

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 3-10278

Exam Date: 07/23/2020

1. Current Owner:  
MARTY OVERLIN 2108 SHELLEY DR PAYETTE ID 83661  
ELLEN OVERLIN 67 US 95 WEISER ID 83672

2. Accompanied by: Permit holder's son  
Phone No:  
Address:  
Relationship to permit Holder:

3. **SOURCE:**  
SNAKE RIVER

**Tributary**  
COLUMBIA RIVER

**Method of Determination:** Site visit, Aerial imagery

**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis

Comments: No overlap present.

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

Water Right No.	Source	Purpose of Use	Basis
3-4000	Snake River	Irrigation	Decreed

Comments: WR 3-4000 uses the same POD and delivery system as this permit and is owned by the permit owner to irrigate a field to the north of this permits P/U.

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**

SNAKE RIVER L3 ( SE¼ NE¼), Sec. 35, Twp 10N, Rge 05W, B.M. WASHINGTON County

Method of Determination: Site visit, GPS, aerial imagery, digital PLSS map

**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	
10N	05W	35				0.2 L3													0.2
10N	05W	36							4.0										4.0

Total Acres: 4.2

Method of Determination: Site visit, aerial imagery, digital PLSS map

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
n/a	Baldor	10	37N374T040G1	n/a	n/a

**D. FLOW MEASUREMENTS**

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
FlowTracker	Ultrasonic	Sontek	9000-00115	P4553	Handheld	n/a

2. Measurements: See attached Discharge Measurement Summary

**E. FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Measured Method:

Timed orange peel test over a distance of 15.5 ft:

$T_1 = 23.59 \text{ sec}$

$T_2 = 20.32 \text{ s}$

$T_3 = 20.87 \text{ s}$

$T_4 = 19.47 \text{ s}$

$T_5 = 20.43 \text{ s}$

$T_{\text{avg}} = 20.87 \text{ s}$

$15.5 \text{ ft} / 20.87 \text{ s} = 0.74 \text{ ft/s}$

$0.74 \text{ ft/s} \times 1 \text{ ft}^2 = \mathbf{0.74 \text{ cfs}}$

Permit 0.16 cfs

B.U. Standard Allowance 0.13 cfs

B.U. Proof Fee \$50 → 0.01 to 0.20 cfs

Measurement Rate 0.73/0.74 cfs

**License Recommendation 0.13 cfs**

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

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.2 \text{ acres} \times 4.5 \text{ af/acre} = 18.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \text{ cfs} \times 260 \times 1.9835 = 67.0 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 18.9 \text{ af}$$

**2. Volume Calculations for Other Uses:****G. NARRATIVE/REMARKS/COMMENTS**

Field exam was completed on July 23, 2020 by agent Tyler Smith and was accompanied by Patrick Kelly of IDWR and the son of the permit holders. Current tax lot information indicates that Ellen Overlin is the current property owner at the pod and pou.

The point of diversion is a 10 hp pump (44° 9' 46" N, 116° 53' 33" W) that draws water out of the Snake River and into a bubbler. Water then flows from the bubbler to a concrete ditch with the northern headgate providing delivery for WR 3-4000 and the southern headgate providing delivery for this permit, then through dug out open ditches through siphon tubes to the place of use.

During the time of the exam the northern headgate for WR 3-4000 was in use. A FlowTracker measurement was taken for this ditch since the flow rate is the same regardless of which ditch is being fed. This yielded a rate of 0.73 cfs. The FlowTracker gave an error for the first three stations for >10% discharge, but this was due to the small width of the ditch and the fact that only 5 stations were used. Additionally, an "orange peel test" was conducted over a distance of 15.5 ft with an average time of 20.87 seconds. This yielded an average of 0.74 ft/s, and multiplied by an area of 1 ft<sup>2</sup> (from the FlowTracker data) it produced a rate of 0.74 cfs. The similarity of these two rates provides evidence that the FlowTracker measurements were accurate despite the errors received.

