

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7401

Exam Dates: 7/16/2024

Accompanied by: Tod Daniels, permit holder

1. Current Owner:

TOD F DANIELS

610 N 500 W

MALAD CITY, ID 83252-1022

2. **SOURCE:** Ground Water

B. OVERLAP REVIEW

1. Place of Use:

- The POU for groundwater right 15-7362 (.49 CFS, 51.5 acres) is fully contained within the POU for permit 15-7401. A condition limits the combined place of use to 74.9 acres. No POU overlap concerns identified. It should be noted that groundwater right 15-7362 is not conditioned as supplemental to surface water, but 15-7401 is conditioned as supplemental.
- Groundwater right 15-7505 (0.57 CFS, 60 acres) is used to irrigate acres under the same pivot and conveyance system as rights 15-7401 and 15-7362. The POU does not overlap.
- 22.75 shares of surface water from Malad Valley Irrigation Company are appurtenant to the lands irrigated by water rights 15-7362, 15-7505, and 15-7401. Documentation of these shares is listed in security interest documents for water right 15-7362. Malad Valley Irrigation Company confirmed that Tod Daniels holds 22.75 active shares of surface water that are being fully utilized on the place of use.

2. Point of Diversion:

- Well #D0068580, was drilled as a new well for permit 15-7401 in 2016 during the permit development period. This new well is 50 feet south of well #A0010864 ("old well"). The old well is listed as the existing point of diversion for water rights 15-

7361, 15-7362, 15-7505, and 15-7513. Groundwater rights 15-7361 and 15-7513 are not owned by Daniels and are not diverted from the new well.

- The new well and old well connect to a common mainline pipe that conveys water to the place of use for water rights 15-7401, 15-7362, and 15-7505. The old well was observed to be unused and unable to pump water.

C. DIVERSION AND DELIVERY SYSTEM

1. POINT OF DIVERSION:

GROUND WATER SE¼ NW¼, Sec. 21, Twp 14S, Rge 36E, B.M. ONEIDA County

Method of Determination: Site inspection, GPS

GPS 42.1924, -112.2618.

Well Drilling tag # D0068580

2. PLACE OF USE: IRRIGATION

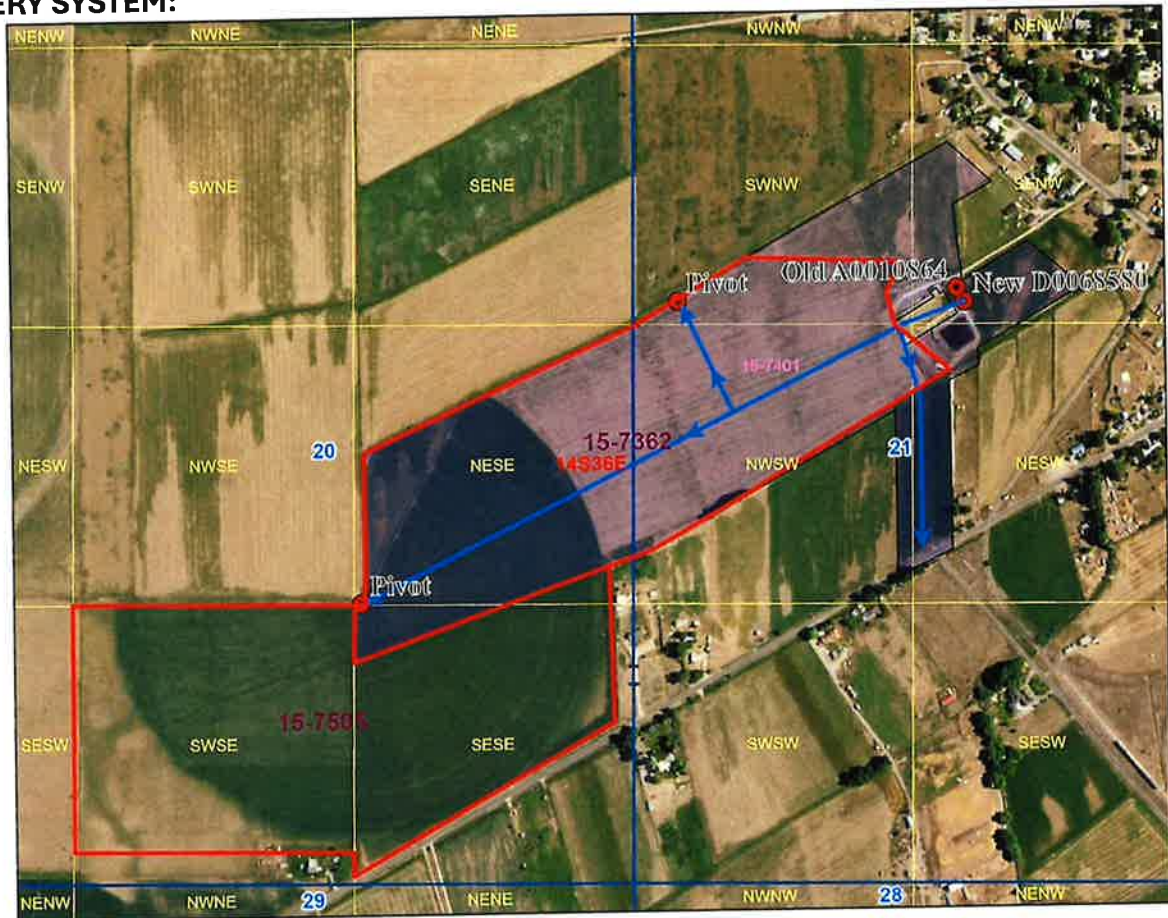
Twp	Rng	Sec	NE				NW				SW				SE				Total s
			NE	N W	SW	SE	N E	NW	SW	SE	N E	NW	SW	SE	NE	NW	SW	SE	
14S	36E	21							8.9	10	7	21							46.9
14S	36E	20													27			1	28

