

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-7403

Exam Date: 6/25/1993

1. Current Owner: ALVIN YANTIS
2235 MIDDLE FORK RD
COUNCIL ID 83612
(208)253-4411
2. Accompanied by: ALVIN YANTIS
Phone No: SAME AS ABOVE
Address: SAME AS ABOVE
Relationship to Permit Holder: OWNER

RECEIVED
AUG - 5 2005
DEPARTMENT OF WATER RESOURCES

3. SOURCE TRIBUTARY
MIDDLE FORK WEISER RIVER WEISER RIVER

B. OVERLAP REVIEW

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

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

MIDDLE FORK WEISER RIVER NW1/4NE1/4
ADAMS County

Sec. 14, Twp 15N, Rge 01W, B.M.

Method of Determination:

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
15N	01W	10	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	43.9
				17.0			24.0	2.9											

Total Acres: 43.9

Method of Determination:

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- YES Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- YES Aerial Photo Attached (required for irrigation of 10+ acres).
- YES 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
POINT OF DIVERSION	N/A	N/A	N/A	N/A	TWO FOOT DITCH

*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
OWNER'S WEIR	CIPOLETTI	N/A	N/A	N/A	2 FT WEIR	N/A

2. Measurements: Dave Grey, a summer field agent, performed the measurements in 1993. I am assuming from his notes that the weir was properly installed. The weir was measured with 6 7/8 inches of water spilling over the weir. Using the Bureau of Reclamation Water Manual, this would have 0.57 ft of head. At 0.57 ft of head, there would be 2.90 cfs of water flowing over the weir.

E. FLOW CALCULATIONS

YES Additional Computation Sheets Attached

Measured Method:

A measurement of 6 7/8 inches was measured during the field exam. According to the Bureau of Reclamation Water Measurement Manual, the flow of water over the weir would have been 2.90 cfs.

Ditch Capacity → 2.90 cfs
 Rate per Acre Limitation → 0.89 cfs (0.02 cfs X 43.9 acres = 0.89 cfs)
 Permit limit → 0.90 cfs

I recommend that this permit be licensed for 0.89 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 43.9 \times 4.0 = 175.6 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.89 \times 231 \times 1.9835 = 407.8 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 175.6 \text{ afa}$$

2. Volume Calculations for Other Uses:

N/A

G. NARRATIVE/REMARKS/COMMENTS

Dave Grey, a summer temp field agent, completed this field exam, but didn't finalize the overlapping water rights. The policy at that time was to hold all field exams that had competing adjudication claims. The following is the narrative written by Mr. Grey:

This system diverts water from the Middle Fork of the Weiser River to irrigate approximately 44 acres. The diversion is in section 14 in the NWNE ¼ ¼. From this point the water follows a ditch to the Section 10 where it flood irrigates 33 acres. The ditch continues to a holding pond, from the pond the water is diverted to a ditch to irrigate another 11 acres. The system is totally gravity fed. Measurements were available from an installed weir in the ditch.

Water right 67-4069 "a claim to a water right" is an overlap of this system. Because proof was filed before 11/19/1987, it was required to have a claim filed. This is that claim. Water Right # 67-4069 and 67-7403 are for the same point of diversion and place of use.

DAN'S NOTES:

Mr. Grey's field report was very well done except for an in-depth review of the overlapping water rights. This field exam was held pending the completion of the Snake River Basin Adjudication (SRBA), because there is some direct overlapping water rights. I have discussed the overlapping water rights later on in this narrative.

I used the most current water measurement manual put out by the Bureau of Reclamation, which showed a slightly different ditch capacity than Mr. Grey's findings. However, the difference in capacity was not significant enough to impact the recommendation for this permit.

The acres are also a little different than the original field exam. This is attributed to better mapping capabilities and current rounding policies. Once again this difference was not significant enough to become a problem.

OVERLAP:

I have spoken briefly with Craig Saxton, who is reviewing these rights for the SRBA. It appears that 67-89B and 67-4069 directly overlaps both the place of use and point of diversion. Water right 67-89B is an old decreed right that could allow 5/8 of an inch for 33.6 acres within the 43.9-acre place of use described in this field report, or 0.42 cfs and 134.4 afa. Water right 67-4069 is a statutory claim that would allow the entire 43.9 acres to be covered up to the full inch per acre or the amounts recommended in this license.

