

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9085

Exam Date: 7/8/2008

1. Current Owner: DONALD D SKINNER
270 RAPID LIGHTNING RD
SANDPOINT ID 83864
(208)263-3300

2. Accompanied by: Owner

Phone No: Same

Address: Same

Relationship to Permit Holder:

3. SOURCE

UNNAMED STREAM

TRIBUTARY

PACK RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 96-9084
2. Other water rights with the same point of diversion: 96-9084

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

UNNAMED STREAM	NW1/4SE1/4	Sec. 23,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	SW1/4SE1/4	Sec. 23,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	NW1/4NW1/4	Sec. 26,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	NE1/4NW1/4	Sec. 26,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	NW1/4SE1/4	Sec. 23,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	SW1/4SE1/4	Sec. 23,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	SW1/4SE1/4	Sec. 23,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	SW1/4SE1/4	Sec. 23,	Twp 58N,	Rge 01W, B.M.
BONNER County				
UNNAMED STREAM	NE1/4NW1/4	Sec. 26,	Twp 58N,	Rge 01W, B.M.
BONNER County				

Method of Determination: **GPS AND MAP**

[illegible][illegible][illegible][illegible]

PLACE OF USE: RECREATION 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>	
58N 01W 23															X		
58N 01W 26					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>	
58N 01W 23															X		
58N 01W 26					X												

DIVERSION TO STORAGE same as WILDLIFE STORAGE

Method of Determination:

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

4.

<u>Diversion ID No.*</u>		<u>Discharge Size</u>
ID729423	GPS W 116° 25'42.2 N 48°21'47.5	3.5' X 4' WEIR 2.2 cfs
ID729283	GPS W 116° 25'35.9 N 48°21'38.4	3.5' X 4' WEIR 2.2 cfs
ID729423	GPS W 116° 25'28.8 N 48°21'29.4	3 FOOT CULVERT
ID729426	GPS W 116° 25'36.9 N 48°21'27.7	3.5' X 4' WEIR 2.2 cfs
ID729424	GPS W 116° 25'36.1 N 48°21'27.9	4' DITCH TIE DAM
ID729284	GPS W 116° 25'27.2 N 48°21'28.2	2 FOOT CULVERT POND 1
ID729288	GPS W 116° 25'46.7 N 48°21'22.9	2 FOOT CULVERT POND 2
ID729440	GPS W 116° 25'50.6 N 48°21'19.1	2 FOOT CULVERT POND 3
ID729285	GPS W 116° 25'20.5 N 48°21'14.6	TARP IN STREAM

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Standard Contracted Rectangular Weir

$$Q = 3.33 (L - 0.2 H) H^{3/2} L = 3.5' H = 4' = 0.333'$$

$$\begin{aligned} Q &= 3.33 (3.5 - (0.2) (0.333)) (0.333)^{3/2} \\ &= 3.33 (3.5 - 0.067) (0.1922) \\ &= 2.20 \text{ cfs} \end{aligned}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 105 \times 3 = 315 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2 \times 214 \times 1.9635 = 848.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 315 \text{ AF FOR IRRIGATION}$$

2. Volume Calculations for Other Uses:

$$\text{POND \#1} = 1 \text{ ac} \times 43560 \times 5 / 43560 = 5 \text{ AF Volume}$$

$$\text{Evaporation} = 43560 \text{ SQF} = 8418 \text{ GPD} \times 245 \text{ DPY} / 325850 = 6.3 \text{ AF}$$

$$\text{Pound \#1 Total Volume} = 11.3 \text{ AF}$$

$$\text{POND \#2} = 1.4 \text{ ac surface area} \times 60984 \times 5 \text{ depth} / 43560 = 7 \text{ AF}$$

$$\text{Evaporation} = 60984 \text{ SQF} = 11785 \text{ GPD} \times 245 \text{ DPY} / 325850 = 8.8 \text{ AF}$$

$$\text{Pound \#2 Total Volume} = 15.8 \text{ AF}$$

$$\text{POND \#3} = 0.8 \text{ ac surface area} \times 34848 \times 5 \text{ depth} / 43560 = 4 \text{ AF}$$

$$\text{Evaporation} = 34848 \text{ SQF} = 6734 \text{ GPD} \times 245 \text{ DPY} / 325850 = 5 \text{ AF}$$

$$\text{Pound \#3 Total Volume} = 5.0 \text{ AF}$$

$$\text{POND \#4} = 1.1 \text{ ac surface area} \times 4 \text{ depth} / 43560 = 4.4 \text{ AF}$$

$$\text{Evaporation} = 9260 \text{ GPD} \times 245 \text{ DPY} / 325850 = 6.9 \text{ AF}$$

$$\text{Pound \#4 Total Volume} = 11.3 \text{ AF}$$

$$\text{TOTAL VOLUME OF ALL PONDS WITH EVAPROATION} = 43.4 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS: This water system uses flood irrigation for 105 acres. Four ponds are used for storage in the place for use. Pond # 4 point of diversion (POD) is ID729285 in the QQ, NW, NW, sec 26. At this POD the owner uses tarps in the stream to divert water for irrigation and to fill this pond. There is no defined channel to pond #4 form the POD. Pond # 4 will receive water in the spring overflow form pond #2.

