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OCT 13 2005

Permit No: 98-7829

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DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-7829

Exam Date:

1. Current Owner: US DEPT OF INTERIOR
FISH & WILDLIFE SERVICE
911 NE 11TH AVE
PORTLAND OR 97232-4181
(503)231-6251

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

*This field report
shows P.O.U. and P.D.
after updating from
shape files.*

3. SOURCE

KOOTENAI RIVER

TRIBUTARY

COLUMBIA 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:

KOOTENAI RIVER
BOUNDARY County

SE1/4NW1/4

Sec. 18, Twp 62N, Rge 01E, B.M.

Method of Determination:

2.

PLACE OF USE: WILDLIFE

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
62N 01E 7									X L 9	X L 4	X L 5	X L 6					
62N 01E 18					X L 9	X L 1	X L 2										
62N 01W 12													X L 7	X L 8	X	X	
62N 01W 13	X	X															

PLACE OF USE: WILDLIFE STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
62N 01E 7									X L 9	X L 4	X L 5	X L 6					
62N 01E 18					X L 9	X L 1	X L 2										
62N 01W 12													X L 7	X L 8	X	X	
62N 01W 13	X	X															

DIVERSION TO STORAGE same as WILDLIFE STORAGE

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

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>
WILDLIFE	01/01 to 12/31	3.010 CFS	
WILDLIFE STORAGE	01/01 to 12/31		480.00 AF
DIVERSION TO STORAGE	01/01 to 12/31	3.010 CFS	
<u>Totals:</u>		3.010 CFS	480.00 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

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

DEPARTMENT OF WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 98-7829

1. Owner: U.S. Dept. of Interior, Fish & Wildlife Service Phone No. (503) 231-6251

Current Address: 911 NE 11th Ave. WA-2W Portland Or. 97232-4181

2. Accompanied by: Wayne Wellperson EXAM DATE: 7-27-05

Address: Wild Life Refuge, Bonners Ferry, ID Phone No. (208) 267-3888

Relationship to Permit Holder: Employee

Relationship to Permit Holder: Employee

3. Source: Kootenai River tributary to Columbia River

B. OVERLAP REVIEW

1. Other water rights with the same place of use: _____

2. Other water rights with the same point of diversion: 98-7366-987771

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

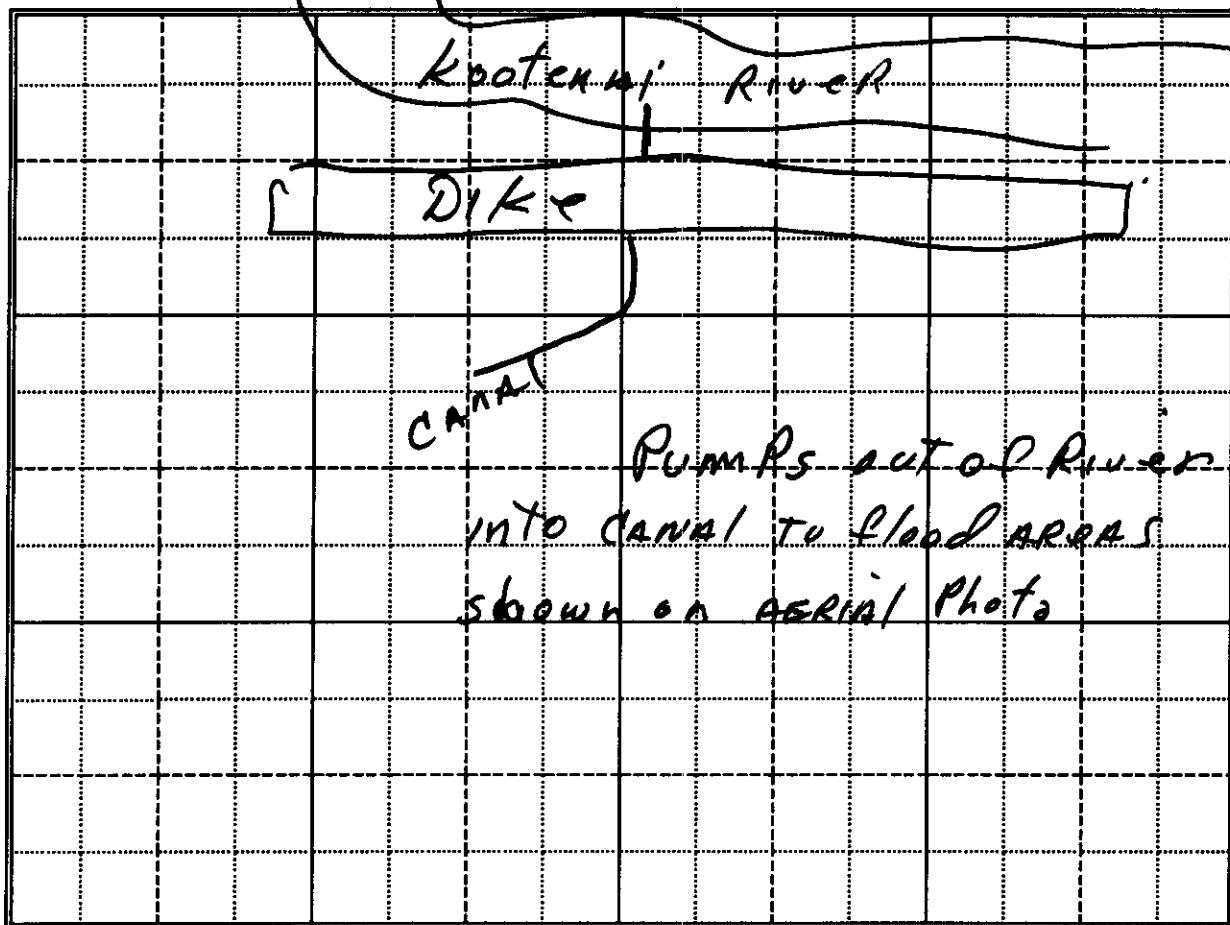
[illegible]

