

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9247

Exam Date: 5/20/2008

1. Current Owner: DOVER BAY DEVELOPMENT INC
120 E LAKE ST
STE 101
SANDPOINT ID 83864
(208)263-3083
2. Accompanied by: Dave Bangle
Phone No: 208-263-0536
Address: PO BOX 2168 SANDPOINT, ID 83864
Relationship to Permit Holder: SANDPOINT PUMP & POWER
3. SOURCE TRIBUTARY
PEND OREILLE RIVER COLUMBIA 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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

PEND OREILLE RIVER L1 NE1/4SE1/4 Sec. 31, Twp 57N, Rge 02W, B.M.
BONNER County

Method of Determination: GPS W116° 36,50.6 N 48°14,38.2

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N 02W 31	20.0	20.0	5.0	10.0	20.0	20.0		2.0					2.0				99.0
			L 2	L 1	L 3	L 4		L 3					L 1				
57N 02W 32						20.0	20.0	20.0									60.0
							L 3	L 2									

Total Acres: 159

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
GPs	✓	50	✓	Barkley	750 gpm
GPs	✓	50	✓	Barkley	750 gpm

*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:

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Flow calculations from 2 Pumps that are same size and make.

PUMP EQUATIONS WATER RIGHT						
No.			96-9247			
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	50	238.7755102	0.8	100	60
Q =	1.477 cfs 662.7 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 159 \text{ ac} \times 3 = 477 \text{ AF}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 477 \text{ AF}$$

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>
IRRIGATION	04/01 to 10/31	2.000 CFS	477.00 AF
<u>Totals:</u>		2.000 CFS	477.00 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

