

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17646
Exam Date: 02/12/2024

1. Current Owner:
CONNIE R DOUGALL 219 S LAUREL ST POST FALLS ID 83854
2. Accompanied by: In-office exam.

3. **SOURCE:**
GROUND WATER

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
95-7006 & 95-7013	GROUNDWATER	MUNICIPAL	DECREE(S)

Comments: Decreed Rights 95-7006 & 95-7013 use a separate GW well source for Municipal water services by Panhandle Village Water System, which overlap this parcel's domestic & irrigation POU. In a phone conversation with the applicant on 2/13/2024, Connie asserted prior to having the private well drilled she had to submit to the municipal provider to stop service. Currently only the private well serves the POU and there is no concern for overlap between rights.

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

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

GROUND WATER NE¼ SE¼, Sec. 27, Twp 52N, Rge 04W, B.M. KOOTENAI County

Method of Determination: Aerial photography, Kootenai County tax parcel maps, and ArcMap data.

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	
52N	04W	27													2.0				2.0

Total Acres: 2.0

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N	04W	27													X				

Method of Determination: Aerial photography, Kootenai County tax parcel maps, and ArcMap data.

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
N/A Indicate weir size/pipe as applicable. **IN-OFFICE EXAM**
- 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).
- N/A Photo of Diversion and System Attached **IN-OFFICE EXAM**

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0073537	PENTEK	3	UNKOWN		

D. FLOW MEASUREMENTS

Flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii.

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

The diversion rate for the domestic beneficial use component of this right is limited to **0.04 cfs** or **18 GPM**.

The diversion rate for the irrigation beneficial use component of this right is limited to **0.05 cfs** or **23.2 GPM**.

The maximum diversion rate for this right is limited to **0.05 cfs** based on theoretical pump equation derived flow rates for the 3 HP Pentek pump at depth of 305 ft with system operating pressure of 45 PSI. Irrigation department standard diversion rate equals 0.06 cfs for two acres, but applicant is limited by pump performance as developed found at time of field exam.

F. VOLUME CALCULATIONS

The annual volume for the domestic beneficial use component of this right is limited to **0.6 AF**.

The annual volume for the irrigation beneficial use component of this right is limited to = 2.2 acres x 3.0 afa = **6.6 AF**, which is the smaller of $V_{I,R}$ and $V_{D,R}$.

The maximum diversion volume for this right is equal to **7.2 AF**.

G. NARRATIVE/REMARKS/COMMENTS

The Department's parcel data shows Connie R Dougall as the owner of the property, and I've attached an excerpt from Kootenai County tax parcel maps that validate ownership in the name of Connie R Dougall Living Trust as the current property at time of licensing. The applicant asserts a 3 hp Pentek well pump is installed in well D0073537 on the statement of completion form. The well driller report shows a yield of 30+ gpm at time of well construction. The theoretic pump equation I developed during licensing review results in a flow rate of 23.2 gpm which is reasonable considering pump companies normally scale back the pump capacity from the values reflected on the well driller report so as to not dewater the groundwater source. The applicant is limited to the theoretic pump equation diversion rate derived during licensing review.

ArcMap aerial imagery shows domestic use of 1 home with POU shape assigned using ArcMap during licensing review. I referenced Google Earth, ArcMap, and Kootenai County tax parcel maps as I traced out the irrigation POU as observed by aerial imagery and specific discussion with the applicant; the trace out equals 2.2 acres, which is similar to the applicant's field map submitted with statement of completion showing approximately 300 ft x 265 ft area (+ additional 30 ft sprinkler arc = 330 ft) of fenced area irrigated by hose & sprinklers. The domestic and irrigation of 2.2 acres POU occurs on parcel No. RP057600000100. Connie Dougall submitted a single page 4-photo visual representation of irrigated area(s) throughout the parcel, which I've attached to the B.U. report. Connie asserts irrigation practices use three lengths of hose equaling 300 ft from the well and frost-free hydrant along with portable tripod rainbird sprinklers to irrigate tree seedlings and lawn space.