Decreed WR 3-4000 shares the same point of diversion and delivery system as this permit, and covers irrigation of the northern field of the property. This permit is for irrigation of the southern field and a portion of the domestic yard. The permit owner's son informed us that the yard for the house was being irrigated via a well and was on a different delivery system than this permit. Evidence of irrigation was found for 4.2 acres within the 8 acre place of use. The permit is limited to 0.03 cfs per acre and a rate of 0.13 cfs is recommended for licensing.

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>
IRRIGATION	03/01 to 11/15	0.13 CFS

**Totals:** 0.13 CFS

**2. Recommended Amendments**

\_\_\_\_ Change P.D. as reflected above    \_\_\_\_ Add P.D. as reflected above    X None

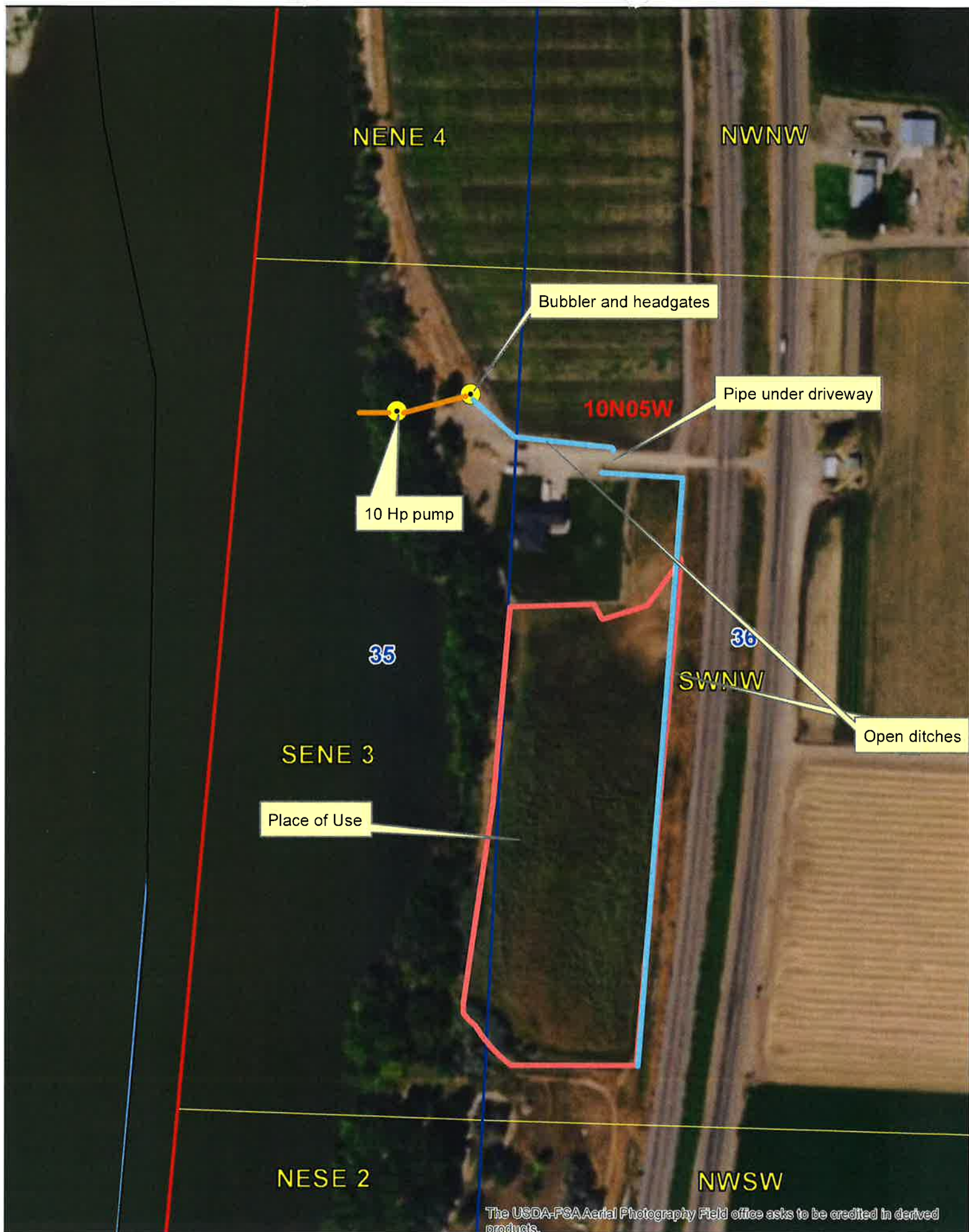
\_\_\_\_ Change P.U. as reflected above    \_\_\_\_ Add P.U. as reflected above    X None

