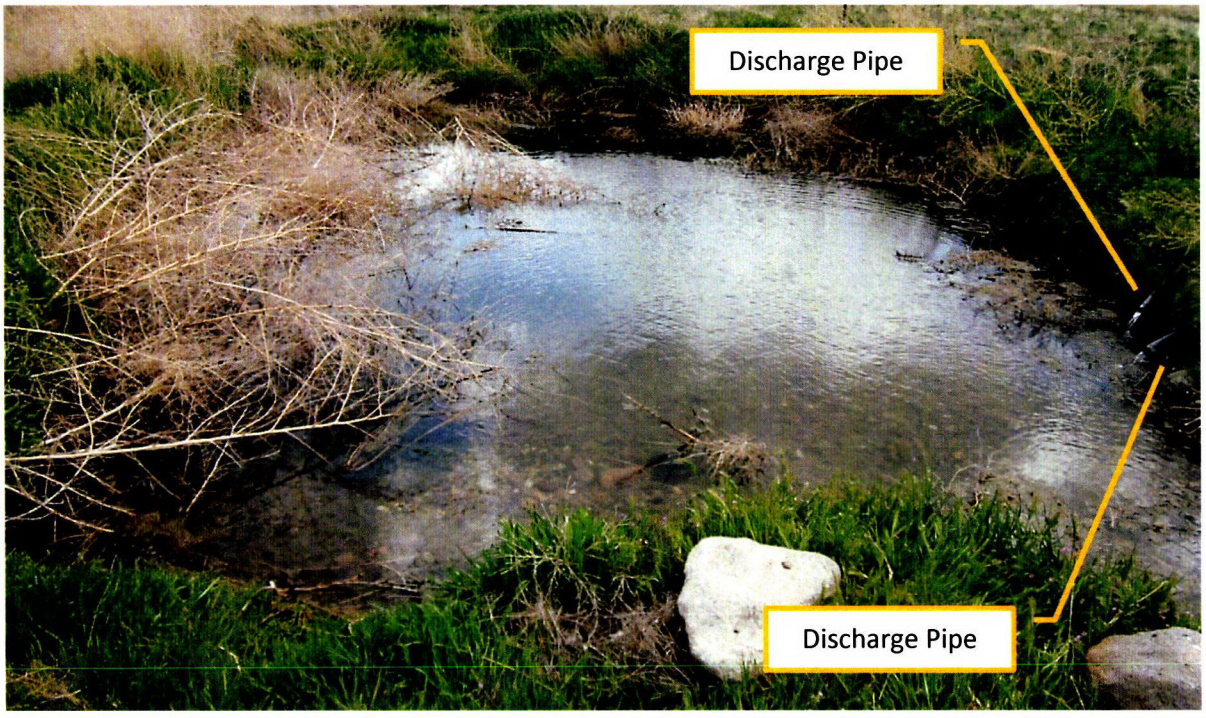


Photo 6. Image of the small pond. Note the two black pipes where the water is discharged into the pond after the heating value has been used elsewhere on the property.

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Additional calculations

The annual volume requirement was calculated using a Memorandum from Rick Sterling to Terry Blau dated March 25, 1988, and Administrative Memorandum from Norm Young dated September 28, 1992, titled "Rate of flow for heating use". The memorandums contain equations for calculating the annual water requirements for geothermal heating. The equations are listed below with an explanation of the variables; data was taken from the field exam and the National Oceanic and Atmospheric Administration (NOAA).

Design Heat Load Calculation: $E=[e\times\Delta t_1]0.8\times A$

Where:
E = BTU/hr required
e = House efficiency factor
Δt_1 = Design temperature difference
0.8 = Adjustment factor for two story homes
A = Area of heated space

Temperature Drop Across System Calculation: $\Delta T_s = 0.3(S-T)$

Where:
ΔT_s = Temperature drop across system
S = Geothermal source temperature
T = Temperature required by system

Volume Calculation: $V = \dfrac{HL \times DD \times 24 \times C_D}{\Delta t_1 \times k \times C \times \Delta t_2}$

Where:
V = Annual volume of geothermal water required
HL = Peak heating load in BTU/hr
DD = Annual heating degree-days
24 = 24 hrs/day
C_D = Empirical correction factor for heating effect vs. 65 ºF degree-days
Δt_1 = Design temperature difference
k = Correction factor to account for losses, use 0.90
C = Constant to correct for desired units, $2.72\text{x}10^6$ BTU/AF-ºF
$\Delta t_2 = \Delta T_s$ = Temperature drop across system (calculated above)

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Single Story House

The portion of the home that is only one story has a total of 1,200 ft^2. The efficiency factor was assumed to have an energy efficiency of 0.67 BTU/hr ft^2 °F. The Design temperature difference for the Boise area is 67 °F. The temperature of the geothermal source is 132 °F based on the well drillers report. The temperature in the home is expected to be 70 °F. The annual heating degree days was taken from the Nampa Sugar Factory weather station because it is closest in elevation and proximity.

