

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
AUG 31 2001
DEPARTMENT OF WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 63-9218

1. Owner: STATE OF IDAHO, DEPT. OF FISH AND GAME Phone No. (208) 722-588

Current Address: RT 2 BOX 75, PARMA ID 83660

2. Accompanied by: CLAIR KOFOED, AREA MANAGER EXAM DATE : 5/13/1987 & 10/6/2000

Address: SAME AS ABOVE Phone No. SAME AS ABOVE

Relationship to Permit Holder: AREA MANAGER

3. Source: SAND HOLLOW DRAIN tributary to SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-4717, 63-4639, 63-4640, 63-4638, 63-11812, 63-11813

2. Other water rights with the same point of diversion: 63-4717, 63-4639, 63-4640, 63-4638, 63-11812, 63-11813

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			SW	SW	31	6N	5W	CANYON	VISUAL INSPECTION AND USE OF 2000 AERIAL PHOTO AND USGS QUADRANGLE MAP.
			SE	SE	36	6N	6W	CANYON	VISUAL INSPECTION AND USE OF 2000 AERIAL PHOTO AND USGS QUADRANGLE MAP.
			SW	NW	36	6N	6W	CANYON	VISUAL INSPECTION AND USE OF 2000 AERIAL PHOTO AND USGS QUADRANGLE MAP.
			SW	NW	36	6N	6W	CANYON	VISUAL INSPECTION AND USE OF 2000 AERIAL PHOTO AND USGS QUADRANGLE MAP.

63-9218

2. Place(s) of Use:

Indicate Method of Determination SAME AS POINT OF DIVERSION

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5N	5W	1		S															
6N	5W	31										S	S D						
6N	6W	36	S	S	S	S	S	S	S	S	S	S D			S		S	S D	
6N	6W	35	S			S													

PLEASE NOTE: The S stands for storage component. Diversion to storage is marked with a D (there are 2 diversion points in SWNW S36).

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

SEE ATTACHED SHEET.

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

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

*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
Pygmy meter				090181		

2. **Measurements:** Jan Shurte performed a measurement of the entire Sand Hollow drain on 5/13/1987. Since the applicant is the last person on the drain before it enters the Snake River, they have the ability to use all of the drain water if necessary.

43-9268

E. NARRATIVE/REMARKS/COMMENTS

On May 13, 1987, Jan Shurte performed a field exam on this permit. During this field exam, Ms. Shurte measured the water in Sand Hollow Drain and determined the capacity of the system. I have reviewed her data and agree with her measurements. This measurement should be used to determine the amount of water allocated for this permit.

The water for this permit is taken from the Sand Hollow Drain at multiple points along the drain. The applicant is the last user on the drain, so they have the ability to divert the entire drain if needed. This system is comprised of a number of wildlife storage ponds and irrigated fields that are all fed through ditch system and gravity irrigation. Approximately 83.4 acres of ground have been irrigated at this place of use. The crops grown are generally corn and grain type crops to supply food for the ducks and other wildlife that use the facility. There are approximately 15 ponds that are used to supply water for ducks and fish. All of the ponds are interconnected and the return flows from the ponds and irrigation goes directly into the Snake River.

OVERLAP

Water rights 63-4717, 63-4639, 63-4640, 63-4638, 63-11812, 63-11813 all overlap the place of use and point of diversion. 63-4717, 63-4639, 63-4640, and 63-4638 overlap the 83.4 acres that were found irrigated. These rights are all statutory claims and have not been verified. However, the irrigation described in these rights more than cover the amount land actually irrigated. Therefore, no irrigation should be recommended under this permit.

63-11812 and 63-11813 overlaps some of the ponds for this permit. However, all of the ponds had been developed except for the ponds in Section 25. Therefore, these permits should be used to cover the ponds in Section 25. All the remaining ponds not in Section 25 will be covered under this permit.

This permit allows wildlife, but does not have any storage component. The four irrigation rights do have a wildlife component, but do not have a storage component either. Therefore, this permit should be amended for the storage of the ponds and the diversion to storage. The refill of the ponds will be covered by the wildlife components listed on the 4 statutory claims.

RECOMMENDATIONS:

I recommend that this permit be recommended for diversion to storage at a diversion rate of 5.16 cfs and wildlife storage for 292 afa. This permit should be amended to remove the irrigation and wildlife component for the permit and changed to include the storage components.

Have conditions of permit approval been met? X yes ___ no

F. FLOW CALCULATIONSYES Additional Computation Sheets Attached

Measured Method:

The capacity of the system was measured at 18.6 cfs (please see attached sheet).

The permit limits the diversion rate to 5.16 cfs, so the maximum allowable diversion rate is 5.16 cfs.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$$

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

B

2. Volume Calculations for Other Uses:

292 acre-feet of storage for all of the ponds, excluding the ponds in Section 25, which will be covered under, permits 63-11812 and 63-11813.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial use	Period Of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
DIVERSION TO STORAGE	1/1	12/31	5.16 CFS	
WILDLIFE STORAGE	1/1	12/31		292 AFA
TOTAL			5.16 CFS	292 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

(CHANGE USE TO DIVERSION TO STORAGE
AND WILDLIFE STORAGE)