**I. AUTHENTICATION**    Tyler Smith - Water Resource Agent

Field Examiner's Name     Date 7/27/20

Reviewer     Date 7-27-2020

# Delivery System Diagram



# Discharge Measurement Summary

Date Generated: Mon Jul 27 2020

## File Information

File Name OVRLND1.WAD  
Start Date and Time 2020/07/23 08:46:40

## Site Details

Site Name  
Operator(s) TS

## System Information

Sensor Type FlowTracker  
Serial # P4553  
CPU Firmware Version 3.7  
Software Ver 2.30  
Mounting Correction 0.0%

## Units (English Units)

Distance ft  
Velocity ft/s  
Area ft<sup>2</sup>  
Discharge cfs

## Discharge Uncertainty

Category	ISO	Stats
Accuracy	1.0%	1.0%
Depth	0.9%	10.8%
Velocity	1.3%	12.6%
Width	0.3%	0.3%
Method	4.3%	-
# Stations	9.4%	-
<b>Overall</b>	<b>10.5%</b>	<b>16.7%</b>

## Summary

Averaging Int.	30	# Stations	6
Start Edge	LEW	Total Width	2.500
Mean SNR	48.4 dB	Total Area	1.080
Mean Temp	72.30 °F	Mean Depth	0.432
Disch. Equation	Mid-Section	Mean Velocity	0.6763
		<b>Total Discharge</b>	<b>0.7304</b>

## Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	08:46	57.10	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0
1	08:46	57.60	0.6	0.600	0.6	0.240	0.8120	1.00	0.8120	0.210	0.1705	23.3
2	08:49	57.80	0.6	0.750	0.6	0.300	0.7684	1.00	0.7684	0.262	0.2016	27.6
3	08:51	58.30	0.6	0.750	0.6	0.300	0.7822	1.00	0.7822	0.413	0.3227	44.2
4	08:54	58.90	0.6	0.300	0.6	0.120	0.1824	1.00	0.1824	0.195	0.0356	4.9
5	08:54	59.60	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0

Rows in italics indicate a QC warning. See the Quality Control page of this report for more information.

