

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

A. GENERAL INFORMATIONPermit No: 75-14462

Exam Date: June 25, 2013

1. Current Owner: DAVID RHOADES
BRENDA RHOADES
2283 S 55TH W
IDAHO FALLS ID 83402

2. Owner of Record Correct? X Y ___ N
Address of Record Correct? X Y ___ N

Remarks:

3. SOURCE**TRIBUTARY**

Tendoy Springs

Salmon River

Method of Determination: discussion with owner, photos and aerial photography

Change in Source: ___ Y X ___ N**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis
75-14461	Wallace Creek	Irrigation	Permit/License

Comments: There is a well on the property.

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

Water Right No.	Source	Purpose of Use	Basis

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County
Tendoy Spring	8	NW	SW	SW	6	22N	22E	Lemhi

Method of Determination: Conversation with the permit holder and aerial photography

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

2.

PLACE OF USE:		IRRIGATION																	
Twp	Rge Sec	NE				NW				SW				SE				Totals	
22N	22E 6	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	5.0	
												.2	4.8						
												L 8	L 13						
Total Acres:		5																	

Method of Determination: Conversation with the permit holder and aerial photography

Change in POU? ____Y ____X__N Amendment Required? ____Y ____X__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 – permit holder sent photos

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 None taken

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
In house						
No measurements						

2. Measurements: _____

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

5 acres X 0.03 = 0.15 cfs

Calculations 0.15

Permit 0.1 cfs

Measured Method: none

License recommend for 0.1 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5 \text{ acres} \times 3.5 = 17.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.1 \times 260 \times 1.9835 = 51.57 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{16.38 \text{ AF}}$$

2. Volume Calculations for Other Uses: none

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: none

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Conversation with the permit holder and aerial photography

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

H. NARRATIVE/REMARKS/COMMENTS

According to David Rhodes he diverts water from two sources to irrigate 5 acres, Wallace Creek and Tendoy Springs. The water from Tendoy Springs flows into a 2-inch pipe from a small collection pond. Mr. Rhodes provided photographs of the pond (see attached photo narrative); however, the pond is small enough that it does not appear on imagery. A headgate with a 4-foot culvert supplies water to a 2-inch pipe. A valve on the 2-inch pipe allows the permit holder to control the flow of water. Most of this water is spring runoff and the small pond behind the headgate helps settle the dirt from the water before it enters the pipe. The spring is approximately 226 feet uphill and 1,740 feet to the west of the irrigation system. The spring typically stops flowing in July.

Wallace Creek to the north provides a second point of diversion for permit 75-14461. A pipe carries water down the Wallace Creek drainage to the road. The pipe is buried beneath the road and comes back to the west side through a culvert. Once the pipe approaches the property to the south the pressure in the pipe is sufficient to supply water to the same place of use as the Tendoy Spring permit place of use.

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

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE
IRRIGATION	3/1 to 11/15	0.1 CFS
Totals:		0.1 CFS

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: none

J. AUTHENTICATIONField Examiner's Name Samuel T. Hill Date 12/13/2017

Reviewer _____ Date _____

Permit 75-14462

Manning's Equation Calculator for Flow Rate in a Circular Conduit Flowing Full

S = 0.1299 ft/ft
n = 0.009 manning's coefficient
d = 2.0 pipe diameter (inches)
D = 0.17 pipe diameter (feet)
r = 0.08 pipe radius (feet)
A = 0.02 area (ft²)
WP = 0.52 wetted perimeter (ft)
R = 0.04 hydraulic radius (ft)

Q = 0.15 flow rate (CFS)

Channel Slope

Slope Options

☐ Manual Entry ☒ Slope Calculator

Slope Calculator

Rise = 226 feet

Run = 1740 feet

Slope, S = 0.1299 ft/ft

Pipe Material, (n):

plastic (pvc, abs)

Pipe Diameter (inches)

2.0 inches



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

CARY SPACKMAN
Director

November 2, 2017

DAVID RHOADES
BRENDA RHOADES
2283 S 55TH W
IDAHO FALLS ID 83402

Re: Water Right Permit No. 75-14462

Dear Mr. and Mrs. Rhodes:

On December 11, 2009, the Idaho Department of Water Resources issued permit 75-14462 to Gertrude Maxwell to divert water from a spring for irrigation. Ms. Maxwell submitted proof on January 5, 2010.

During the field exam it became evident that the spring was developed in a different 10 acre track than the location on the water right permit. Idaho water appropriation rules require that the location of springs shall be described to the nearest ten acre tract. The enclosed application for amendment includes the location of a point of diversion that was developed differently than what was authorized under the permit.

Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed. The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within in 21 days, by November 23, 2017.

If you have any questions please contact me at (208)287-4881 or at sandra.thiel@idwr.idaho.gov.

