

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9048

Exam Date: 8/13/2007

1. Current Owner: BRAD HAGADONE
2731 W HORNED OWL RD
COEUR D ALENE ID 83814
(208)667-3431

2. Accompanied by: TRAVIS CURTIS

Phone No: 208-659-3192

Address: SAME AS ABOVE

Relationship to Permit Holder: EMPLOYEE

3. SOURCE

COEUR D ALENE LAKE

TRIBUTARY

SPOKANE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

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

COEUR D ALENE LAKE

L4 SW1/4SE1/4

Sec. 22, Twp 50N, Rge 04W, B.M.

KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: DIVERSION TO STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
50N	04W	22												X					

PLACE OF USE: IRRIGATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
50N	04W	22												X					

PLACE OF USE: IRRIGATION FROM STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
50N 04W 22	<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>	12.5
											2.5	10.0					
50N 04W 27																	.6

Total Acres: 13.1

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
50N 04W 22	<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>	12.5
											2.5	10.0					
50N 04W 27																	.6

Total Acres: 13.1

PLACE OF USE: RECREATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
50N 04W 22	<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>	
												X					

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>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*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:

5 gallons in 5 seconds

60gpm

E. FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 13.1 \times 3 = 39.3 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .13 \times 246 \times 1.9835 = 63.4$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 39.3 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\begin{array}{r} \text{Irr Storage} \quad 39.3 \\ + 12.0 \text{ evap \& seep} \\ + 1.3 \text{ refill} \\ \hline 52.6 \text{ AF} \end{array}$$

$$\begin{array}{r} \text{Rec Storage} \quad 1.3 \\ + 12.0 \text{ evap \& seep} \\ \hline 13.3 \text{ AF} \end{array}$$

$$\begin{array}{r} \text{Pond } .19 \text{ acres} \\ \times 7 \text{ ft deep} \\ \hline 1.3 \text{ AF} \end{array}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM PULLS WATER FROM LAKE COEUR D'ALENE FOR STORAGE AND IRRIGATION. WATER IS PUMPED FROM THE LAKE AT 60 GPM MAX INTO A POND. THE POND HAS A FLOAT VALVE THE TURNS ON AND OFF THE PUMP AS THE LEVEL OF THE POND GOES UP AND DOWN. WATER IS PULLED OUT OF THE POND FOR THE IRRIGATION OF 13.1 ACRES. THE POND COVERS .19 ACRES AND IS 7 FT DEEP.

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>
DIVERSION TO STORAGE	03/15 to 11/15	0.130 CFS	
IRRIGATION STORAGE	03/15 to 11/15		52.60 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		39.30 AF
IRRIGATION	03/15 to 11/15	0.130 CFS	39.30 AF
RECREATION STORAGE	01/01 to 12/31		13.30 AF
<u>Totals:</u>		0.130 CFS	52.60 AF