I emailed the applicant on 2/13/24 requesting additional information related to my initial irrigation acreage calculations as well as potential overlap related to a municipal water service provider whose decreed rights 95-7006 & 95-7013 overlap this Permit's POU. Connie Dougall responded by email on 2/13/24 with mark-ups asserting that she irrigates completely to a fence line slightly west from my initial evaluation, and providing feedback that supports the prior Panhandle Village Water system municipal connection had been terminated.

I removed conditions 26A and 046 from the Permit during licensing review based on the applicant complying with each condition. I've added conditions X59 & X60 during licensing review to describe the water systems POD & POU being within a named subdivision lot: Tract 10, Panhandle Village Subdivision. All other conditions on the Permit are being carried forward to 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>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	0.05 CFS	6.6 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AF
<u>Totals:</u>		0.05 CFS	7.2 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

I. AUTHENTICATION

Luke Bates -

Field Examiner's Name  Date 2/14/2024

Reviewer  Date 6/27/2024

Re: IDWR Permit 95-17646



Connie Dougall <c.dougall@yahoo.com>
To: Bates, Luke

Reply Reply All Forward ***
Tue 2/13/2024 5:00 PM

IMG_1513.HEIC 1 MB

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.

Luke,

I looked into my records when I got home. Your image of the irrigated area needed to extend just a small amount further to the West. I took a copy of your photo and extended it with a blue line to show the total area that was being watered. You can see on the North West side of the photo a small opening, that is where my gate and road go back into the timbered area. I tried to make a yellow circle in the area. I also took a photo of the letter from Panhandle Village Water saying they had received my form to terminate my water rights. Hopefully you can open it.

Let me know if you receive everything you need, or if you need more info.

Thanks

Connie



Sent from my iPhone

From: Bates, Luke
Sent: Tuesday, February 13, 2024 9:17 AM
To: c.dougall@yahoo.com
Subject: IDWR Permit 95-17646

Connie R Dougall,

Good morning. I work with IDWR here at our Coeur D'Alene Northern Regional Office and have initiated licensing review for your water permit 95-17646.

The Permit authorized domestic use for 1 home and up to 3.0 acres irrigation from a groundwater well. The permit does meet requirements to be evaluated as an in-office exam for licensing purposes, but I do have a few clarification questions regarding your water usage as follows:

1. Historically, Panhandle Village Water System has a decreed Right for municipal services that includes your parcel RP057600000100 at 16751 N Ramsey RD. Is the home and/or water still service connected to and/or served water by the municipal service provider?
2. I have used the Irrigation Place of Use (POU) sketch you provided that includes lawn, landscape, tree planting, & orchard trees and I have derived a 1.5-acre irrigation POU. The statement of completion identified 3.0 acres, but aerial imagery doesn't support the 3-acre total. Does the image below encompass your irrigation practices:

<image002.png>

Irrigation POU as shown = 1.5 acres

Please do respond to this email with responses to the two questions above within the next 7 business days, no later than 21 February 2024.

Thank you for your consideration of this request; you may contact me by phone with any questions you may have regarding the licensing process.

