

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 81-11981

Exam Date: 10/2/2012

1. Current Owner: FRANK CAPITO
6237 HWY 12
KOOSKIA ID 83539
(208) 691-9933

2. Accompanied by: Frank Capito
Phone No: (208)691-9933
Address: same as above
Relationship to Permit Holder: self
Email: frankdebicapito@dishmail.net

3. **SOURCE**

MIDDLE FORK CLEARWATER RIVER

TRIBUTARY

CLEARWATER RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

MIDDLE FORK CLEARWATER RIVER L7 NW1/4SE1/4 Sec. 6, Twp 32N, Rge 05E, B.M. IDAHO County

Method of Determination: 2011 ArcMap Imagery, and Garmin GPS map 76S

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
32N 05E 6			1.5												3.9		5.4
			L 7												L 7		

Total Acres: 5.4

Method of Determination: 2011 ArcMap Imagery, and Garmin GPS map 76S

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
ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge
Size**

**No Tag ID, since at the time of the field examination, there was no pump in at the point of diversion (he sold it to a neighbor, and due to fighting fires in the area he did not have time to replace it until 11/2012; see pictures received on 12/10/2012 of the pump)

Century AC Motor

2Hp

243113M

unknown (looks like 2 inch, although it reduces to 1 ¼ inch main into the distribution system)

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

D. FLOW MEASUREMENTS**1. Measurements:**

At the time of the field examination, there was no pump in the river, since it was being replaced. For this reason, theoretical and conversion calculations are being used to calculate the capacity of the system:

Theoretical of the Pump:

$$(8.8 \times 2 \text{ Hp} \times 0.7 \text{ eff}) / [10 \text{ ft} + (40 \text{ psi} \times 2.31)] = 0.12 \text{ cfs}$$

Pipe Conversion for a 1 ¼ inch poly pipe.

$$Q = 5 \times 3.1416 \times r\text{-squared} \quad r\text{-squared} = 0.002712674$$

$$Q = 0.04 \text{ cfs}$$

Nozzle Conversion: (6) 1/8 inch nozzles run at 1 time at 40 psi

Using the U of I Nozzle Conversion Sheet, 1/8 inch nozzle at 40 psi = 2.96 gpm

$$(6 \times 2.96 \text{ gpm}) \times 0.00223 = 0.04 \text{ cfs}$$

RECOMMEND:

Since the pump shows what the capacity is capable of doing, it still falls back on the existing distribution system and nozzles that are being used to irrigate with at the time of the field examination. For this reason, it is recommended that the Total Diversion Rate = **0.04 cfs**

E. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{\text{I.R.}} = (5.4 \text{ Acres Irrigated}) \times (3.0 \text{ Irrigation Requirement}) = 16.2 \text{ af}$$

$$V_{\text{D.R.}} = [0.04 \text{ Diversion Rate (cfs)}] \times (246 \text{ Days in Irrigation season}) \times 1.9835 = 19.51 \text{ af}$$

$$V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = 16.2 \text{ af}$$

RECOMMEND: 16.2 af

F. NARRATIVE/REMARKS/COMMENTS

2 Hp Century serial No. 243113M, 1 phase 778 Jet Pump, 10 ft lift, unknown size discharge but the main is 1 1/4 inch to Gilmour 1/8 inch nozzles (6 run at 1 time at 40 psi). The pump is not in the water unless irrigating, since the pump has been stolen before, and in the early spring with high water levels, the pump would wash away. At the time of the field exam, Mr. Capito had been working numerous fires in the area, and had not been home for a few months. At the beginning of the season, he had sold his pump to a neighbor, and did not get it replaced until recently (see pictures received on 12/10/2012). So, at the time of the field examination, there was no pump, but the rest of the system was present. For this reason, no physical measurement was conducted, and only theoretical for the pump, nozzle conversions, and pipe capacity conversions were used to determine the rate of diversion. The rate of diversion (0.04 cfs) was determined by both the nozzle conversion and pipe capacity, since they were the only components of the system that was onsite at the time of the field examination. The pond found on Frank Capito's property looks like it was dug sometime between 2004 and 2006, when it first shows up on ArcMap imagery. There is no water right for this pond, so at the time of the field examination, Mr. Capito was informed that he should file an application for permit on the pond.