I. AUTHENTICATION

DANIEL A. NELSON – SENIOR AGENT

Field Examiner's Name

Daniel A. Nelson

Date

8-22-01

Reviewer

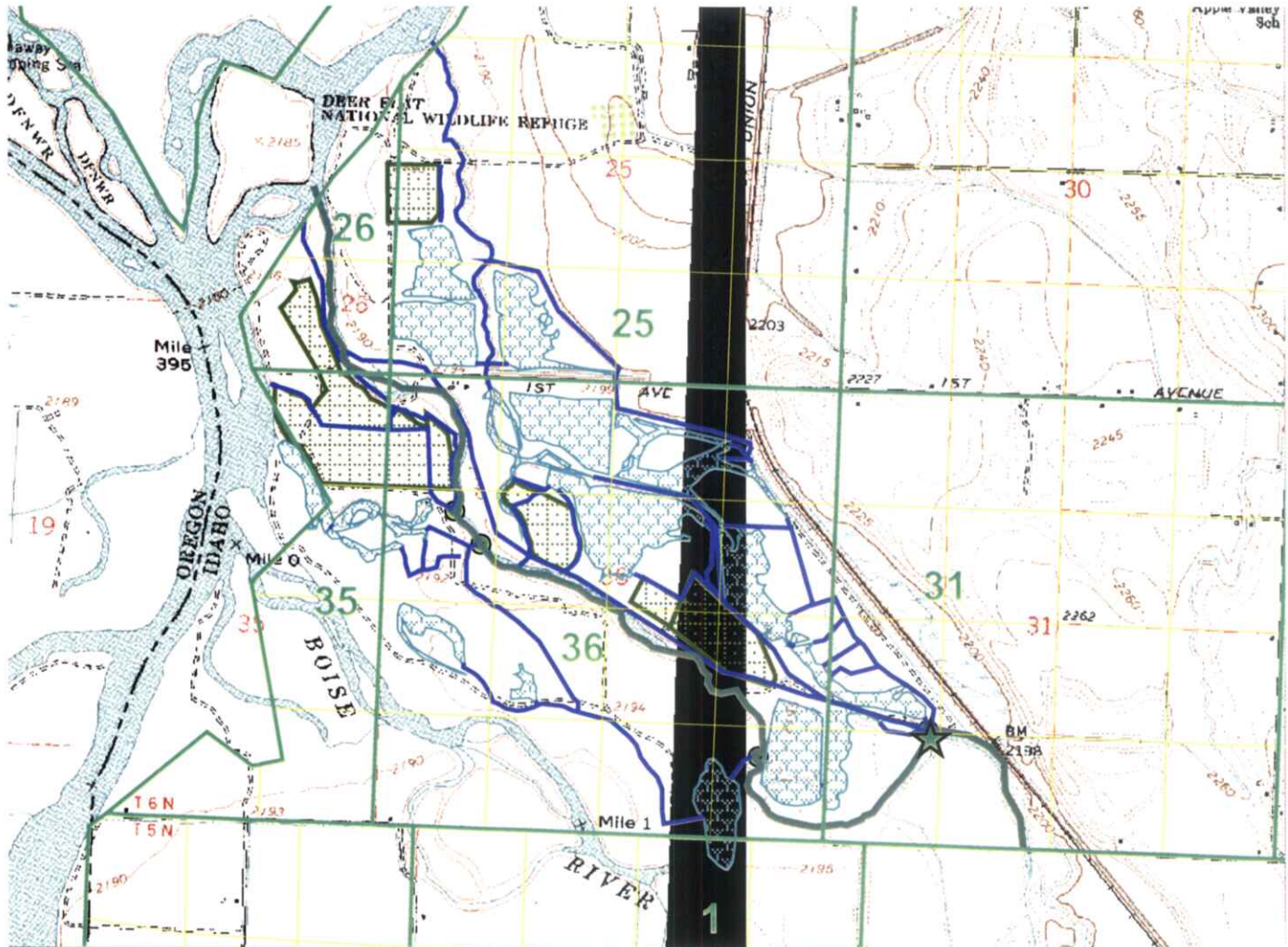
Date

SEAL

63-9218

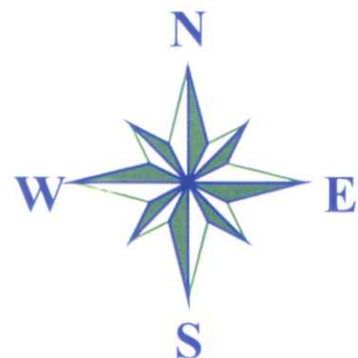
63-9218

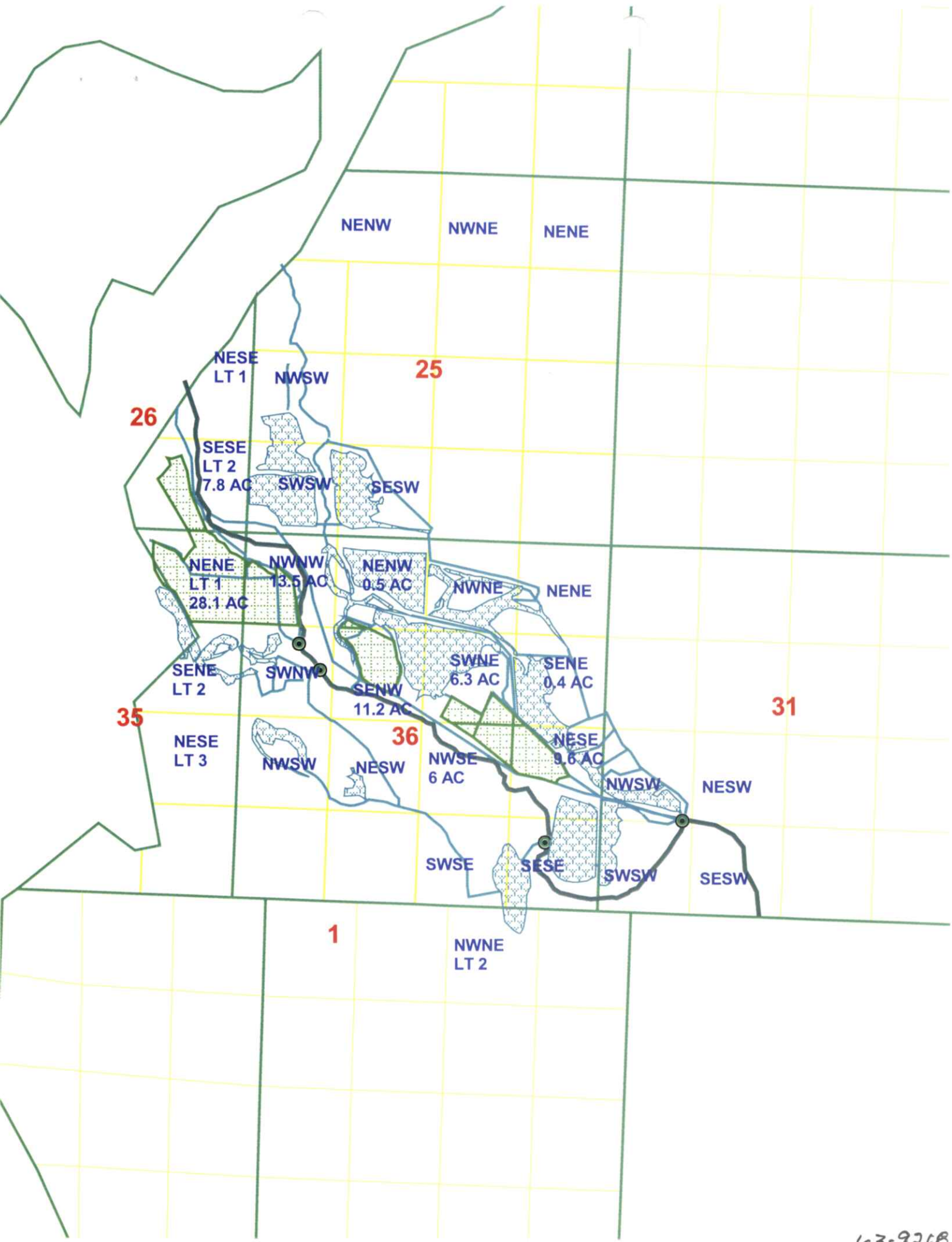