V/r,

Luke Bates

Sr. Water Resource Agent

Northern Region

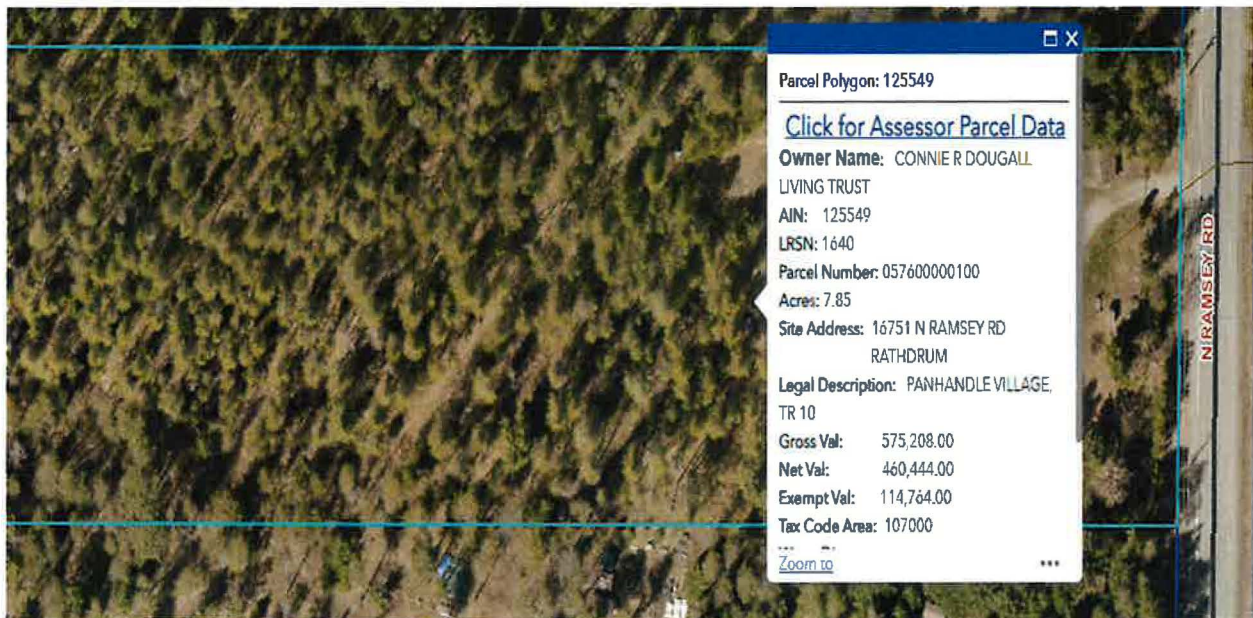
P: 208-762-2817

<image001.jpg>

7600 N. Mineral Dr., Suite 100
Coeur D'Alene, ID 83815-7763

95-17646

TAX PARCEL OWNERSHIP VALIDATION



Retrieved from Kootenai County Tax Parcel Viewer www.kcgov.us/app/kcearth/ on 2/12/2024 – L.Bates

THEORETICAL PUMPING EQUATION(S) FOR WR# 95-17646

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 305 ft, and running at 45 psi.

PUMP EQUATION

WATER RIGHT No. 95-17646

D0073537	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP * 8.8 * Eff / H$	3	409.0816	0.8	305	45
Q = 0.052 cfs 23.2 gpm					

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0073537

Drilling Permit No. 8810927
Water right or injection well # _____

2. OWNER:

Name Connie Dougall
Address 219 S. Laurel St.
City Post Falls State ID Zip 83854

3. WELL LOCATION:

Twp. 52 North ☒ or South ☐ Rge. 4 East ☐ or West ☒
Sec. 27 1/4 NE 1/4 SE 1/4

Gov't Lot _____ County Kootenai
Lat. 47 0 49.425 (Deg. and Decimal minutes)
Long. 116 0 48.498 (Deg. and Decimal minutes)
Address of Well Site 16751 N. Ramsey Rd

(Give at least name of road + distance to Road or Landmark)
City Rathdrum
Lot. 10 Blk. _____ Sub. Name Panhandle Village

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite Chips	0	18	650lbs.	Temp. Casing

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2	320	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) Ring @320'

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Air Perforator

Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
300	320	1/4x1	9	6"	Steel	.250

Length of Headpipe NA Length of Tailpipe NA

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
NA				

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 270 Static water level (ft) 260
Water temp. (°F) Cold Bottom hole temp. (°F) Cold
Describe access port Steel Welded Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
NA	30+ gpm	240

Test method:

Pump ☐ Bailer ☐ Air ☒ Flowing artesian ☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
12	0	18	Cobbles, Clay and Gravel		X
8	18	41	Large Gravel and Clay		X
8	41	44	Boulder		X
8	44	165	Large Gravel and Sand		X
8	165	210	Coarse Sand		X
8	210	217	Boulder		X
8	217	253	Coarse Sand and Gravel		X
8	253	270	Gravel w/ Tan Clay		X
8	270	288	Coarse Sand	X	
8	288	320	Large Gravel	X	