The existing water rights are adequate to supply the maximum allowable water needed for the property, but they are adjudication claims and are subject to review. Like many other water users, the owner filed this permit as insurance in case one or both of the adjudication claims were not decreed. The general practice in the past was to wait until the partial decrees were issued on overlapping water rights before licensing these types of rights, but current administration have asked that we license these permits.

In order to license a permit with overlapping adjudication claims that provide full coverage, the permit will need to be licensed with conditions that will allow the SRBA staff to reduce or revoke the license if the existing rights are decreed. In the case of this permit, the two overlapping adjudication claims provides two separate scenarios. The adjudication staff will need to reduce this license if 67-89B is the only right decreed, but they will need to revoke the license if 67-4069 is decreed or if a combination of 67-4069 and 67-089B are decreed. The end result must be that when all the rights are combined they are limited to 0.89 cfs, 175.6 afa, and 43.9 acres. In order to do this, I suggest this permit be licensed something similar to the following conditions.

- 1.) This right when combined with water rights 67-89B is limited to 0.89 cfs and 175.6 afa to be used on 43.9 acre of ground.
- 2.) This right when combined with all other rights is limited to 0.02 cfs per acre at the field headgate.
- 3.) If water right 67-89B is decreed in the Snake River Basin Adjudication then the diversion rate and annual volume for this license should be reduced to 0.47 cfs and 41.2 afa.
- 4.) If water right 67-4069 is decreed in the Snake River Basin Adjudication then this license should be removed or revoked.
- 5.) Multiple water rights are diverted through the same point of diversion.

Have conditions of permit approval been met? ☒ 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 11/01	0.890 CFS	175.60 AF
	<u>Totals:</u>	0.890 CFS	175.60 AF