2. Place(s) of Use:

Indicate Method of Determination

[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
	US Motor	60			12"

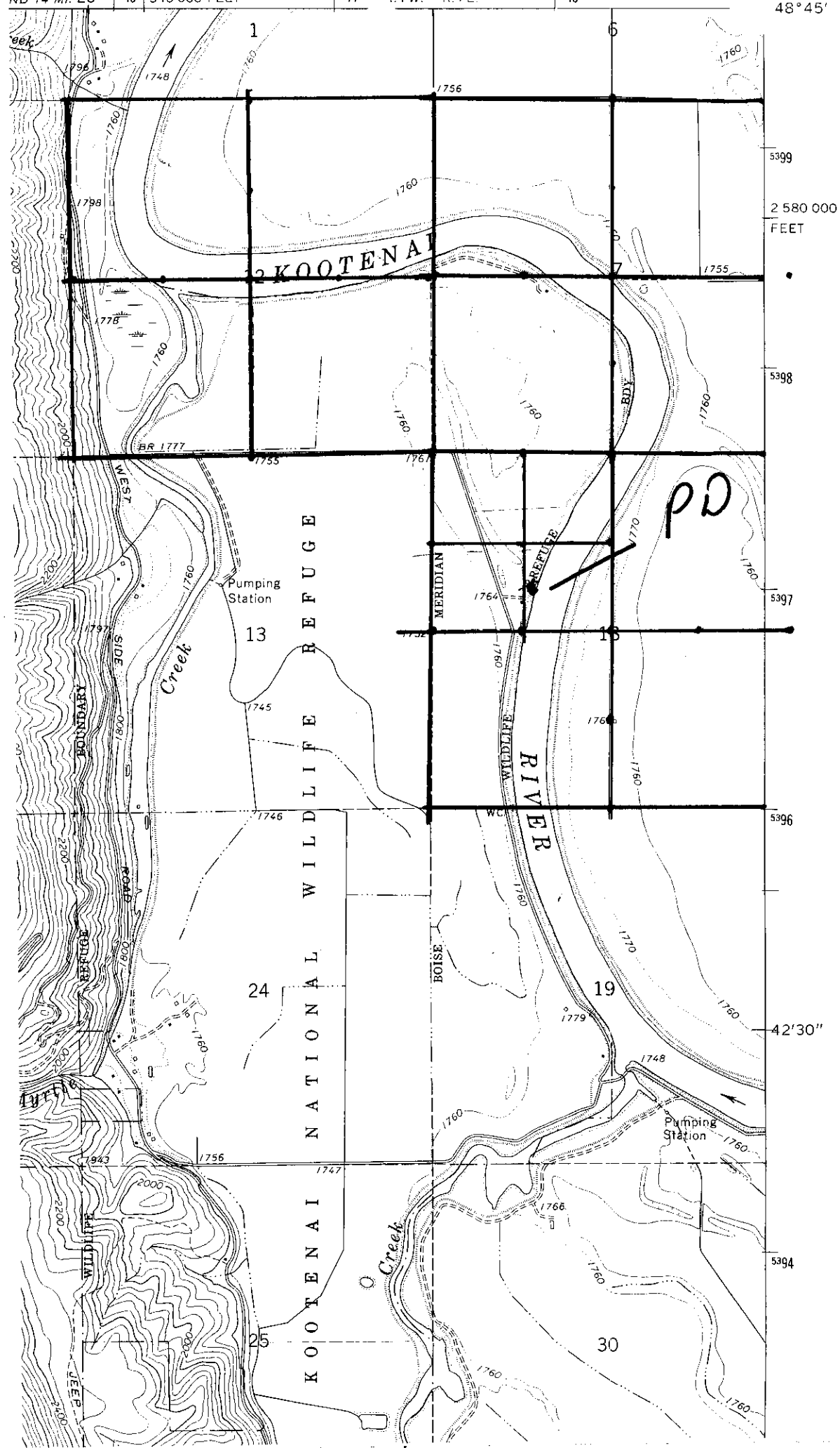
*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

