

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-09510

Exam Date: 6/13/2017

1. Current Owner:
ELMOR EVANS 6776 BENEWAH CREEK RD SAINT MARIES ID 83861 (208) 245-3110
2. Accompanied by: Elmor Evans

3. **SOURCE:**
UNNAMED STREAM

TRIBUTARY:
BENEWAH CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-17386
2. Other water rights with the same point-of-diversion: 95-17386

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

UNNAMED STREAM SW¼SW¼ Sec. 4, Twp 45N, Rge 03W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD located at -116° 43.914, 47° 16.143

2.

PLACE OF 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	
45N	03W	4											3.8						3.8

Total Acres: 3.8

Method of Determination: Google Earth and Arcmap.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X

Indicate weir size/pipe as applicable.

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).

X

Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Honda			WB20XT	

*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: 5 gallon bucket test performed in 8 seconds.

$$5 \text{ gal} / 8 \text{ sec} \times 60 \text{ sec} = 37.5 \text{ gpm or } 0.08 \text{ cfs}$$
E. FLOW CALCULATIONS

Measured Method: N/A

 Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.8 \text{ AC} \times 3.0 \text{ AF} = 11.4 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \text{ CFS} \times 214 \times 1.9835 = 34.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 11.4 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

During field exam review it was discovered that the applicant had applied for a cfs diversion rate from an unnamed stream and had not applied for any storage. The 2015 aerial imagery showed a pond located on the property that would not be covered under 24 hour rule for 0.08 cfs for irrigation. It was discussed with regional staff prior to field exam exactly how to approach the exam. It was decided that if applicant had system in place to irrigate, he should be given credit for permit and licensed. It was also decided that there was no way to cover the pond under this permit and a new one would need to be filed by the applicant.

Field exam with applicant, Elmor Evans, showed Honda pump with suction hose in pond. Mr. Evans had a flexible hose going from pump to a Y connection where 2 hoses went for flood irrigation. The applicant disconnected the Y connection so a 5 gallon bucket test could be performed. The applicant fired on the pump and the flow rate was far greater than a 5 gallon test could measure. Mr. Evans lowered the RPM using the throttle on the pump and a 5 gallon test was performed in 8 seconds which is equal to 37.5gpm or 0.08 cfs. When irrigated area was mapped out it was equal to 3.8 acres.

It was discussed with Mr. Evans that would need to file a new application for permit to cover the storage in the pond. He said he thought he had been doing what his permit allowed him to do, but did say he would apply for a new application to do the right thing that way he was covered. He was advised he should only run at the lower RPM rate until the new permit was signed and then he could run the pump at whatever rate he wanted. Since field exam, Mr. Evans has applied for a new application to include storage for the pond, irrigation storage, and irrigation from storage (95-17386).

License will be issued for 0.08 cfs with no annual volume. Condition R66 will be changed to R58 which will limit this right and any other rights to 3.0 afa per acre. It was not permit, but condition X15 will be added to license to ensure a fish screen is present at all times. License will not be overlapped with permit 95-17386 because it has not been examined yet and there is the possibility different acreage could be irrigated than what is license on this right. No other overlap concerns.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	0.08 CFS	
<u>Totals:</u>		0.080 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

I. AUTHENTICATION

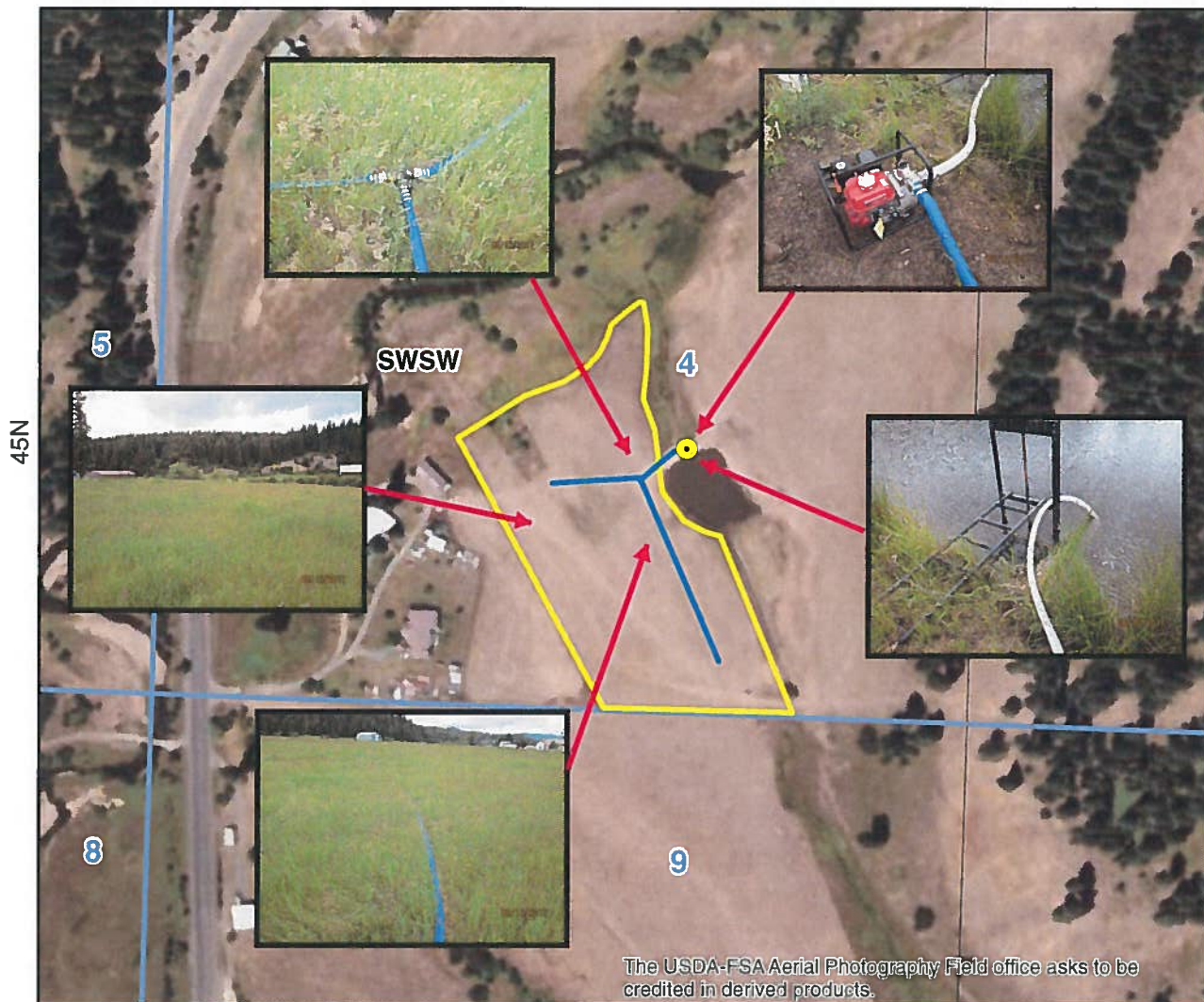
Field Examiner's Name Adam F. Fisher Date 1-5-2018

