

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 83-11997

Exam Date: 07/17/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y ___ N
- N/A Irrigation of 5 acres or less
 - N/A Storage of up to 14.6 AF for stockwater purposes only
 - X Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
 - N/A Other < >
2. Current Owner: RON WILSON
- Owner of Record Correct? X Y ___ N
- Address of Record Correct? X Y ___ N
- If No Explain:
- Clearwater County Tax Parcel information shows Ronald A. Wilson as the owner of parcel RP37N02E176150. I don't see any issues with the ownership of this permit or proposed license.
3. Beneficial Use Fees have been paid: **N/A** – Groundwater source and beneficial use for which a license examination fee is not required IAW Statement of Completion instruction guidelines.
4. **SOURCE:** Groundwater

Method of Determination: ArcMap GIS and Tax Parcel Data.
Change in Source: ___ Y X N

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
GROUNDWATER	1		SW	SW	17	37N	02E	B.M.	CLEARWATER

Method of Determination: ArcMap aerial imagery.

Change in POD? ___ Y X N Amendment Required? ___ Y X N

Place of Use: DOMESTIC

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
37N	02E	17										X	X						
		Lot #										L1	L1						

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: Groundwater well D0072265 an unknown brand pump and Goulds Centripro Aquavar Solo2 Submersible Pump Controller model 3AS20 serves as the diverting works for the water system with 1 1/4-inch pipeline to home from well.

____ Delivery System Diagram Attached. (mark all major components and distances between components)

☒ Aerial Photo Attached (required)

Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Model No.	Pump Make	Pump Serial No. or Discharge Size
D0072265	GOULDS	Unknown	3AS20 Aquavar Solo2	Unkown	1 – ¼ inch main service line from well to home.

D. FLOW MEASUREMENTS

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

2. Measurement Comments: No measurement required for an in-office exam.

E. FLOW CALCULATIONS

Domestic:

- Measurement = 1 home authorized a diversion rate of 0.04 cfs based on Administrator's Memorandum, Application Processing No. 22: Definition of "Domestic".
- Permit allowed = 0.04 cfs
- Applicant's pump controller is compatible with a range of ¾ HP up to 2 HP pump ends. The applicant didn't provide pump make/model specific information but a 2 HP (top of range) pump capacity equals HP*8.8*Efficiency/Height or 2 HP x 8.8 x .8 / 590 ft = 0.019 cfs or 0.02 cfs considering department rounding standards.
- License recommendation = **0.02 cfs** based on Theoretic Pump Equation derived flow rates.

Comments:

Due to flow measurements not being required, I calculated a theoretic pump equation based on well driller report for the well and well pump controller information received from the Permit Holder by email on 7/17/2024 as illustrated below:

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 590 ft, and running at 63 psi.

<u>PUMP EQUATION</u>					
WATER RIGHT No.		83-11997			
D0072265	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff} / H$	2	735.7143	0.8	590	63
Q = 0.019 cfs 8.6 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: Maximum Diversion Volume equals **1.2 af** for 1 home with up to ½ acre irrigation covered under domestic use.**G. PURPOSE OF USE**Irrigation N/A N # Stock N/A Domestic # of Homes: 1

Other: < N/A >

Change in Purpose of Use? X N

Method of Determination: Clearwater County tax lot data, information assessed on the Statement of Completion form, Application for Permit backfile review, and email correspondence received from the Permit Holder.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. There are no overlapping water right concerns toward licensing this Permit. I used ArcMap to assign the groundwater POD which I assigned as in the same location as the well construction, well drill company, GPS located well centroid. The Permit's **0.02 cfs** diversion rate is recommended for licensing based well pump capacity, which limits the applicant as 18 gpm or 0.04 cfs is not attainable with the current well pump. The well driller report identifies a well test yield of 3 gpm at time of construction and a theoretical pump equation illustrates a well pump is capable of producing 0.02 cfs with the largest pump end compatible with the pump controller used by the applicant.

The applicant's parcel doesn't reflect a year-built date according to Clearwater Co. tax parcel data, but aerial imagery clearly illustrates a structure developed and the applicant asserts on his Statement of Completion form step No.5 that "well with pump to home..." references 1 home. Mr. Wilson responded to an email inquiry for additional pump information via email response on 7/17/2024, and I've included the correspondence and photograph of the pump controller as supporting documentation to this report.

I used ArcMap aerial imagery, Google Earth software, and Clearwater County GIS tax parcel maps to evaluate the domestic POU and assigned a 0.9 ac rectangular POU shape that encompasses the residence and allows for up to ½ acre irrigation which occurs on the property. The POU shape is for illustrative purposes and the Right Holder is authorized up to ½ acre irrigation which coincides with the residence which may fall outside the Arcmap POU shape due to aerial shift/drift. I've designated a maximum diversion volume of **1.2 af** for 1 home with ½ acre irrigation included for licensing purposes.

I removed condition 046 during licensing review. I've added condition F06 as described above on PG1 of this report. Conditions X59 & X60 were added describing POD & POU locations falling within named subdivision lots. I have added condition 187 to describe the ½ acre irrigation occurring under domestic water use; as filed, the Application for Permit specifically declared ½ acre irrigation in step No.8 of the filing but was left off during the permit approval process.

Have conditions of permit approval been met? X Yes No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	1.2 AF

Totals: 0.02 CFS 1.2 AF

2. Recommended Amendments:

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

Other: < N/A >

J. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's  Date 7/17/2024

Reviewer  Date 4/12/2025

Field Exam Map(s): 3498 Canyon Creek Rd Orofino, ID 83544.

