

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

A. GENERAL INFORMATIONPermit No: 95-12245

Exam Date: 11/17/2016

1. Does this qualify for an in-office field exam (IDAPA 035.02.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: Pasquale and Karen Mastantuono
 Owner of Record Correct? X Y N
 Address of Record Correct? Y N
 If No: Address

Tax lot data shows Pasquale Alexander Mastantuono and Karen Ann Mastantuono Revocable Trust as the owners of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C0

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

Ground Water

Method of Determination: Well Driller's Manual GPS Readings, 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
95-13876	Ground Water	Domestic	Recommendation

Comments: Water right 95-13876 is diverted from the same well for domestic use in the same tax parcel for the same owner. I did not include the yard area in this permit, because it was questionable if it had been irrigated, but could be covered by the domestic right if needed. Water right 95-7571 appears to also overlap the place of use, but a review of the 1980 overlap map attached to this report clearly shows that the lands irrigated by 95-7571 were east of the property involved in this permit. The field report map shows the same area being irrigated, but with past mapping, the place of use for 95-7571 as inadvertently was described incorrectly in the license. Water rights 95-8057, 95-7055, and 95-881 are for a municipal use north of the permit property, and 95-13396 is for a domestic use west of the property. Water rights 95-10066, 95-14535, 95-13315, 95-14433, and 95-14678 are all located east of the property for this permit.

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

Water Right No.	Source	Purpose of Use	Basis
95-13876	Ground Water	Domestic	Recommendation

Comments: Water right 95-13876 is diverted from the same well for domestic use in the same tax parcel for the same owner. I did not include the yard area in this permit, because it was questionable if it had been irrigated, but could be covered by the domestic right if needed. Water right 95-13876 is the only significant overlapping water right for this property.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well			SW	SW	23	51N	5W	B.M.	KOOTENAI
								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	
51N	5W	23											1.0	0.1					1.1
		Lot #																	
Total Acres =																			

Method of Determination: GIS and Tax Parcel Data The tax parcel straddles the 40 acre tract lineChange 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
Well	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:

There was no information in the file describing the pumping system for this permit, so a theoretical calculation was not possible. I used the standard irrigation requirements allowed for the irrigation of property less than 5 acres of 0.03 cfs per acre allowed in Processing Administrative Memorandum #17. I was not able to confirm the number of stock, so I used the standard for 4 head of cattle found in Processing Administrative Memorandum #3.

Acre Limits = 1.1 acres X 0.03 cfs per acre = 0.03 cfs

Stockwater = 0.02 cfs per Administrative Memorandum #3

Permit allowed = 0.10 cfs

I am recommending a diversion rate of 0.03 cfs for irrigation and 0.02 cfs for stockwater for a total diversion rate of 0.05 cfs per the administrative memorandums.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.1 \text{ acres} \times 3 = 3.3 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 246 \times 1.9835 = 14.6 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.3 \text{ af}$$

2. Volume Calculations for Other Uses:

Stockwater allowed per Processing Administrative Memorandum #3 for up to 10 head of Mixed Stock is 0.2 af, which is the amount that I am recommending for this permit.

G. PURPOSE OF USE

Irrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes ☐ 1 _____

Other: < >

Change in Purpose of Use? ☐ Y ☐ N

Method of Determination: Tax Parcel data and conversations with owner.

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

H. NARRATIVE/REMARKS/COMMENTS

This permit is qualifies for an in-house exam. The permit describes all of the land to be irrigated in the SW1/4 of the SW1/4 of Section 23, but there is a small portion that was found to be irrigated in the SE 1/4 of the SW1/4 of Section 23. I found 1.0 acre irrigated in the SW1/4 of the SW1/4 and 0.1 acre irrigated in the SE1/4 of the SW1/4 for a total of 1.1 acres. In order to confirm my findings, I checked the Kootenai County records and found a similar finding. I then downloaded the subdivision plat mat (attached) and found that there is a 0.76 acre strip of land in the SE1/4 of the SW 1/4 of Section 23. There is no doubt that there is approximately 0.1 acres being irrigated in the SE 1/4 of the SW 1/4 of Section 23. An amendment is required if we are to include the 0.1 acres irrigated in the SE1/4 of the SW1/4 of Section 23 on the water right license. I did not include any irrigation around the home, since it doesn't appear to have been irrigated and there is an overlapping domestic adjudication claim that could cover the yard irrigation if needed.

Conditions 2 (R62), 5 (174), and 6 (01R) will carried forward to licensing. The remainder of the conditions will be removed at licensing. Condition F06 will be added to show water right 95-13876 is diverted out of the same well. I will also add conditions X59 and X60 to better describe the point of diversion and place of use as being Lot 6 Statchwell Estates Subdivision.