Reviewer Date

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-9510

IRRIGATION / SYSTEM DIAGRAM

03W

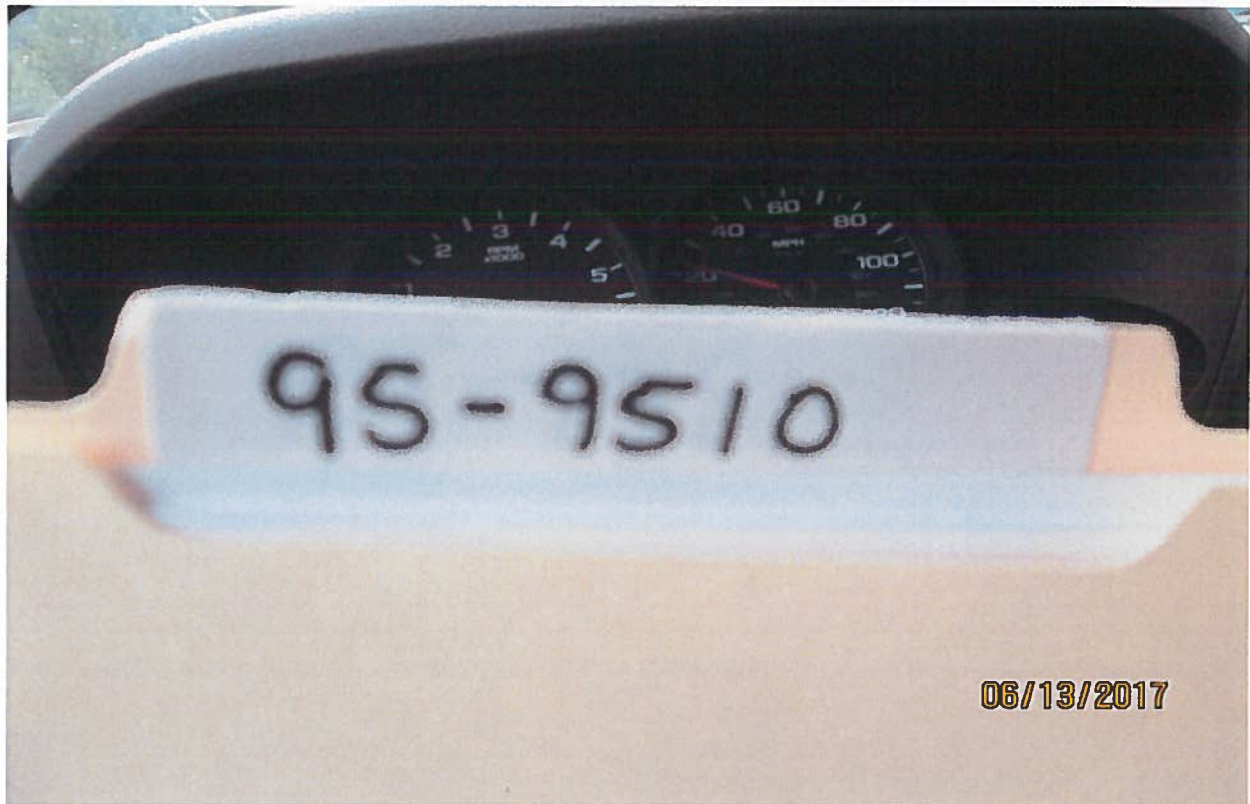


The USDA-FSA Aerial Photography Field office asks to be credited in derived products.

0 0.035 0.07 0.14 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections





Honda pump capable of producing 164 gpm.



Point of diversion.



Culvert from pond allowing overflow to Benewah Creek.



Hose from pump to two different locations for flood irrigation.



Hose going up slight hill to allow water to flow down.



Hose leading to another location for flood irrigation.



Place of use.



Place of use.



Applicant had applied for a diversion rate for irrigation with no storage component on permit. The pond that was built was too large to be covered under the 24 hour for 0.08 cfs. Applicant filed a new application, 95-17386, to cover the storage in the pond and to also cover irrigation storage and irrigation from storage.