

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 82-12283
Exam Date: 06/16/2021

1. Current Owner:
STEPHEN FORMANEK 197 SEARS CREEK RD HARPSTER ID 83552-5077 AND
SIBYL WARD 197 SEARS CREEK RD HARPSTER ID 83552-5077
2. Accompanied by: Sibyl Ward and Stephen Formanek,
Phone No: 208-983-0509
Address: Same as above
Relationship to permit Holder: Current Property Owner

3. **SOURCE:**
SPRING

Tributary
SINKS

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
82-4041A	SEARS CREEK	STOCKWATER	DECREEED

Comments: WR 82-4041A uses water from Sears Creek for stockwater uses, and the POU overlaps this rights POU. This WR is not associated with the applicant's property or irrigation source/beneficial use, and is not a concern for overlap.

2. Other water rights with the same point-of-diversion: NO Overlap

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

SPRING SE¼ SE¼ SE¼, Sec. 33, Twp 31N, Rge 04E, B.M. IDAHO County

Method of Determination: GPS. POD is a vaulted concrete cistern located at -115°57.2714, 45°58.5771.

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	
31N	04E	33																0.4	0.4

Total Acres: 0.4

Method of Determination: Field exam and Arcmap aerial imagery.

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Unable to perform flow measurement due to inadequate pipe requirements. Water captured in a vaulted cistern is pumped uphill 50 feet using a ½ HP water transfer pump, to a frost free hydrant for irrigation use. There is a small pressure tank incorporated in the diverting works, which influences a 5 gallon bucket measurement from the frost free hydrant. A theoretical pumping equation derives the diversion rate of **0.02 cfs** considering department rounding standards, with a lift of 50 feet and 50 PSI system operating pressure.

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

Measured Method:

- 5 gal bucket test = 5 gal / 26.13 sec x 60 sec/min = 11.48 gpm or 0.03 cfs considering department rounding standards.
- Theoretic Pump Equation = ½ hp pump, lifting 50 ft elevation gain, with 50 PSI operating pressure = 9.6 gpm or **0.02 cfs** considering department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.4 \text{ acres} \times 3.0 \text{ afa} = 1.2 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 9.8$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{1.2 \text{ af}}$$

2. Volume Calculations for Other Uses:

Maximum diversion volume = **1.2 af**

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 6/16/2021 with the current property owner, Sibyl Ward and Stephen Formanek, showed spring water being used for irrigation purposes. At the POD, the spring source was captured by a vaulted concrete cistern, upon which a small pump house was constructed on top of. The diverting system incorporates a ½ HP water transfer pump with 1 inch PVC intake pipe drawing water from the cistern, and routed up hill to a frost free hydrant using ¾ poly pipe. There is a small pressure pot installed in the system that influences the flow measurement from the frost free hydrant.

A 5 gallon bucket test was completed from the frost free hydrant, resulting in 5 gal / 26.13 sec x 60 sec/min = 11.48 gpm or 0.03 cfs considering department rounding standards. A separate theoretic pump equation was completed = ½ HP pump, lifting 50 ft of elevation gain, with 50 PSI operating pressure = 9.6 gpm or 0.02 cfs considering department rounding

standards. Due to the small pressure tank influencing the flow measurement taken from the frost free hydrant, the diversion rate derived using the theoretic pump equation = **0.02 cfs** is recommended for licensing purposes. This diversion value also aligns with the Department standard rate associated with 0.4 acres of irrigation, which is the acreage observed having been put to beneficial use during the field exam.

During the exam, the irrigation POU was walked with the current property owners, and field maps were used to sketch out the irrigation acreage consisting of a small lawn, hanging flow baskets, and potted fruit trees. During licensing review Arcmap aerial imagery was used to trace out the irrigation POU, equaling 0.4 acres. The annual volume associated with 0.4 acres of irrigation = $0.4 \text{ ac} \times 3.0 \text{ afa} = \mathbf{1.2 \text{ af}}$, which is recommended as the maximum diversion volume for licensing.