2. Recommended Amendments

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

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

DANIEL A. NELSON – SENIOR AGENT FOR DAVE GREY

Field Examiner's Name



Date

7.20.05

Reviewer

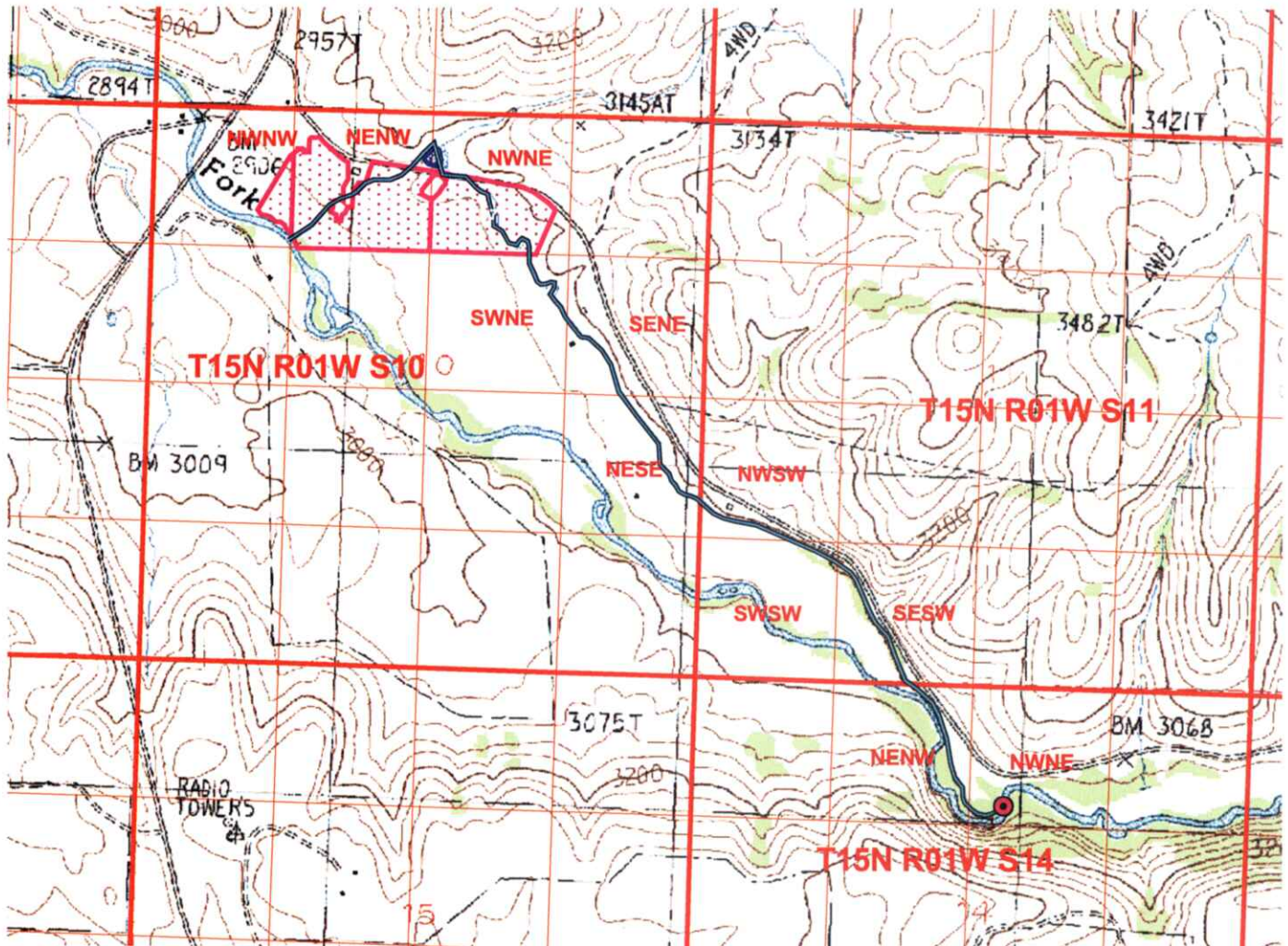
Date