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>
STOCKWATER STORAGE	01/01 to 12/31		55.00 AF
IRRIGATION	04/01 to 10/31	2.000 CFS	315.00 AF
IRRIGATION FROM STORAGE	04/01 to 10/31		30.00 AF
IRRIGATION STORAGE	01/01 to 12/31		30.00 AF
RECREATION STORAGE	01/01 to 12/31		55.00 AF
WILDLIFE STORAGE	01/01 to 12/31		55.00 AF
DIVERSION TO STORAGE	01/01 to 12/31	2.000 CFS	
	<u>Totals:</u>	2.000 CFS	370.00 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

Eini Duno

Date

12-7-2005

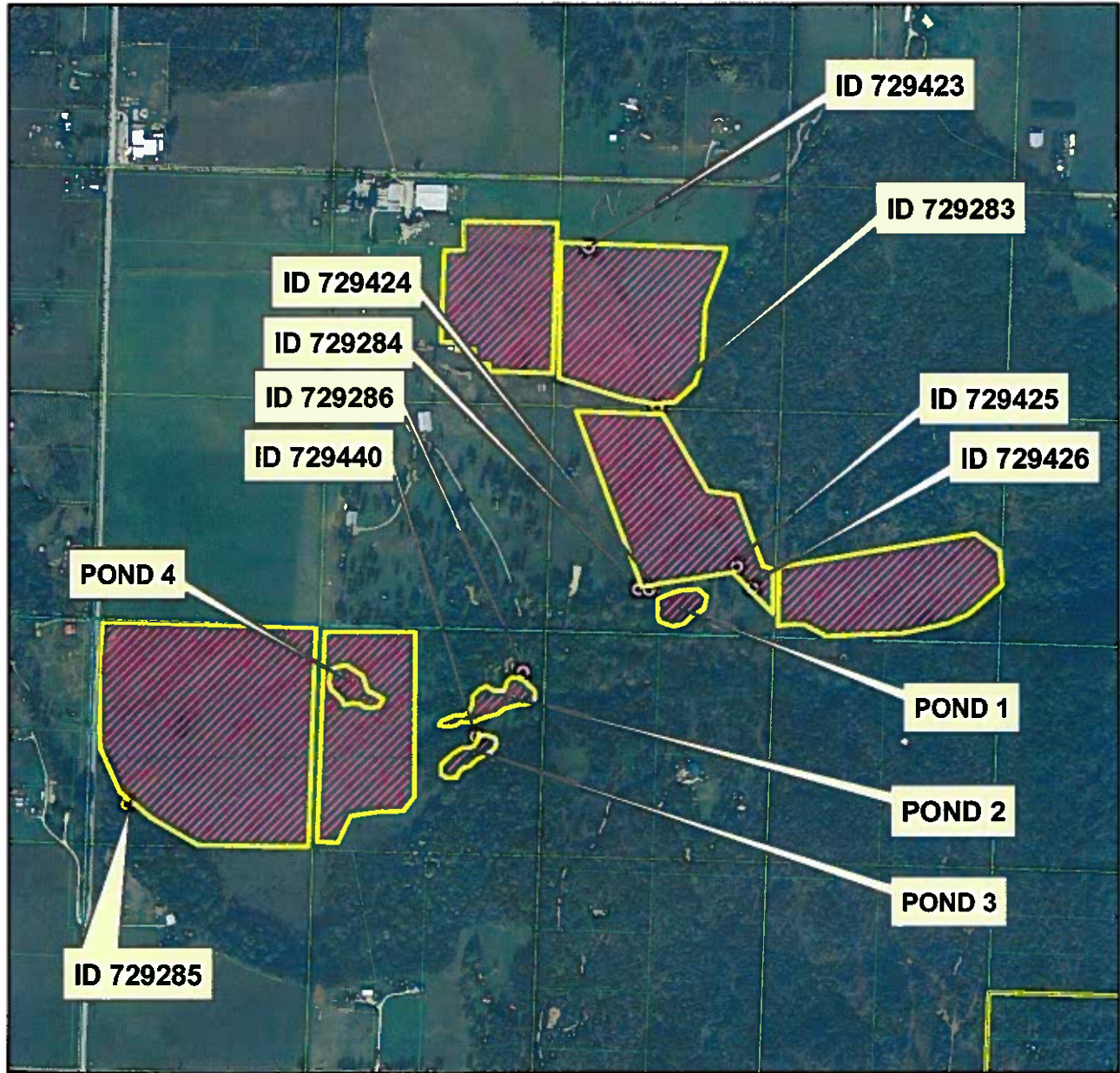
Reviewer

[Signature]