2. Recommended Amendments

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

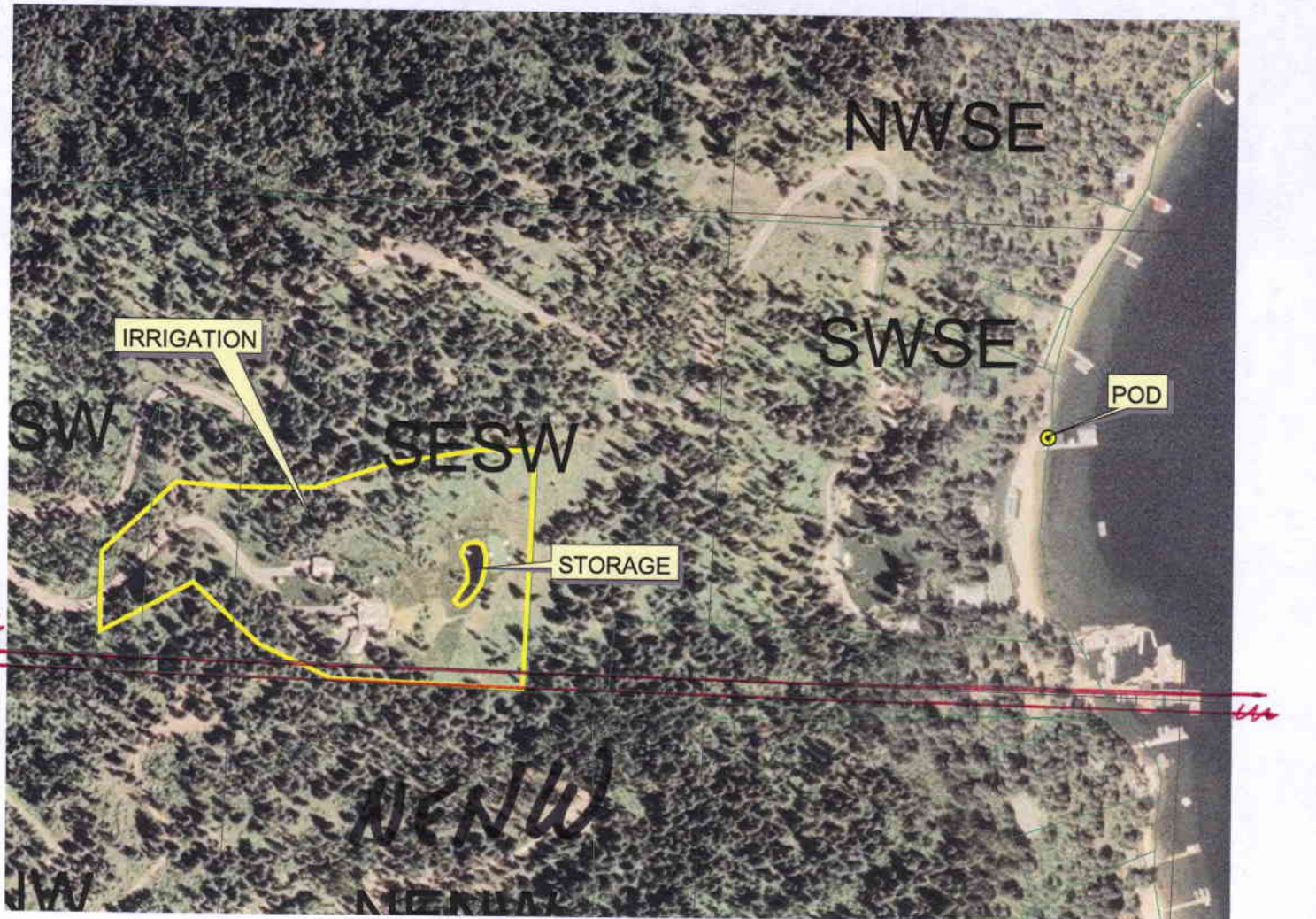
☒ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name [Signature] Date 9-27-07

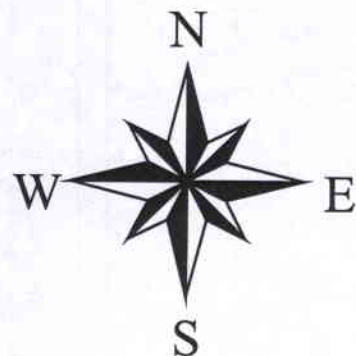
Reviewer [Signature] Date 10/29/07

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Sec 28 T 50N R 4W

- Kootenai taxlots
- GCDB50N04W GCDB
- Right POD
- Pou.shp
- Pod.shp
- Administrative BasinsAdminbas.shp