SEAL

FIELD EXAM 67-7403

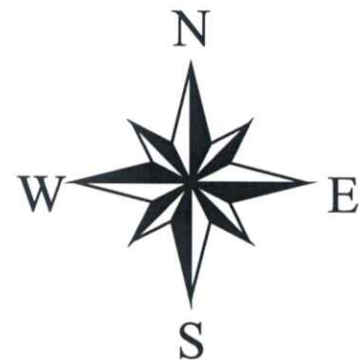
QUADRANGLE MAP

BY DAN NELSON FOR DAVE GREY



0.6 0 0.6 1.2 Miles

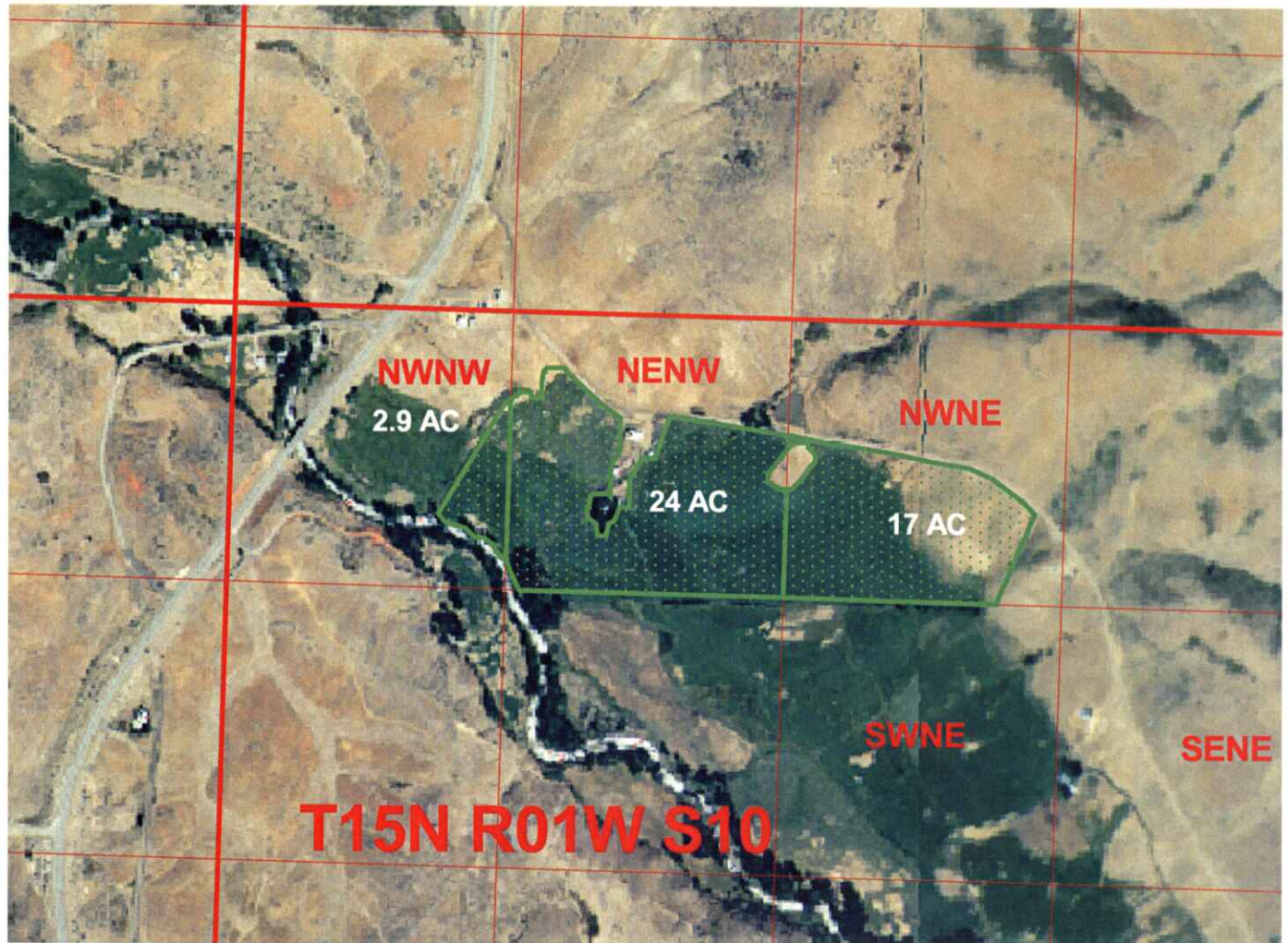
- POINT OF DIVERSION
- ∩ DITCH
- ▨ HOLDING POND
- ▨ PLACE OF USE
- ▭ SECTION LINES
- ▭ 1/4 1/4 LINES



