

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7367

Exam Dates: 9/18/2024

Accompanied by: Jeff and Logan Alder

1. Current Owner:

JEFF ALDER
2154 S OLD HWY 191
MALAD CITY ID 83252-6564

2. **SOURCE:** Ground Water

B. OVERLAP REVIEW

1. Place of Use: License 15-7118 for 161 acres from Two Mile Creek overlaps 161 acres of the 264 acre place of use. Permit 15-7367 was issued without any combined limit with right 15-7118. Groundwater permit 15-7367 was issued with a volume limit of 160 AF as a condition to resolve protests to the application for permit. Shares from Deep Creek Irrigation Company are also used on the place of use. The permit lists this groundwater permit as supplemental to Deep Creek water. The conveyance system interconnects with the Deep Creek pressurized pipeline and the Two-Mile Creek system.

2. Point of Diversion: No other water rights withdrawn from the ground water well listed as the point of diversion

C. DIVERSION AND DELIVERY SYSTEM

The delivery system is a single well pumping to two mainlines that feed two full size pivots, a small wiper pivot, and several handline and flood irrigation connections.

1. **POINT OF DIVERSION:**

GROUND WATER SW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 3, Twp 15S, Rge 36E, B.M. ONEIDA County

Method of Determination: Site inspection/GPS.

2. **PLACE OF USE:** IRRIGATION

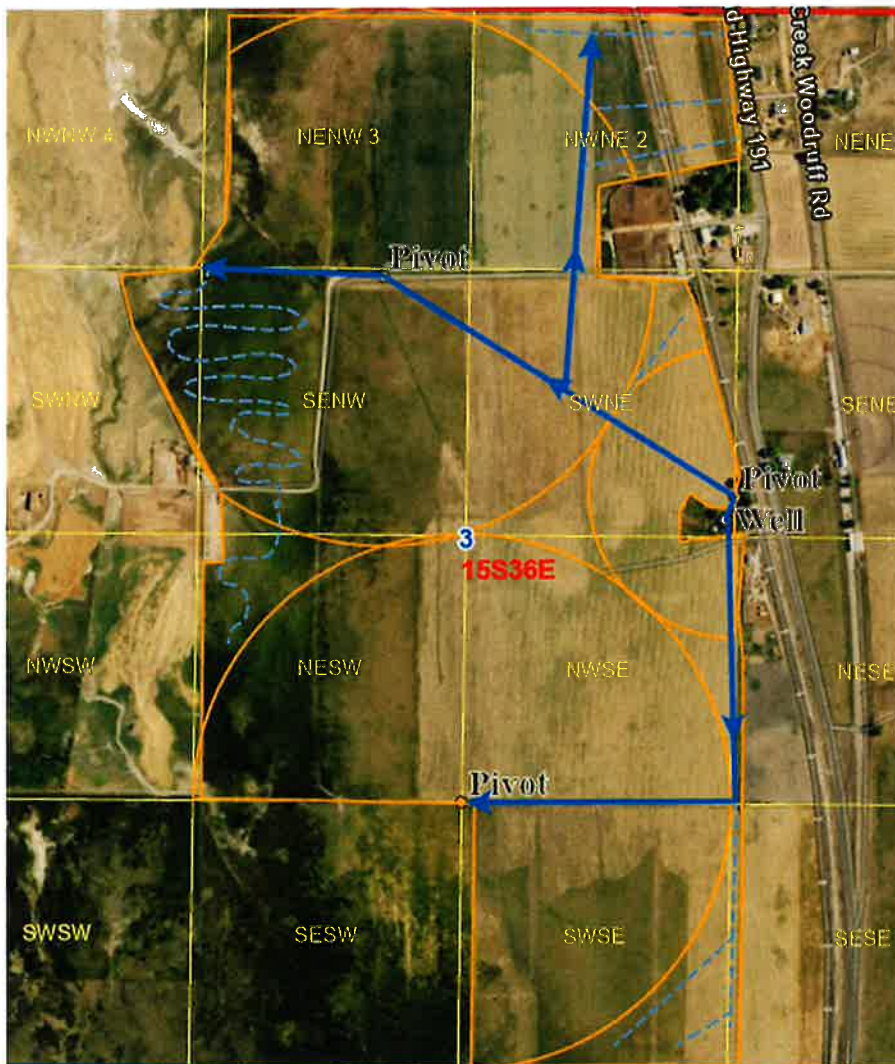
Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15S	36E	3		30	36		35		5	39	39					40	40		264
Lot				2			3												

Right Acre Limit:

Total Acres: 264

Method of Determination: Site inspection. Aerial imagery.

DELIVERY SYSTEM:



The entire shape outlines the 264 irrigated acres in the conveyance system. Solid blue lines are mainline approximations. Dashed blue lines are handlines, and the curvy/dashed blue lines represent the downhill flow of open discharge flood irrigation releases.

There are three pivots that cover the bulk of the place of use. There are also handline connections coming off the mainlines covering the corners. The conveyance system is interconnected with water supplied by Deep Creek Irrigation Co. The conveyance system was recently changed to pivots in 2024, so the 2023 imagery basemap does not show pivots.