DRAIN FOR SYSTEM



IRRIGATION RUNNING



PLACE OF USE 1



PLACE OF USE 2



PLACE OF USE 3



PLACE OF USE 4



PLACE OF USE 5



PLACE OF USE 6



PLACE OF USE 7



POINT OF DIVERSION 1



POINT OF DIVERSION 2



PUMP IN WATER



STORAGE OF LESS THAN
1 DAY USE

95-9048



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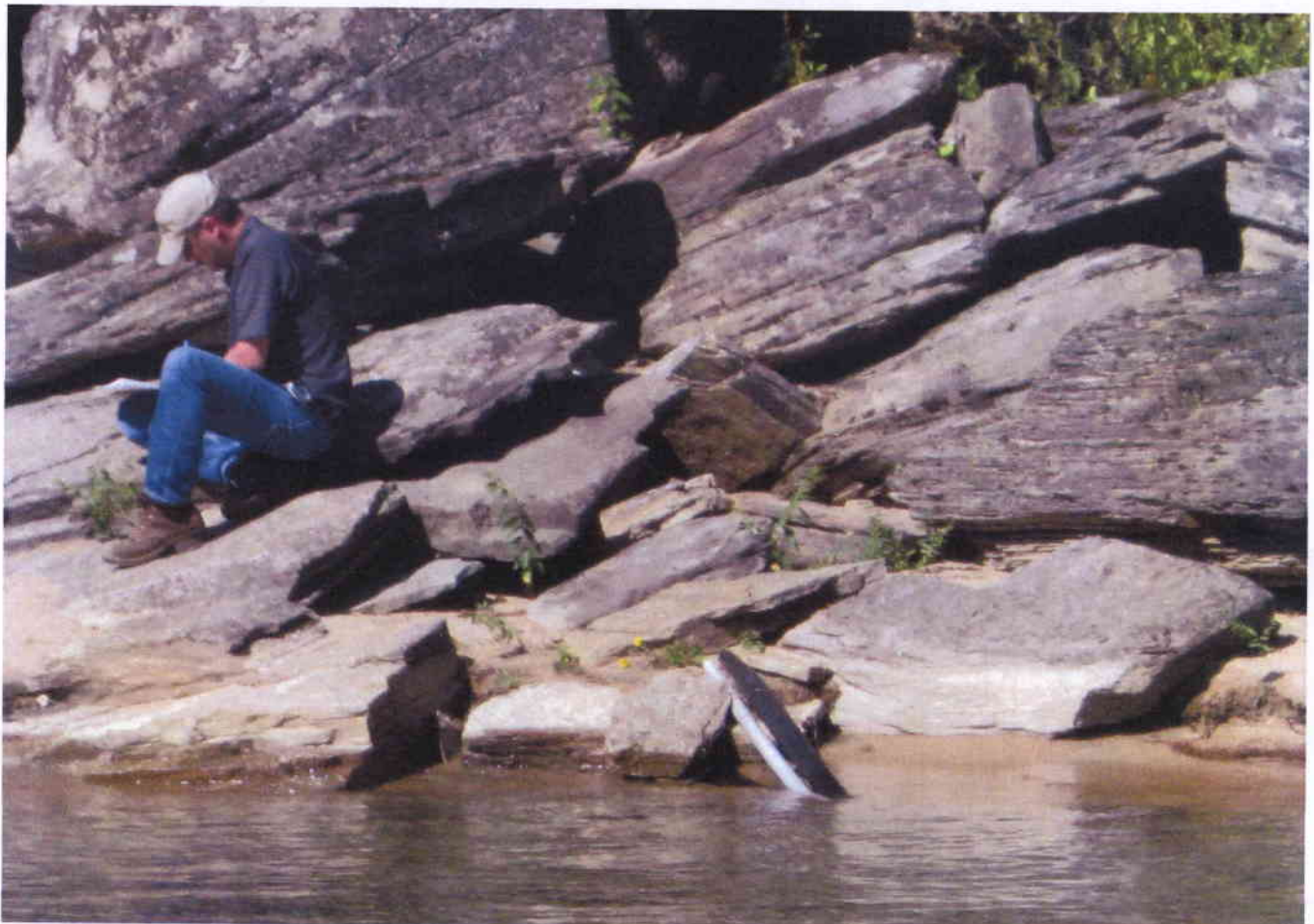
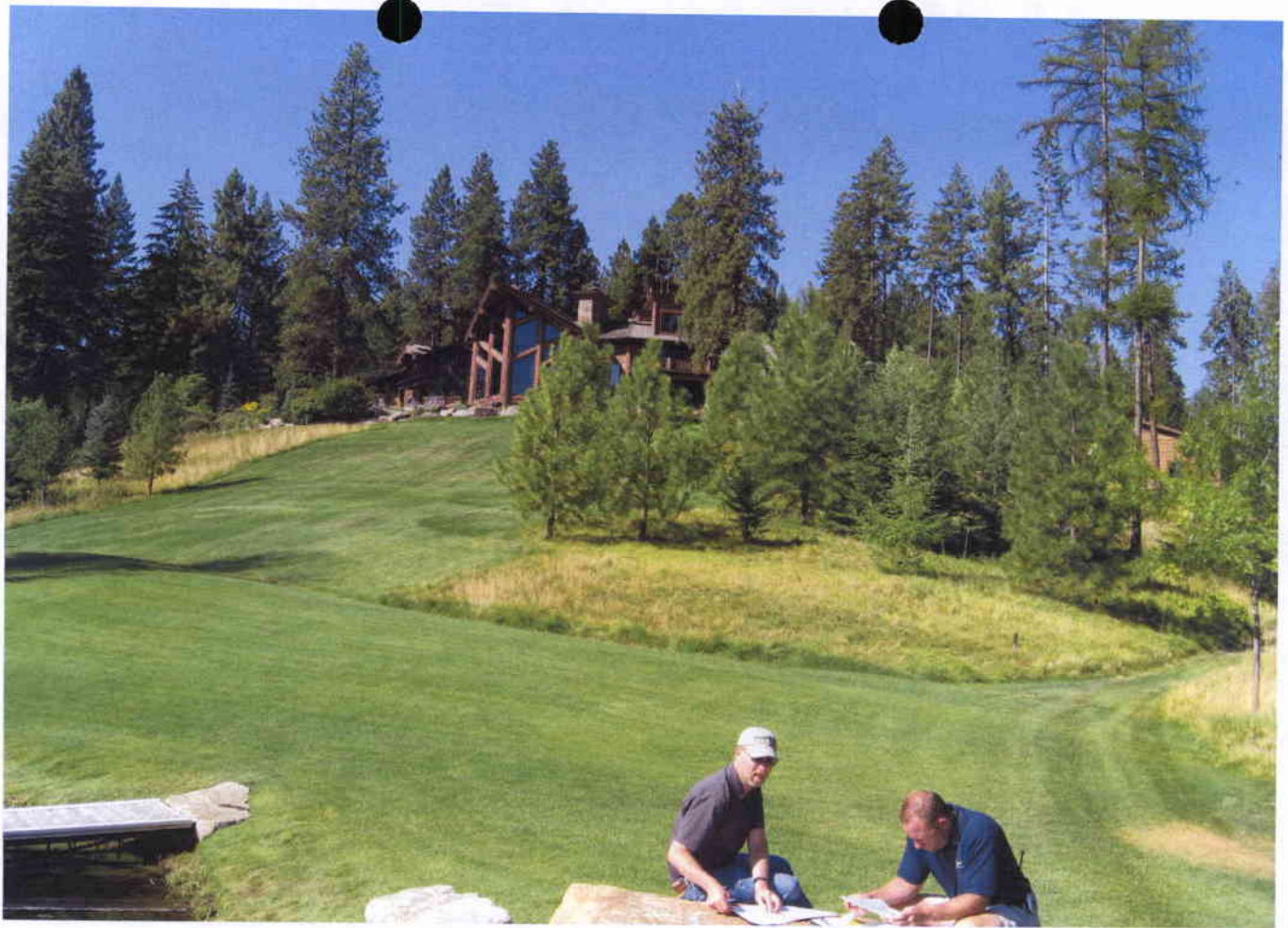
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