

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12405

Exam Date: 9/21/2012

1. Current Owner: CHARLES BOOS
4901 STAMM LN
NAMPA ID 83687
(208)466-8390
2. Accompanied by: David Corisis
Phone No:
Address:
Relationship to Permit Holder: one of the water users. Mr. Boos out of town.

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NMID surface water used for irrigation.
2. Other water rights with the same point of diversion: none

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L4 SW1/4SW1/4 Sec. 18, Twp 03N, Rge 01W, B.M.
CANYON County

Method of Determination: GPS 43.59224, -116.51080

2. PLACE OF USE: DOMESTIC

TwpRge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N01W 18											X						
											L 4						

Method of Determination: aeriels

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. or Discharge Size</u>
well	[Harris] - gould_____	2_	__unknown__	__gould__	__unknown__
[no tag]	[Corisis] - gould_____	1_	__18gs10412__	__gould__	__unknown__
	[Boos] - gould_____	1_	__unknown__	__gould__	__unknown__

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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: none taken

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

[1] IDWR domestic use graph – 0.08 cfs for 3 homes, internal use.

[2] pipe diameter of a 1" pipe is 0.03 cfs. For the 2 pipes, system is capable of at least 0.09 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: not applicable

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

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

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

2. Volume Calculations for Other Uses:

domestic use – calculation is not necessary. Volume is established by permit condition that each house is limited to 13,000 gpd.

G. NARRATIVE/REMARKS/COMMENTS

The permit was issued for 0.08 cfs for internal domestic use for three homes in Nampa, Idaho. The correct fee was paid. The homes are owned by Charles Boos, David Corisis and Richard Harris. I was accompanied on the field exam by David Corisis. The well is on his property.

The well log is in the IDWR records. The well is 4 inches in diameter and 239 feet deep. No well tag was seen. Each home has its own Gould pump and motor. The Harris pump is a 2 hp set at 165 feet. The Corisis and Boos pumps are 1 hp, set at 127 feet and about 110 feet, respectively. The well is plumbed for both domestic and irrigation to the three homes but Mr. Corisis stated the users use surface water for irrigation. There is an irrigation canal that runs north and south along the east property boundaries of the three lots. Mr. Corisis stated that there is 6 inch buried plastic pipe that is plumbed to the sprinkler systems of the houses, although they could also flood irrigate the lots, if needed.

Mr. Corisis speculated that from each of the pumps in the well, the standard size plastic pipe, about 1.75 inch, delivered water to the houses. The quantity permitted is 0.08 cfs. According the IDWR reference sheet for pipe flows, the flow expected through a 1 inch pipe is 0.03 cfs, so this system produces at least 0.09 cfs through the three pumps and associated piping. The reference sheet does not include a flow for 1.75 inch diameter pipe. The graph that is the IDWR standard for domestic uses states that 0.08 is the flow needed for three houses.

Because each household has its own pump, a license will be issued to each of the households, according to the *IDWR ADMINISTRATOR'S MEMORANDUM/ MISC MEMORANDUM # 15, MULTIPLE PUMPS IN A SINGLE WELL FOR DOMESTIC PURPOSES*. I recommend the licenses be issued as follows:

63-12405	Richard Harris	0.04 cfs
63-33710	Corisis	0.02 cfs
63-33711	Boos	<u>0.02 cfs</u>
TOTAL		0.08 cfs

A volume is not needed because each license will be a IC 42-111 use and a condition will limit each house to 13,000 gpd. The three licenses will be in the permittee's, C Boos, name and Mr. Harris and Mr. Corisis will be advised to file a change of ownership for their rights.

Have conditions of permit approval been met? ☒ Yes ☐ No

Condition 071 should be modified for each license by deleting the last 2 words "per home".

Add F06 The following rights are diverted through point(s) of diversion described above: 63-12405, 63-33710 and 63-33711.

The domestic use condition should be replaced with:

WB5 Domestic use is for 1 home and does not include lawn, garden, landscape, or other types of irrigation.

H. RECOMMENDATIONS

1) Permit amount	<u>0.08</u> cfs
2) Beneficial use limit	<u>0.08</u> cfs
3) System measurement	<u>0.09</u> cfs
4) Proof fee amount	<u>0.20</u> cfs

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	0.080 CFS	
	<u>Totals:</u>	0.080 CFS	

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ___x___ None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name Way (M) C Date 9-28-12

Reviewer _____ Date _____



63-12405 -- Point of diversion, place of use and diagram of domestic system --
2011 BING PHOTOGRAPHY. Place of use outlined in blue.



Well adjacent to the private road off Stamm Lane. Well is on the Corisis lot, middle lot of the 3 lots served by this well.



Looking north from the end of the private road. The Harris house is seen front on right. Corisis house is in middle, then the Boos house.