Method	#1	Chose a house efficiency factor (.28 - Best, .44 Better, .67 Average, 1.11 Poor)	0.67	BTU/hr ft^2 - °F
	#1	Design temperature (Boise = 67)	67	°F
	1& 2	Area of heated space	1200	ft^2
	#1	Single story = 1 Two story = 0.80	1	
	1& 2	Geothermal source temperature	132	°F
	1& 2	System Temperature, Home = 70 Greenhouse = 60	70	°F
	1& 2	Degree Days (see degree days tab)	5693	°F
	1& 2	Greenhouse empirical correction factor, greenhouse = 0.85, other = 0	0	
		Heat load (pick value from table below)	53,868	BTU/hr

		Heat load in BTU/hr		
Method	#1	Mathematically calculated	53,868	BTU/hr
	#2	Well Insulated	22,613	BTU/hr
		Normally Insulated	35,013	BTU/hr
		Older Homes	51,290	BTU/hr
		Double Poly	76,510	BTU/hr
		Single Poly	130,102	BTU/hr
		Fiberglass	143,792	BTU/hr
		Glass	176,114	BTU/hr

Volume of water required for heating	1.47	afa

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Two Story House

The portion of the home that is two stories has a total of 2,000 ft^2. The efficiency factor was assumed to have an energy efficiency of 0.67 BTU/hr ft^2 °F. The Design temperature difference for the Boise area is 67 °F. The temperature of the geothermal source is 132 °F based on the well drillers report. The temperature in the home is expected to be 70 °F. The annual heating degree days was taken from the Nampa Sugar Factory weather station because it is closest in elevation and proximity.

Method	#1	Chose a house efficiency factor (.28 - Best, .44 Better, .67 Average, 1.11 Poor)	0.67	BTU/hr ft^2 - °F
	#1	Design temperature (Boise = 67)	67	°F
	1& 2	Area of heated space	2000	ft^2
	#1	Single story = 1 Two story = 0.80	0.8	
	1& 2	Geothermal source temperature	132	°F
	1& 2	System Temperature, Home = 70 Greenhouse = 60	70	°F
	1& 2	Degree Days (see degree days tab)	5693	°F
	1& 2	Greenhouse empirical correction factor, greenhouse = 0.85, other = 0	0	
		Heat load (pick value from table below)	71,824	BTU/hr

		Heat load in BTU/hr		
Method	#1	Mathematically calculated	71,824	BTU/hr
	#2	Well Insulated	37,688	BTU/hr
		Normally Insulated	58,355	BTU/hr
		Older Homes	85,483	BTU/hr
		Double Poly	127,516	BTU/hr
		Single Poly	216,836	BTU/hr
		Fiberglass	239,654	BTU/hr
		Glass	293,524	BTU/hr

Volume of water required for heating	1.96	afa

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One Story Shed

The shed is one story and has a total of 1,200 ft^2. The efficiency factor was assumed to have an energy efficiency of 1.11 BTU/hr ft^2 °F due to it having three garage doors. The Design temperature difference for the Boise area is 67 °F. The temperature of the geothermal source is 132 °F based on the well drillers report. The temperature in the home is expected to be 70 °F. The annual heating degree days was taken from the Nampa Sugar Factory weather station because it is closest in elevation and proximity.

Method	#1	Chose a house efficiency factor (.28 - Best, .44 Better, .67 Average, 1.11 Poor)	1.11	BTU/hr ft^2 - °F
	#1	Design temperature (Boise = 67)	67	°F
	1& 2	Area of heated space	1200	ft^2
	#1	Single story = 1 Two story = 0.80	1	
	1& 2	Geothermal source temperature	132	°F
	1& 2	System Temperature, Home = 70 Greenhouse = 60	70	°F
	1& 2	Degree Days (see degree days tab)	5693	°F
	1& 2	Greenhouse empirical correction factor, greenhouse = 0.85, other = 0	0	
		Heat load (pick value from table below)	89,244	BTU/hr

		Heat load in BTU/hr		
Method	#1	Mathematically calculated	89,244	BTU/hr
	#2	Well Insulated	22,613	BTU/hr
		Normally Insulated	35,013	BTU/hr
		Older Homes	51,290	BTU/hr
		Double Poly	76,510	BTU/hr
		Single Poly	130,102	BTU/hr
		Fiberglass	143,792	BTU/hr
		Glass	176,114	BTU/hr

Volume of water required for heating	2.44	afa

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Large Greenhouse

Square footage of the large greenhouse is 1952 ft2 (32' x 61'). The greenhouse is constructed with single layer of plastic over a metal frame. The peak heating load value in the calculations was taken from a graph related to single polly construction. The temperature of the geothermal source was determined to be 132°F based on the well drillers report. The temperature in the greenhouse is expected to be 60 °F. The annual heating degree days were taken from the Nampa Sugar Factory weather station because it is closest in elevation and proximity.