Date

12/29/8

96-9085



Legend

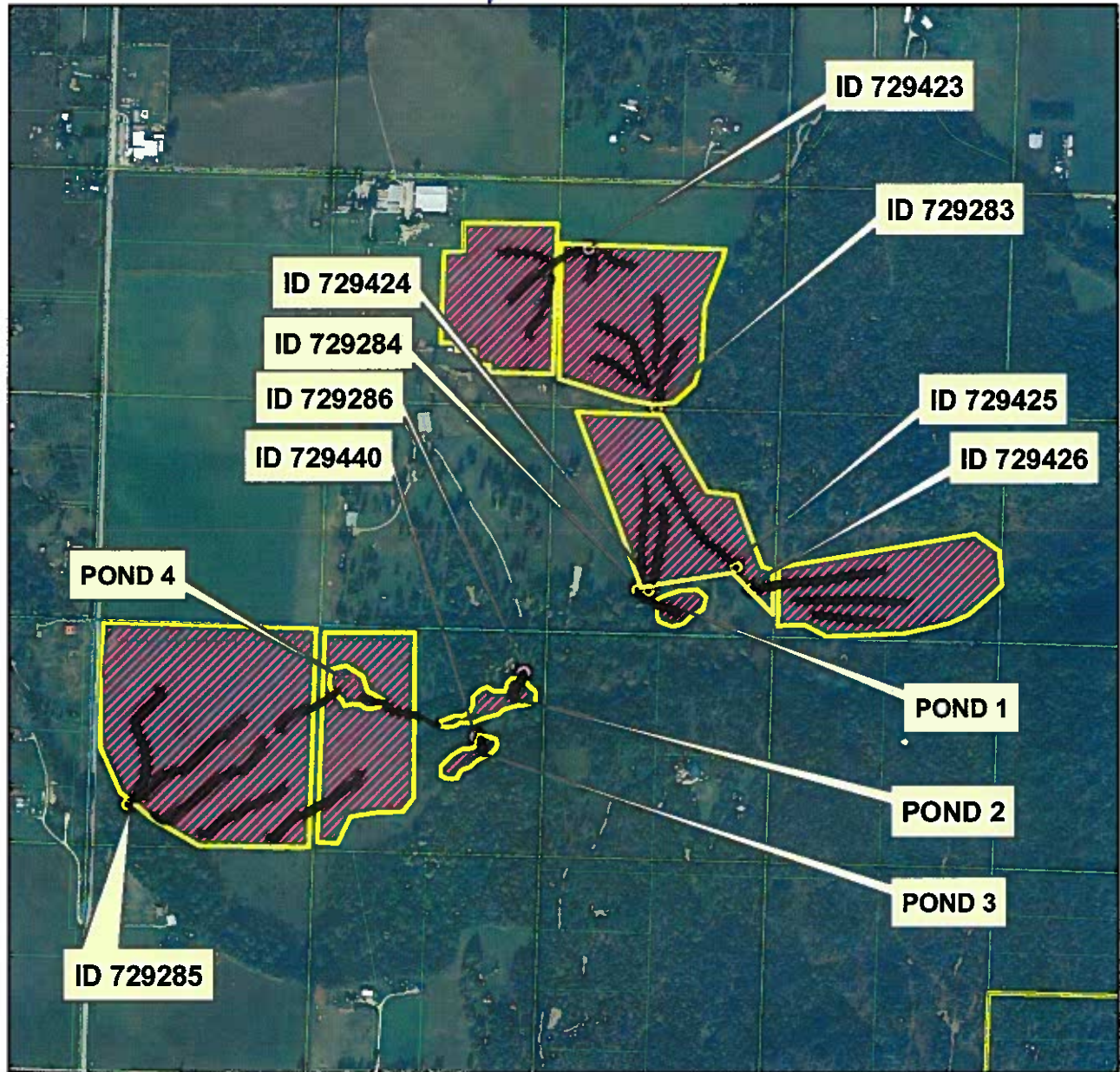
- ⊙ Right POD
-  Right POU

0 410 820 1,640 2,460 3,280 Feet



SYSTEM

96-9085



Legend

- ⊙ Right POD
- ▨ Right POU

0 410 820 1,640 2,460 3,280 Feet





ID 729285.JPG



ID 729283.JPG



ID 729423.JPG



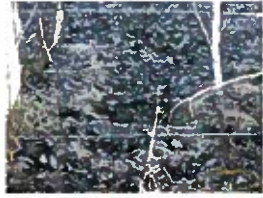
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