Have conditions of permit approval been met? ☒ Yes ☐ No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/15 to 11/15	0.03 CFS	3.3 AF
Stockwater	01/01 to 12/31	0.02 CFS	0.2 AF

Totals: 0.05 CFS 3.5 AF

2. Recommended Amendments

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

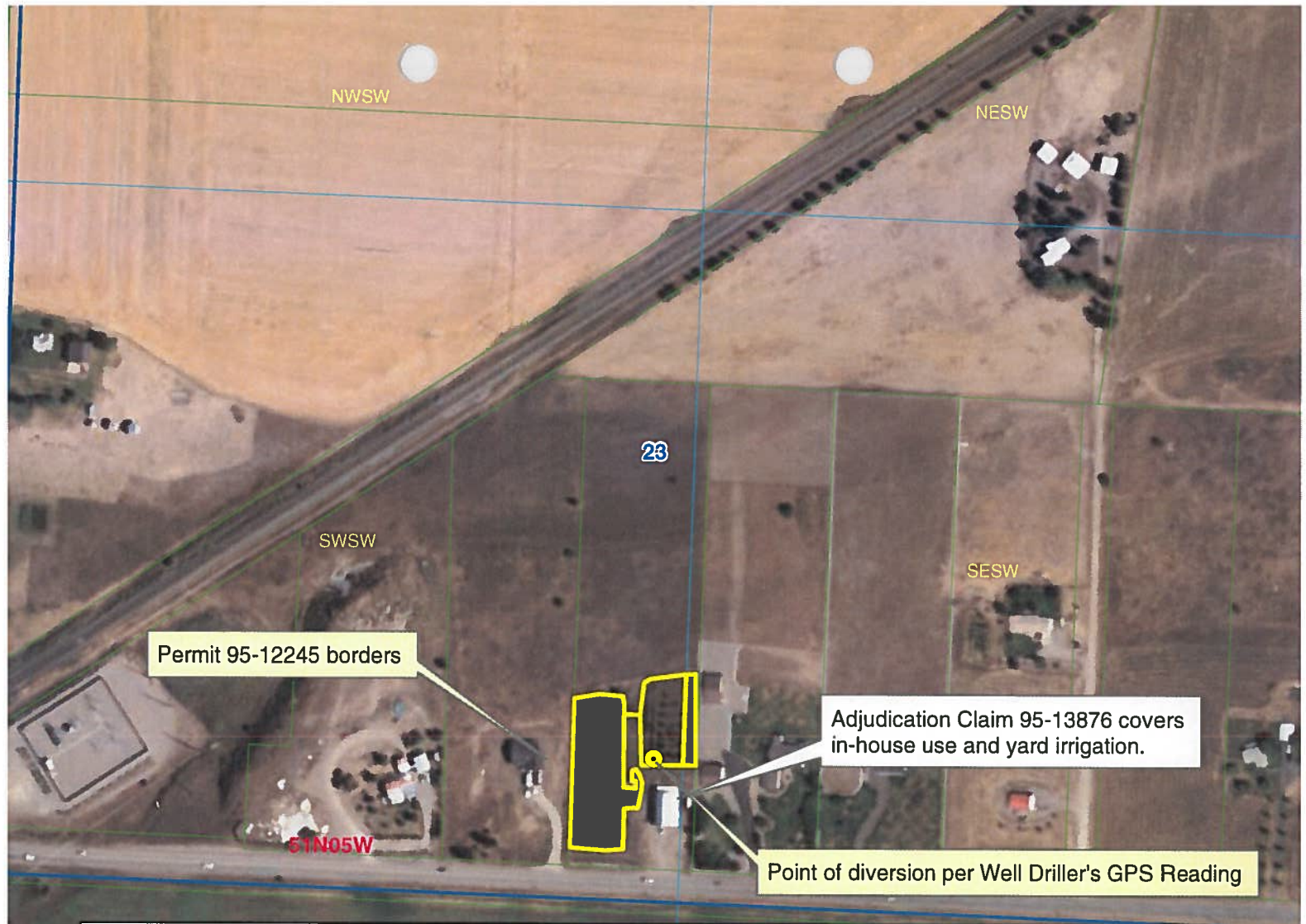
X Change P.U. as reflected above X Add P.U. as reflected above ___ None