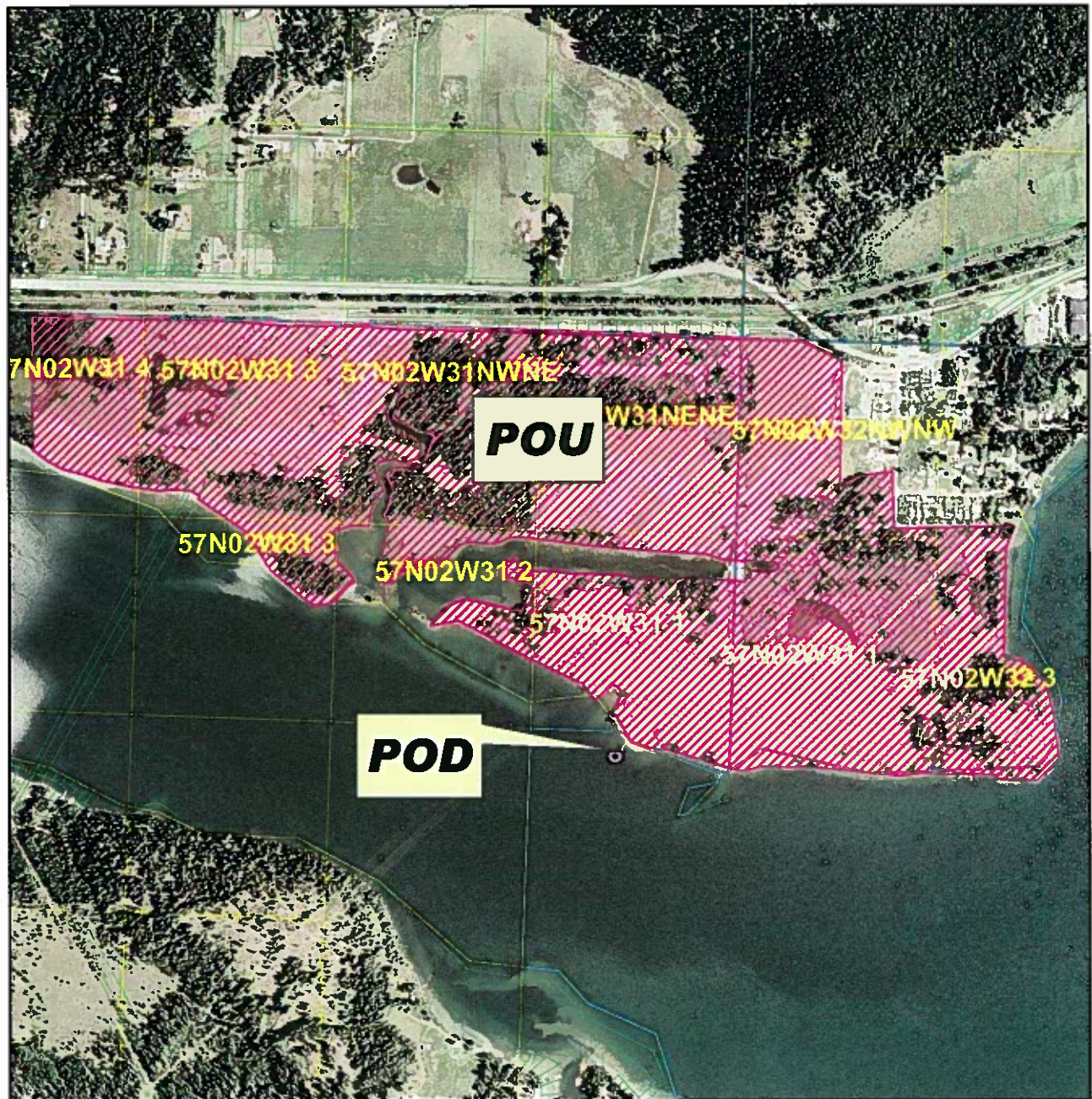
Date

Reviewer

Date

Eric J. Davis 6-18-2008
[Signature] 7/1/8

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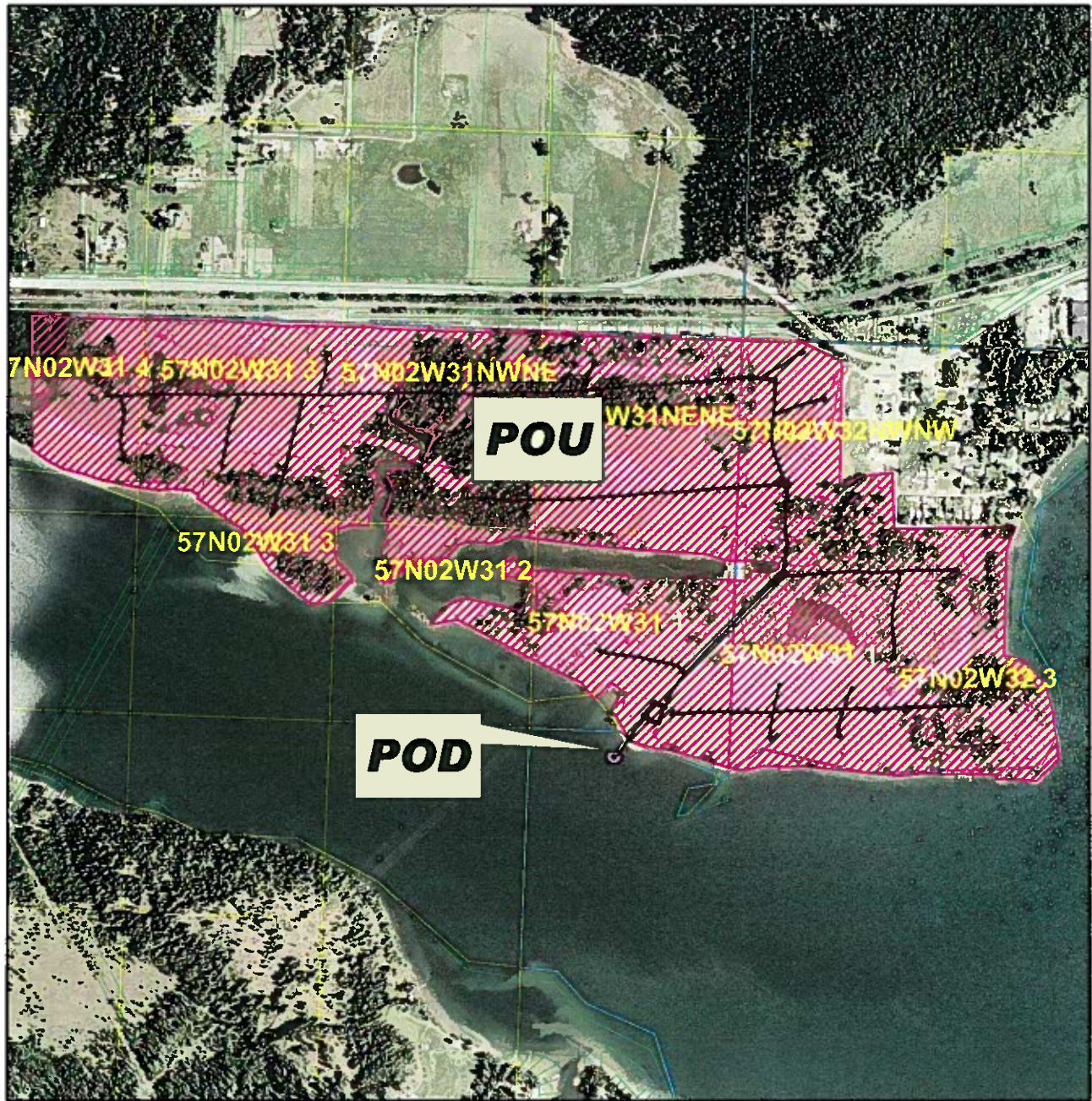
Legend

