

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-8834

Exam Date: 8/27/2007

1. Current Owner: COVEHAVEN OWNERS ASSN INC
C/O JAMES R ALLEN
4343 GREY STONE LN
SPOKANE WA 99223

2. Accompanied by: *Mr. ~~Allen~~ Dave Allen*
Phone No: *(509) 332.7526*
Address: *256 NW Sunrise DR, Pullman, WA 99163*
Relationship to Permit Holder: *Brother*

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: *95-8517, 95-8209*
2. Other water rights with the same point of diversion: *NONE*

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

GROUND WATER L1 NE1/4NE1/4, Sec. 11, Twp 47N, Rge 04W, B.M. KOOTENAI County
GROUND WATER L1 NE1/4NE1/4, Sec. 11, Twp 47N, Rge 04W, B.M. KOOTENAI County
GROUND WATER L1 NE1/4NE1/4, Sec. 11, Twp 47N, Rge 04W, B.M. KOOTENAI County

Method of Determination:

Garmin GPS, USGS Harrison 7.5' Quadrangle (64)

2.

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
47N	04W	11	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
			10.4			4.8													15.0
			L 1			L 3													

Total Acres: *15*

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

95-8834

4.

Well or Diversion		Motor Make		Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
ID No.*							
well 1	E0005703	~~Unknown~~	Franklin	3	Unknown	Unknown	Unknown (156PM capacity)
well 2	E0005702	Franklin		3	Unknown	Performance	Model 10530-34
well 3	E0005701	Franklin		1.5	"	Performance	Model 16515-14

*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
Flowmeter	Analog	N/A	N/A	N/A	N/A	Unknown

2. Measurements: Analog Flowmeter readings (Gallons Per Minute converted to Cubic Feet per second)

Well 1	.0267 CFS
2	.0445 CFS
3	.0445 CFS
	<u>.1157 CFS</u>

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

PUMP	EQUATION	WATER RIGHT 95-8834	Well 1	DEQ E0005703	Drilled 1993	Deepened 1994, 1996
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	3	241.8231	0.7	184	25
Q =		0.077 cfs				= .08 CFS

PUMP	EQUATION	WATER RIGHT 95-8834	Well 2	DEQ E0005702	IDWR D0003327	Drilled 10/18/1997
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	3	183.8231	0.7	126	25
Q =		0.101 cfs				= .10 CFS

PUMP	EQUATION	WATER RIGHT 95-8834	Well 3	DEQ E0005701	Drilled 7/27/97	System pressure in PSI
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	
Q =	HP*8.8*Eff/H	3	58.82313	0.7	1	25
Q =		0.157 cfs				= .16 CFS

RecapitulationMeter ReadingsTheoreticalWell 1 in 1994

well 1
well 2
well 3

.0267 CFS
.0445 CFS
.0445 CFS
.1157 CFS
95-8834

.08 CFS
.10 CFS
.16 CFS
.34 CFS

.13 CFS
.13 CFS

Permit 95-8834 Irrigation
& Domestic
.18 cfs
33 homes

Field Exam
& Municipal
.13 cfs
32 homes

Irrigation 32 x .6 = 19.2 AF
Domestic 32 x .6 = 19.2 AF
38.4 AF

G. NARRATIVE/REMARKS/COMMENTS

Two water rights may overlap Points of Use (POU) for 95-8834. License 95-8517 is currently held by a prior property developer for the Covehaven Owners Association property. 95-8517 calls for diversion from Lake Coeur d Alene to supply the same POU as this water right (95-8834). The reservoir used by 95-8517 is the same reservoir as currently used by 95-8834. There is currently no connection between the 95-8517 and 95-8834 water systems and water is not currently being diverted from Lake Coeur d Alene to supply 95-8517. The lake Coeur d Alene diversion infrastructure for 95-8517 was still in place during this Field Exam. 95-8209 is a diversion from springs by a property owner adjacent to Covehaven Owners Association to supply domestic and irrigation water. Water from 95-8209 was not being used on the 95-8834 POU during the 95-8834 exam.

