

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9251

Exam Date: ~~8/13/2007~~

8/10/2007

1. Current Owner: POST FALLS PONDEROSA WATER ASSN
609 S WINDSWEEP TRAIL
POST FALLS ID 83854
(208)777-4486
2. Accompanied by: R.E. Favreau
Phone No: (208) 777.4486
Address: 609 S Windswept Trail, Post Falls, ID 83854
Relationship to Permit Holder: PRESIDENT

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-7690, 95-2105 B
2. Other water rights with the same point of diversion: NONE

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

GROUND WATER L2 NE1/4NW1/4 Sec. 8, Twp 50N, Rge 05W, B.M., KOOTENAI County
GROUND WATER L2 NW1/4NW1/4 Sec. 8, Twp 50N, Rge 05W, B.M., KOOTENAI County

Method of Determination:

Garmin GPS Receiver

2. USGS Post Falls 7.5' Quadrangle

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	8		X			X							X					
							L 2							L 11					

IRRIGATION same as DOMESTIC

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

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4.

<u>Well or Diversion</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u>
<u>ID No.* 719429</u>					<u>Size</u>
~~714181~~	NA	2	NA	Red Jacket	Unknown. Submersible
~~714176~~	NA	2	NA	Unknown	Unknown. Submersible
714181					(DPP41312)

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
<u>Equipment</u>						
Rockwell	Flow Meter	NA	NA	NA	NA	Unknown
~~None~~	~~See~~	~~Flow Meter~~				

2. Measurements: 26.5 GPM on well 2 plus 45 GPM on well 1 = 71.5 GPM
 71.5 GPM = .16 CFS by reference to table.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

Method of Determination: Theoretical. See Below.

River Well (Well 1)	PUMP EQUATIONS	WATER RIGHT No. 95-9251			Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
			HP	H in feet			
Q =	HP*8.8*Eff/H		2	124.8231	0.75	67	25
Q =	0.106	CFS = .11 CFS					

Well 2	PUMP EQUATIONS	WATER RIGHT No. 95-9251					
			HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H		2	152.8231	0.75	95	25
Q =	0.087	CFS = .09 CFS					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.5 \times 3 = 13.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (.09) \times (246) \times (1.9835) = 43.91 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 13.5 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\text{Domestic } 9 \text{ Homes} \times .6 \text{ AF} = 5.4 \text{ AF}$$

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IRRIGATION 13.5 AF
 DOMESTIC 5.4 AF
 TOTAL 18.9 AF

G. NARRATIVE/REMARKS/COMMENTS

Two overlapping water rights appear to have Points of Use that cross into the Post Falls Ponderosa Water Association (PFPWA) boundary for this water right (95-9251). License 95-7690 is a groundwater diversion from near the Spokane River. No evidence of 95-7690 water use by PFPWA members was evident during the Field Exam. Documents in the 95-2105B file indicate that a place of use may exist on the stretch of ground between the PFPWA River Well (Well 1) and the Reservoir / Well 2. This area lies within the boundary of the PFPWA. No use of 95-2105 water was observed in this area and the piece of ground is now owned by a PFPWA officer according to tax records.

The PFPWA water system is assigned Public Water Supply Number ID1280145. The system uses two wells. Well One was drilled in the 1980s, has an eight inch casing, and is located on the South side of the Spokane River and West of Post Falls. The well is on a narrow stretch of level ground next to the River with a steep bluff and rising ground to the South. The well is approximately 60 feet from the Spokane River bank. No IDWR well log is available for this well. The well is surrounded by a chain link fence. A water line runs approximately 950 feet from this well to a 15,000 gallon reservoir located with Well 2.

Well water flow can be measured independently for each well at the pump house next to the reservoir and Well 2. Theoretical calculations from a Department of Environmental Quality report and the Well Driller log for Well 2, are used for this Field Exam. Theoretical information is used because of the distance of Well 1 from the reservoir, the amount of elevation change required to reach the measuring equipment for Well 1 in the pump house, and the availability of a well log for Well 2.

Well 2, is located next to the 15,000 gallon, partially buried, reservoir at the junction of Madison Road (Private) and Windswept Trail Road (Private). This well was drilled in 2006 before the end of the development period.

