

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 92-10142
Exam Date: 6/17/2016

1. Current Owner:
GAY HAWLEY PO BOX 8233 MOSCOW ID 83843 (208) 883-7933
And/Or
RICH HAWLEY PO BOX 8233 MOSCOW ID 83843 (208) 883-7933
2. Accompanied by: Rich Hawley

3. **SOURCE:**
CARPENTER CREEK

TRIBUTARY:
ST MARIES 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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

CARPENTER CREEK NE¼NE¼ Sec. 7, Twp 43N, Rge 01E, B.M. BENEWAH County
CARPENTER CREEK NE¼NE¼ Sec. 7, Twp 43N, Rge 01E, B.M. BENEWAH County

Method of Determination: Maps and GPS.

POD 1: -116° 22.534, 47° 05.508

POD 2: -116° 22.495, 47° 05.470

2.

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
43N	01E	7	X																

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	
43N	01E	7	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	
43N	01E	7	1.4																1.4

Total Acres: 1.4

Method of Determination: Google Earth, Arcmap, Benewah County taxlot mapping tool.

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
PUMP	GE	2			
PUMP	UNKNOWN	2			

*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

POD 1 – 5 gallon filled in 15 seconds

5 gal / 15 sec x 60 sec = 20 gpm or 0.04 cfs

POD 2 – 5 gallon filled in 17 seconds

5 gal / 15 sec x 60 sec = 18 gpm or 0.04 cfs

E. FLOW CALCULATIONS

Measured Method: N/A

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ AC} \times 3.0 \text{ AF} = 4.2 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ CFS} \times 214 \text{ DAYS} \times 1.9835 = 17.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 4.2 \text{ AF}$$

2. Volume Calculations for Other Uses: Stockwater for 10 head of mixed stock

$$10 \text{ stock} \times 12 \text{ gpd} \times 365 \text{ days} = 43,800 \text{ gpy} / 325,850 = 0.1 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant, Rich Hawley showed two pumps on Carpenter Creek and a developed spring for domestic water. It was found during exam that the two sources of water were not interconnected and a split of the permit would be required at time of licensing. The spring source only served the home and was not connected with the creek sources and they were not connected with the home. The associated split resulted in the original permit, 92-10142 showing the two sources from Carpenter Creek and this new right, 92-11053 showing the spring source.

The two pumps in the creek were both 2hp pumps. Each pump was measured by 5 gallon bucket and one produced 20 gpm per minute and the other produced 18 gpm. The applicant had irrigation occurring in two different locations and said that he never ran both systems at the same time. The irrigation delivery system was varied with hoses and sprinklers and some irrigation pipe with 5/32 irrigation heads. During license review the irrigated area was measured out to be 1.4 acres. Mr. Hawley had various stockwater tanks around property. Animals were not present during exam because they were grazing on a different property. There was sign that stock were on the property. The irrigation component of the license will be limited to 0.04 cfs. The stockwater component will be licensed for 0.02 cfs with an annual volume of 0.1 acre-feet. Because there were two pumps, the fire protection will be issued for 0.08 cfs.

There was some concern about the location of one pump and the property line. Mr. Hawley was nice enough to send some photos showing the property line in relation to the pump. License will be issued for a diversion rate of 0.08 cfs with no overall annual volume because it is a surface water source. Condition R62 will be changed to R66 because the irrigation is less than 5 acres. There is no overlap concerns because the domestic use, 92-11053, had a condition limiting it to in home use.

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	
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
FIRE PROTECTION	01/01 to 12/31	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 Fink Date 2-7-2018
 Reviewer Douglas Jones P.E. Date 2/28/18