30 completed homes were present during the August 2007 Field Exam. Two homes were under construction with two existing stub water connections present (Total 32 homes).

The current water system uses three wells that pump into two 20,000 gallon reservoirs. The wells are connected to the reservoirs by 1 1/4 inch Class 200 HDPE water lines. Two of the three wells have independent metering equipment. Flow from the third well can be determined by subtracting the production of the first two wells from the total volume produced. The reservoirs are covered by earth and are adjacent to the pump house.

Only one of the three wells (Well 1 - DEQ Tag E0005703) was drilled before the end of the development period on 12/1/96. This well was first drilled in 1993 and deepened in 1994 & 1996 with GPM falling each time. The Covehaven Owners Association President (Jim Allen) indicated that the Association had problems with reaching the necessary sustained production volume from its wells. Flowmeter readings from all of the Association wells totaled .1157 cfs (53.86 GPM) during the August 2007 Field Exam. This is approximately the same amount of water as indicated on the 1994 log for Well 1 (60+ GPM = .13cfs). Therefore .13 cfs is recommended for this License.

Have conditions of permit approval been met? ____ Yes ____ No

H. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
MUNICIPAL	01/01 to 12/31	0.130 CFS	38.40 AF
<u>Totals:</u>		0.130 CFS	38.40 AF

2. Recommended Amendments

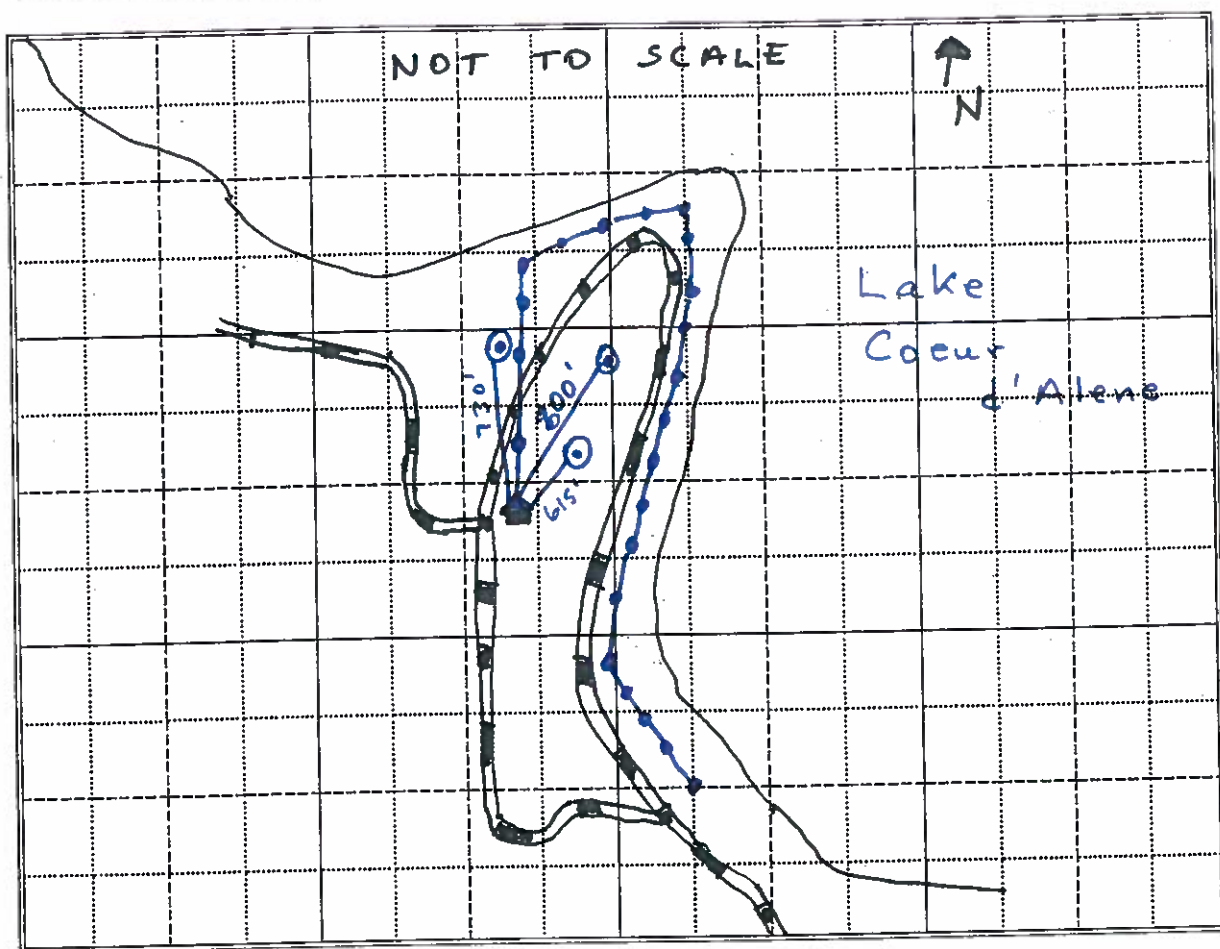
____ Change P.D. as reflected above ____ Add P.D. as reflected above ☒ None
____ Change P.U. as reflected above ____ Add P.U. as reflected above ☒ Other