# Discharge Measurement Summary

Date Generated: Mon Jul 27 2020

**File Information**

File Name

OVRIND1.WAD

Start Date and Time

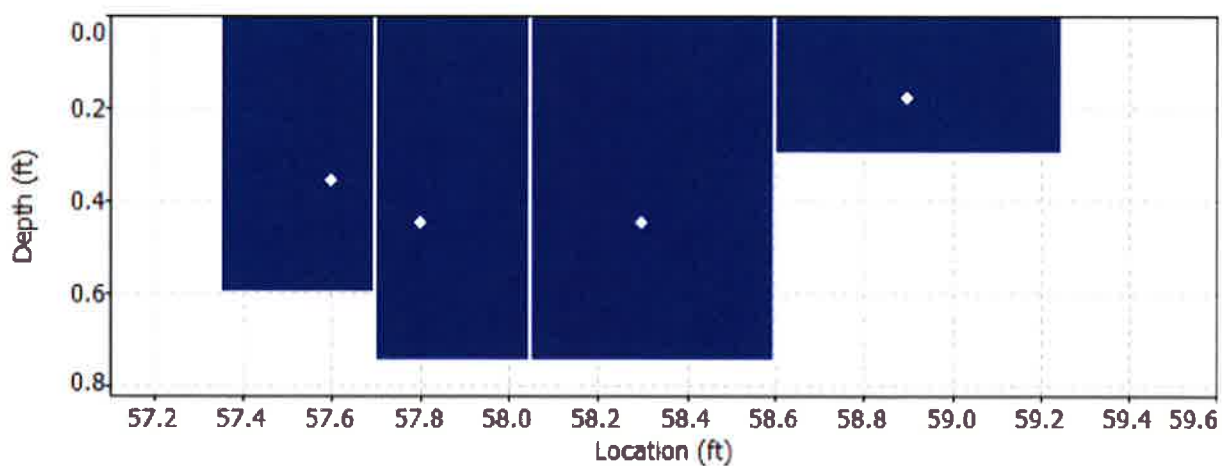
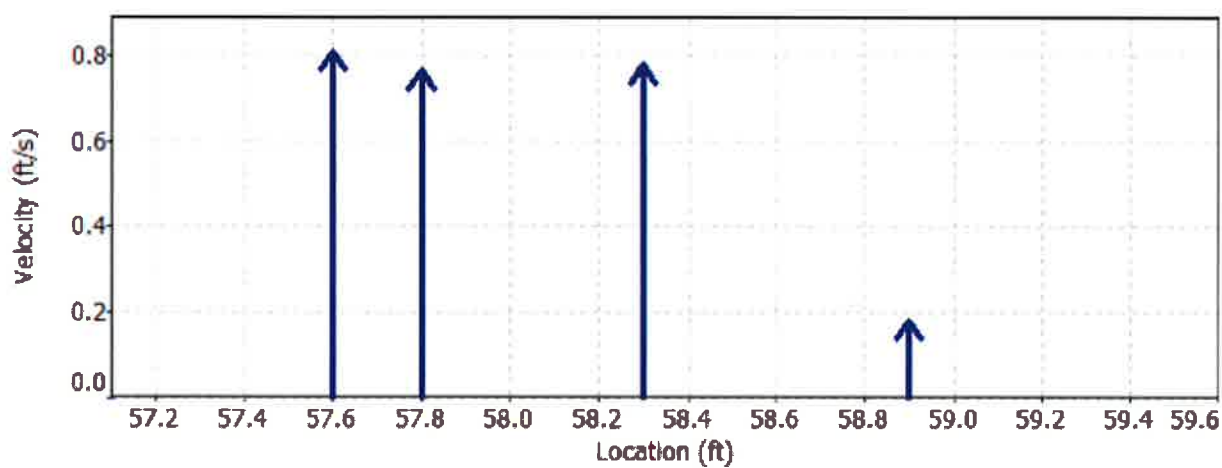
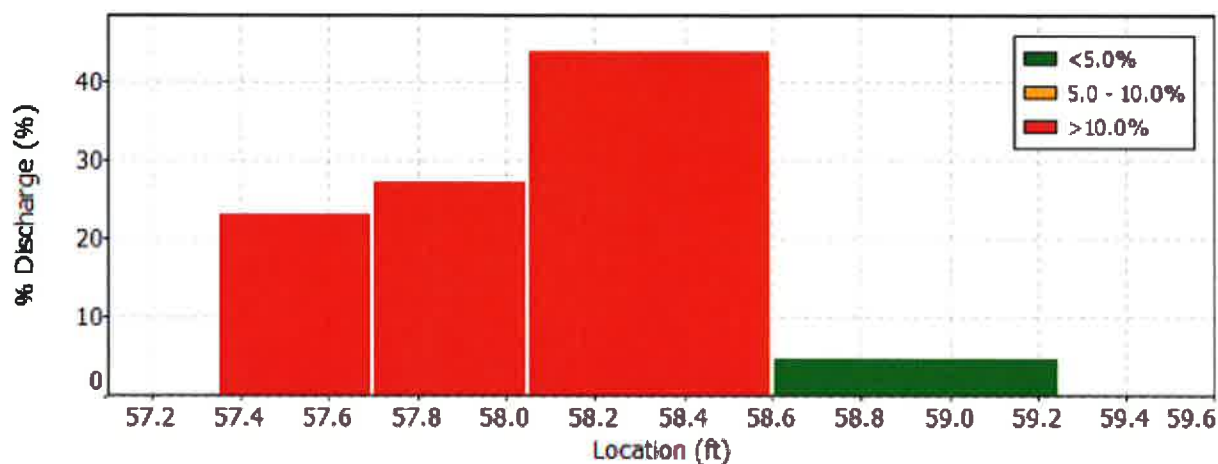
2020/07/23 08:46:40

