

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

A. GENERAL INFORMATION

Permit/Claim No: 97-4205

Exam Date: 6/29/2023

1. Current Owner:
Robin D Cayton Revocable Trust
C/O Robin D Cayton 1111 Elm St
Sandpoint, Id 83864
(208) 610-7595

2. Owner of Record Correct? Y
Address of Record Correct? Y

Remarks:

3. SOURCE**TRIBUTARY**

Spring

Pend Oreille River

Method of Determination: Field exam, GPS

Change in Source: N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE

Water Right No.	Source	Purpose of Use	Basis

Comments:

2. Other water rights with the same point of diversion: NONE

Water Right No.	Source	Purpose of Use	Basis
97-7390	Spring	Domestic	License
97-7391	Spring	Domestic	License

Comments: Three houses using this spring.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

2.

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Spring			NW	SE	13	56N	6W	B.M.	Bonner
								B.M.	

Method of Determination: GPS during field exam

Change in POD? N Amendment Required? N

2. PLACE OF USE: Use: Domestic and Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	6W	13									10			7.3					17.3
																Total Acres =			17.3

Method of Determination: Field exam, imagery and Bonner County parcel data

Change in POU? N Amendment Required? N

3. X Delivery System Diagram Attached (optional). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 gallon bucket						

2. Measurements: 3 measurements: average 7 seconds to fill the bucket
43 gallons a minute or 0.1 cfs.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

License recommend for 0.1 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: surface water no volume required

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation ____Y ____N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ____Y ____N

Method of Determination: < >

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Springs located northeast of the place of use supply water through a pipeline. Water is stored near this spring in two 1,500 gallon underground tanks. An overflow pipe empties into small ponds above the tanks. That pipeline follows the toe of the hill and into a valve near the house. From the valve water is piped to the house. The spring is the only source of domestic water for the house and the shop that is located southwest of the house. A four-inch pipes flows to the southwest of the valve and supplies irrigation for 17.3 acres.

The springs also supply domestic water for two other households. The back files for licenses 97-7390 and 97-7391 identify their source as the same springs as 97-4205. The springs are located south of the road. Merrill And Muriel Oaks filed claim 97-7394 According to a memo in licensed right file 97-7394 this spring is north of the road. The Oats identified the spring location on a map included with their claim. This map also shows the spring as located north of the road.

Have conditions of permit approval been met? This is a claim

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	4/1 to 10/31	0.1CFS	AF
Domestic	1/1 to 12/31	0.02 CFS	
	<u>Totals:</u>	0.1 CFS	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: < >

J. AUTHENTICATION

Field Examiner's Name  Date 1/8/2024

Reviewer _____ Date _____

Photos taken June 29, 2023



Springs



Pipe flowing from under ground to overflow pond



Junction location as shown in the system diagram below



IDWR staff measured water with a five-gallon bucket.



Outflow





There is a spring on the property belonging to Christopher and Diane Oldham. Robin Cayton has an easement for the pipe and diversion on Oldhams' property. The spring is identified on the DRG. The spring feeds two 1,500-gallon buried tanks. All overflow from the tanks goes into a pond. From the tanks a buried pipe flows west along the south side of the road until the bottom of the hill. From there the pipe flows south until it reaches a junction. From the junction water is piped to the house and the large shed. Another pipe flows west, southwest to supply sprinklers. The fields are irrigated using the spring water and the spring is the only source of water for the house. There are two wells but neither had power at the time of the field exam.

The irrigated land is bisected by a wetland. A measurement was taken at the outflow of the 4-inch pipe using a five-gallon bucket at the location identified above. The sprinklers were not attached to the delivery system during the filed exam. Historically the irrigated land was part of a larger farm.

USGS Earth Explorer imagery August 17, 1953



USGS Earth Explorer Imagery August 8, 1978



July 31, 1965