Sincerely,

Sandra Thiel
Sr. Water Right Agent

Enclosure(s)



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C.L. "BUTCH" OTTER
Governor

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October 6, 2017

DAVID RHOADES
BRENDA RHOADES
2283 S 55TH W
IDAHO FALLS ID 83402

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If you have any questions please contact me at (208)287-4881 or at sandra.thiel@idwr.idaho.gov.

Sincerely,

Sandra Thiel
Sr. Water Right Agent

Enclosure(s)



2 dual headgate where USFS property meets my property, can fill stock pond early in runoff season left side
Right side allows water to flow down ravine to River.

1 Where runoff water comes from USFS to my property

P1000764.JPG 7/12
Walmart 7/15/2013 Order# 18381

DAVE RHOADES

208 243 3011

4 Could be lockable headgate headgate above spring collection pipe with overflow bypass for heavy runoff.

P1000759.JPG 12/12
Walmart 7/15/2013 Order# 18381

3 Where spring comes out of ground on my property & fills spring collector pipe.

P1000760.JPG 11/12
Walmart 7/15/2013 Order# 18381



6 Air release + shut off Valve
from spring collector to bottom
of hill

P1000769.JPG 2/12

Walmart / 15/2013 Order# 18381

5. A Spring water Collection Pipe
a 2" pipe comes out of pipe + runs
down to bottom of hill for irrigation

P1000768.JPG 3/12

Walmart / 15/2013 Order# 18381

8 Stock water pond from run off
water only - no spring water.

P1000761.JPG 10/12

Walmart / 15/2013 Order# 18381

7 2" pipe runs 1500' to bottom of
hill to help w/irrigation

P1000770.JPG 1/12
Walmart / 15/2013 Order# 18381



9 July 12 2013

Amount of water available on that
date

P1000667.JPG 4:12
All water has stopped now &
always ends in July. No water
on July 18

Fish screen evidence*



5. A Spring water Collection Pipe

a 2" pipe comes out of pipe & runs
down to bottom of hill for irrigation

*See attached envelop for original photo

PHOTOGRAPHER AND DATE OF PHOTOS David Rhodes (printed July 15, 2013)



Spring location on the Rhodes property. The water flows into a collector pipe



Lockable headgate above the spring collection pipe with overflow bypass for heavy runoff.



Spring water collection pipe:
A 2 inch pipe runs down to the bottom of the hill for irrigation.



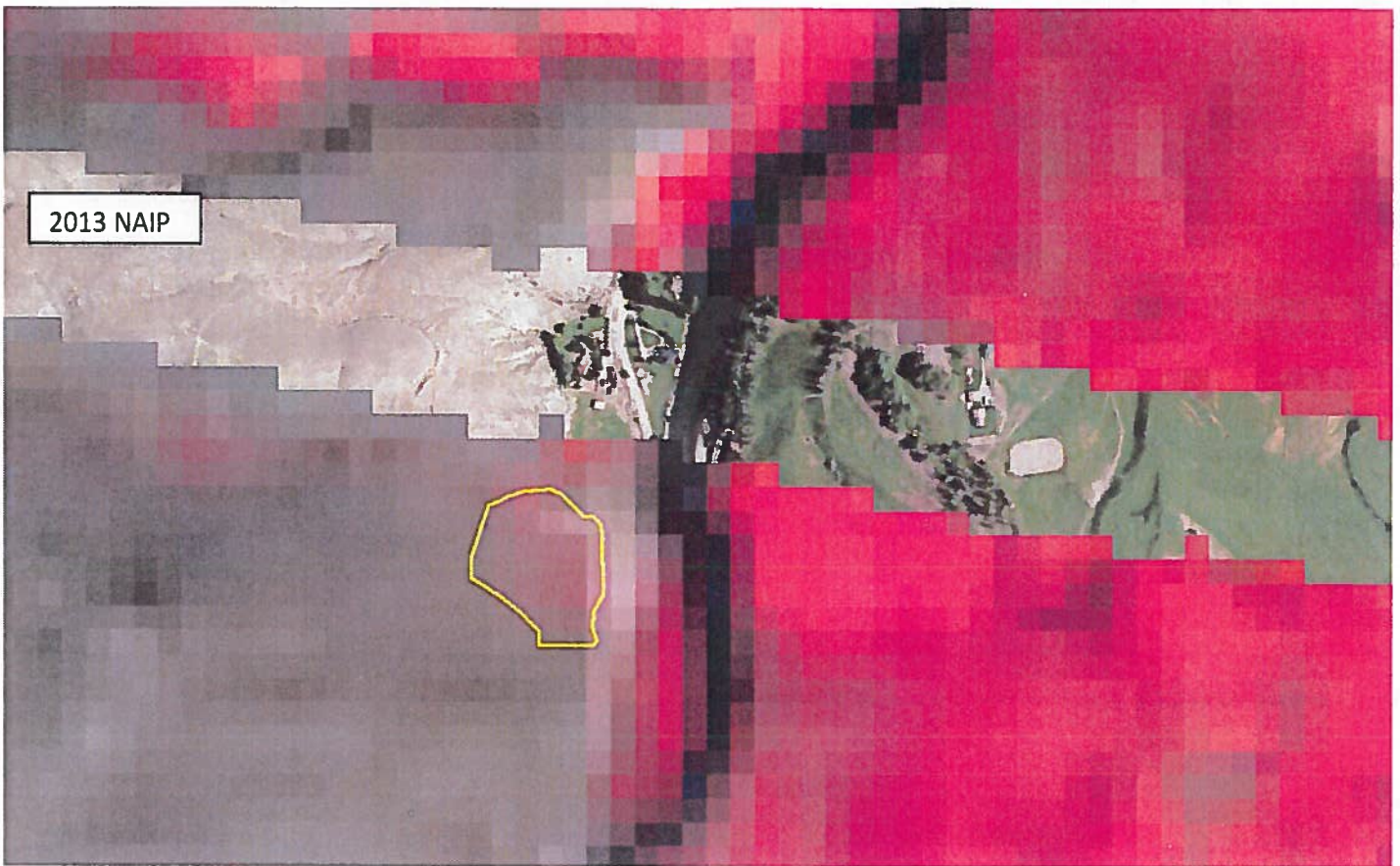
Air release and shut off valve from the spring collector to the bottom of the hill