I. AUTHENTICATION

Field Examiner's Name Sharon M. May Date April 4, 2008
Reviewer [Signature] Date 4/9/8

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



⊙ Well

— Well to Reservoir Water Line

- - - Water Distribution Line

⌚ Road

🏠 Pump House & Reservoir

~ Lake Coeur d'Alene Shoreline

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0.2 0 0.2 0.4 Miles

T 47N R 4W S 11

-  Kootenai taxlots
-  GCDB47N04W GCDB
-  Right POD
-  Place of use.shp



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95-8834 earth cover reservoir.JPG



95-8834 Lot map Part 1.JPG



95-8834 Lot map Part 2.JPG



95-8834 Pump house electrical.JPG



95-8834 Pumphouse & Earth Covered Res.JPG



95-8834 System log.JPG



95-8834 Control Box may be part of 95-8517 system.JPG



95-8834 Earth cover reservoirs next to pump ho...



95-8834 Pump Engineering Information.JPG



95-8834 Well 3 DEQ tag.JPG



95-8834 Unused pressure tank in Pump House (Part...



95-8834 Well 3 Analog Flow meter reading near start.JPG



95-8834 Lake Divert from dock.JPG



95-8834 Well 3 DEQ tag #2.JPG



95-8834 Well Production Records in Pump House.J...