Leading up to the field exam, the permit holder, Pamela S Wren, was attempted to be reached multiple times via phone, email, and mail. No return correspondence was received from the permit holder. Tax parcel search information was used to contact the current owners, who were present at time of exam. They also attempted to reach the permit holder in order to accomplish an Assignment of Permit, and did not get a response from Pamela Wren. As such, a Change in Ownership form was completed by the current owners, and shall be accomplished at time of licensing this water right.

Condition R66 was replaced with condition X31 to describe irrigation of less than 1 acre of land. Condition 004 shall be carried forward to the license. Overlap Concerns: WR 82-4041A uses water from Sears Creek for stockwater uses, and the POU overlaps this rights POU. This WR is not associated with the applicant's property or irrigation source/beneficial use, and is not a concern for overlap. There are no additional overlap concerns for this water right.

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 11/15	0.02 CFS	1.2 AF
Totals:		0.02 CFS	1.2 AF

2. Recommended Amendments

<u> </u> Change P.D. as reflected above	<u> </u> Add P.D. as reflected above	<u> X </u> None
<u> </u> Change P.U. as reflected above	<u> </u> Add P.U. as reflected above	<u> X </u> None

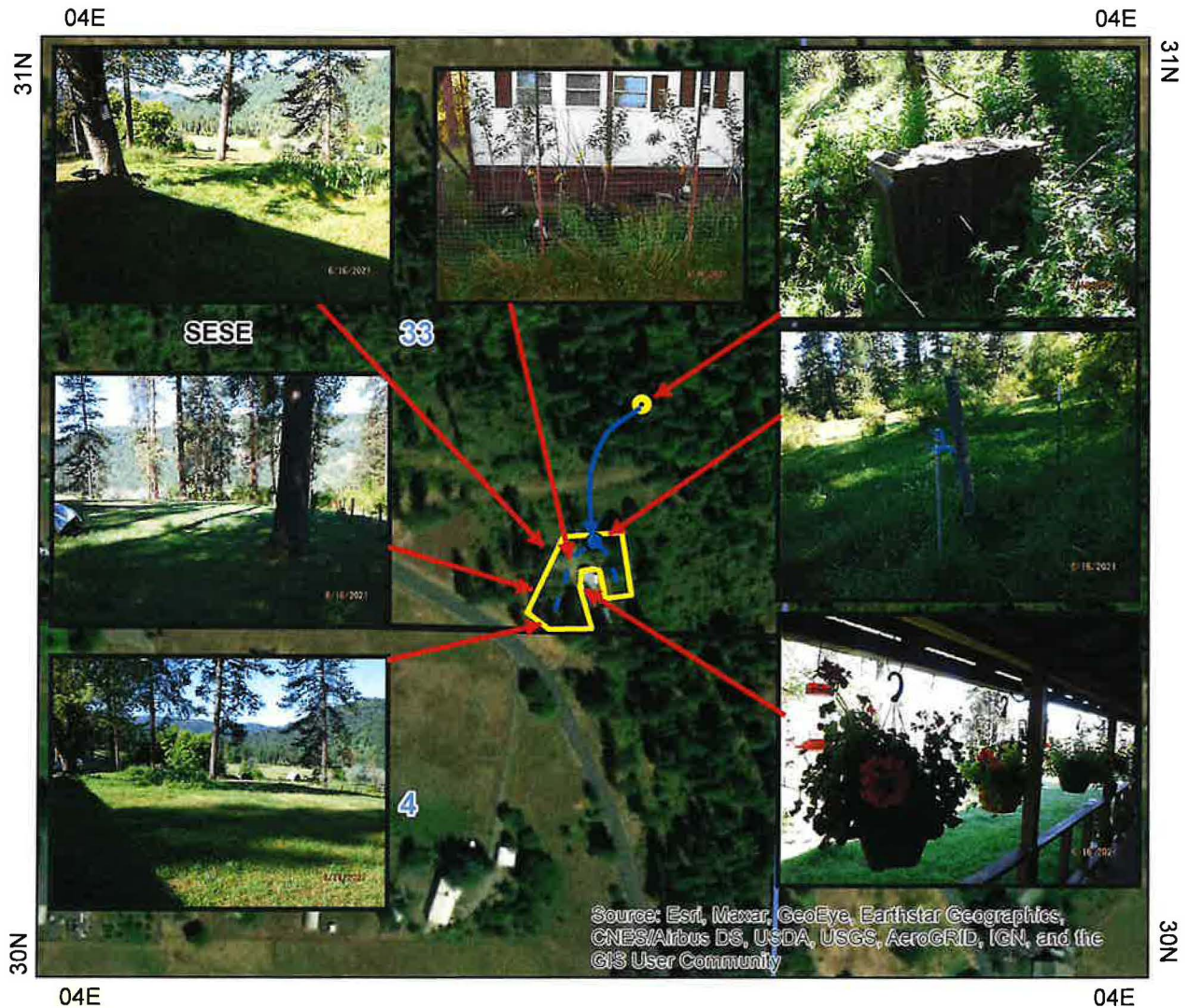
I. AUTHENTICATION

Luke Bates - Water Resource Agent

Field Examiner's Name [Signature] Date 6/25/2021
Reviewer Adrienne Date 6/30/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
82-12283

IRRIGATION system diagram.



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

0 0.035 0.07 0.14 Miles





State of Idaho

DEPARTMENT OF WATER RESOURCES

322 E Front Street, Suite 648 • PO Box 83720 • Boise ID 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700

Website: idwr.idaho.gov • Email: idwrinfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

May 19, 2021

PAMELA S WREN
602 CHURCH ST APT D
COTTONWOOD ID 83522-5256

RE: Additional Information Request for Permit 82-12283

Dear Permit Holder(s):

On May 15, 2019 you filed an application for permit to appropriate water from a spring for irrigation use in Section 33, Township 31 North, Range 4 East. The application was approved and water right permit 82-12283 was issued on August 26, 2019. On October 3, 2019 you filed a proof of beneficial use statement claiming that you developed the irrigation use under water right permit 82-12283.