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

G. 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	0.040 CFS	16.20 AF
<u>Totals:</u>		0.040 CFS	16.20 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None (POU is all in L7)

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

H. AUTHENTICATION

Field Examiner's Name

Sandy Herremans Date *12/12/2012*



house
(dust
abatement)

POU

1/4"
banded
poly

POU

1/4" poly
banded

rain birds

POU

Hwy 12



81-11981 Capito

S. Hemenway



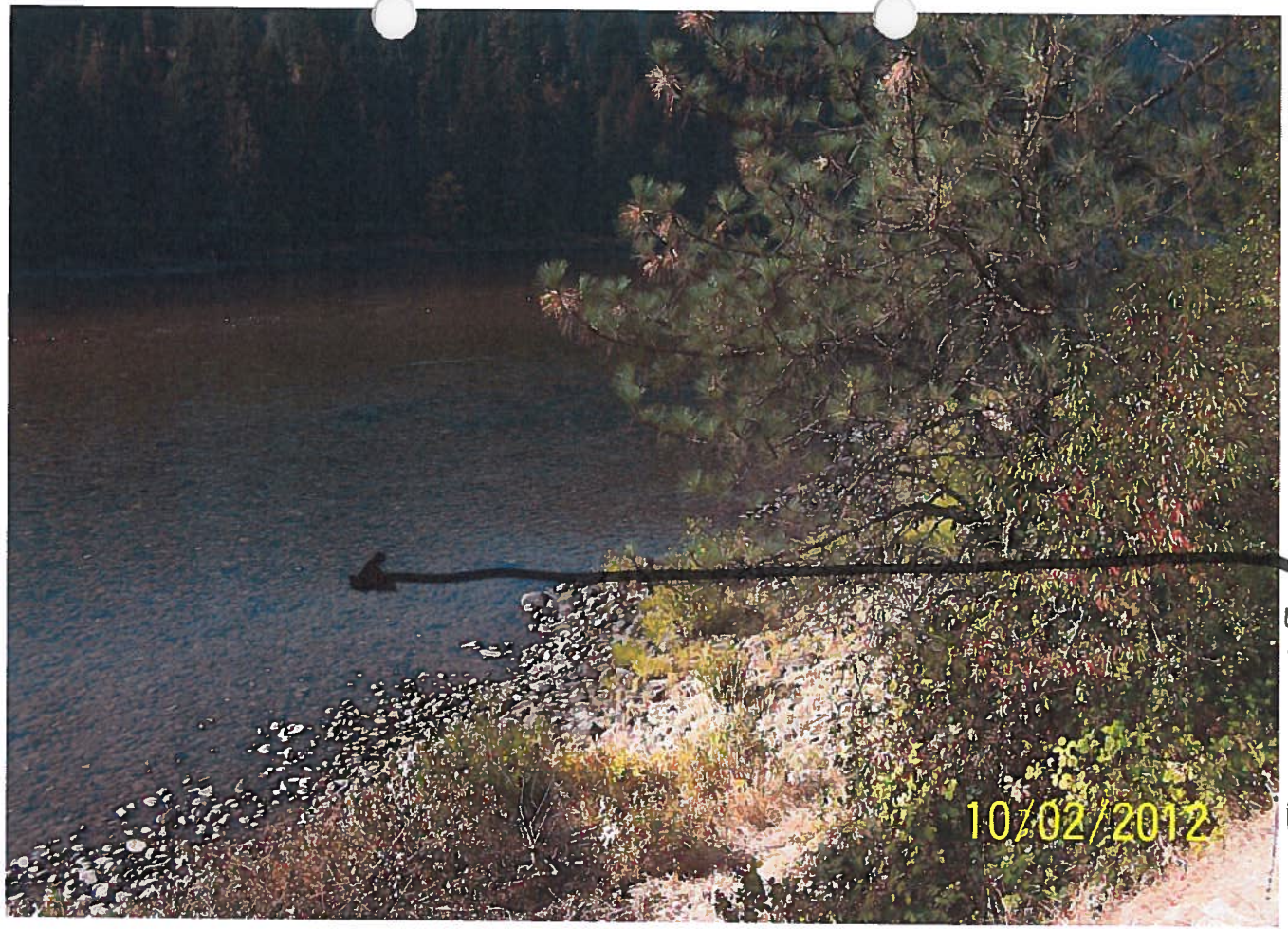
POU



1 1/4"
buried poly to
1/8"
Gilmore
nozzles
(6 run
at one
time),
40 psi

81-11981 Capito

S. Hemenway



POD
where
the
pump
is
usually
put
10' lift

81-11981 Capito

S. Hemenway

11/29/2012



81-11981 Capito

Received 12/10/2012 via email S. Hernerwan

VENTURI NO MOTOR



CAT		SERIAL 243113M	
PART		7-193800-01	
TYPE CP		FR Y48Y	
HP	SF	PH	1
HZ 60		RPM 3450	
VOLTS 230/115			
AMPS SF 10.0/20.0			
TIME CONT		ENCL DP FORM PJM	
CODE J	INSTR CLASS	B	AMB 40 °C
778 JET PUMP DUTY MOUNT HORIZ WITH VENT HOLES DOWN			
PATENT # 5,726,513 204184			
LUBRICATION:		17880201	
BEARING PRELUBRICATED			
NO FURTHER LUBRICATION			
NECESSARY			
LOW VOLTAGE		HIGH VOLTAGE	
BROWN — B		WHITE — B	