USGS QUADRANGLE MAP



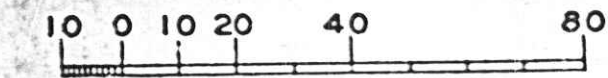
0.7 0 0.7 1.4 Miles

- Sand Hollow Drain
- Ditches
- Irrigated lands
- Ponds
- Points of Diversion
- Sections
- 1/4 1/4 lines





TRUE



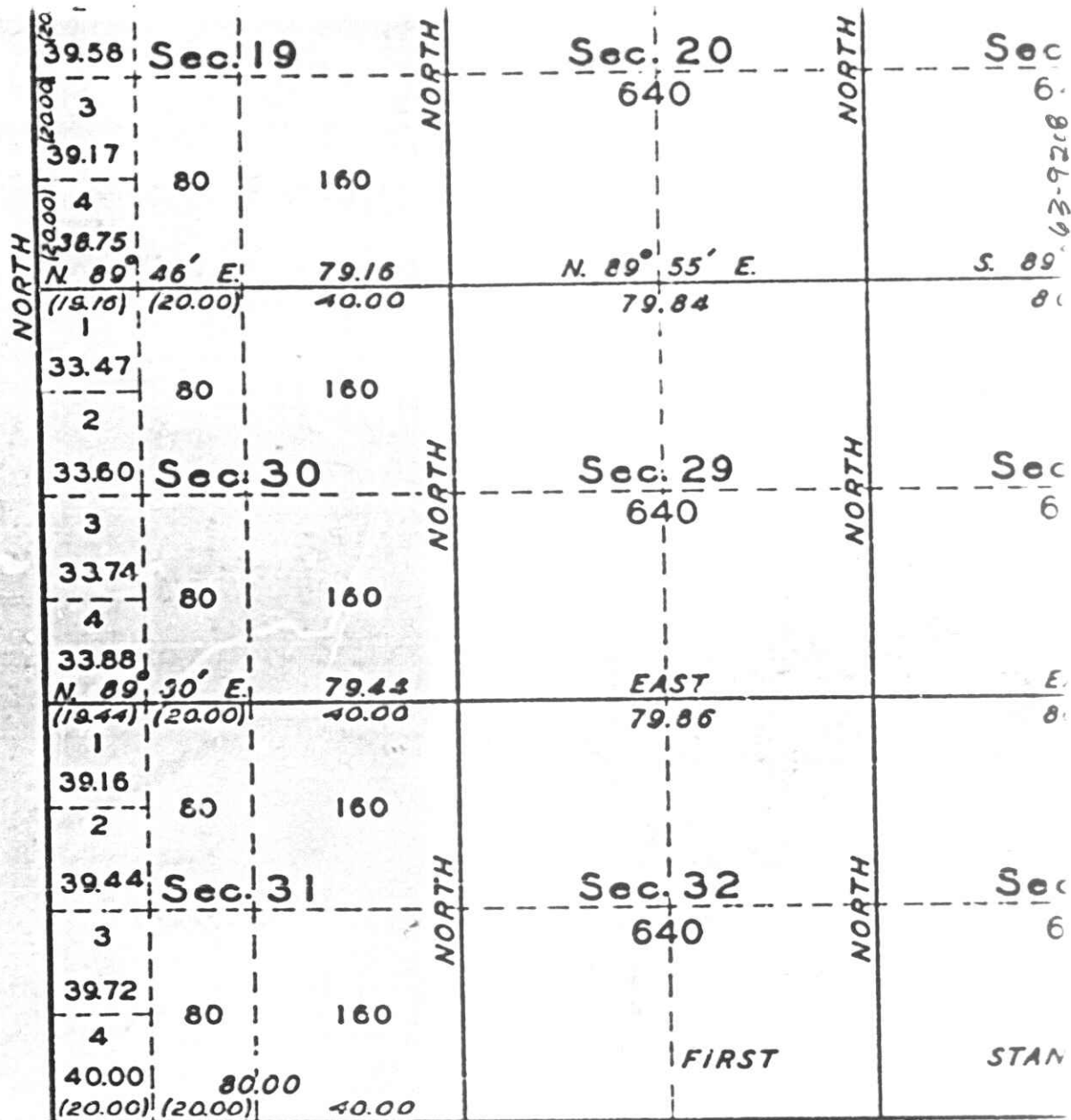
SCALE - 40 CHAINS TO AN INCH.