I am now trying to verify the water use under 82-12283, and license this water right permit. I attempted to phone you using the number IDWR has on file (208)-507-3355, but found it is assigned to another individual at present time. I emailed a copy to the email address IDWR has on file for you on 5/6/2021 – concurrently with the first mailing of this correspondence to address:

197 Sears Creek RD Harpster, ID 83552, which was returned to sender.

Subsequent mailing of this correspondence was attempted on 5/10/2021 to address:

PO Box 133 Stites, ID 83552, which was returned to sender.

This is the third attempt to reach you by mail; it is important that an updated change of address form be submitted to ensure important communication between IDWR reaches you in a timely manner. I have enclosed a Change of Address form with this correspondence, please do complete and return to our office so that we can get your information updated.

I have attached a copy of the permit and the map supplied by you for this water use. It appears from the map, that this property is now owned by Stephen Formanek. A copy of this letter will also be

sent to Mr. Formanek. If Stephen Formanek is the current owner of the property, you can assign the water right into his name using the Assignment of Permit form (enclosed), and I will work through them to license this water right.

You can request that IDWR personnel go into the field to collect this information accompanied by a member of your staff/organization/family. For this to occur, please contact me with the name, telephone number, and email of your representative **and** the representative must be available to be contacted in order to schedule the required field exam within fifteen (15) days, **no later than 3 June 2021**.

If I do not receive the requested information from you within thirty (30) days, I could take action to void your permit under the provision of Section 42-219(8) of the Idaho Code. If you agree that no beneficial use of water occurred under the permit listed, you can shorten the voiding process by completing the enclosed relinquishment form for each permit affected and returning it to IDWR.