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MAY 05 2017

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RECEIVED

MAY 05 2017

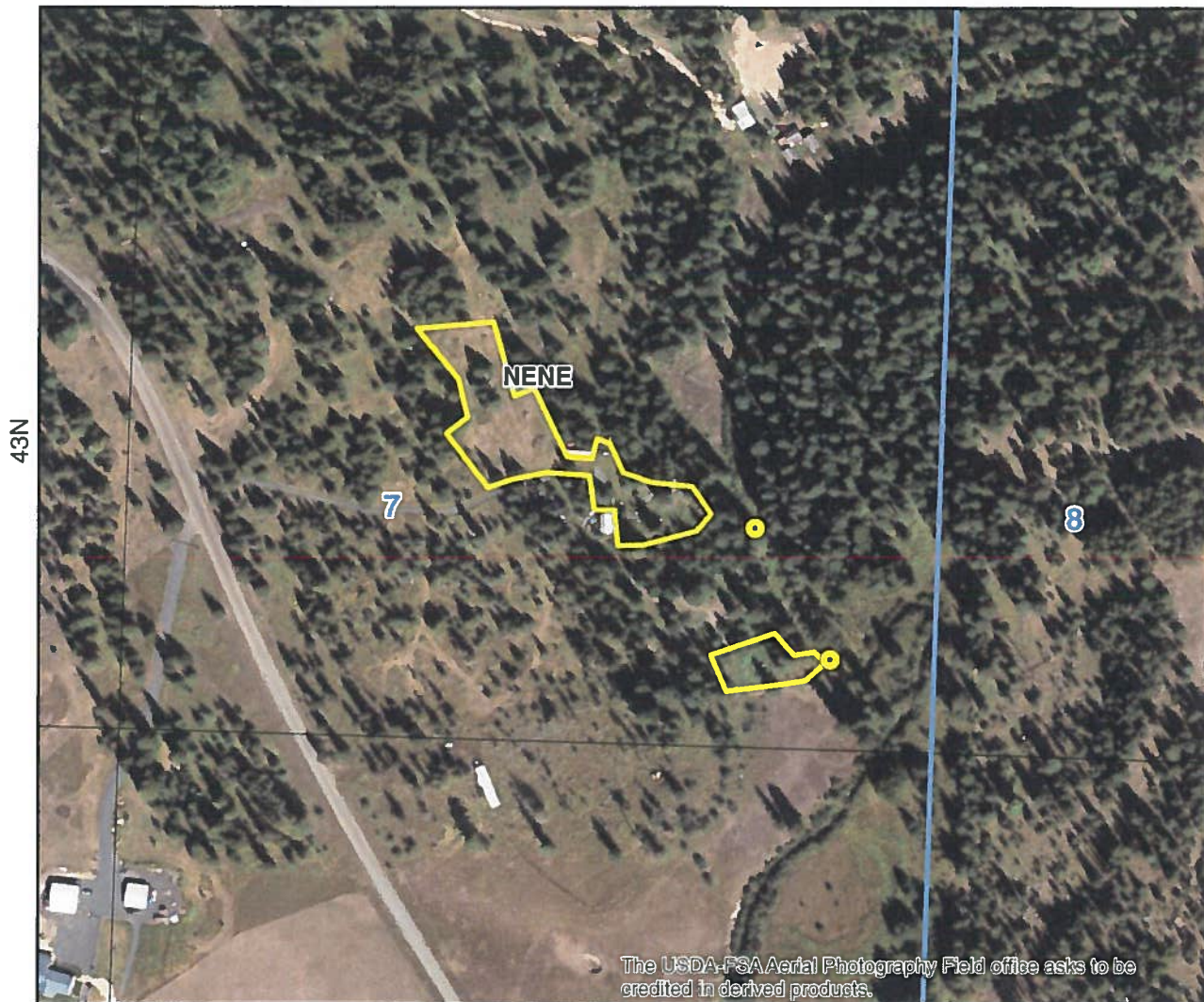
IDWR / NORTH



State of Idaho
Department of Water Resources
Attachment to Field Exam