The mainlines have an open water release valve to flood-irrigate at the edges, flowing downhill to the south.

4. SYSTEM SPECIFICATIONS:

Well ID: no tag/tag cut off.

Pump:

Motor: GE 5KS364DAJ6005D serial LSFT32OUO49 60 HP well motor

D. FLOW MEASUREMENTS

Flow Meter: Hidroconta Blue

Flow was measured at 600 GPM, or 1.34 CFS.

E. FLOW CALCULATIONS

N/A, flow measured

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 264 \text{ acres} \times 3.5 \text{ AF/acre} = 924 \text{ AF}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.34 \text{ cfs} \times 214 \times 1.9835 = 970 \text{ AF.}$

Volume Limit on Permit = 160 AF

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{160 \text{ AF.}}$

G. NARRATIVE/REMARKS/COMMENTS

The department reinstated the permit and advanced the priority date by one day to 05/25/2013 after a late extension request.

The maximum diversion rate of 1.34 CFS on 240 Acres from the well equals .0055 CFS/acre, a sparse application rate if groundwater were the only water source. The groundwater system can provide water to one pivot at a time. A combined rate measurement with Deep Creek and Two-Mile Creek water was not made, as these sources were not available during the field visit. Instead, the license includes the standard rate and volume limit. It also includes a combined acreage limit of 264 acres with water right 15-7118.

The license was amended to reflect the legal descriptions of the developed irrigated acreage of the place of use. A measuring device was installed before water was diverted under this permit.

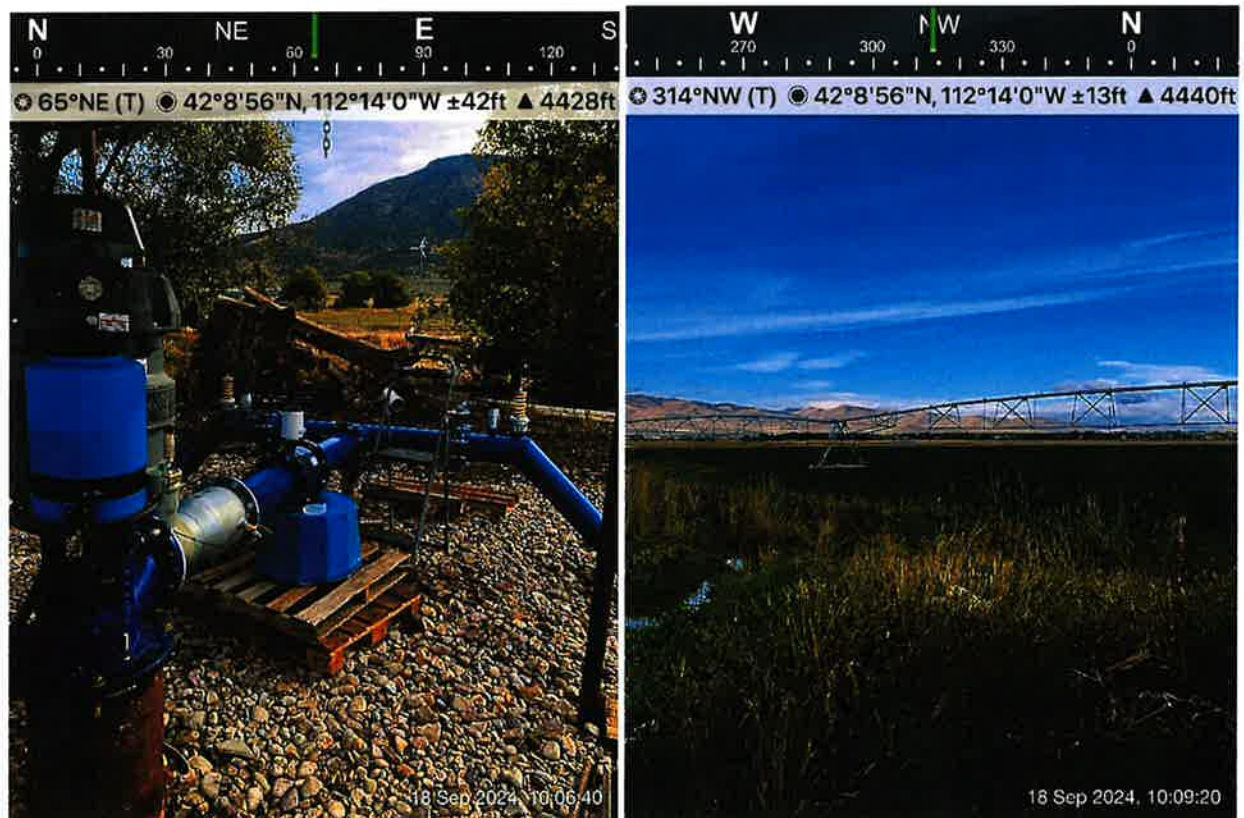
Deep Creek Irrigation Co confirmed that shares were still active at the place of use. The applicant guided me to a pump with the capacity to pump Deep Creek water from a ditch into the pressurized mainline system.