Sec. 1

R. 6 W. R. 5 W.

Sec. 6

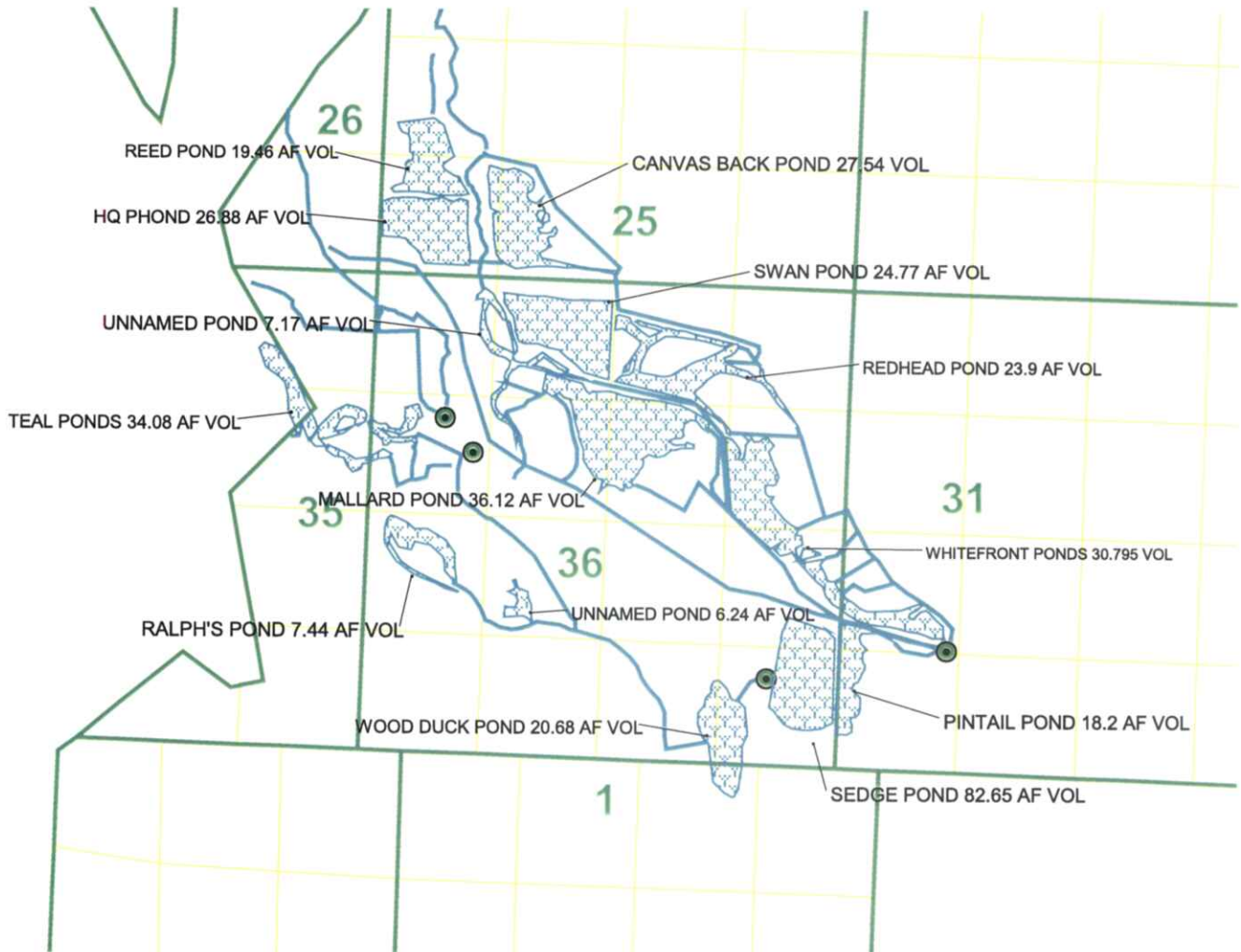
Sec. 5



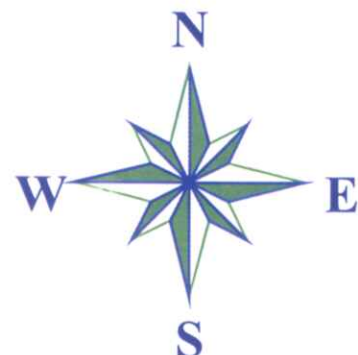
63-9218

VOLUME CHART FOR PONDS

PLEASE NOTE: Canvas Back, HQ, and Reed ponds are not associated with this permit.



