

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-07899

Exam Date: 9/23/2016

1. Current Owner:

DAWSON J CARRIERE PO BOX 1813 BONNERS FERRY ID 83805 (208) 267-6275

Or

CANDACE R CARRIERE PO BOX 1813 BONNERS FERRY ID 83805 (208) 267-6275

2. Accompanied by: Dawson Carriere

3. SOURCE:

MEADOW CREEK

TRIBUTARY:

MOYIE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

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

MEADOW CREEK SE¼SW¼ Sec. 17, Twp 63N, Rge 02E, B.M. BOUNDARY County

Method of Determination: GPS and maps. POD location at 48° 48.36, 116° 14.037

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
63N	02E	17												X					

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	
63N	02E	17												1.5					1.5

Total Acres: 1.5

Method of Determination: Google Earth and Arc map.

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
TRASH PUMP	UNKNOWN	1			

*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

2. Measurements: UNABLE TO PERFORM MEASUREMENT. BELOW FREEZING TEMPERATURES.

E. FLOW CALCULATIONS

Measured Method: SEE ATTACHED THEORETICAL PUMPING EQUATION FOR A 1HP PUMP.

 X Additional Computation Sheets Attached

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \text{ AC} \times 3.0 \text{ AF} = 4.5 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .04 \times 200 \times 1.9835 = 15.8 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 4.5 \text{ AF}$$

2. Volume Calculations for Other Uses: STOCKWATER

$$10 \text{ HEAD OF STOCK} \times 12 \text{ GPD} \times 60 \text{ DAYS} = 7,200 \text{ GAL} / 325,850 \text{ GAL/AF} = .02 \text{ AF}$$

STANDARDS REQUIRE ROUNDING UP TO NEAREST TENTH OF AN ACRE FOOT = 0.1 AF FOR STOCKWATER

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Mr. Carriere showed a 1hp trash pump that used to pump water from Meadow Creek to a 1,600 gallon cistern. Applicant had already winterized system at time of exam because a hard freeze had already occurred. Unable to perform a measurement, theoretical pumping equation attached that estimates flow rate at 28.1 gpm or .06 cfs. Applicant would pump from creek to 1,600 gallon cistern and at same time fill a 1,000 gallon cistern located next to garden. Applicant would then either drip irrigate garden or attach pump to cistern and use a sprinkler around yard and flower beds. Applicant had deal to allow cattle to graze on his yard for 2 months during the summer. Water was put into trough from 1,600 gallon cistern for stock watering purposes. License will be issued for 0.06 cfs with 1.5 acres of irrigation and stockwater for 10 head of mixed stock for 60 days. Overlap condition was put on permit for rights 98-7288 and 98-4075, those are both in stream stockwater statutory claims. They will be left off license because they have not been adjudicated yet and pumping from the creek is different than instream watering.

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	04/15 to 10/31	0.04 CFS	
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
<u>Totals:</u>		0.060 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 Fink Date 2-24-17