Clearwater County Tax Parcel map retrieved from
https://www.clearwatercounty.org/departments/gis_and_mapping/county_web_map.php

on 7/17/2024



Tax Parcel No. RP37N02E176150

83-11997

EMAIL RESPONSE FROM APPLICANT DATED 7/17/2024; PHOTOGRAPH TO LARGE TO PRINT ON ONE PAGE
AND A SCREEN SNIP WAS USED TO PRINT AS A WORD DOC PAGE.

Re: IDWR Water Permit 83-11997 Request for Information - License Review



Ron Wilson <mufboran@gmail.com>

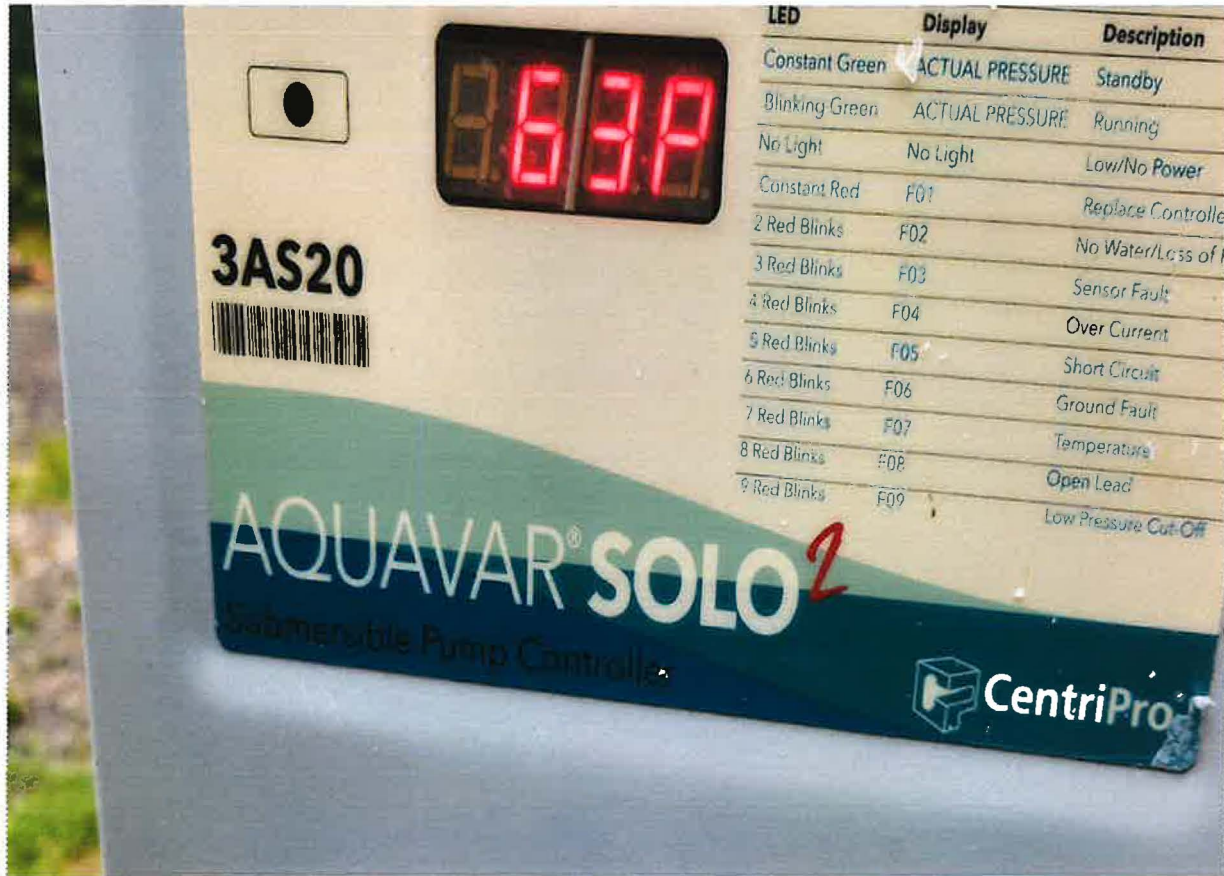
To: Bates, Luke



Wed 7/17/2024 3:59 PM

If there are problems with how this message is displayed, click here to view it in a web browser.

image001.jpg 6 KB



Bates, Luke

From: Ron Wilson <mufboran@gmail.com>
Sent: Wednesday, July 17, 2024 3:59 PM
To: Bates, Luke
Subject: Re: IDWR Water Permit 83-11997 Request for Information - License Review
Attachments: image001.jpg



CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

On Fri, Jul 12, 2024, 9:11 AM Bates, Luke <Luke.Bates@idwr.idaho.gov> wrote:

Mr. Ron Wilson,

Good morning. I've been tasked with licensing review for Permit **83-11997**, which authorized development of a groundwater well for Domestic use 1 home with up to ½ acre irrigation. I note your Statement of Completion was received by the Department on 4/23/2024.

The next step is a beneficial use field examination, which I plan to attempt accomplishing via an In-Office exam process. To expedite finalizing this permit for license approval I'm requesting additional water system information related to well D0072265's diversion system:

1. Do you have a copy of your pump install invoice which describes the pump make/model & horsepower (HP) of the pump? If not, there may be a gray relay control panel associated with the pump motor which typically has a data plate describing the HP paired with the pump. If possible, could you send me a photograph of the relay control panel box and close up of the data plate (not required but helpful)?

Thank you in advance for considering the question detailed above.

Please do respond to this email within 7 days, NLT 7/19/2024, as I work to finalize it for license approval. If I'm unable to obtain adequate information I may need to complete a site visit to complete the field examination process.

Thank you,

Luke Bates

Sr. Water Resource Agent

Northern Region

P: 208-762-2817



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Coeur D'Alene, ID 83815-7763