-  **Ponds**
-  **P/Ds**
-  **Ditches**
-  **SECTION**
-  **1/4 1/4 LINE**



POND VOLUMES FOR WATER RIGHT 63-9218

CALCULATED BY : DANIEL A. NELSON
DATE: 8/8/2001

PONDS FOR WATER RIGHT 63-9218

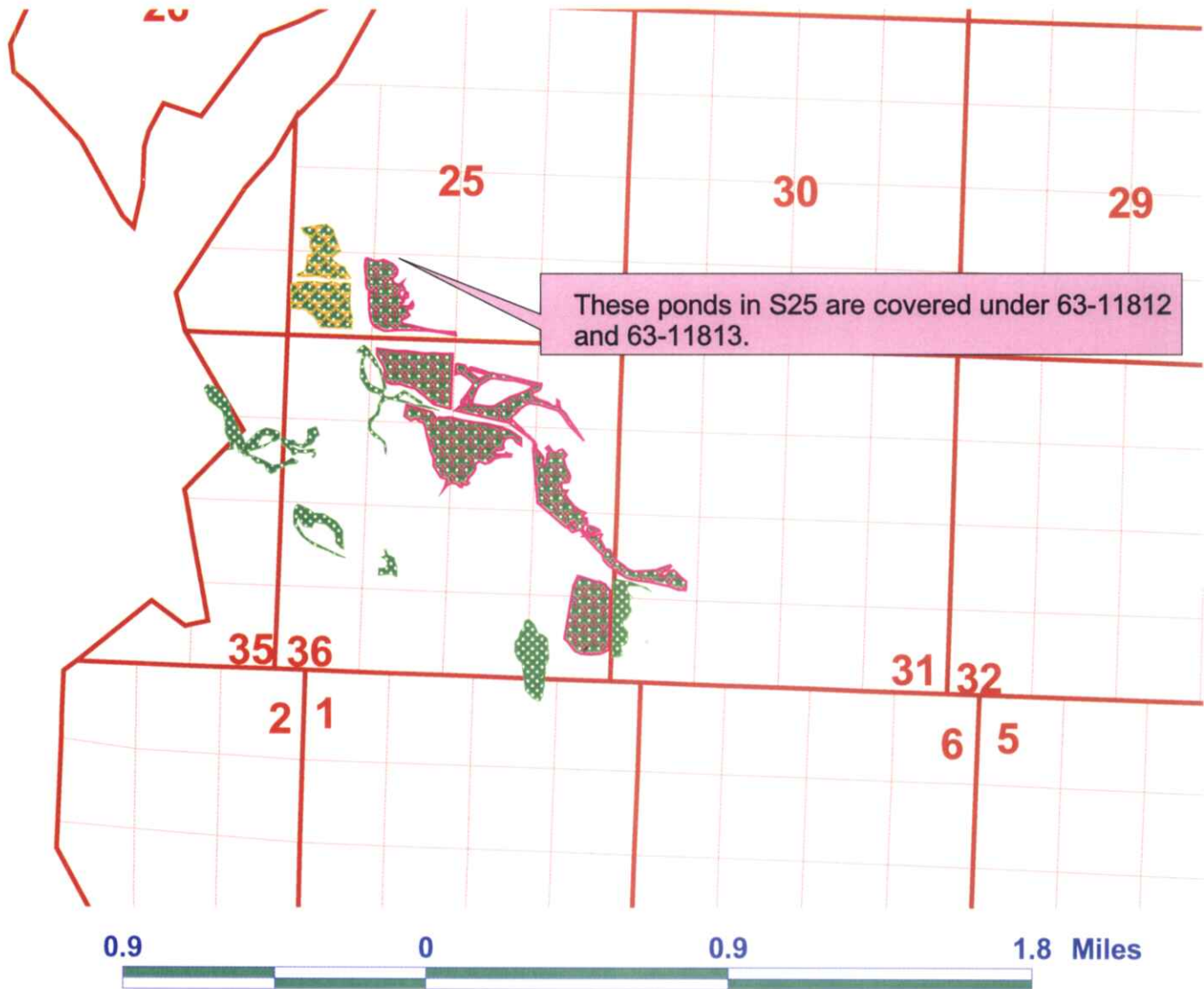
POND NAME	SURFACE AREA (IN ACRES)	ESTIMATED DEPTH (IN FEET)	ESTIMATED VOLUME (IN ACRE FEET)
PINTAIL POND	6.68	1.5	18.2
SEDGE POND	16.53	5	82.65
WOOD DUCK POND	10.34	2	20.68
RALPH'S POND	4.96	1.5	7.44
UNNAMED POND	1.56	4	6.24
TEAL PONDS	11.36	3	34.08
WHITEFRONT PONDS	20.53	1.5	30.795
MALLARD POND	24.08	1.5	36.12
REDHEAD POND	11.95	2	23.9
SWAN POND	16.51	1.5	24.765
UNNAMED POND	4.78	1.5	7.17
TOTAL	129.28 ✓		292.04

THE PONDS BELOW ARE FILLED UNDER A SEPARATE WATER RIGHT

POND NAME	SURFACE AREA (IN ACRES)	ESTIMATED DEPTH (IN FEET)	ESTIMATED VOLUME (IN ACRE FEET)
CANVAS BACK POND	13.77	2	27.54
HQ POND	13.44	2	26.88
REED POND	9.73	2	19.46
TOTAL			73.88