Should you have any questions, please contact me at 208-762-2800.

Respectfully,



Luke Bates
Water Resource Agent
Email: luke.bates@idwr.idaho.gov

Enclosure(s): Copy of Permit 82-12283
Map of property
Assignment of Permit form: in case Stephen Formanek is the current property owner.
Relinquishment Form: if applicant no longer wishes to pursue using water permit.
Change of Address form

Cc: Stephen Formanek

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
7600 N. Mineral Drive, Suite 100
Coeur d'Alene, Idaho 83815

Return Service Requested

SPOKANE WA 990

10 MAY 2021 PM 4 L

FIRST CLASS



US POSTAGE

02 7H
0001280624 \$ 000.71⁰
MAY 10 2021
MAILED FROM ZIP CODE 83815

RECEIVED
MAY 12 2021
DWR/NORTH



PAMELA S WREN
PO BOX 133
STITES ID 83552-0133

992 NFE 17000A20I0005/10/21
RETURN TO SENDER
WREN PAM S
602 CHURCH ST APT D
COTTONWOOD ID 83522-5256

RETURN TO SENDER



83815 > 7763



State of Idaho

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Website: idwr.idaho.gov • Email: idwrinfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

MAY 10th
May 7, 2021

PAMELA S WREN

197 SEARS CREEK RD PO BOX 133

HARPSTER ID 83552-5077 STITES ID 83552-0133

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I have attached a copy of the permit and the map supplied by you for this water use. It appears from the map, that this property is now owned by Stephen Formanek. A copy of this letter will also be sent to Mr. Formanek. If Stephen Formanek is the current owner of the property, you can assign the water right into his name using the Assignment of Permit form (enclosed), and I will work through them to license this water right.

You can request that IDWR personnel go into the field to collect this information accompanied by a member of your staff/organization/family. For this to occur, please contact me with the name, telephone

number, and email of your representative **and** the representative must be available to be contacted in order to schedule the required field exam within fifteen (15) days, **no later than 1 June 2021**.

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 5/7/2021

Luke Bates
Water Resource Agent
Email: luke.bates@idwr.idaho.gov

Enclosure(s): Copy of Permit 82-12283
Map of property
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Cc: Stephen Formanek

STATE OF IDAHO
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7600 N. Mineral Drive, Suite 100
Coeur d'Alene, Idaho 83815

Return Service Requested

FIRST-CLASS



US POSTAGE

\$ 000.71⁰

02 7H
0001280624 MAY 10 2021
MAILED FROM ZIP CODE 83815



PAMELA S WREN
PO BOX 133
STITES ID 83552-0133

Original Mailed letter
Sent on May 7, 2021 was
"Return to Sender"

Repackaged and mailed out
to this address on 10 May 2021

yBates



State of Idaho

DEPARTMENT OF WATER RESOURCES

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BRAD LITTLE
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May 7, 2021