FIELD EXAM 67-7403

PLACE OF USE

BY DAN NELSON FOR DAVE GREY



0.3 0 0.3 0.6 Miles

 PLACE OF USE

 SECTION LINES

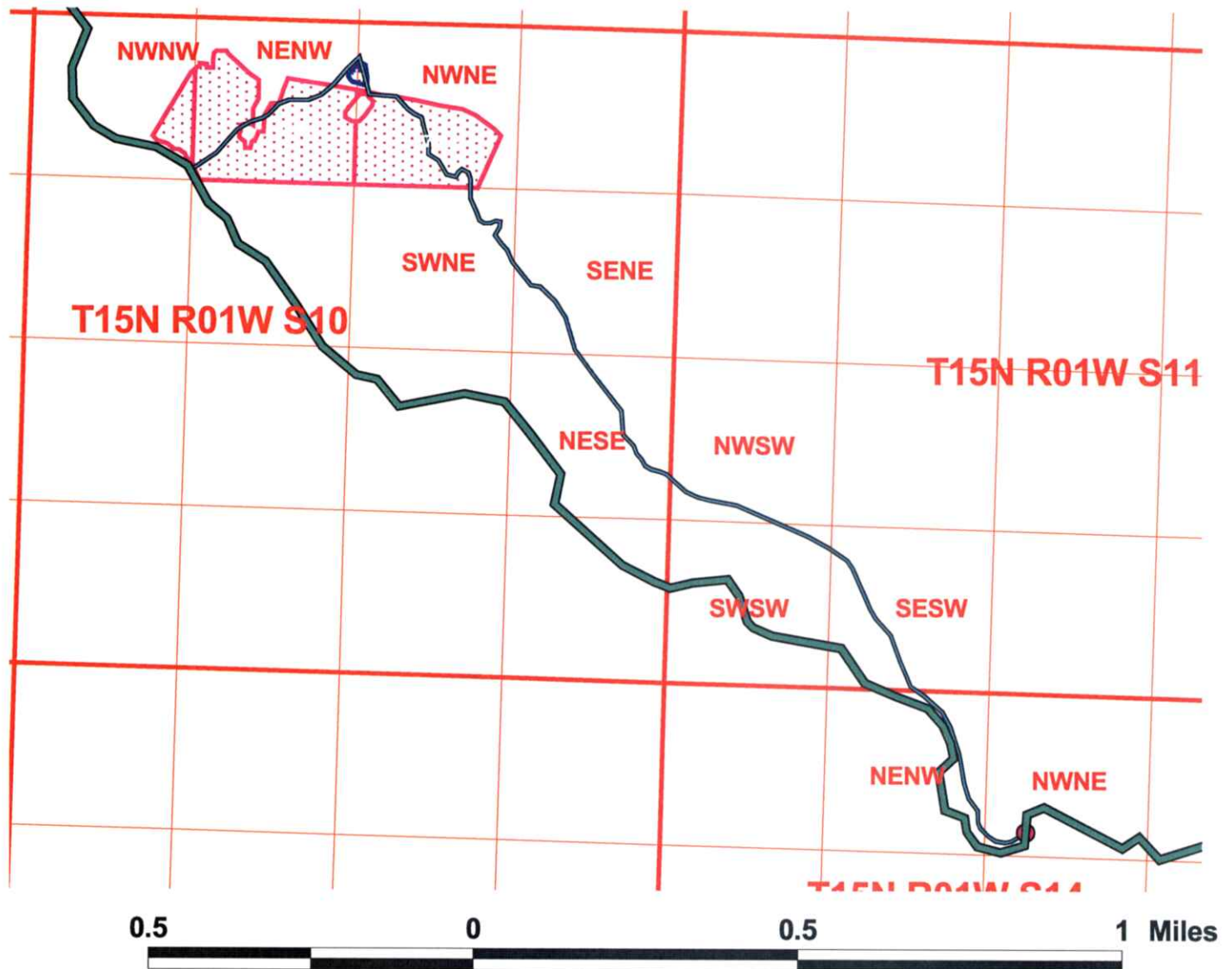
 1/4 1/4 LINES



FILLD EXAM 67-7403

SYSTEM DIAGRAM

BY DAN NELSON FOR DAVE GREY



 WEISER RIVER, MIDDLE FORK

 POINT OF DIVERSION

 DITCH

 HOLDING POND

 PLACE OF USE

 SECTION LINES

 1/4 1/4 LINES

Gcdb_sections.shp

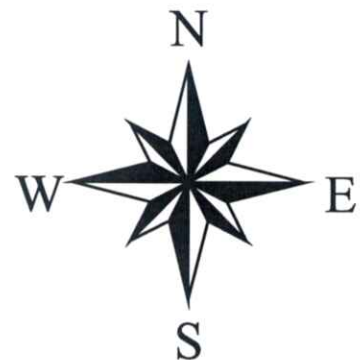


Table A7-5. Discharge of standard Cipolletti weirs in ft³/sec.

Shaded entries determined experimentally. Others computed from the formula $Q = 3.367Lh_1^{1.5}$