Two five HP submersible pumps are used to withdraw water from the reservoir and to distribute it via PVC lines. The Field report, DEQ information, and information from PFPWA indicate the lines are not looped and that there are nine homes connected to the system. Water is distributed via two lines leading out from the reservoir. 625 feet of two-foot diameter pipe, 1,350 feet of three-inch diameter pipe and 75 feet of 4 inch PVC 160 pipe are used. *Amendment was required to add well 2 as P.O.U.*

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>
DOMESTIC	01/01 to 12/31	0.110 CFS	5.40 AF
IRRIGATION	03/15 to 11/15	0.090 CFS	13.50 AF
<u>Totals:</u>		0.200 CFS	18.90 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

Shawn M. Miley

Date

4/21/08

Reviewer

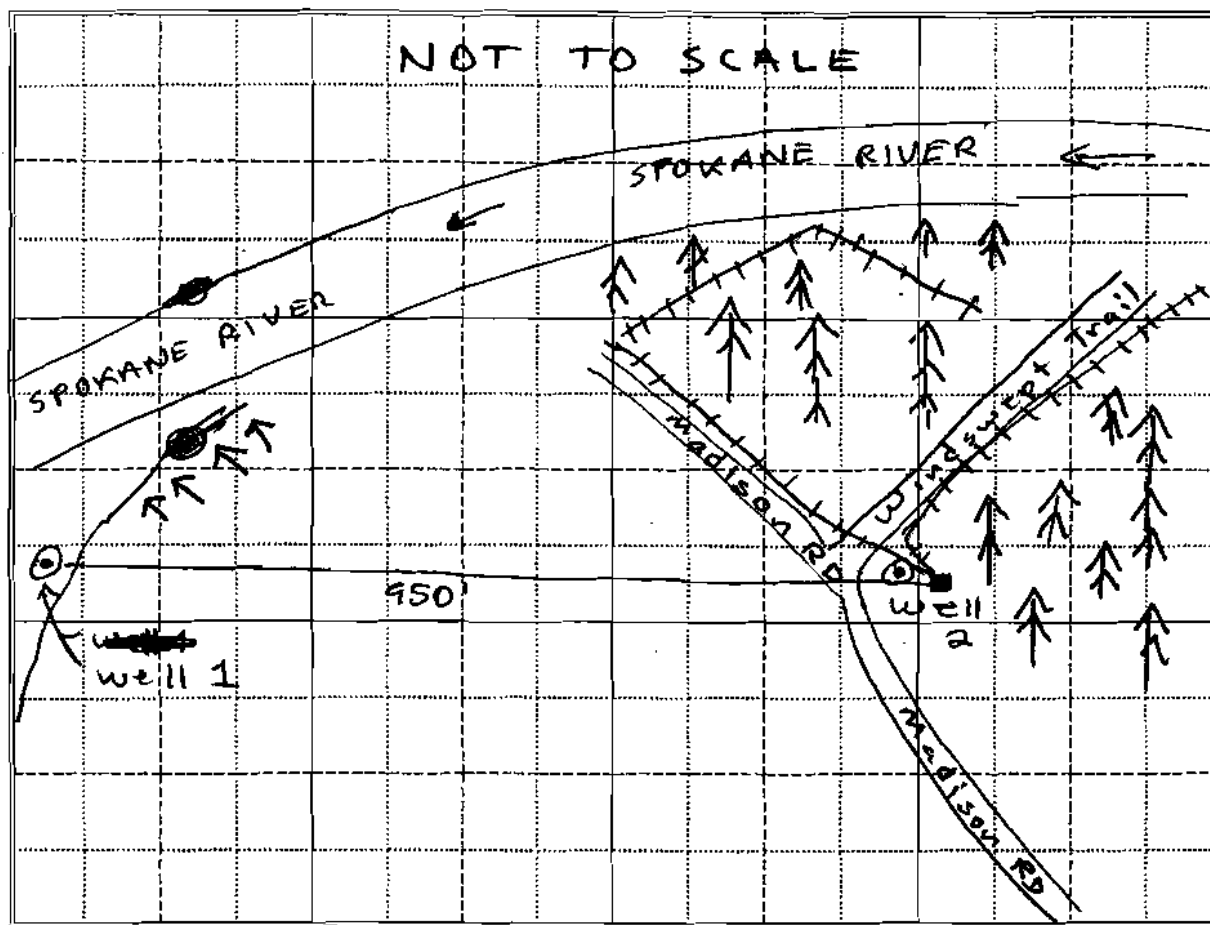
[Signature]