Right Acre Limit:

Total Acres: 74.9

Method of Determination: Site inspection. Aerial imagery.

DELIVERY SYSTEM:



Groundwater: Groundwater under permit 15-7401 is pumped from the new well into a mainline pipe. The mainline delivers water to two pivots and splits south to feed a wheel line connection on the south arm of the POU. The two pastures on the easternmost portion of the POU can be flood irrigated by an open water discharge.

Surface Water Shares: Surface water for the Malad Valley Irrigation Company shares is gravity fed through a ditch network for flood irrigation.

4. SYSTEM SPECIFICATIONS:

(New) Well ID: D0068580

Pump:

Motor: Unknown make, 75 HP

D. FLOW MEASUREMENTS

Flow Meter: Seametrics 8", #10220127

Flow was measured at well #D0068580 with the Seametrics meter. Instantaneous flow was

measured at 970 GPM or 2.16 CFS. The totalizer reading was 157.67 Acre Feet.

E. FLOW CALCULATIONS

N/A, flow measured

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 74.9 \text{ acres} \times 3.5 \text{ af/acre} = 262 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.01 \times 214 \times 1.9835 = 428.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 262 \text{ af.}$$

G. NARRATIVE/REMARKS/COMMENTS

Permit Development Timeline

The Department approved permit 15-7401 on June 9, 2015. Proof was due on July 1, 2020. On June 24, 2020, the permit holder filed an application for extension of time. The extension was granted and the proof due date was extended to July 1, 2025. In the extension of beneficial use timeline documents, the applicant intended the "old well" #A0010864 to be the point of diversion, but that it was later deemed unuseable, so well #D0068580 was drilled as the point of diversion. Well log indicates that the new well was drilled by 1/29/2016. The permitholder submitted proof of beneficial use on 12/20/23, within the timeline granted by the extension.

Irrigation History

At the time of the application, there were no pivots on the western or central portions of the POU. By 2023, the two pivots were in use and could be seen in aerial imagery. Per Sentinel imagery on 07/09/23, just prior to the department receiving proof of beneficial use, the entire place of use for permit 15-7401 showed significant irrigation.

Conveyance System Remarks

The maximum permitted flow rate is 1.01 CFS. The flow rate for the new well drilled during the development period is 2.16 CFS. The permit holder said he "transferred" 0.49 CFS from water right 15-7362 to the new well but I was unable to find documentation of any transfer filed with IDWR.

Well #A0010864 (old well) was unable to pump water due to a broken pump, and did not have a meter. The permit holder mentioned plans to have a drilling and pump company investigate refurbishment of the old well in fall 2024. Based on information from the proof

of beneficial use extension, the old well has not been fully functional since at least 2016. Due to the shared conveyance system, the new well is now capable of and is most likely being used to partially fulfill water rights previously associated with the old well. The new well and the conveyance can beneficially irrigate 1.01 CFS and 74.9 acres.

Based on its measured pumping capacity of 2.16 CFS, the new well provides enough pumping capacity to irrigate the three water rights owned by the permit holder and irrigated using the common conveyance system.

$(0.49 \text{ CFS} + 0.57 \text{ CFS}) \text{ existing} + 1.01 \text{ CFS permitted} = 2.07 \text{ CFS}$

Groundwater rights 15-7361 and 15-7513 are not diverted from the new well. Therefore, the point of diversion for water rights 15-7362, 15-7505 could all be transferred to the new well used for permit 15-7401 to better reflect actual water use for these rights.