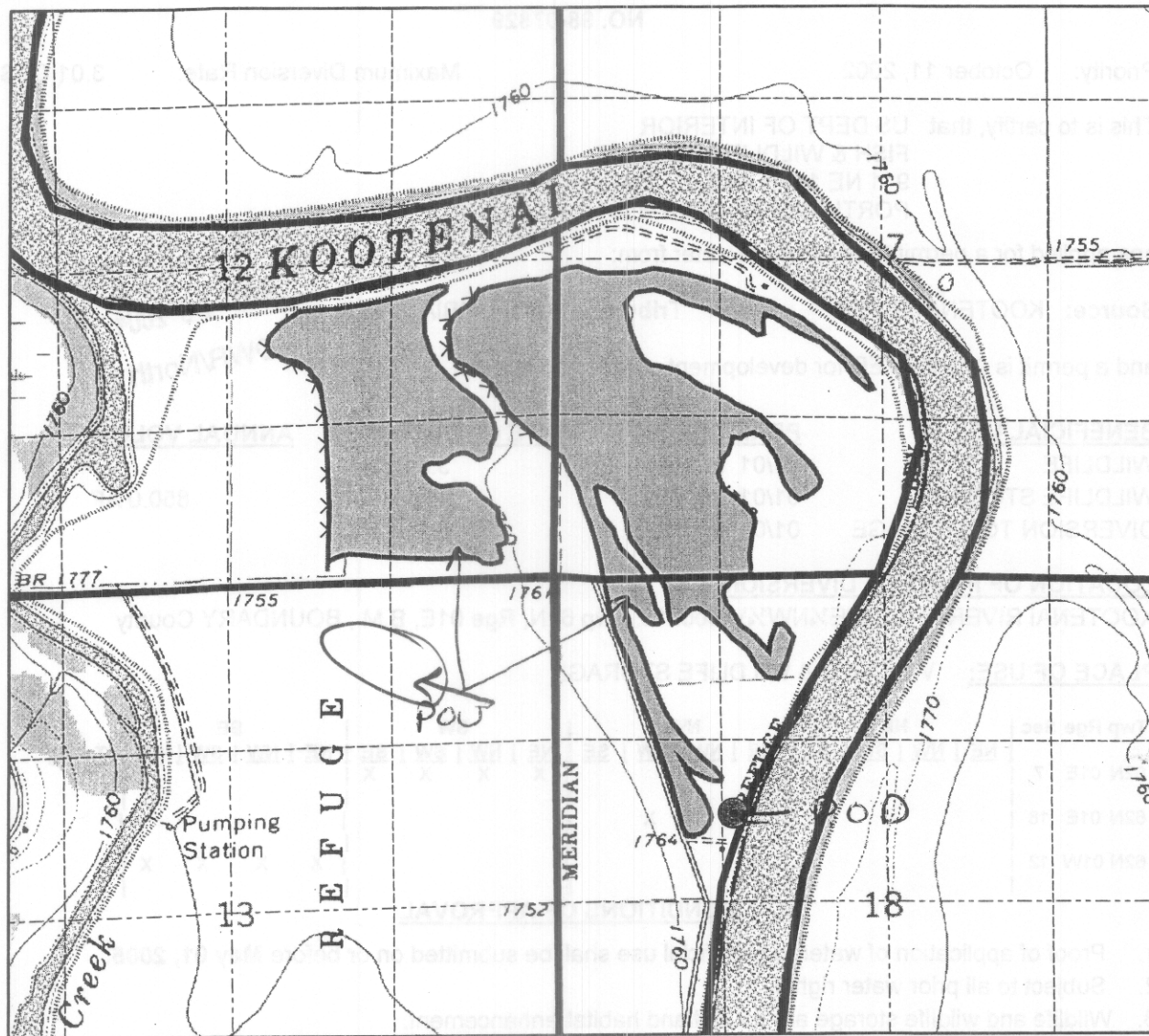


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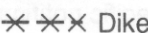
U.S. Dept. of Interior

APPLICATION MAP
IN THE NAME OF U.S. FISH AND WILDLIFE SERVICE

Sec. 12, T 62 N, R 1 W and Sec. 7 & 18, T 62 N, R 1 E, B.M.



Legend

-  Point of Diversion
-  Place of Use
-  Dike

Kootenai National Wildlife Refuge

0 950 1,900 3,800 5,700 Feet



The purpose of this map is to identify the location of the water right. It is not intended to provide information relative to the location of property ownership boundary lines.

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 98-07829

Priority: October 11, 2002

Maximum Diversion Rate: 3.01 CFS

This is to certify, that US DEPT OF INTERIOR
FISH & WILDLIFE SERVICE
911 NE 11TH AVE
PORTLAND OR 97232-4181

has applied for a permit to appropriate water from:

Source: KOOTENAI RIVER

Tributary: COLUMBIA RIVER

and a permit is APPROVED for development of water as follows:

RECEIVED
MAY 19 2004
IDWR/North

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
WILDLIFE	01/01 to 12/31	3.01 CFS	
WILDLIFE STORAGE	01/01 to 12/31		850.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	3.01 CFS	

LOCATION OF POINT OF DIVERSION:

KOOTENAI RIVER L2 (SE¼NW¼) Sec. 18, Twp 62N, Rge 01E, B.M., BOUNDARY County

PLACE OF USE: WILDLIFE & WILDLIFE STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
62N 01E 7									X	X	X	X					
62N 01E 18					X	X	X										
62N 01W 12													X	X	X	X	