Method	#1	Chose a house efficiency factor (.28 - Best, .44 Better, .67 Average, 1.11 Poor)	1.11	BTU/hr ft² - °F
	#1	Design temperature (Boise = 67)	67	°F
	1& 2	Area of heated space	1952	ft²
	#1	Single story = 1 Two story = 0.80	1	
	1& 2	Geothermal source temperature	132	°F
	1& 2	System Temperature, Home = 70 Greenhouse = 60	60	°F
	1& 2	Degree Days (see degree days tab)	5693	°F
	1& 2	Greenhouse empirical correction factor, greenhouse = 0.85, other = 0	0.85	
		Heat load (pick value from table below)	211,632	BTU/hr

		Heat load in BTU/hr		
Method	#1	Mathematically calculated	145,170	BTU/hr
	#2	Well Insulated	36,783	BTU/hr
		Normally Insulated	56,954	BTU/hr
		Older Homes	83,431	BTU/hr
		Double Poly	124,456	BTU/hr
		Single Poly	211,632	BTU/hr
		Fiberglass	233,902	BTU/hr
		Glass	286,479	BTU/hr

Volume of water required for heating	6.94	afa

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Medium Greenhouse

Square footage of the medium greenhouse is 299 ft^2 (13' x 23'). The greenhouse is built like a small shed with one side (south side) being covered with a single polly plastic sheet. Due to the greenhouse having only one side covered in polly and the rest of the greenhouse resembling that more of a shed, method 1 was used. The efficiency factor was assumed to have an energy efficiency of 1.11 BTU/hr ft^2 °F. The temperature of the geothermal source was determined to be 132°F based on the well drillers report. The temperature in the greenhouse is expected to be 60 °F. The annual heating degree days were taken from the Nampa Sugar Factory weather station because it is closest in elevation and proximity.

Method				
	#1	Chose a house efficiency factor (.28 - Best, .44 Better, .67 Average, 1.11 Poor)	1.11	BTU/hr ft^2 - °F
	#1	Design temperature (Boise = 67)	67	°F
	1& 2	Area of heated space	299	ft^2
	#1	Single story = 1 Two story = 0.80	1	
	1& 2	Geothermal source temperature	132	°F
	1& 2	System Temperature, Home = 70 Greenhouse = 60	60	°F
	1& 2	Degree Days (see degree days tab)	5693	°F
	1& 2	Greenhouse empirical correction factor, greenhouse = 0.85, other = 0	0.85	
		Heat load (pick value from table below)	22,237	BTU/hr

Method		**Heat load in BTU/hr**		
	#1	Mathematically calculated	22,237	BTU/hr
	#2	Well Insulated	5,634	BTU/hr
		Normally Insulated	8,724	BTU/hr
		Older Homes	12,780	BTU/hr
		Double Poly	19,064	BTU/hr
		Single Poly	32,417	BTU/hr
		Fiberglass	35,828	BTU/hr
		Glass	43,882	BTU/hr

Volume of water required for heating	0.73	afa

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Small Greenhouse

Square footage of the small greenhouse is 220.5 ft^2 (21' x 10.5'). The greenhouse appears to be constructed with a combination of glass and fiberglass. Therefore, in the calculations the value for the Peak Heating Load was taken from a graph related to glass construction. The temperature of the geothermal source was determined to be 132°F based on the well drillers report. The temperature in the greenhouse is expected to be 60 °F. The annual heating degree days were taken from the Nampa Sugar Factory weather station because it is closest in elevation and proximity.

Method	#1	Chose a house efficiency factor (.28 - Best, .44 Better, .67 Average, 1.11 Poor)	1.11	BTU/hr ft^2 - °F
	#1	Design temperature (Boise = 67)	67	°F
	1& 2	Area of heated space	220.5	ft^2
	#1	Single story = 1 Two story = 0.80	1	
	1& 2	Geothermal source temperature	132	°F
	1& 2	System Temperature, Home = 70 Greenhouse = 60	60	°F
	1& 2	Degree Days (see degree days tab)	5693	°F
	1& 2	Greenhouse empirical correction factor, greenhouse = 0.85, other = 0	0.85	
		Heat load (pick value from table below)	32,361	BTU/hr