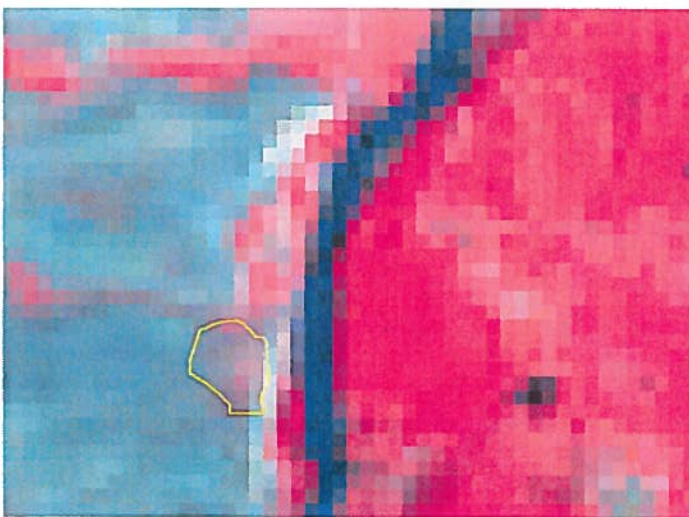
The 2 inch pipe runs 1,500 feet to the bottom of the hill to help with irrigation



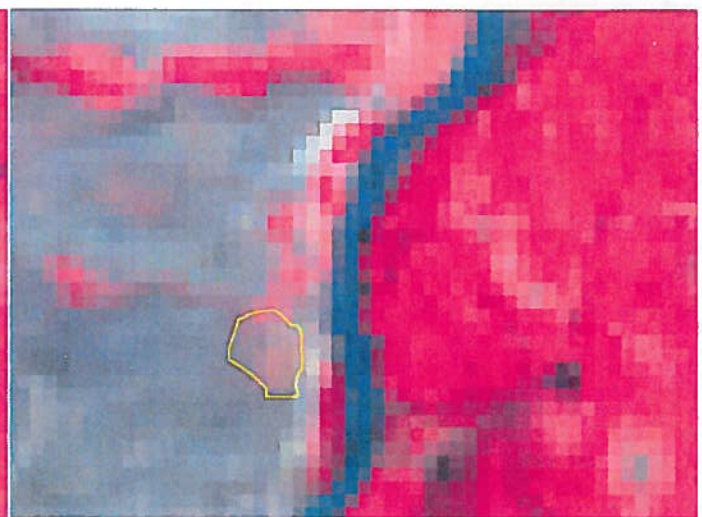
Evidence of irrigation



There is a break in the 2012 Landsat imagery above. The underlying 2013 NAIP imagery shows the contrast between the irrigated land near the Salmon River and the non-irrigated land to the west. The yellow polygon shows the place of use for water right 75- 14462.



June 28, 2009 Landsat



July 4, 2011 Landsat

RECEIVED

JUL 24 2013

DEPARTMENT OF
WATER RESOURCES

Attn: Sandra Thiel IDWR

Sandra thanks for your help
and patience. There are 9 photos
of water devices etc.

Please call when you receive so
we can answer any questions + know
that you received info.

DAVE RHOADES 208 243 3011

Thank you!

Dave Rhoades