

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

A. GENERAL INFORMATIONPermit No: 84-12301Exam Date: 4/17/2020

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: James and Alison Lingo
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No: Address

The Department's tax parcel data shows the property for the place of use is in the ownership of James D. Lingo. The tax parcel shows the property for the point of diversion is in the name of the David and Mary Kathryn Wills Revocable Trust. This matches the application for permit that states that there is an easement and spring agreement for the Wills and Lingos on the Wills property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C108586

4. **SOURCE****TRIBUTARY**

Spring

Sinks

Method of Determination: GIS, and Tax Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no overlapping rights for this place of use.

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

Water Right No.	Source	Purpose of Use	Basis
84-12300	Spring	Domestic	Permit

Comments: Water right 84-12300 is the David and Mary Kathryn Wills Revocable Trust permit for the domestic use for the spring on their property. As discussed above, the Wills and Lingos have a shared spring agreement to use this spring for domestic use. The spring is on the Wills' property. Statutory claims 84-4122 and 84-4276 are for domestic and stockwater uses from the same springs, but it appears from the maps that the springs tied to these statutory claims are tied closer to the springs associated with water rights 84-10563. The springs for water right 84-10563 are on a property to the west of the property associated with this permit. The Wills attempted to file change of ownership on statutory claim 84-4122, but it was determined by Department Staff that legal description for the place of use was not the same. However, it is unclear where the point of diversion for statutory claims 84-4122 and 84-4276 is located. Until there can be verification of the point of diversion for 84-4122 and 84-4276, I am considering that these rights are not direct overlapping water rights. It also appears as though the permit holder and the Wills built a new spring house, so that also suggests that 84-4122 and 84-4276 are diverted at a different location.

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

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Spring		SE	SW	NE	4	36N	2E	B.M.	CLEARWATER
								B.M.	
								B.M.	

Method of Determination: GIS, and Tax Lot data.Change in POD? X N Amendment Required? X N**2. PLACE OF USE:** Use: 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	
36N	2E	4			D														
		Lot #																	
Total Acres =																			

Method of Determination: GIS and Tax Lot DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). 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
Spring	Unknown	1			Unknown

*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
NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONS

___Additional Computation Sheets Attached

Measured Method:

The application for permit stated that a 1 Hp pump is used to pump the water from the spring to the two properties. The area around the spring is reasonably flat, so there really wouldn't be any need to lift or pressure. Therefore, I did a theoretical calculation to determine what the lift and pressure would be to attain 0.04 cfs for either homes, or a total diversion rate of 0.08 cfs. As you can see from the calculation below, this system should be more than able to supply the diversion rate needed for both homes. Administrative Processing Memo #22 establishes a rate 0.04 cfs per home.

$$(8.8 \times 1 \text{ Hp} \times 0.70) / [10 \text{ ft lift} + (30 \text{ psi} \times 2.31)] = 0.08 \text{ cfs or } 35 \text{ gpm}$$

Administrative Memo #22 = 0.04 cfs for domestic use**Permit allowed = 0.04 cfs**

I am recommending 0.04 cfs since the permit was based Administrative Memorandum #22. There will not be any need for combined limitations, because this system can supply adequate water for both properties.

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

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

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

2. Volume Calculations for Other Uses:

The standard for domestic is use set forth by Administrative Processing Memo #22. I am recommending a diversion volume of 1.2 af for in-house use and up to ½ acres of irrigation. There shouldn't be any need to combined limitations for this system.

G. PURPOSE OF USEIrrigation ___Y___N # Stock _____ Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ___Y___N

Method of Determination: Taxlot data and application for permit.

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

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. The spring is also used for permit 84-12300. The system appears to provide adequate water for both homes, so there should be no need for combined limitations based on the capacity. I did change the place of use shape to the entire tax parcel. You can see in the 2019 aerial imagery the home and the path of the piping from the spring. You can also see a newly constructed spring house. I adjusted the point of diversion location in ArcMap a bit to show the actual location of the spring house on the property.

Conditions X01, 187, and 004 should all be carried forward to licensing.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Domestic	01/01 to 12/31	0.04 CFS	1.2 AFA
	<u>Totals:</u>	0.04 CFS	1.2 AFA

Please Note: This is a surface water right, so no volume will be included on the water right license.

2. Recommended Amendments

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

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

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name _____ Date _____

Reviewer Angela M. Quinn Date 4/23/2020

Field Exam Map:

The yellow border shows the parcel for this permit and the yellow dot shows the shared spring with water right 84-12300. The green lines show the parcel lines, and the green callout shows the property that shares the spring. The red dot shows the springs for water right 84-10563, which may also be the same point of diversion for statutory claims 84-4122 and 84-4276. This is the 2019 aerial imagery, and you can see the path of the line from the spring running parallel of the road and the branch line running up to the property for permit 84-12300.