Date

4/21/08

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



LEGEND

○ Well

— Water Line to Reservoir

++ Water Distribution Line

← Spokane River

xxx Road

↑↑ Forest

/K Bluff / Steep Slope

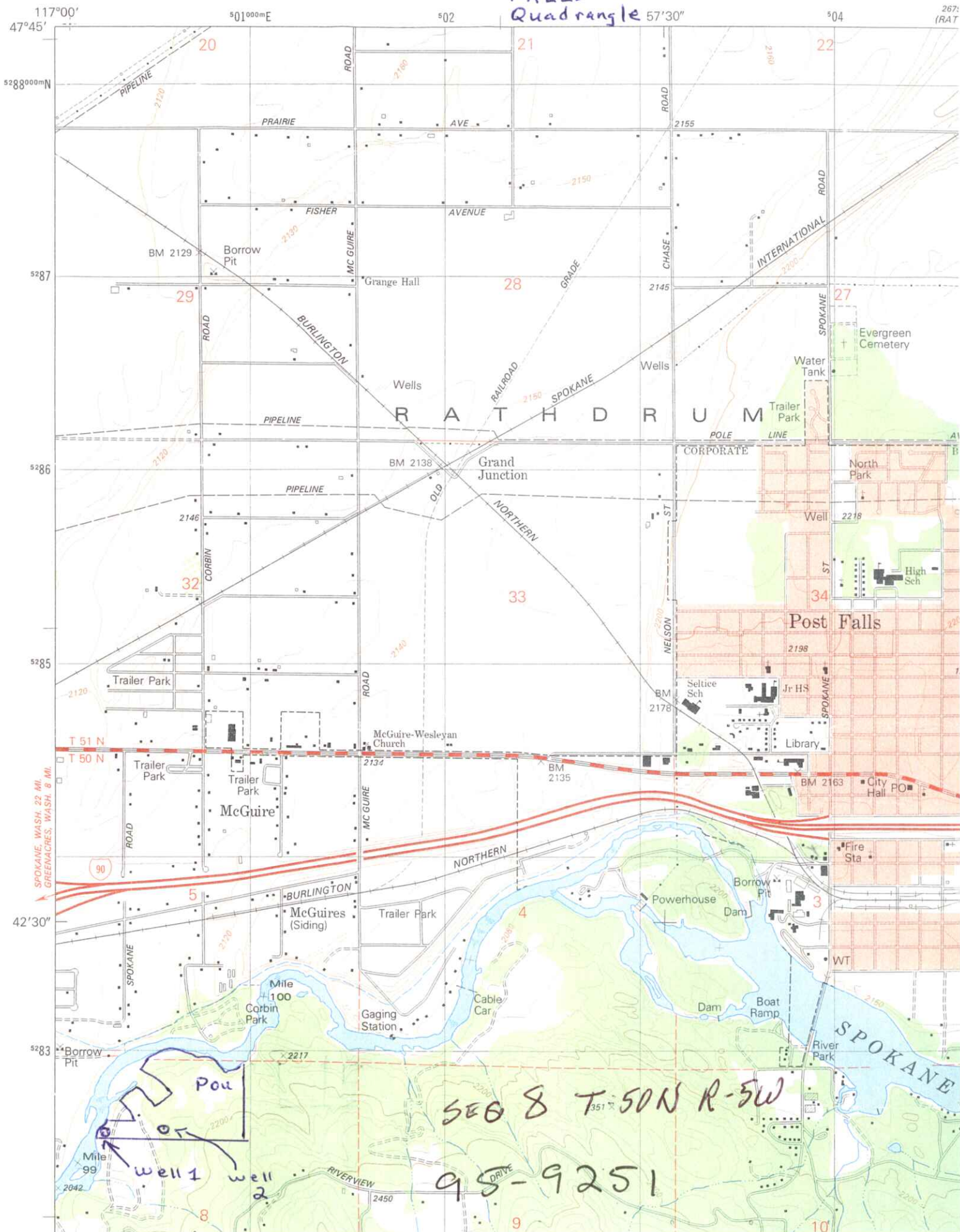
■ Pumphouse / Reservoir

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191 SE
MAIN LAKE

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURV

POST 7.5'
FALLS
Quadrangle 57'30"



SEG 8 T-50N R-5W

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well 1
well 2

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0.1 0 0.1 0.2 Miles

-  Kootenai taxlots
-  GCDB50N05W GCDB
-  Right POD
-  Place of use.shp

SEC 8 T-50N R3W^N



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95-9251 Well 1 (River well)



95-9251 Well 1(River Well) with Spokane River flowing R to L. View to North

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95-9251 Well 2 Behind Pump House



95-9251 Pump House & Partially Buried Reservoir

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95-9251 Electrical Boxes in Pump House



95-9251 Pressure Tanks in Pump House

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