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **May 01, 2005**.
2. Subject to all prior water rights.
3. Wildlife and wildlife storage are for wetland habitat enhancement.
4. A fish screen of ¼ inch or smaller mesh shall be installed and maintained at the point of diversion.
5. The approach velocity at the point of diversion shall not exceed 0.5 feet per second.
6. Rights 98-07829, 98-07366 and 98-07771 are also diverted through the point of diversion described above.
7. This right does not grant any right-of-way or easement across the land of another.
8. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 13th day of May, 2004.



KARL J DREHER, Director

98-7829

E. NARRATIVE/REMARKS/COMMENTS

Notice diversion rate read on meter
day of exam higher than permit Rate.

GIS Aerial photo was confirmed
by Wayne Wilkerson - the actual surface
area is 160 acres. Avg depth is 3'
 $160 \times 3 = 480 \text{ AF}$

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

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

Flow meter 3,900 gpm

$$\frac{3900 \times 1.33681}{60} = 8.68 \text{ or } 8.7 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses: 160 Ac. @ 3 ft avg. depth

56 acres avg depth 3 ft

$$56 \text{ acres} \times 3 \text{ ft} = 168 \text{ AF}$$

$$160 \times 3 = 480 \text{ AF}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Wild life	01-01	12-31	3.01	
Wild life Storage	01-01	12-31		168 480
Recreation to Storage	01-01	12-31	3.01	
Totals:			3.01	168 480