Flow meter reading



New well tag



Old Well Tag



New well and pump



New well straight pipe and system



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	1.01 cfs	262 AF

Totals: 1.01 cfs 262 AF

2. Recommended Amendments

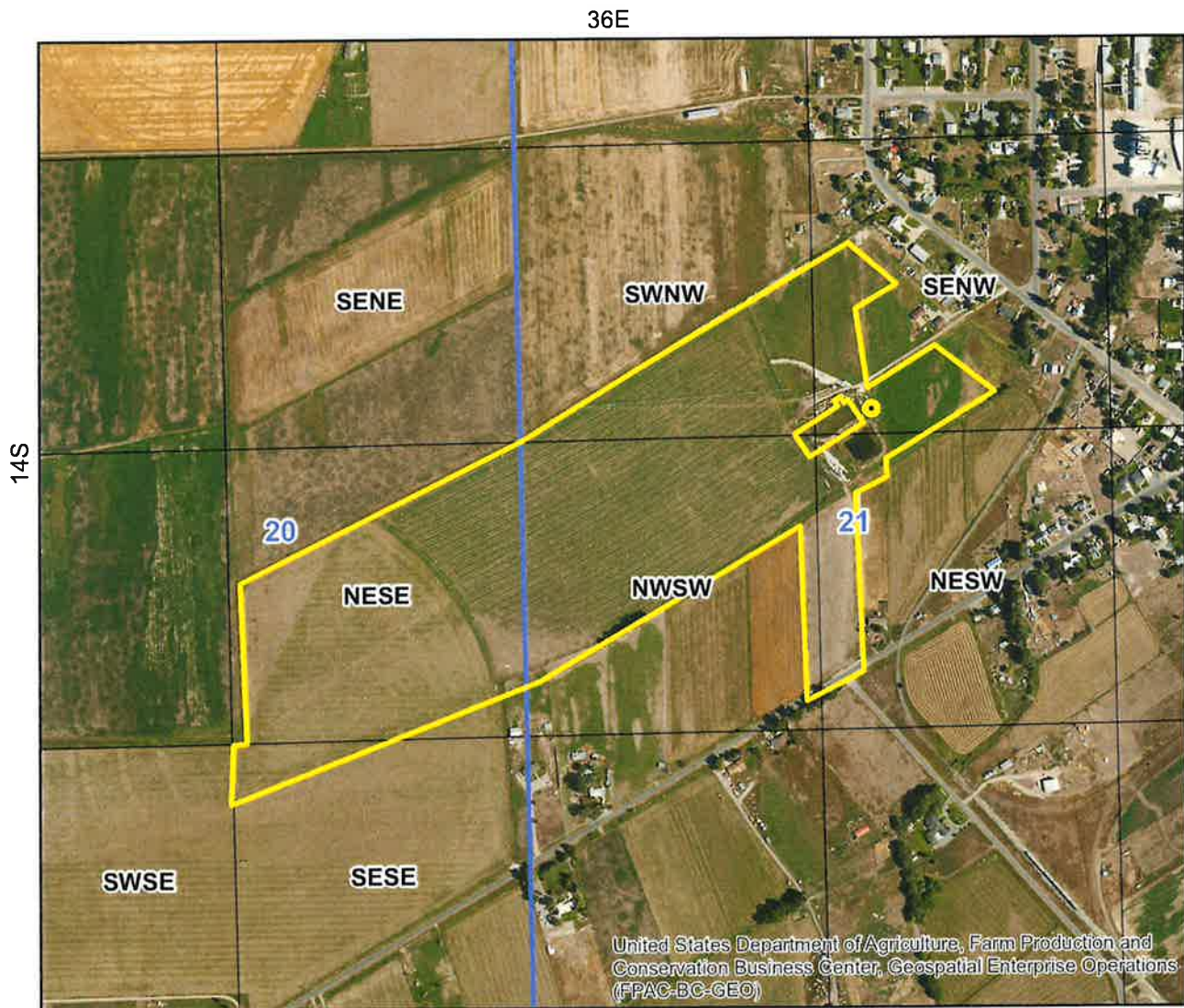
<u> </u> Change P.D. as reflected above	<u> </u> Add P.D. as reflected above	<u> X </u> None
<u> </u> Change P.U. as reflected above	<u> </u> Add P.U. as reflected above	<u> X </u> None

I. AUTHENTICATION Christian Stewart, IDWR Water Resource Agent

Field Examiner's Signature Christian J Stewart

Date 8/24/2024

State of Idaho
Department of Water Resources
Water Right
15-7401
Tod F Daniels
August 23, 2024



0 0.1 0.2 0.4 Miles

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