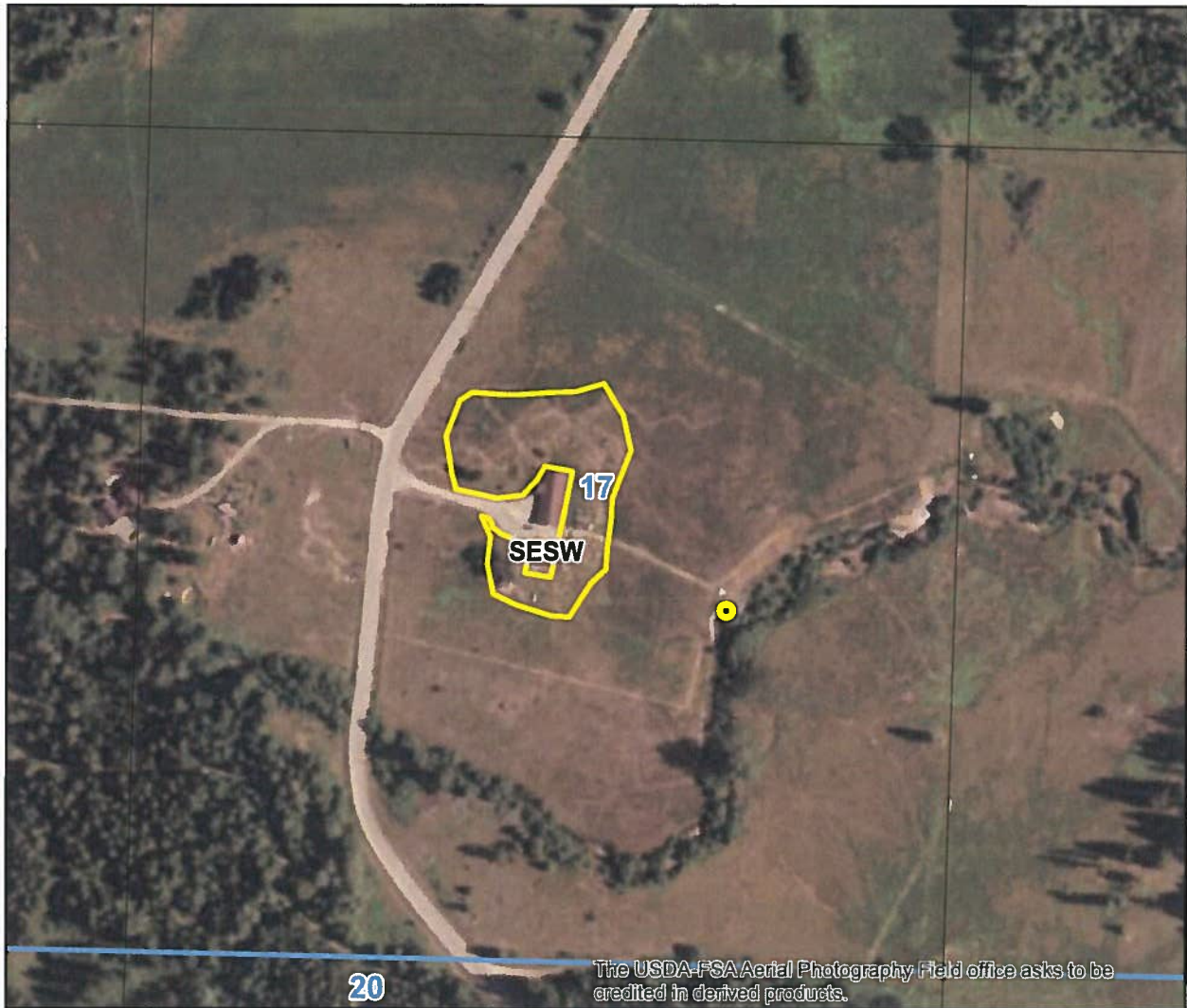
Reviewer Morgan Case Date 2/27/17

State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7899

IRRIGATION

02E

63N



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

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7899

STOCKWATER

02E



0 0.035 0.07 0.14 Miles

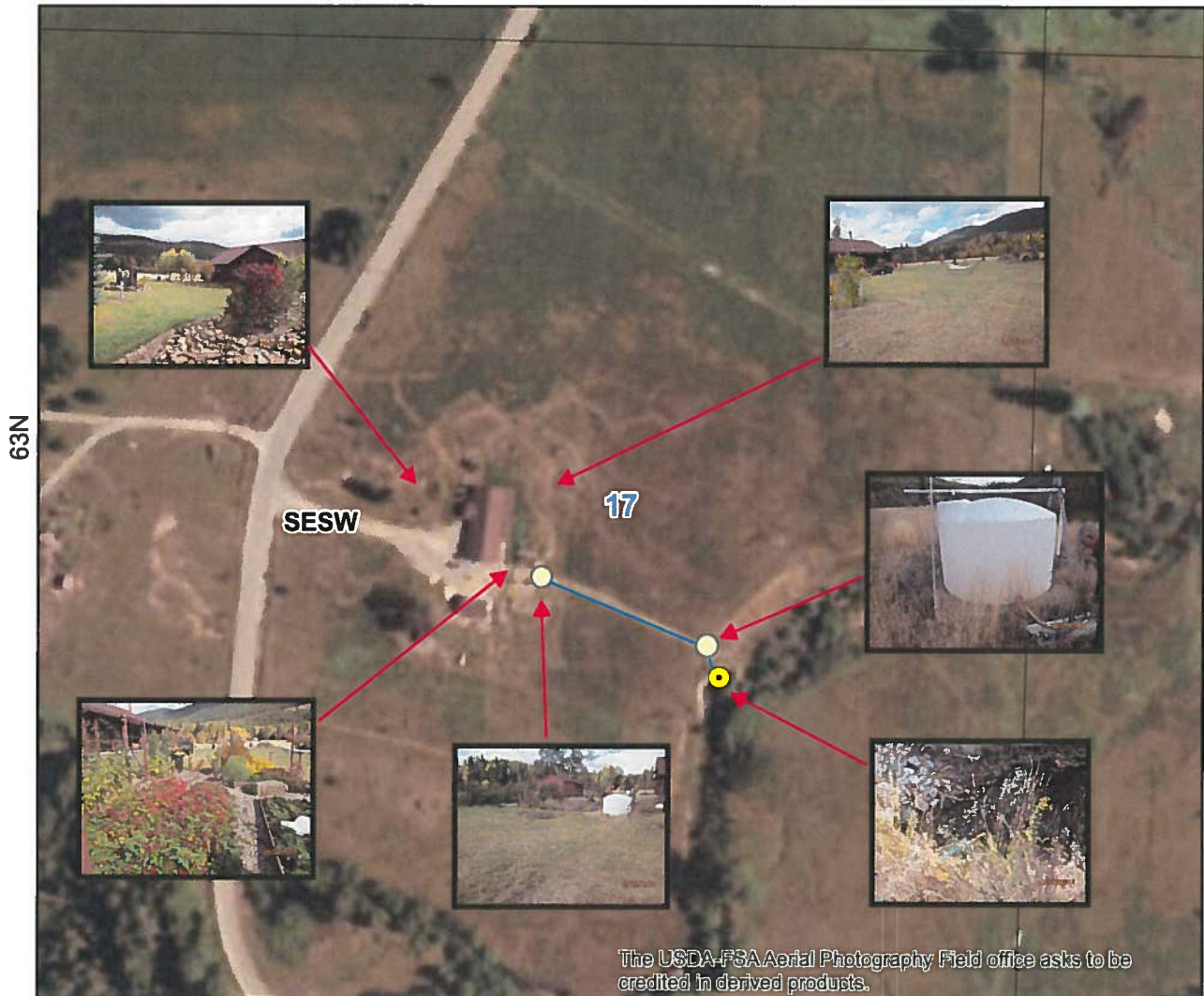
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7899