2. Recommended Amendments

Price in Sec 13 not described on Permit

☐ 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**

Field Examiner's Name

Wayne Balch

Date

9-19-05

Reviewer

AJ Tye

Date

10-5-05

SEAL

98-7829

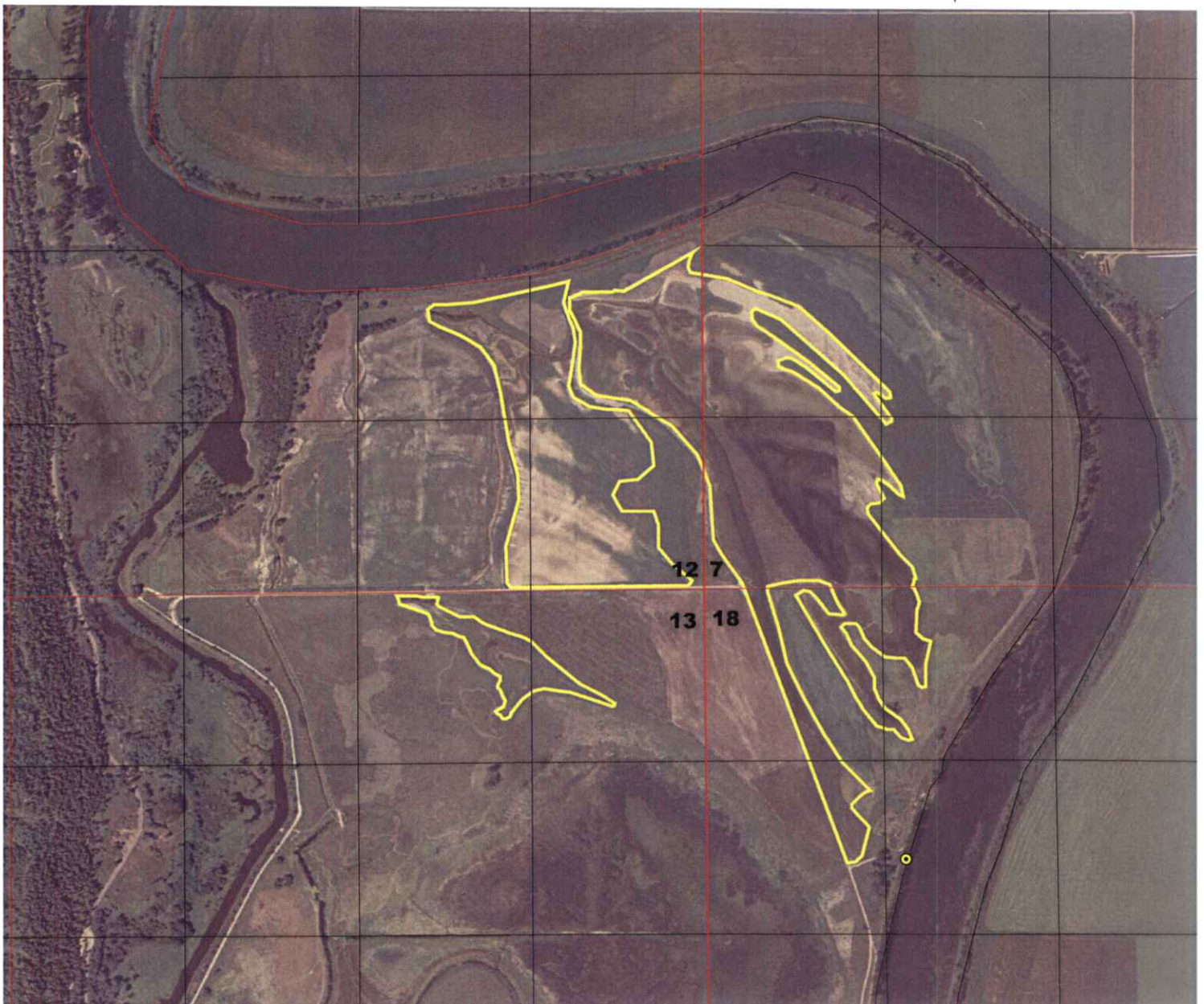
T62N R1E Sections 7 & 18
T62N R1W Section 12 & 13



Place of Use



Point of Diversion



56 acres



PD



Pump



meter

98-7829

US Dept. of Interior



pu



pu