During the Sept 18 field visit, the totalizer reading on the well was approximately zero, indicating that no water had been pumped in the 2024 season since the meter had been installed.

Parcels containing the place of use and point of diversion are owned by the Lynn C Alder Family Trust and Jeff and Wendy Alder. A condition was added that this water right does not grant easement.

1. Well and pump system splitting to two mainlines

2. The small wiper pivot directly north of the well



3. South Pivot pictured in the distance 4. Hidroconta Flow Meter



5. Deep Creek/Two Mile Creek Irrigation Water Pump

6. Well casing with no tag found



Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION	04/01 to 10/31	1.34 cfs	160 AF

Totals: 1.34cfs 160AF

2. Recommended Amendments

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

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

I. AUTHENTICATION Christian Stewart, IDWR Water Resource Agent

Field Examiner's Signature Christian J Stewart
Date 10/18/24

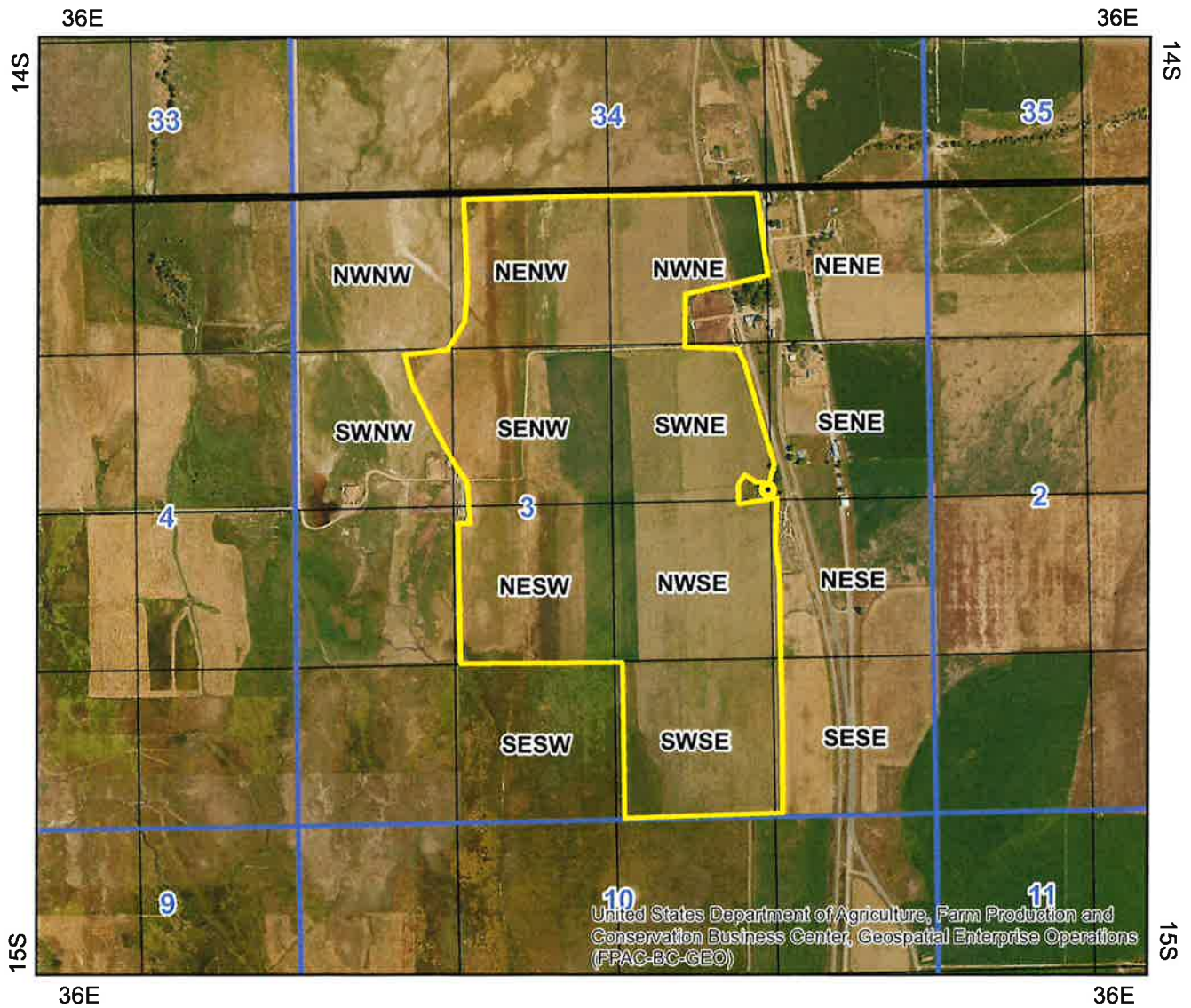
State of Idaho
Department of Water Resources

Water Right

15-7367

Jeff Alder

October 18, 2024



 Place Of Use Boundary

 Point of Diversion

 State Outline

 Townships

 PLS Sections

 Quarter Quarters