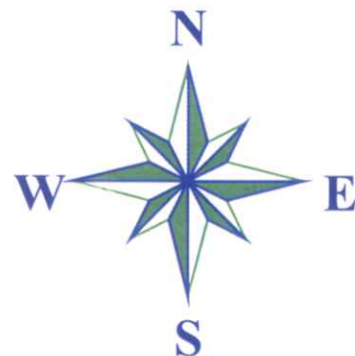
63-9218

POND OVERLAP

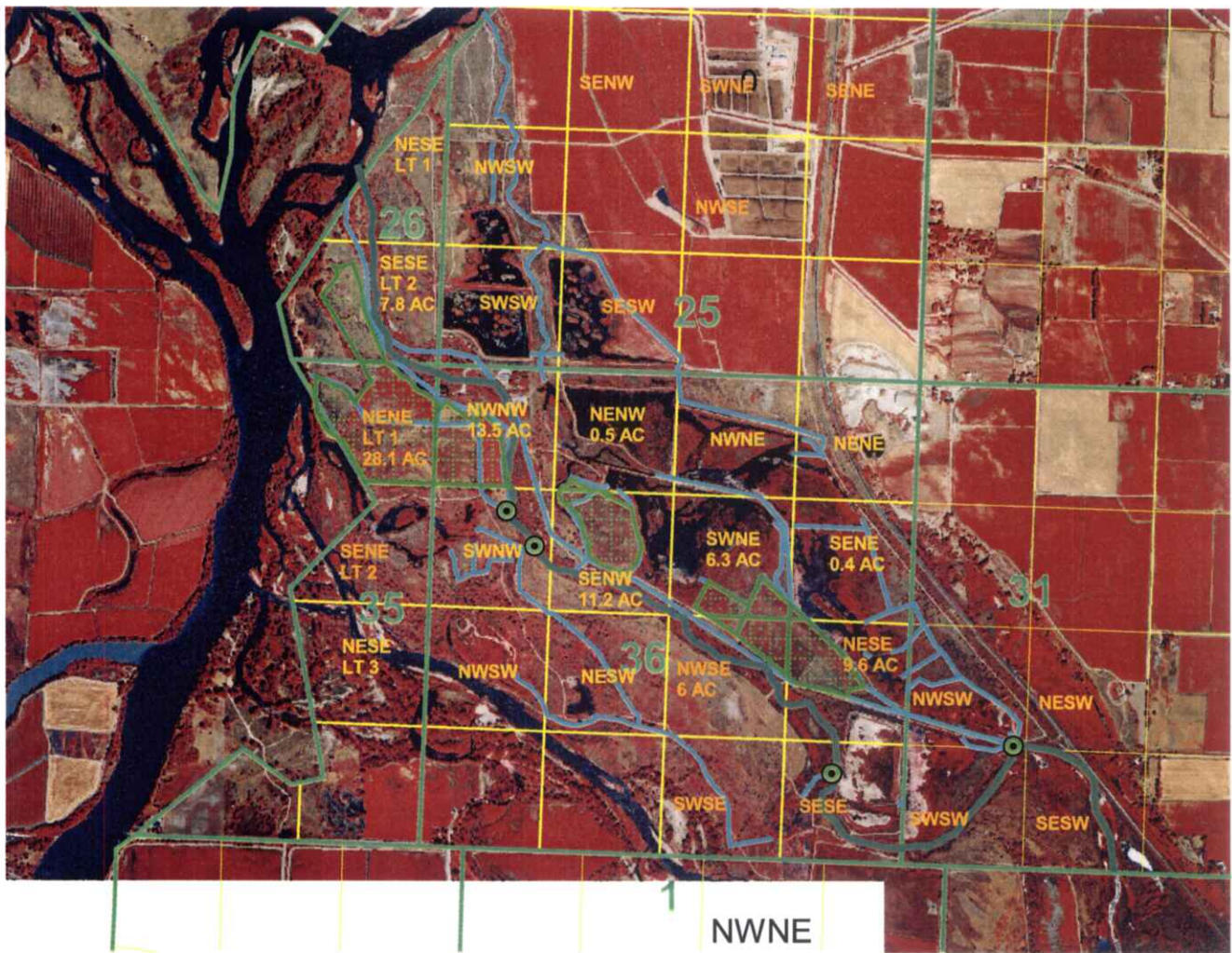


-  PONDS DESCRIBED IN 63-11812
-  PONDS DESCRIBED IN 63-11813
-  Ponds 9218.shp
-  SECTIONS
-  1/4 1/4 LINES

PLEASE NOTE: The ponds in Section 25 were not constructed at the time proof was filed on 63-9218. Therefore, all of the ponds should be included on this permit except for the ponds shown in Section 25. The ponds in Section 25 are covered under water rights 63-11812 and 63-11813.