95-8834 Lake Diversion Not part of permit.JPG

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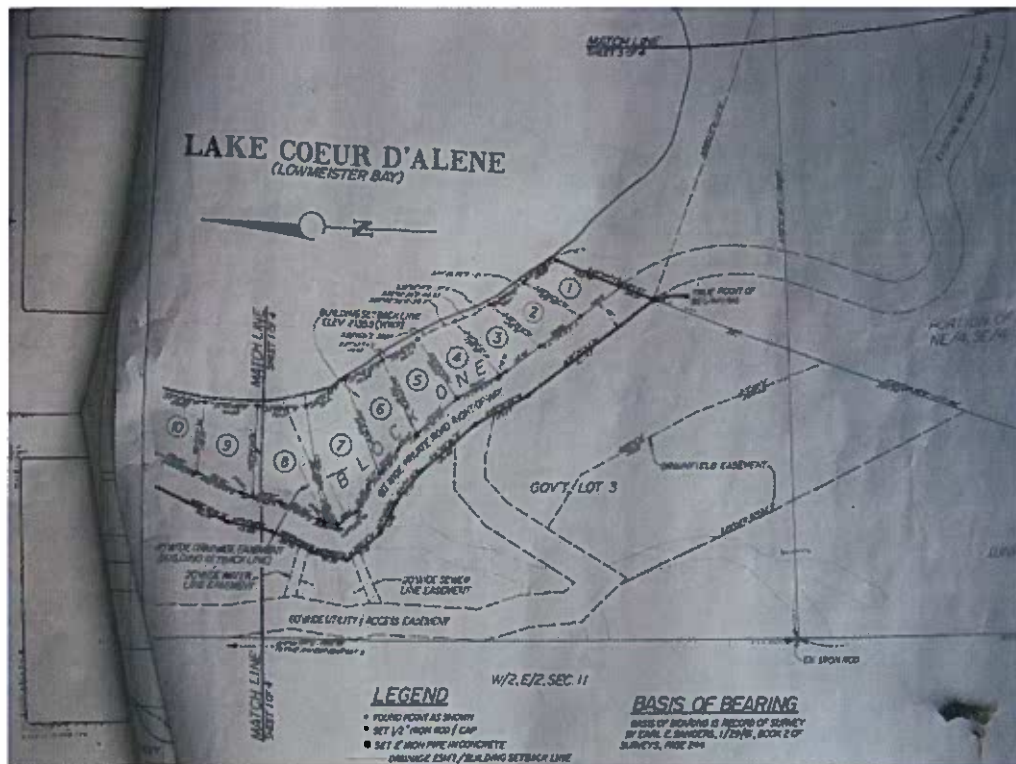


95-8834 Earth Cover reservoirs next to Pump house



95-8834 Lot Map Part I (Same lots for 95-8517)

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95-8834 Lot Map Part II (Same lots for 95-8517)



95-8834 Pump House Electrical

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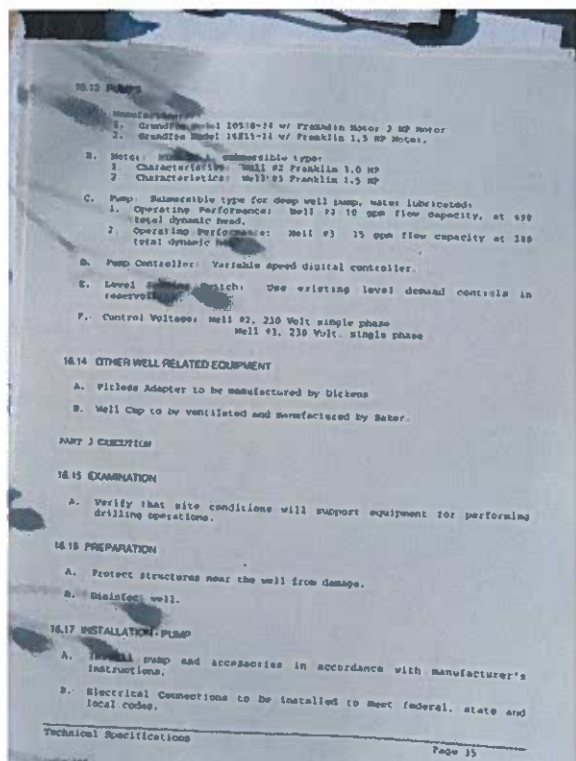


95-8834 Control box may Be part of 95-8517 System



95-8834 Earth cover reservoirs next to pump house

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95-8834 Pump engineering information



95-8834 Well 3 DEQ tag

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95-8834 Unused Pressure tank in Pump House (Part of 95-8517 System)



95-8834 Well 3 Analog Flow meter reading near start of Field Exam flow test

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License 95-8517 Delivery System from dock into Lake Coeur d'Alene



95-8834 Well 3 DEQ Tag

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