SYSTEM DIAGRAM

02E

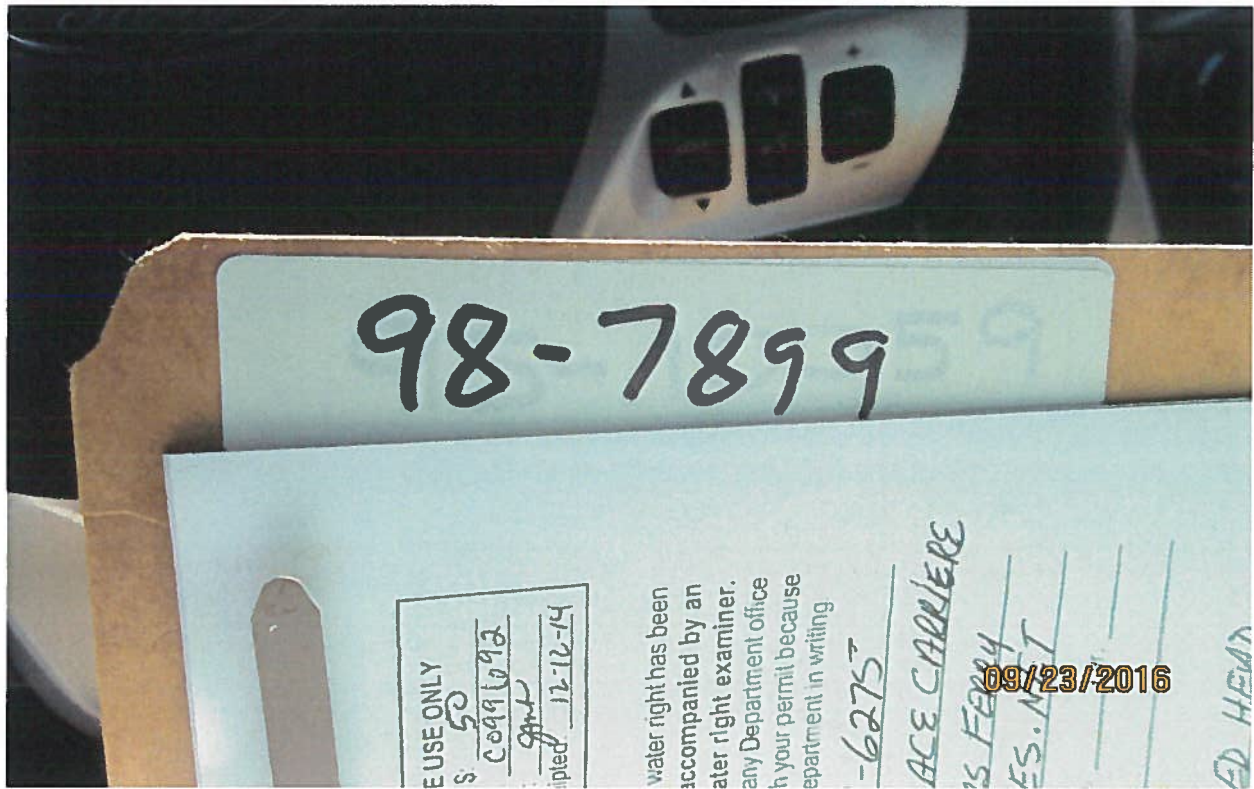


0 0.0275 0.055 0.11 Miles

- Point of Diversion
- ▭ Townships
- ▭ PLS Sections



PUMP EQUATIONS WATER RIGHT						
No.				98-7899		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/ H	1	112.51 7	0.8	20	40
Q = 0.063 cfs 28.1 gpm						



Point of diversion from Meadow Creek.



Small 1hp trash pump that was used to divert water from creek to cistern.



Cistern next to creek where water would be pumped and fed to stock or for irrigation.



Applicant would fill larger cistern and smaller cistern at same time then use that water before refilling them.



View of yard and garden. Applicant has deal with neighbor to have cattle on his property for 2 months out of the year. Cattle had already been moved back to farm location at time of exam.



Applicant had already winterized system because of hard freeze.





Grass and flower beds in back of house.



Side yard with trees and grass.



Front yard showing grass, trees and flower beds.



Flower beds and grass in front of home.