63-9218
ACRES IRRIGATED
T6N R6W S25 - 26 - 35 - 36
T6N R5W S 31
T5N R6W S 1
83.4 ACRES TOTAL



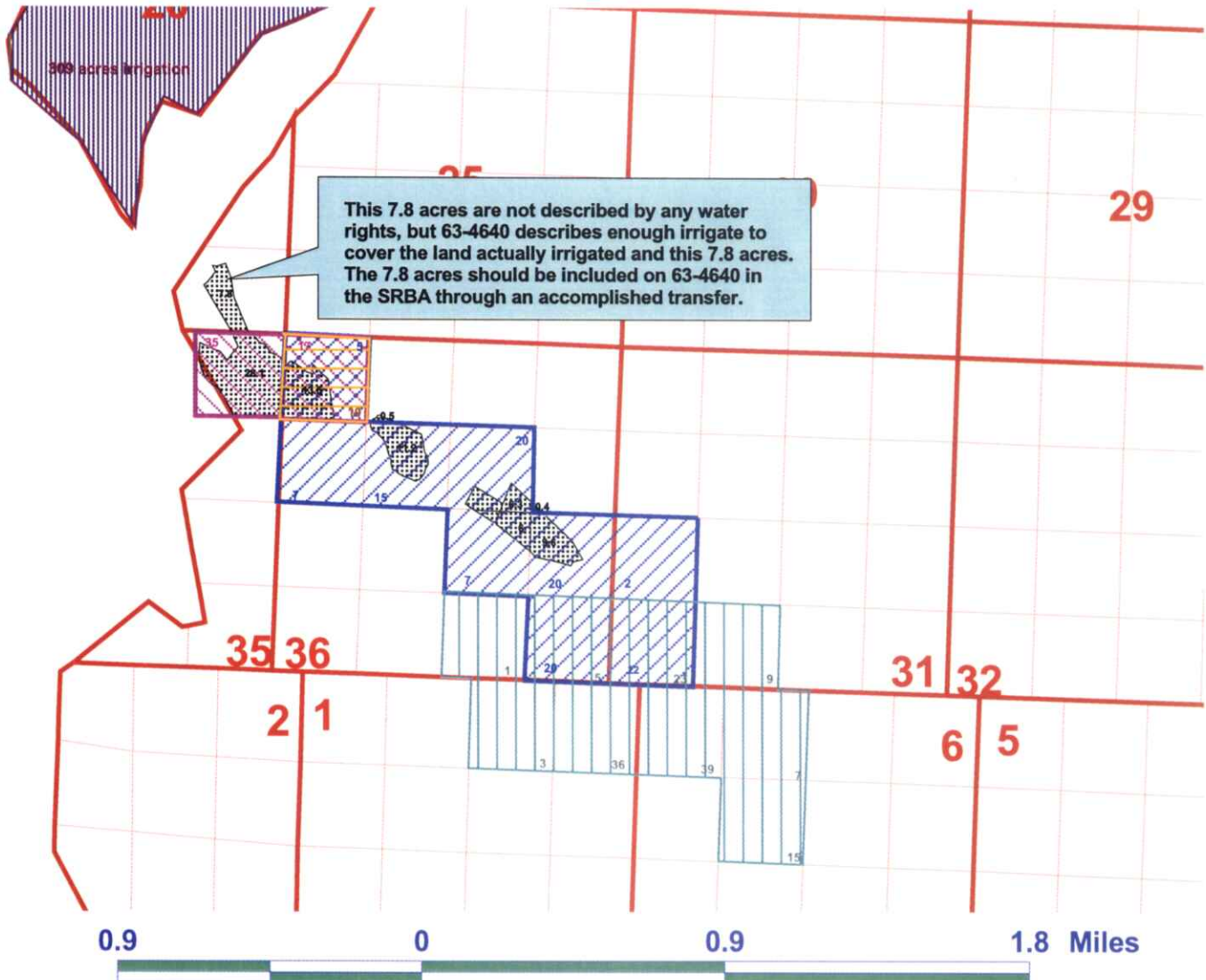
- Ponds
- P/Ds
- IRRIGATED LANDS
- SAND HOLLOW DRAIN
- DITCHES
- SECTIONS
- 1/4 1/4 LINES



63-9218

63-9218

IRRIGATION OVERLAP



- 03-2059 IRRIGATION OF ISLAND FROM SNAKE RIVER
- 63-4717, 138 ACRES FROM SAND HOLLOW DRAIN, .02 CFS/ACRE
- 63-4639, 10 ACRES FROM SAND HOLLOW DRAIN, .02 CFS/ACRE
- 63-4640, 52 ACRES FROM SAND HOLLOW DRAIN, .02 CFS/ACRE
- 63-4638, 118 ACRES FROM SAND HOLLOW DRAIN, .02 CFS/ACRE
- LAND ACTUALLY IRRIGATED
- SECTIONS
- 1/4 1/4 LINES

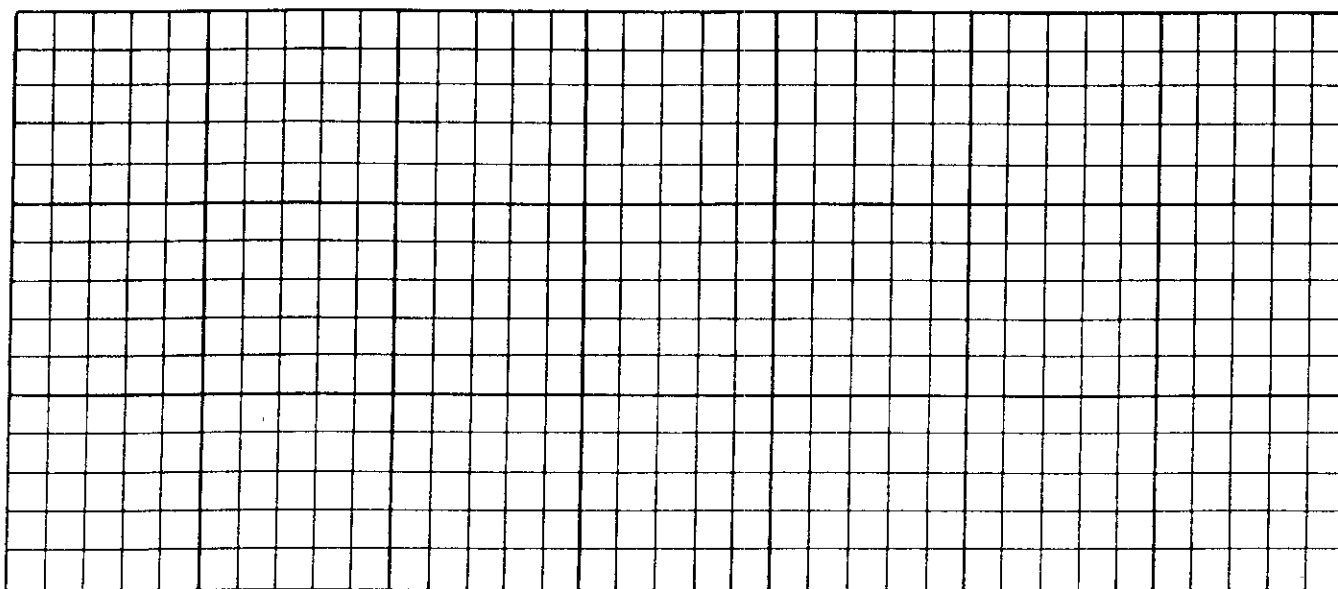
PLEASE NOTE: All lands currently irrigated are covered under existing water rights. Therefore, the irrigation componet for permit 63-9218 should not be allowed.