WHITE — L1 LINE		L1 LINE	
L2 LINE		L2 LINE	
BROWN — A		NON-REVERSIBLE	
THERMALLY PROTECTED PA			
175387-15		178900N	
A.O. SMITH MOTOR ASSEMBLED IN MEXICO		E44549	

HAZARDOUS VOLTAGE CAN CAUSE SEVERE OR FATAL INJURY • TERMINAL COVER MUST BE IN PLACE FOR SAFE OPERATION
MUST BE INSTALLED AND GROUNDED BY QUALIFIED PERSONNEL PER NATIONAL ELECTRICAL CODE AND LOCAL CO
DISCONNECT POWER BEFORE SERVICING UNIT • KEEP FOREIGN OBJECTS AWAY FROM OPENING AND MOVING PARTS
DO NOT OPERATE IN EXPLOSIVE ATMOSPHERE



WARNING

11/29/2012

THANK YOU FOR SHOPPING AT
BIG R STORES-COEUR D'ALENE
170 E. KATHLEEN AVE
COEUR D'ALENE ID 83815
(208) 666-0506

11/24/12 8:01AM BRITTANYD 251 SALE

130103 1 EA 279.99 EA
SPRINKLER PUMP- 2hp(RLSP-200) 279.99

SUB-TOTAL: 279.99 TAX: 16.80
TOTAL: 296.79
BC AMT: \$296.79

BK CARD#: XXXXXXXXXXXX2377
ID: 454172031998006XGP
AUTH: 49974Z AMT: 296.79
Host reference #:161270 Bat#000341
SWIPED
CARD TYPE:MASTERCARD EXPR: XXXX

Frank E Capito

Name: X_____



==>> JRNL#B61270/E <<==
CUST # *14

THANK YOU FRANK E CAPITO
FOR YOUR PATRONAGE

I agree to pay above total amount
according to card issuer agreement
(merchant agreement if credit voucher)
Acct: CASH CUSTOMER - COEURD'ALENE

THANK YOU FOR SHOPPING AT BIG R!