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – STAFF HYDROLOGIST

Field Examiner's Name Daniel A. Nelson Date 11-17-16

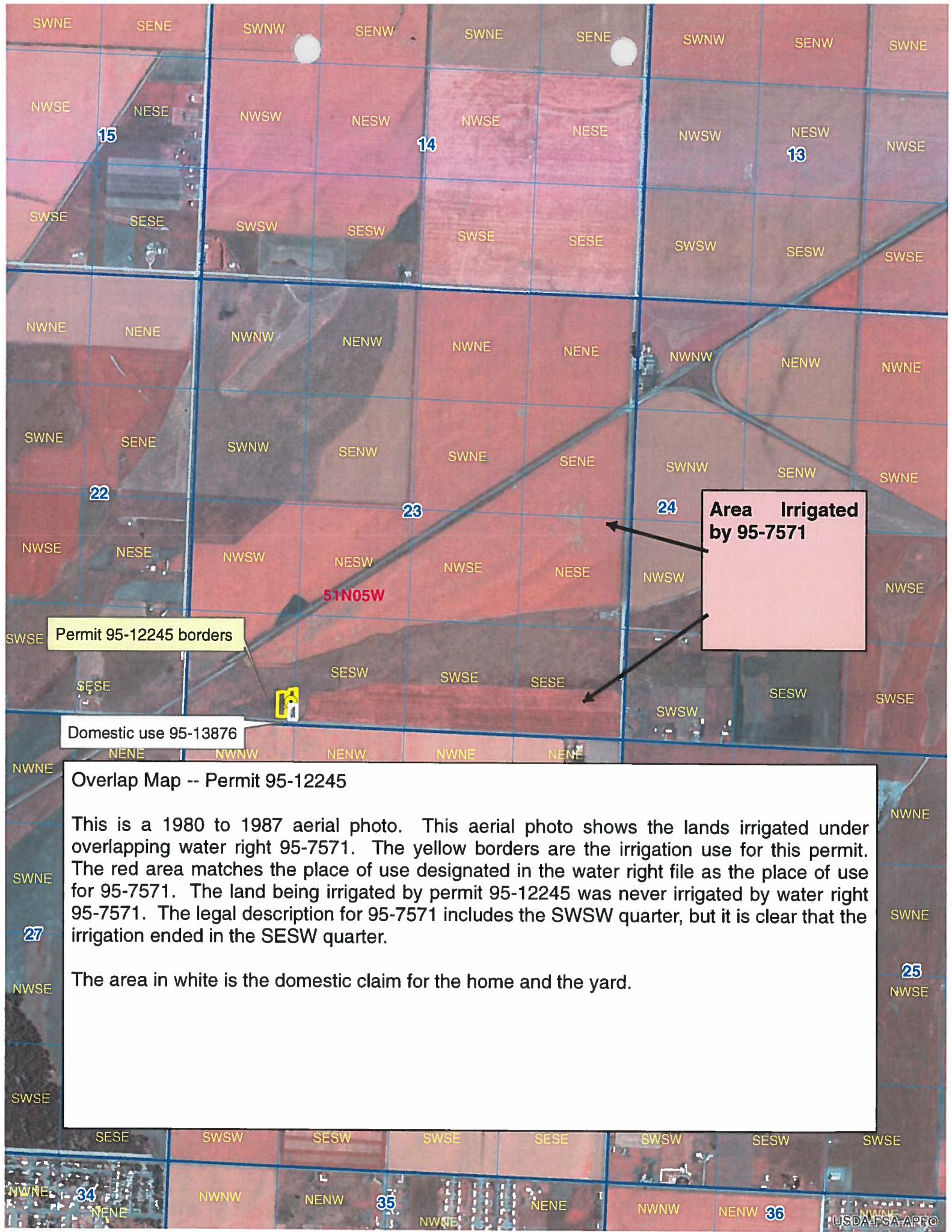
Reviewer _____ Date _____



Field Exam Map -- Permit 95-12245

This is the 2015 aerial image of the place of use. The yellow border shows the land found irrigated. The yellow dot shows the point of diversion based on the GPS downloaded point supplied by the well driller and confirmed during the 8/18/2008 well inspection. The permit describes all of the land to be irrigated in the SW1/4 of the SW1/4 of Section 23, but there is a small portion that was found to be irrigated in the SE 1/4 of the SW1/4 of Section 23. I found 1.0 acre irrigated in the SW1/4 of the SW1/4 and 0.1 acre irrigated in the SE1/4 of the SW1/4 for a total of 1.1 acres. An amendment is required if we are to include the 0.1 acres irrigated in the SE1/4 of the SW1/4 of Section 23. I did not include any irrigation around the home, since it doesn't appear to have been irrigated and there is an overlapping domestic adjudication claim that could cover the yard irrigation if needed.

Permit 95-12245



**Area Irrigated
by 95-7571**

Permit 95-12245 borders

Domestic use 95-13876

Overlap Map -- Permit 95-12245

This is a 1980 to 1987 aerial photo. This aerial photo shows the lands irrigated under overlapping water right 95-7571. The yellow borders are the irrigation use for this permit. The red area matches the place of use designated in the water right file as the place of use for 95-7571. The land being irrigated by permit 95-12245 was never irrigated by water right 95-7571. The legal description for 95-7571 includes the SWSW quarter, but it is clear that the irrigation ended in the SESW quarter.

The area in white is the domestic claim for the home and the yard.