Head <i>H</i> , ft	Weir Length, <i>L</i> , ft						
	0.5	1.0	1.5	2.0	3.0	4.0	5.0
---	---	---	---	---	---	---	---
.18	.129	---	---	---	---	---	---
.19	.139	---	---	---	---	---	---
.20	.151	.301	.452	.602	.903	1.20	1.51
.21	.162	.324	.486	.648	.972	1.30	1.62
.22	.174	.347	.521	.695	1.04	1.39	1.74
.23	.186	.371	.557	.743	1.11	1.49	1.86
.24	.200	.396	.594	.792	1.19	1.58	1.98
.25	.214	.421	.631	.842	1.26	1.68	2.10
.26	---	.446	.670	.893	1.34	1.79	2.23
.27	---	.472	.709	.945	1.42	1.89	2.36
.28	---	.499	.748	.998	1.50	2.00	2.49
.29	---	.526	.789	1.05	1.58	2.10	2.63
.30	---	.553	.830	1.11	1.66	2.21	2.77
.31	---	.581	.872	1.16	1.74	2.32	2.91
.32	---	.609	.914	1.22	1.83	2.44	3.05
.33	---	.638	.957	1.28	1.91	2.55	3.19
.34	---	.668	1.00	1.34	2.00	2.67	3.34
.35	---	.697	1.05	1.39	2.09	2.79	3.49
.36	---	.727	1.09	1.45	2.18	2.91	3.64
.37	---	.758	1.14	1.52	2.27	3.03	3.79
.38	---	.789	1.18	1.58	2.37	3.15	3.94
.39	---	.820	1.23	1.64	2.46	3.28	4.10
.40	---	.852	1.28	1.70	2.56	3.41	4.26
.41	---	.884	1.33	1.77	2.65	3.54	4.42
.42	---	.916	1.37	1.83	2.75	3.67	4.58
.43	---	.949	1.42	1.90	2.85	3.80	4.75
.44	---	.983	1.47	1.97	2.95	3.93	4.91
.45	---	1.02	1.52	2.03	3.05	4.07	5.08
.46	---	1.05	1.58	2.10	3.15	4.20	5.25
.47	---	1.08	1.63	2.17	3.25	4.34	5.42
.48	---	1.12	1.68	2.24	3.36	4.48	5.60
.49	---	1.16	1.73	2.31	3.46	4.62	5.77
.50	---	1.20	1.79	2.38	3.57	4.76	5.95
.51	---	---	---	2.45	3.68	4.91	6.13
.52	---	---	---	2.53	3.79	5.05	6.31
.53	---	---	---	2.60	3.90	5.20	6.50
.54	---	---	---	2.67	4.01	5.34	6.68
.55	---	---	---	2.75	4.12	5.49	6.87
.56	---	---	---	2.82	4.23	5.64	7.05
.57	---	---	---	2.90	4.35	5.80	7.24
.58	---	---	---	2.97	4.46	5.95	7.44
.59	---	---	---	3.05	4.58	6.10	7.63
.60	---	---	---	3.13	4.69	6.26	7.82

(6 7/8) / 12 = 0.57 ft Head

0.57 ft Head = 2.90 cfs

This table is from the Bureau of Reclamation Water Measurement Manual Third Edition

RIGHTS DIVERTED THROUGH THE SAME POINT OF DIVERSION IN T15N 51W S14 NWNE										
Basin	Sequence	Suffix	Basis	Priority Date	Rate(cfs)	Volume(af)	Source	Water Use(s)	Source Table	Source Table
67	80	D	Decreed	9/11/1909	4		WEISER RIVER MIDDLE FORK	IRRIGATION, STOCKWATER	CAROLA HOLDINGS (Current)	wrAdjudicationClaim
67	81	AC	Decreed	5/27/1910	0.04	2610	LOST CREEK	IRRIGATION, STOCKWATER	CAROLA HOLDINGS (Current)	wrAdjudicationClaim
67	87		Decreed	1894-05-01	0.6		WEISER RIVER MIDDLE FORK	IRRIGATION, STOCKWATER	CAROLA HOLDINGS (Current)	wrAdjudicationClaim
67	88		Decreed	5/1/1900	0.26		WEISER RIVER MIDDLE FORK	IRRIGATION, STOCKWATER	CAROLA HOLDINGS (Current)	wrAdjudicationClaim
67	89	A	Decreed	5/1/1900	0.42		WEISER RIVER MIDDLE FORK	IRRIGATION, STOCKWATER	CAROLA HOLDINGS (Current)	wrAdjudicationClaim
67	89	B	Decreed	5/1/1900	0.42		WEISER RIVER MIDDLE FORK	IRRIGATION, STOCKWATER	YANTIS, ALVIN (Current)	wrAdjudicationClaim
67	93		Decreed	5/1/1911	0.15		WEISER RIVER MIDDLE FORK	IRRIGATION, STOCKWATER	CAROLA HOLDINGS (Current)	wrAdjudicationClaim
67	4069		Statutory Claim	5/1/1900	1.8		WEISER RIVER MIDDLE FORK	IRRIGATION	YANTIS, ALVIN (Current)	wrWaterRight
67	4071		Statutory Claim	5/1/1905	1		WEISER RIVER MIDDLE FORK	IRRIGATION	HUTCHISON, DELPHA J (Current)	wrAdjudicationClaim
67	4175		Statutory Claim	5/1/1903	2		WEISER RIVER MIDDLE FORK	IRRIGATION	CAROLA HOLDINGS (Current)	wrAdjudicationClaim
67	4176		Statutory Claim	1894-05-01	2		WEISER RIVER MIDDLE FORK	IRRIGATION	WILSON, ALDEN L (Current)	wrWaterRight
67	7403		License	6/8/1978	0.89	175.6	WEISER RIVER MIDDLE FORK	IRRIGATION	YANTIS, ALVIN (Current)	wrWaterRight



Ditch continues. Flood
Irrigated A couple ponds
" THEN EXCESS HEADS
TO A STORAGE POND.
WATER POND IS THEN
GRAVITY IRRIGATED TO
SMALL FIELD. THEN BACK
TO THE RIVER.