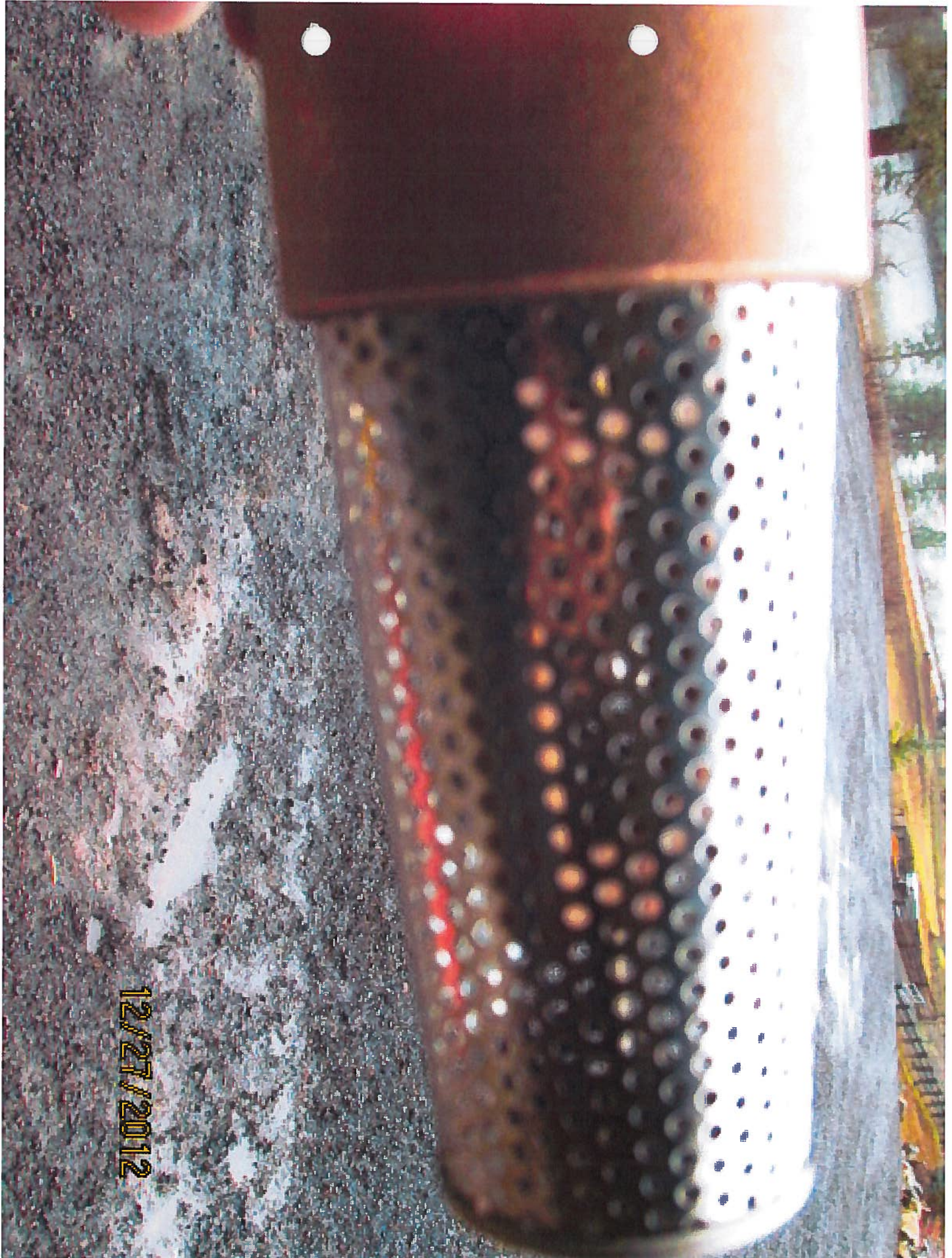
Customer Copy

81-11981 Capito

Received 12/10/2013 via email S. Hemenway



12/27/2012



12/27/2012