**Site Details**

Site Name

Operator(s)

TS



# Discharge Measurement Summary

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**File Information**

File Name OVRLND1.WAD  
Start Date and Time 2020/07/23 08:46:40

**Site Details**

Site Name  
Operator(s) TS

**Quality Control**

St	Loc	%Dep	Message
4	58.90	0.6	High standard error: 0.038
		0.6	Boundary QC is Good; possible boundary interference



# Discharge Measurement Summary

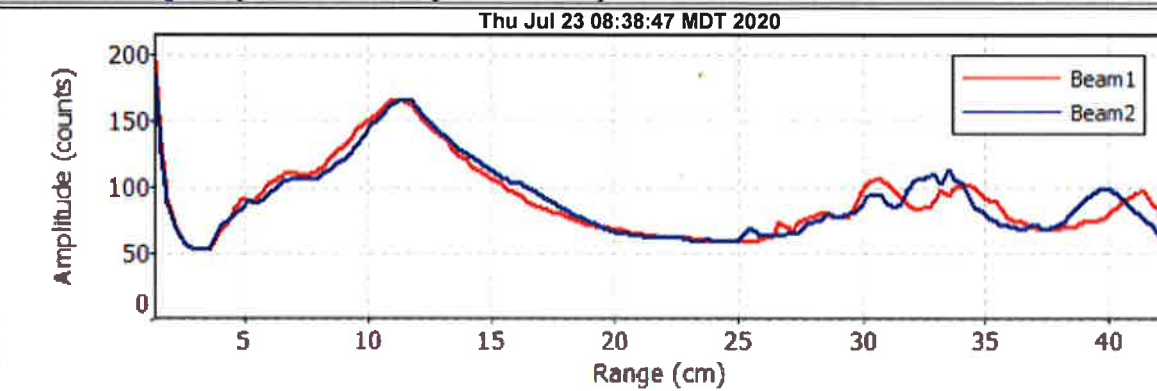
Date Generated: Mon Jul 27 2020

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File Name OVRLND1.WAD  
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**Site Details**

Site Name  
Operator(s) TS

**Automatic Quality Control Test (BeamCheck)**

- ✓ Noise level check - Pass
- ✓ SNR check - Pass
- ✓ Peak location check - Pass
- ✓ Peak shape check - Pass





Fig. 1 – Bank of the Snake River where water is diverted.



Fig. 2 – Pump with PVC line coming out bringing water to the bubbler.





Fig. 3 – View into cement pipe with pump on top where water is pumped from Snake River.



Fig. 4 – Pump tag:  
Motor make: Baldor  
10 Hp, 230 Volts, 40 Amps  
Rating: 40C Amb-Cont  
Serial no.: 37N374T040G1





Fig. 5 – View of bubbler looking east with field headgate in background.



Fig. 6 – View of bubbler and headgate looking north. P/U headgate is in the foreground, and decreed WR 3-4000 headgate in the background.





Fig. 7 – Delivery system consists of open ditch with siphon tubes.



Fig. 8 – View of p/u looking south. Domestic yard can be seen to the right side of the picture and is irrigated via alternative well system.