Completed Depth (Measurable): 320'

Date Started: 3/23/2017 Date Completed: 3/24/2017

14. DRILLER'S CERTIFICATION:

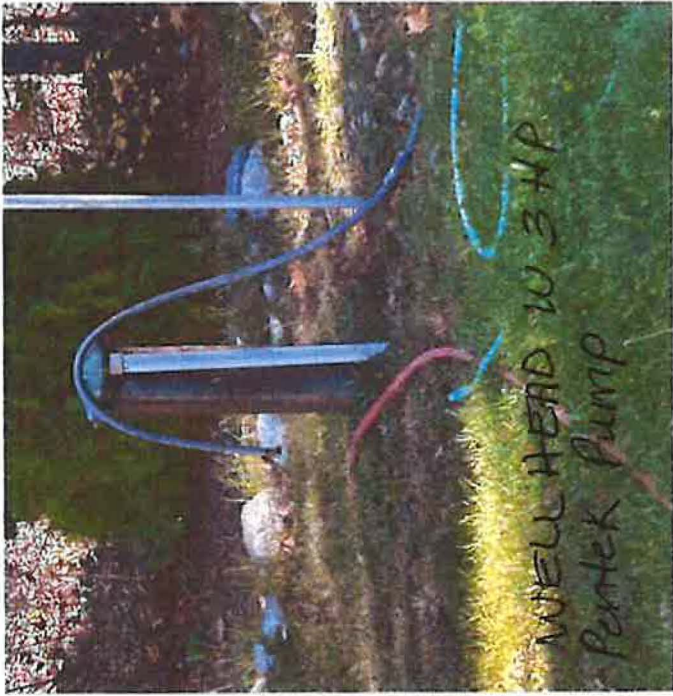
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Horsley Drilling, Inc. Co. No. 632
*Principal Driller C. Mark Horsley Date 3/29/2017
*Driller Steve C. Horsley Date 3/29/2017
*Operator II _____ Date _____
Operator I [Signature] Date 3/29/2017

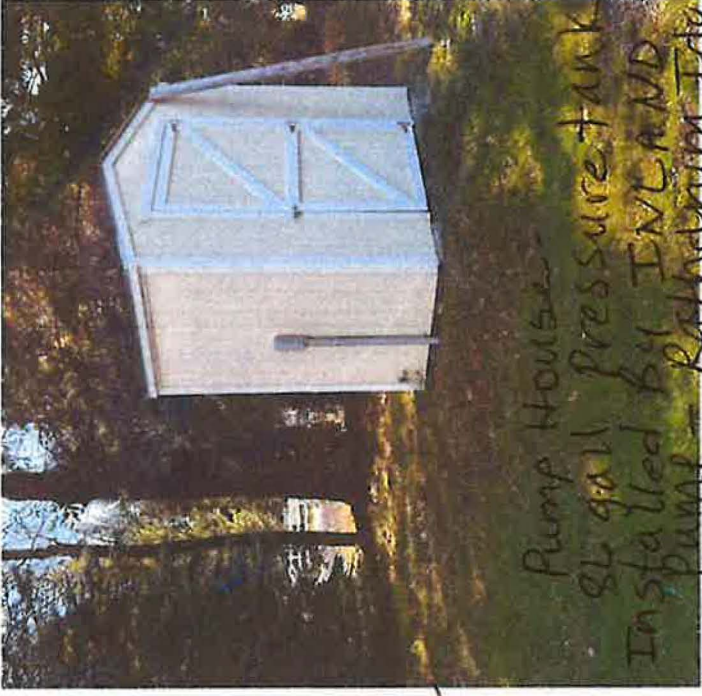
* Signature of Principal Driller and rig operator are required.

PERMIT #
95-17646

16751
N. Ramsey
Rd -
Rathdrum
Id 83858



20'
distance
←→



Orchard
← Part of
Ingrate
3 Acres
→ meadow