		Heat load in BTU/hr		
Method	#1	Mathematically calculated	16,399	BTU/hr
	#2	Well Insulated	4,155	BTU/hr
		Normally Insulated	6,434	BTU/hr
		Older Homes	9,424	BTU/hr
		Double Poly	14,059	BTU/hr
		Single Poly	23,906	BTU/hr
		Fiberglass	26,422	BTU/hr
		Glass	32,361	BTU/hr

Volume of water required for heating	1.06	afa

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Form 238-7
11/97 JGE

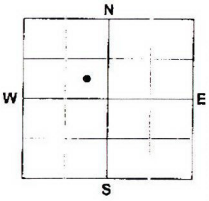
838033
Office Use Only
Inspected by
Twp Rge Sec
1/4 1/4 1/4
Lat: Long:

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0042455
DRILLING PERMIT NO 892768-838033
Other IDWR No

2. OWNER:
Name Jack Young
Address 11487 State Hwy 78
City Givens Hot Springs State ID Zip 83641

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location



Twp 1 North [X] or South [ ]
Rge 3 East [ ] or West [X]
Sec 21 1/4 (10 acres) SE 1/4 (40 acres) NW 1/4 (160 acres)
Gov't Lot County Owyhee
Lat 43°24.706' Long. 116°42.194'
Address of Well Site 11487 State Hwy 78
City Givens Hot Sprin
(Give at least name of road + Distance to Road or Landmark)
Lt Blk Sub Name

4. USE:
[X] Domestic [ ] Municipal [ ] Monitor [ ] Irrigation
[ ] Thermal [ ] Injection [ ] Other

5. TYPE OF WORK: check all that apply (Replacement etc)
[X] New Well [ ] Modify [ ] Abandonment [ ] Other

6. DRILL METHOD:
[ ] Air Rotary [ ] Cable [X] Mud Rotary [ ] Other

7. SEALING PROCEDURES:

Seal/Filter Pack Material	From	To	AMOUNT Sacks or Pounds	METHOD
Cement	0	75'	45 Sacks	Trimmie
Cement	65'	465'	6.5 yds	Pressure
Grout	0	65'		Natural

Was drive shoe used? [X] Y [ ] N Shoe Depth(s) 10" @ 75' 6" @ 465'
Was drive shoe seal tested? [ ] Y [X] N How?

8. CASING/LINER:

Diameter	From	To	Guage	Material	Casing	Liner	Welded	Threaded
10"	+9'	75'	.250	Steel	X		X	
6"	+1.6'	465'	.250	Steel	X		X	

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS:
[ ] Perforations Method
[ ] Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
ft below ground Artesian pressure 16 lb
Depth flow encountered 468 ft Describe access port or control devices 2" Ball Valve - 6" Butterfly Valve

11. WELL TESTS:
[ ] Pump [ ] Bailer [ ] Air [X] Flowing Artesian

Yield gal /min	Drawdown	Pumping Level	Time
950		6" Tube	4 Hrs.
575		4" Tube	4 Hrs.

Water Temp 132° Bottom hole temp 132°
Water Quality test or comments:
Depth first Water Encounter 8'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology Water Quality & Temperature	Water Y	Water N
14"	0	1'	Top Soil		
14"	1'	8'	Brown Clay		
14"	8'	32'	Gravel & Sand	X	
14"	32'	75'	Sticky Blue Clay		
10"	75'	83'	Sticky Blue Clay		
10"	83'	127'	Baked Blue Clay		
10"	127'	183'	Baked Clay w/Sand Seams	X	
10"	183'	264'	Sandy Blue Clay		
10"	264'	376'	Baked Blue Clay		
10"	376'	392'	Blue Sandstone	X	
10"	392'	459'	Baked Blue Clay		
10"	459'	465'	Gray Ryolite		
6"	465'	468'	Gray Ryolite		
6"	468'	482'	Fractured Ryolite	X	
6"	482'	507'	Gray Ryolite		
6"	507'	522'	Baked Blue Clay		
6"	522'	541'	Lt Blue Sandstone	X	
6"	541'	544'	Reddish Brown Ryolite		
6"	544'	557'	Fractured Gray Ryolite	X	
6"	557'	617'	Lt. Gray Ryolite		
6"	617'	624'	Fractured Gray Ryolite	X	
6"	624'	698'	Dark Gray Ryolite		
6"	698'		Gray Ryolite w/Small		
		820'	Fractures	X	

RECEIVED
APR 17 2006
WATER RESOURCES
WESTERN REGION

Completed Depth 820' (Measurable)
Date: Started 3/20/2006 Completed 4/6/2006

13. DRILLER'S CERTIFICATION:
I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name Treasure Valley Drilling Firm No 560
Firm Official Date 4/7/2006
and
Driller or Operator Del Rewitt Date 4/7/2006
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

SCANNED
AUG 17 2023