Fig. 9 – WR agent Tyler Smith conducting a flow measurement in open ditch.



Fig. 10 – Results of FlowTracker measurements yielded a rate of 0.73 cfs.

Point of Diversion Comparison

State of Idaho  
Department of Water Resources

Water Right no. 3-10278

Beneficial Use Field Exam

BasinSequence	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
3-10278	OVERLIN, ELLEN; OVERLIN, ELLEN	SNAKE RIVER				X												
3-2037	JACKSON, C L; TYREE, SNAKE RIVER														X			
3-4000	BAGOT, CAROLYN R; SNAKE RIVER					X												
67-13925	GOMEZ JR, IRINEO; GROUND WATER																	X

Yellow = this right  
Blue = overlap



## Department of Water Resources

## Beneficial Use Field Exam

TWS	Basin/Seq#	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
10N05W35	3-10278	OVERLIN, E	ESNAKE RIV	IRRIGATION				0.2													0.2
10N05W35	3-2037	JACKSON, J	ESNAKE RIV	IRRIGATION													8.5				13
10N05W35	3-4000	BAGOT, C	CASNAKE RIV	IRRIGATION		8		0.5													8.5
10N05W35	65-11413	LOWER PA	GRAVEYAR	IRRIGATION	X			X									X			X	
10N05W35	65-12279	LOWER PA	GRAVEYAR	IRRIGATION	X			X									X			X	
10N05W35	65-165A	LOWER PA	PAYETTE R	IRRIGATION	X			X									X			X	
10N05W35	65-165B	LOWER PA	PAYETTE R	IRRIGATION	X			X									X			X	
10N05W35	65-165C	LOWER PA	PAYETTE R	IRRIGATION	X			X									X			X	
10N05W35	65-165X	LOWER PA	PAYETTE R	IRRIGATION	X			X									X			X	
10N05W35	65-7425	LOWER PA	PAYETTE R	IRRIGATION	X			X									X			X	
10N05W35	65-7428	LOWER PA	PAYETTE R	IRRIGATION	X			X									X			X	
10N05W35	65-7848	LOWER PA	PAYETTE R	IRRIGATION	X			X									X			X	
10N05W35	65-7882	LOWER PA	GRAVEYAR	IRRIGATION	X			X									X			X	
10N05W35	65-7885	CONNECTI	GRAVEYAR	IRRIGATION	X			X									X			X	
10N05W36	3-10278	OVERLIN, E	ESNAKE RIV	IRRIGATION							4										4
10N05W36	3-4000	BAGOT, C	CASNAKE RIV	IRRIGATION						5.5	2.5										8
10N05W36	65-11413	LOWER PA	GRAVEYAR	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-12279	LOWER PA	GRAVEYAR	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-165A	LOWER PA	PAYETTE R	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-165B	LOWER PA	PAYETTE R	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-165C	LOWER PA	PAYETTE R	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-165X	LOWER PA	PAYETTE R	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-7425	LOWER PA	PAYETTE R	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-7428	LOWER PA	PAYETTE R	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-7848	LOWER PA	PAYETTE R	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-7882	LOWER PA	GRAVEYAR	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	65-7885	CONNECTI	GRAVEYAR	IRRIGATION	X			X		X		X		X		X		X		X	
10N05W36	67-7847	O HARA, M	GROUND W	IRRIGATION											2.9						2.9

= this right

= overlap





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](http://idwr.idaho.gov) • Email: [westerninfo@idwr.idaho.gov](mailto:westerninfo@idwr.idaho.gov)

BRAD LITTLE  
Governor

GARY SPACKMAN  
Director

June 24, 2020

**COPY**

ELLEN & MARTY OVERLIN  
67 HWY 95  
WEISER, ID 83672

**RE: Scheduling Field Exam for Water Right Permit No. 3-10278**

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 **0.16 CFS of SURFACE WATER FROM SNAKE RIVER** for **IRRIGATION** 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](mailto: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  
Water Permit Report and Map