

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-8777

Exam Date: 9/25/2008

1. Current Owner: MOUNTAIN SPRINGS WATER CORPORATION
PO BOX 33
SANDPOINT ID 83864

GERALD H LEWIS
PO BOX 33
SANDPOINT ID 83664-0033
(208)263-4148

PATRICIA LEWIS
PO BOX 33
SANDPOINT ID 83864-0033
(208)263-4148

2. Accompanied by: Gerald Lewis

Phone No: Same

Address: Same

Relationship to Permit Holder: Owner, Pres

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: *96-8667*
2. Other water rights with the same point of diversion: *96-8667*

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	NE1/4NE1/4SE1/4	Sec. 2,	Twp 56N,	Rge 02W, B.M.
BONNER County				
GROUND WATER	NE1/4NE1/4SE1/4	Sec. 2,	Twp 56N,	Rge 02W, B.M.
BONNER County				
GROUND WATER	NE1/4NE1/4SE1/4	Sec. 2,	Twp 56N,	Rge 02W, B.M.
BONNER County				

Method of Determination: MAP

2.

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</u> <u>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</u> <u>Size</u>
Well # 1		5	40550-15	Grundfos	
Well # 2		7.5	21750T-18	A.Y. McDonald	
Well # 3		40	4755	Grundfos	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>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:

Reservoir 78,000 gal w/ gravity Flow to system

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

PUMP EQUATIONS		WELL #1		(96-86-67)	
WATER RIGHT No.		96-8667			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	5	193.6463	0.7	78	50
Q = 0.159 cfs 71.5 gpm					

PUMP EQUATIONS		WELL # 2		(96-93-N-008-000)	
WATER RIGHT No.		96-8667			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	7.5	196.6463	0.7	81	50
Q = 0.235 cfs 105.6 gpm					

PUMP EQUATIONS		WELL #3 (DOO10076)		96-94-N-229	
WATER RIGHT No.		94-7367			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	40	177.6463	0.7	62	50
Q = 1.389 cfs 623.5 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 101.4 \text{ ac} \times 3 \text{ AF} = 331.2 \text{ AF}$$

$$V_{O.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.56 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 770.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{O.R.} = 331.2 \text{ AF}$$

2. Volume Calculations for Other Uses: Irrigation is 1 ac per home that = 135 ac X 3 AF = 405 AF, Domestic 135 homes X 0.6 AF = 81 AF, Stockwater = 0.4 AF. This is the volume for Municipal that totals 486.4 AF

Municipal = 486.4 AF

Irrigation volume for 110.4 ac farm land is 331.2 AF

The total volume for this water right is 817.6 AF

G. NARRATIVE/REMARKS/COMMENTS: The permit was assigned to Mountain Springs Water Corporation from Gerald Lewis owner of permit. This water right needs to be amended to Municipal use.

The 3 wells are the same POD for water right 96-8667

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	03/15 to 11/15	1.000 CFS	331.20 AF
MUNICIPAL	01/01 to 12/31	1.580 CFS	486.40 AF
<u>Totals:</u>		1.580 CFS	817.60 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

Eric R. Davis

Date

1-15-2009

Reviewer

[Signature]

Date

1-16-9



WELL # 3.JPG



RESERVOIR.JPG



SAMPLE HOME.JPG



WELL # 1.JPG



WELL # 2.JPG

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