92-10142

IRRIGATION

01E



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

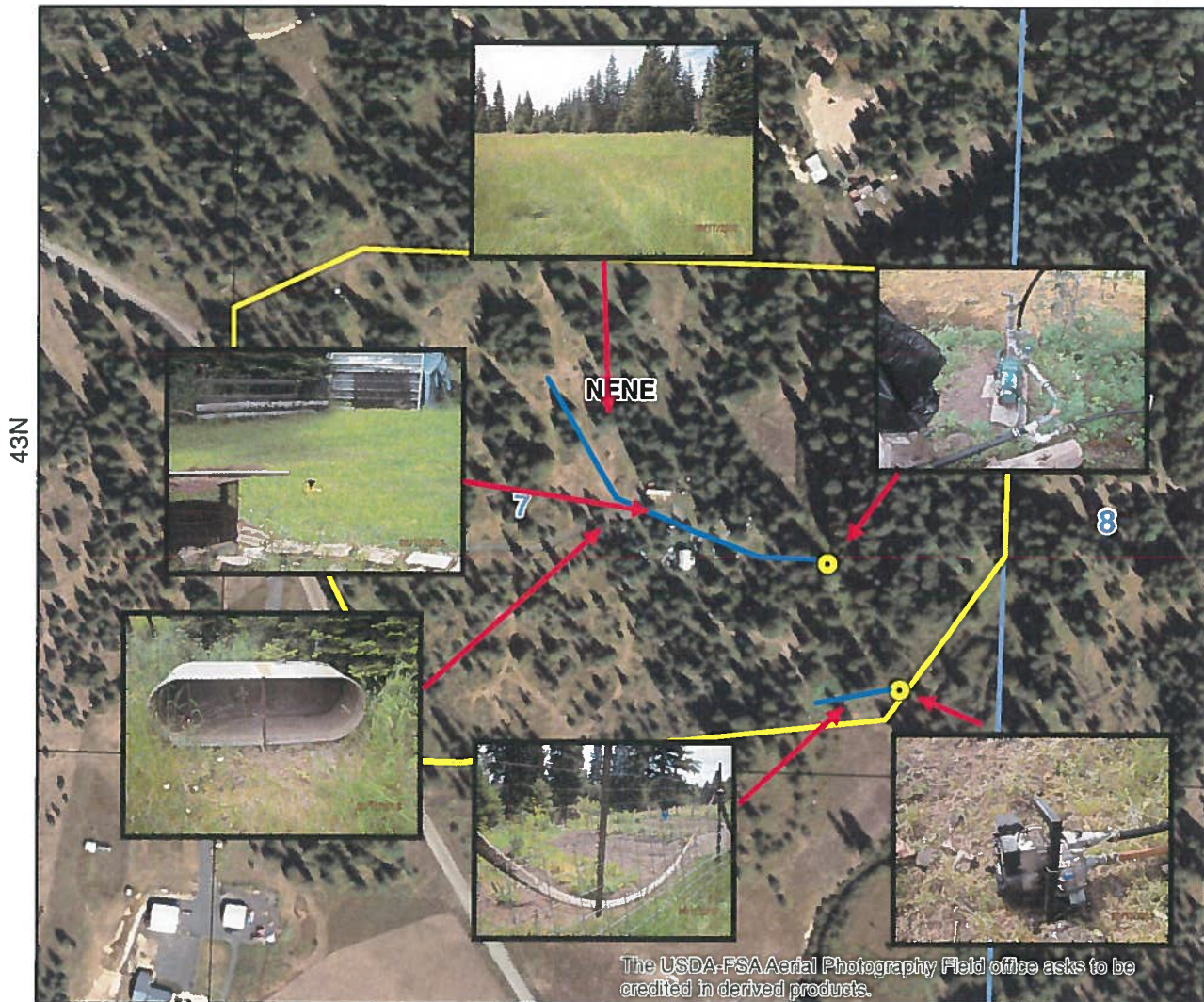
0 0.035 0.07 0.14 Miles



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FIRE PROTECTION and STOCKWATER / SYSTEM DIAGRAM