PHOTO THREE-



PHOTO FOUR-



VIEW OF DIVERSION. NOTICE
THE HEADGATE (ABOVE) AND
FURTHER DOWN THE DITCH
THE WEIR. USED FOR THE
MEASUREMENT

PHOTO ONE-



PHOTO TWO-

FIELD NOTES

PERMIT NUMBER 67-7403

PLEASE NOTE: These documents are for backup purposes only and are not apart of actual Beneficial Use Field Report.

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

Scale: 1" = _____

Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

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

*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
1 Cipriotti Weir	C	—	—	—	2'	—

2. Measurements: Weir = 6 7/8" 2' crest length

TABLE 2 - WATER HANDBOOK

E. NARRATIVE/REMARKS/COMMENTS

This system diverts water from the middle fork of the Weber River to irrigate 44 acres. The diversion is in section 14 in alluvial $\frac{1}{4}$ from this point the water follows a ditch to section 10 where it "pond" irrigates 33 acres. The ditch continues to a holding pond. From the pond the water is diverted to a ditch to irrigate another 11 acres. The system is totally gravity fed. Measurements were available from an installed weir in a ditch.

* WR # 67-4069 "A claim to a water right" is an overlap (required) of this system. Because pond was filed before 11-19-87, it was required to have a claim filed. This is that claim. WR # 67-4069 ; WR # 67-7463 ARE the same Pld: Pld exactly.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

2' Cipolletti Weir / 62" crest

TABLE 2 - water HANDBOOK

= 2.97 cfs

NEED = $43.7 \times .02 = .9 \text{ AFS}$

Allow .9 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 44 \times 4.5 = 198 \text{ AFA}$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = .9 \times 214 \times 1.9835 = 382 \text{ AFA}$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 198 \text{ AFA}$

2. Volume Calculations for Other Uses:

- N/A -

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4-1	11-1	.9 cfs	198 AFA
Totals:			.9 cfs	198 AFA

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ Other Adj. Claim needs to be filed

I. AUTHENTICATIONField Examiner's Name Dave Frey Date 7-13-93

Reviewer _____ Date _____

SEAL



Ditch continues. Flood
Irrigated a couple ponds
if then excess heads
to a storage pond.
Water pond is then
gravity irrigated to
small field. then back
to the river.

PHOTO THREE-



PHOTO FOUR-



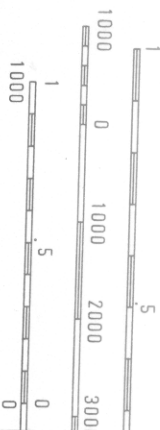
VIEW OF DIVERSION. NOTICE
THE HEADGATE (ABOVE) AND
FURTHER DOWN THE DITCH
THE WEIR. USED FOR THE
MEASUREMENT

PHOTO ONE-



PHOTO TWO-

PROVISIONAL MAP
 Reduced from original



CONTOUR INTERVAL 40 FEET

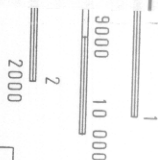
PERMIT 67-07403 INIT

T. R. S. Q/Q

P/D 5th 1st Avenue.

SCALE _____

PHOTO ID. _____



QUADRANGLE LOCATION



INTERIOR-GEOLOGICAL; 5

ROAD

Improved Road	
Unimproved Road . .	
Trail	

Interstate Route



F#49
T-122
A. YANTIS

3 2
10 11

1 10.9
2 26.8
3 6.0
4 3.3
5 3.1
6 3.9
7 3.9
8 9.4
9 13.7
10 10.4
11 30.2
12 28.3

F#49
T-122
A. YANTIS

10 11
15 14

SPRING

SPRING

SYSTEM DESCRIPTION
ATTACHMENT TO FIELD EXAM FORM

