

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8782

Exam Date: 7/18/2008

1. Current Owner: JEFFERY R JAYO
980 HILLSIDE DR
HAGERMAN ID 83332
(208)837-6564

2. Accompanied by: Mr. Jayo

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

WASTE WATER

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Multiple Big Spring Water Users Assn & North Side Canal Co rights.
2. Other water rights with the same point of diversion:

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

WASTE WATER SW1/4SW1/4 Sec. 13, Twp 07S, Rge 13E, B.M. GOODING County

Method of Determination: Site Visit

2.

PLACE OF USE: STOCKWATER STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	13E	13												X					

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	
07S	13E	13												X					

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	13E	13												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.

Well or Diversion

<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No.</u>	<u>Size</u>
Spatial ID#						
<u>394736</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>8 inch pvc</u>

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
<u>THEORETICAL</u>						

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

See 12/10/08 rate memo of Manning calculations. Note that this is an estimate. Licensed flow will be 0.02cfs as permitted. Observed rate was greater than 0.02cfs.

F. VOLUME CALCULATIONS1. Volume Calculations for Irrigation: *N/A*

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

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

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

2. Volume Calculations for Other Uses:

DOMESTIC:

0.6 AF

STOCKWATER:

0.2 AF

AESTHETIC:

$$\text{SURFACE AREA} \rightarrow \frac{26' (63')}{43,560} = 0.04 \text{ ACRES}$$

$$\text{CAPACITY} \rightarrow 0.04 (4.5' \text{ DEPTH}) = 0.2 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

License is for the domestic and stockwater/aesthetic storage of wastewater outside of Hagerman. Point of diversion and place of use is in the SWSW of Section 13 T07S R13E Boise Meridian. Water comes from the Big Springs overflow/vent located just east of Mr. Jayos property and is then channeled into an 8 inch underground pipeline running roughly 275 meters to where it enters a small pond. Direct measurement of the flow entering the underground pipe was not feasible. Using Mannings Equation calculator for circular conduit flow rate is estimated at 0.6 cfs. See 12/10/08 rate calculation memo in file for more detail on how rate was estimated. Rate will be limited to 0.02 cfs by permit.

Water is pumped by a small 2hp Gould from the pond to sprinklers irrigating a small pasture for stock and also to sprinkle various other small areas of lawn. Stock drink from the pond and a small ditch that runs from the pond and off the property. Stock were not present during the field examination however coral structures, gates and other required implements were in place and appeared to be used extensively. I am recommending the permitted amount of 0.2 af for stockwater. 0.6 af recommended for domestic.

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>
STOCKWATER STORAGE	1/01 to 12/31		0.2 AF
DOMESTIC	4/01 to 10/31	0.02 cfs	0.6 AF
AESTHETIC STORAGE	1/01 to 12/31		0.2 AF
<u>Totals:</u>		0.02 cfs	0.8 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 Nick Van Dyke Date 7/18/08

Reviewer Nick Van Dyke Date 12/10/08



0 50 100 200 300 Meters

2004 Imagery

Legend

- - - pipeline
- ◆ diversion_point
- pond
- domestic_pou
- Sections
- QQ

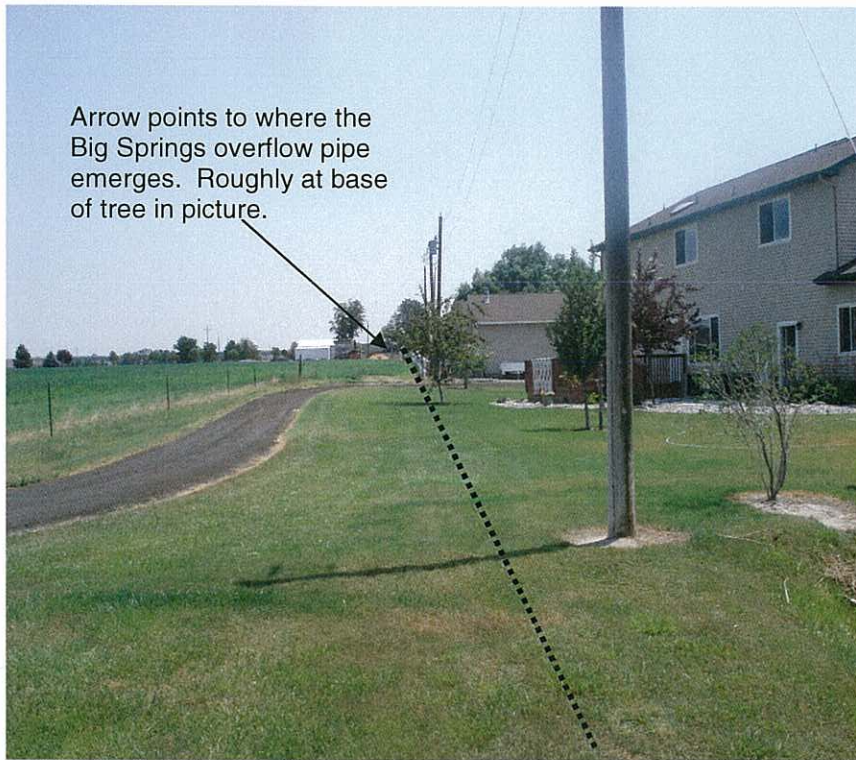
Map Created By:
Nick Van Dyke
9/26/08



- Point where waste water enters pond thru underground pipeline.



- Side view of where water enters the pond. The bare ground in the foreground is where the 2hp pump normally sits. I estimated the lift from the average water line to where it would enter the pump at about 5 feet.



Arrow points to where the Big Springs overflow pipe emerges. Roughly at base of tree in picture.

- Looking easterly from the NW corner of the property towards the point of diversion roughly 275 meters east.



- Pond measures out to roughly a 1/2 acre in surface area.



- Picture on left is a view of where applicant keeps stock. At right is the west edge of the property where cattle can drink from the rear edge of the pond. Water eventually drains off the property when there is sufficient flows coming from the Big Springs overflow pipe.



- Left is where water enters the under ground pipeline. At right is the hand lines used to irrigate the roughly 1/2 acre where the stock are kept. Water is pumped by regular garden hose lines directly to the 3 inch metal lines thru fashioned apparatuses (circled below).





- BIG SPRINGS OVER FLOW PIPE