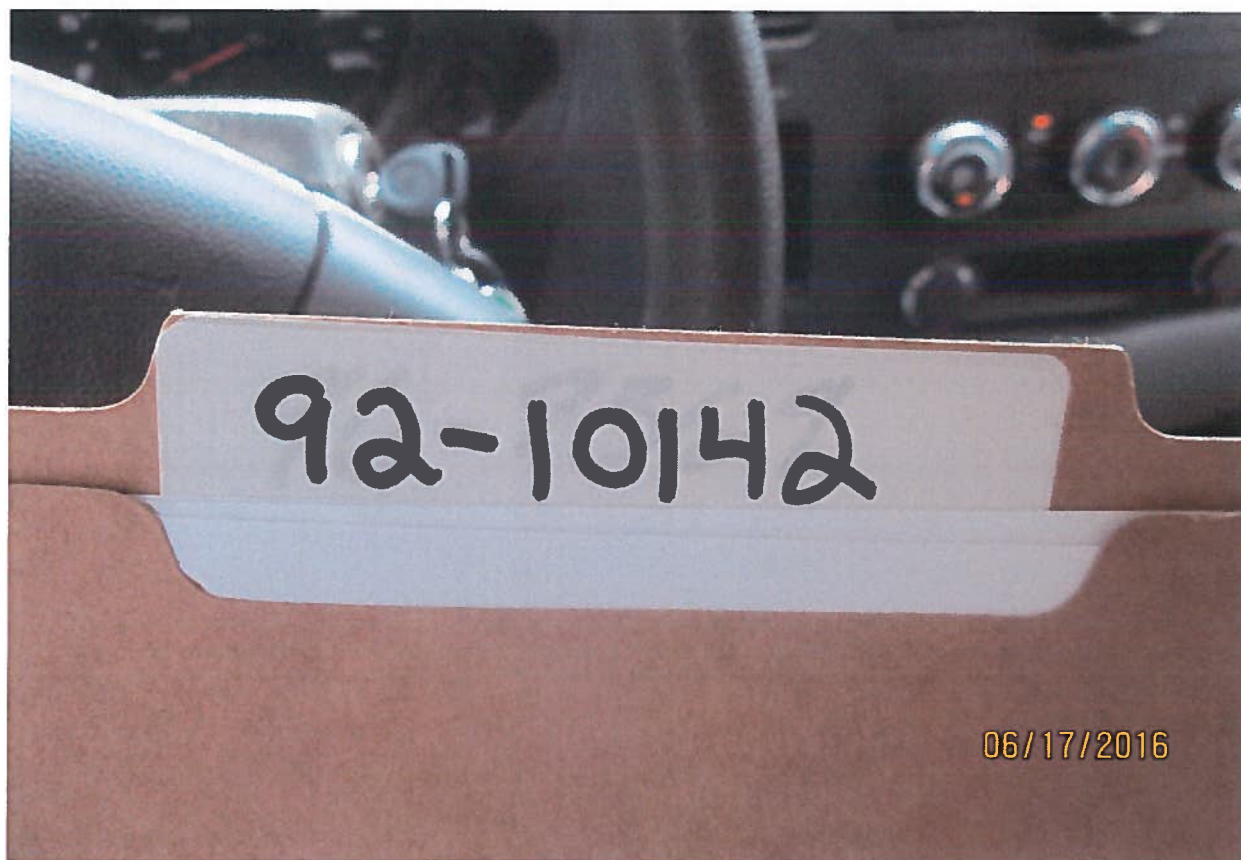
01E



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

0 0.0375 0.075 0.15 Miles





Pump 1. 2hp GE pump with diversion rate 20gpm.



Screened intake at pump 1.



Pump 2. 2hp pump with diversion rate of 18 gpm.



Screened intake at pump 2.



Garden area on south end of property.



Garden area and orchard.





Stockwater tanks. Stock was on another property at time of exam but were brought over later in the summer.





Irrigated areas.





Place of use.





Place of use.



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MAY - 5 2017

(N 89°41' W 2640 Rec. 1)
(N 89°41' W 2651.99 Rec. 2)
N 89°40'52" W 2651.60

2342.19
(2342.81 Rec. 2)

PARCEL C
Re: Inst.
No. _____

T43N
SEC.
S6
S7
19'
LS 1

Sec.
CP&F
No. 2

Professional Land
Surveyor 6766
Reg. State of Idaho
Chris Renaldo 4 June 2005

PRELIMINARY

HAWLEY
PN-0400
PARCEL B
Re: Inst.
No. _____

PN-1200

**BIG CARPENTER
CREEK ROAD**
(See Note 2)

PARCEL A
Re: Inst.
No. _____

Survey
Pin
See Photos

**SEE
DETAIL**

See
Note 4
PN-230

PN-4201

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MAY 05 2017

IDWR / NORTH

2656.52
(2656.88 Rec. 3)

LINE DATA

LINE	BEARING	DISTANCE	Rec.	BEARING	DISTANCE
L1	S 89°33'00" W	467.25	2	S 89°28'15" W	
L2	N 47°59'35" W	62.89	B&C	N 47°48'22" W	62.81
L3	N 47°59'35" W	54.04	B	N 47°48'22" W	54.86
L4	N 47°59'35" W	8.85	C	N 47°48'22" W	7.95
L5	S 56°24'07" W	11.82	B	S 56°15'40" W	
L6	N 84°25'00" E	469.39			
L7	N 34°00'00" E	348.04			
L8	N 0°05'53" W	42.00	1	N 0°05' W	
			2	N 0°09'52" W	
			B	N 0°06'40" W	
L9	N 25°26'26" W	86.15	2	N 25°40'03" W	86.15
L10	N 59°47'11" W	499.61	2	N 59°47'38" W	499.41
L11	N 64°45'00" E	380.00			

CURVE DATA

CURVE	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD	Rec.
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T43N R1E
1/4 COR.
S7 S8
1977
LS 1013

1/4 Sec. Cor.
CP&F Inst.
No. 234209