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HARPSTER ID 83552-5077

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Cc: Stephen Formanek

Return Service Requested



PAMELA S WREN
197 SEARS CREEK RD
HARPSTER ID 83552-5077

Return Service Requested



STEPHEN FORMANEK
PO BOX A16
DIXIE ID 83525

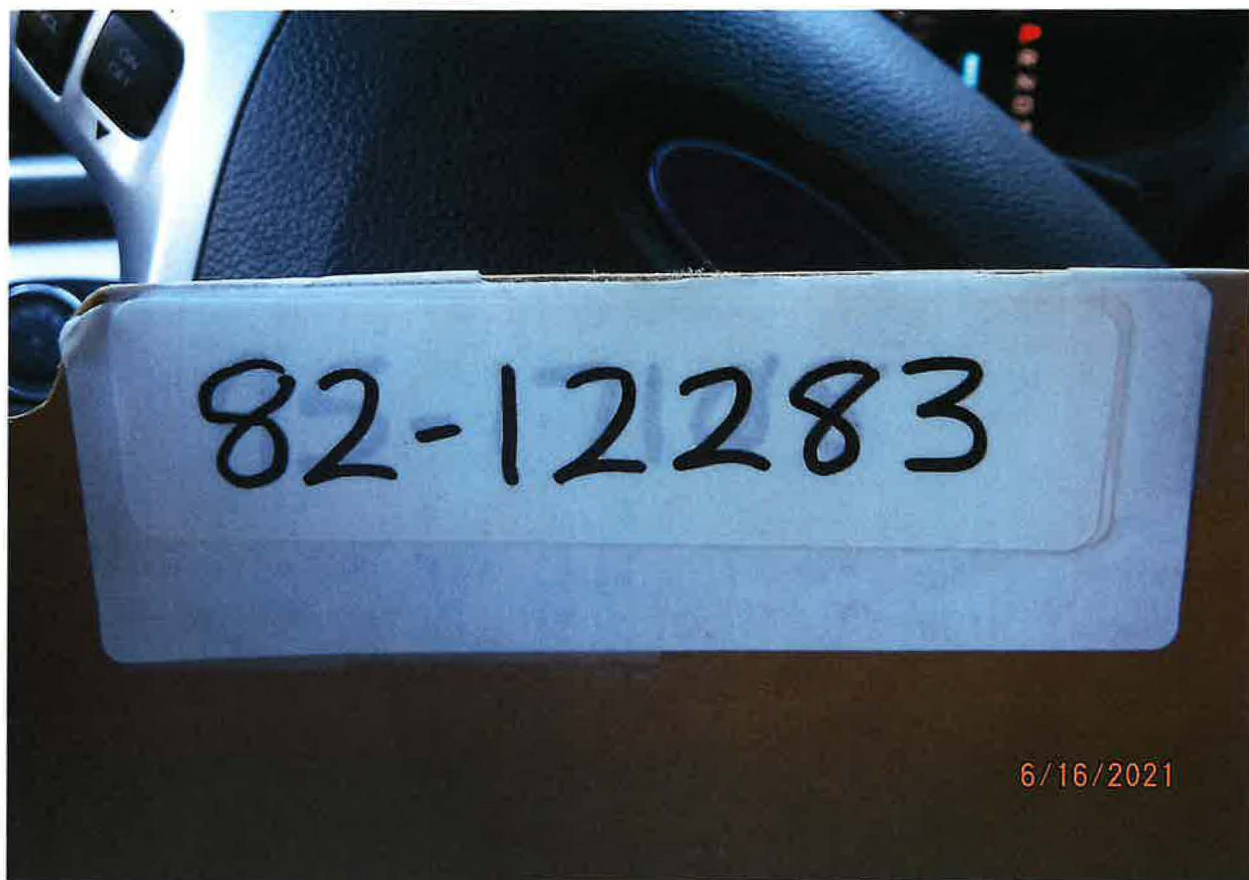
THEORETICAL PUMPING EQUATION(S) FOR WR# 82-12283

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 50 ft, and running at 50 psi.

PUMP EQUATIONS

WATER RIGHT No. 82-12283

SPRING DIVERISON BY PUMP	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP * 8.8 * Eff / H$	0.5	165.6463	0.8	50	50
Q = 0.021 cfs 9.6 gpm					



FIELD EXAM DATE 6/16/2021



POD – BURIED CONCRETE CISTERN THAT CAPTURES SPRING WATER



1/2 HP PUMP INSTALLED IN DIVERSION SYSTEM



50 PSI SYSTEM OPERATING PRESSURE



1 INCH PVC PIPE USED TO PUMP FROM CISTERN-TO-PRESSURE POT-TO POLY PIPE SERVICE LINE



IRRIGATION POU – SINGLE SERVICE LINE ROUTES TO FROST FREE HYDRANT FOR USE



IRRIGATION POU





IRRIGATION POU