- QQ
- Right POD
- Taxlots
- Township/Range
- Sections



0 385 770 1,540 2,310 3,080 Feet

DELIVERY SYSTEM



Legend

- QQ
- Right POD
- Taxlots
- Township/Range
- Sections



0 385 770 1,540 2,310 3,080 Feet



POU.JPG



POD.JPG



FLOW METER.JPG



TAG.JPG



PUMPS.JPG



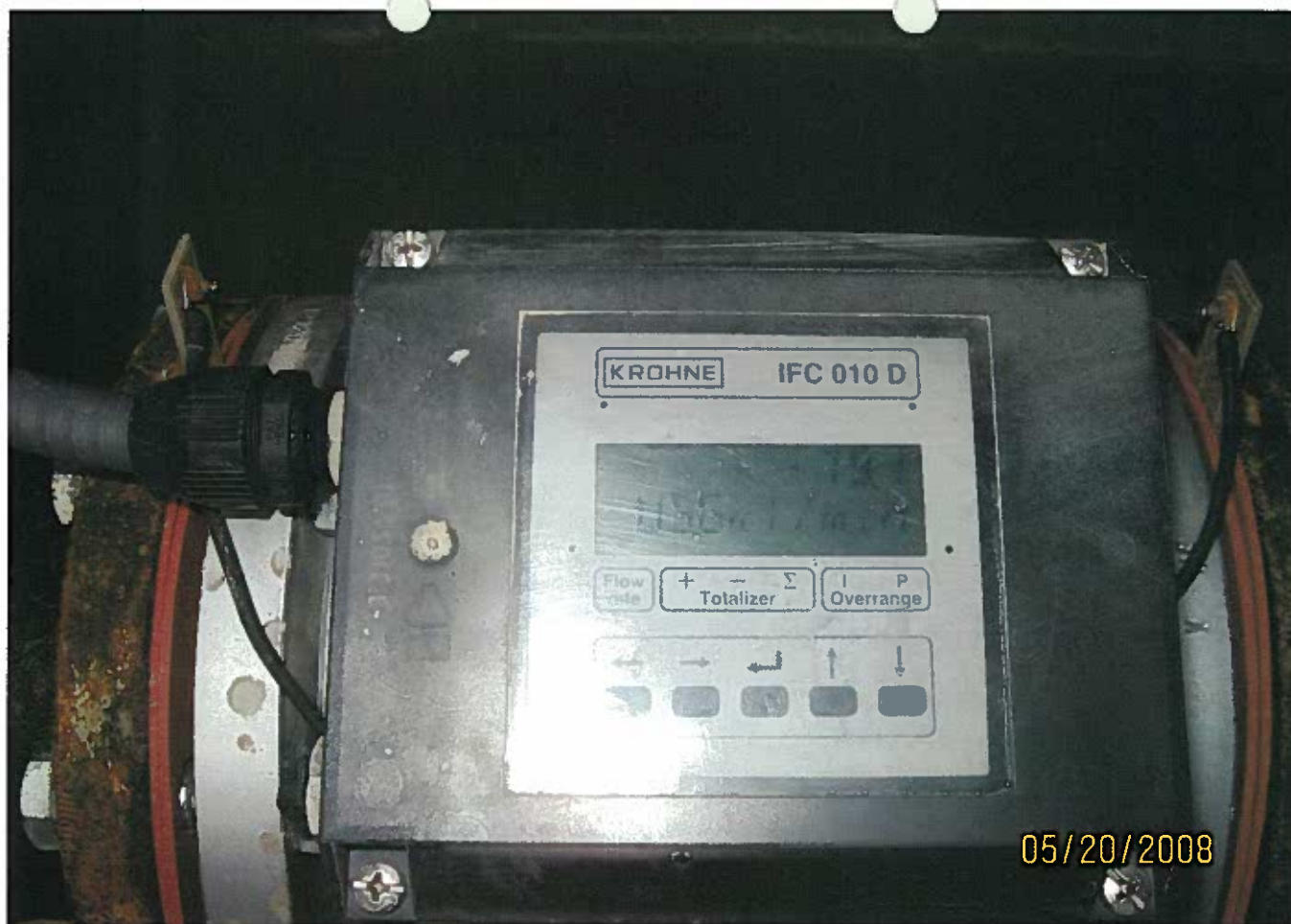
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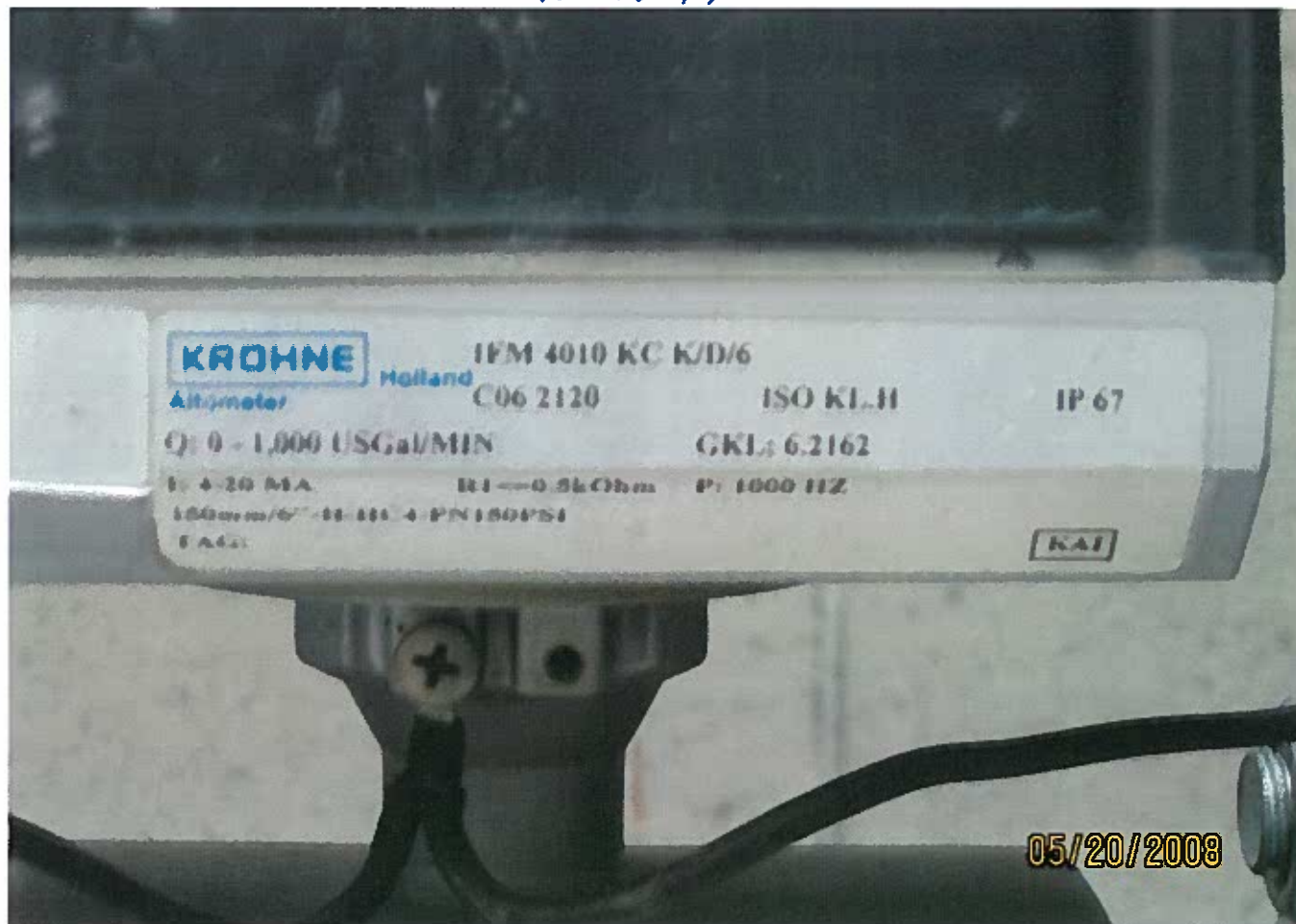


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