C. DIAGRAMS

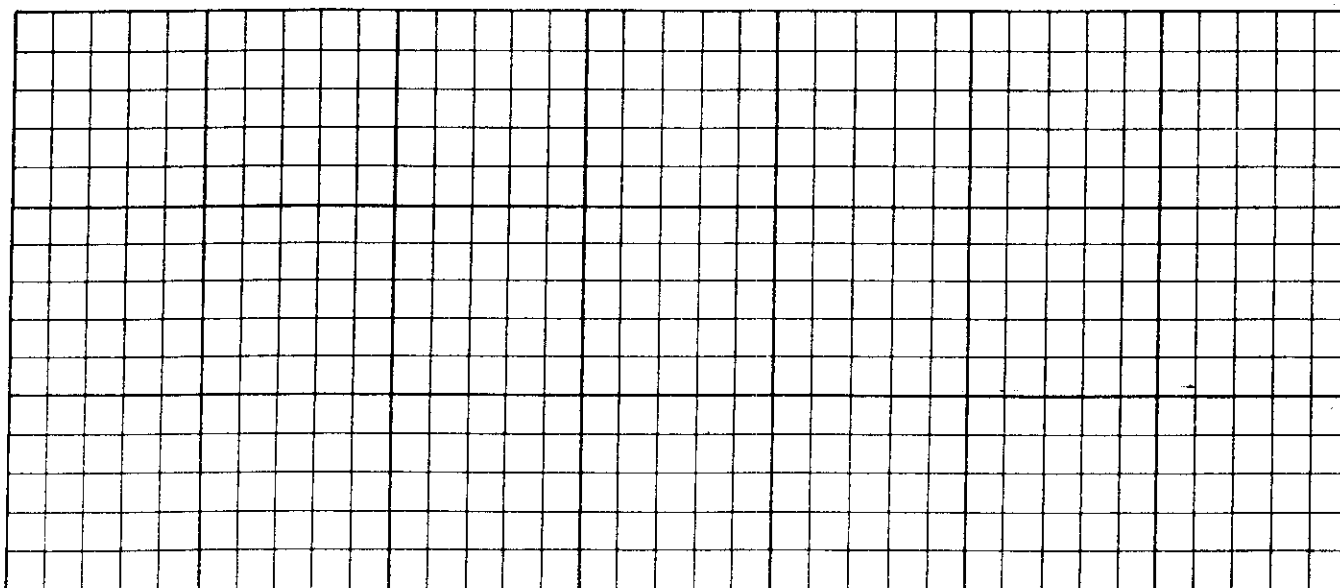
1. Measurement Location

Scale: _____ = _____



2. Cross-Section of Measurement

Scale _____ = _____



D. SUMMARY INFORMATION

1. Measurement rated excellent good fair poor

2. Remarks: _____

3. Width: _____ Area: _____ Discharge in cubic feet per second: _____

DATE _____

SIGNATURE OF PERSON CONDUCTING MEASUREMENT _____



PHOTOGRAPHER AND DATE OF PHOTOS

Dan Nelson 10-6
~~8-10-01~~

FILE NO.

63-9218



POINT OF
DIVERSION
ON
SAND HOLLOW
DRAIN



Ditch coming
OFF SAND
HOLLOW DRAIN

63-9218



PHOTOGRAPHER AND DATE OF PHOTOS

Don Nelson 10-6-01

FILE NO. AND LEGAL DESCR.

63- 9218

63-9218



Sedge

THIS IS A PHOTO OF SEDGE POND



PHOTOGRAPHER AND DATE OF PHOTOS

Don Nelson 10-6-00

FILE NO.

63-9218



These are
PHOTOS
OF
PISTAIL
POND



63-9218



PHOTOGRAPHER AND DATE OF PHOTOS

Don Nelson 10-6-01

FILE NO.

63- 9218



WOOD DUCK

This is
a photo
OF wood duck
POND.



unnamed

This is
a photo
OF THE
unnamed
POND

63-9218



PHOTOGRAPHER AND DATE OF PHOTOS

Don Nelson 10-6-00

FILE NO.

63-9218



This is
a PHOTO
OF
RALPH'S
'POND



This IS
a PHOTO OF
ONE OF THE
IRRIGATED
FIELDS
THIS IS THE
LARGE FIELD
NORTH OF
TEAL PONDS

IRRIG. W OF TEAL

63-9218



PHOTOGRAPHER AND DATE OF PHOTOS

Dan Nelson

10-6-00.

FILE NO. AND LEGAL DESCR.

63-9218

These are The Teal Ponds



~~Teal~~ Teal



~~Teal~~ Teal



~~Teal~~ Teal

63-9218