

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 ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
87-95-N-38	u/k	5	u/k	u/k	u/k
87-84-N-2	u/k	5	u/k	u/k	u/k
System is Gravity Feed from 55,000 GAL Reservoir.					

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

D. FLOW MEASUREMENTS N/A

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

PUMP EQUATIONS			WELL#1 1984		
WATER RIGHT No.			87-7194		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff} / H$	5	244.0816327	0.7	140	45
Q =	0.126 cfs	56.7 gpm			

PUMP EQUATIONS			WELL # 2 1995		
WATER RIGHT No.			87-7194		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff} / H$	5	214.0816327	0.7	110	45
Q =	0.144 cfs	64.7 gpm			

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 30 \times 3\text{AF} = 90 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .27 \times 246 \times 1.9835 = 132 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 90\text{AF}$$

2. Volume Calculations for Other Uses:

$$\text{DOMESTIC} = 60 \text{ HOMES} \times 0.6 \text{ AF} = 36 \text{ AF}$$

$$\text{COMMERCIAL USE} = 6 \text{ DAYS PER WEEK} \times 52 \text{ WEEKS} = 312 \text{ DAYS} - 3 \text{ HOLIDAYS} = 309 \text{ DAYS PER YEAR}$$

$$309 \times 8 \text{ HRS} = 2472 \text{ HRS} / 24 \text{ HRS} = 103 \text{ DAYS}$$

$$103 \times 1.9835 \times 0.11\text{CFS} = 22.47 \text{ AF PER YEAR PER COMMERCIAL USE} \times 2 \text{ COMMERCIAL} = 45 \text{ AF}$$

$$\text{DOMESTIC} = 36 \text{ AF IRRIGATION} = 90 \text{ AF COMMERCIAL} = 45 \text{ AF TOTAL VOLUME PER YEAR} = 171 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS: The amendment is to change the use to Municipal and to add the one point of diversion to this water right. The system has a 55,000 gal reservoir that gravity feeds to the users for the water supply.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	0.270 CFS	171.00 AF
<u>Totals:</u>		0.270 CFS	171.00 AF

2. Recommended Amendments

X 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 X Other

I. AUTHENTICATION

Field Examiner's Name Eric Shaw Date 11-26-2008

Reviewer Bob Hayman Date 1/26/09



Wastewater Operator Certification Validation Card

Elmer A. Rogers

Certification #6817

Expires 12/31/2008

Group II

Professional growth end date: 12/31/2009



VALIDATION CARD FOR CERTIFICATE OF COMPETENCY

WATER WORKS OPERATOR CERTIFICATION

Certificate No. 009487	Valid for Year: 2008
Name ELMER A ROGERS	
Classification(s) CCS, WDM 2	

Bureau of Occupational Licenses Department of Self Governing Agencies

The person named has met the requirements for licensure and is entitled under the laws and rules of the State of Idaho to operate as a(n)

WASTEWATER OPERATOR

TREATMENT CLASS II

ELMER A ROGERS
1292 MARSHALL RD
BOISE, ID 83702



Tana Cory

Tana Cory
Chief, B.O.L.

WWT2-15228
Number

08/27/2008
Expires

Bureau of Occupational Licenses Department of Self Governing Agencies

The person named has met the requirements for licensure and is entitled under the laws and rules of the State of Idaho to operate as a(n)

WASTEWATER OPERATOR COLLECTION CLASS II

ELMER A ROGERS
1292 MARSHALL RD
BOISE, ID 83702

Tana Cory
Tana Cory
Chief, B.O.L.

WWC2-14326
Number

08/27/2008
Expires

MEMBERSHIP CARD



MEMBER NAME: Mr. Elmer Andy Rogers

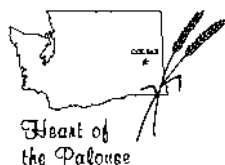
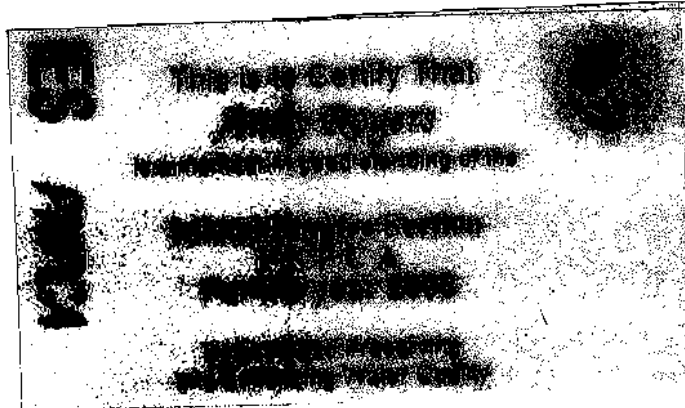
MEMBER #: 06665924

MEMBERSHIP EXPIRES: JANUARY 31, 2009

MEMBER TYPE: 02, Individual Active

SECTION: Pacific Northwest Section

AWWA, 6666 West Quincy Avenue, Denver, CO 80235-3098



City of Colfax

Andy Rogers
Public Works Supervisor

OFFICE (509) 397-4806
FAX (509) 397-4542
CELL (509) 595-7342
EMAIL arogers@ci.colfax.wa.us

400 N. Mill St.
P.O. Box 229
Colfax, WA 99111
(509) 397-3861



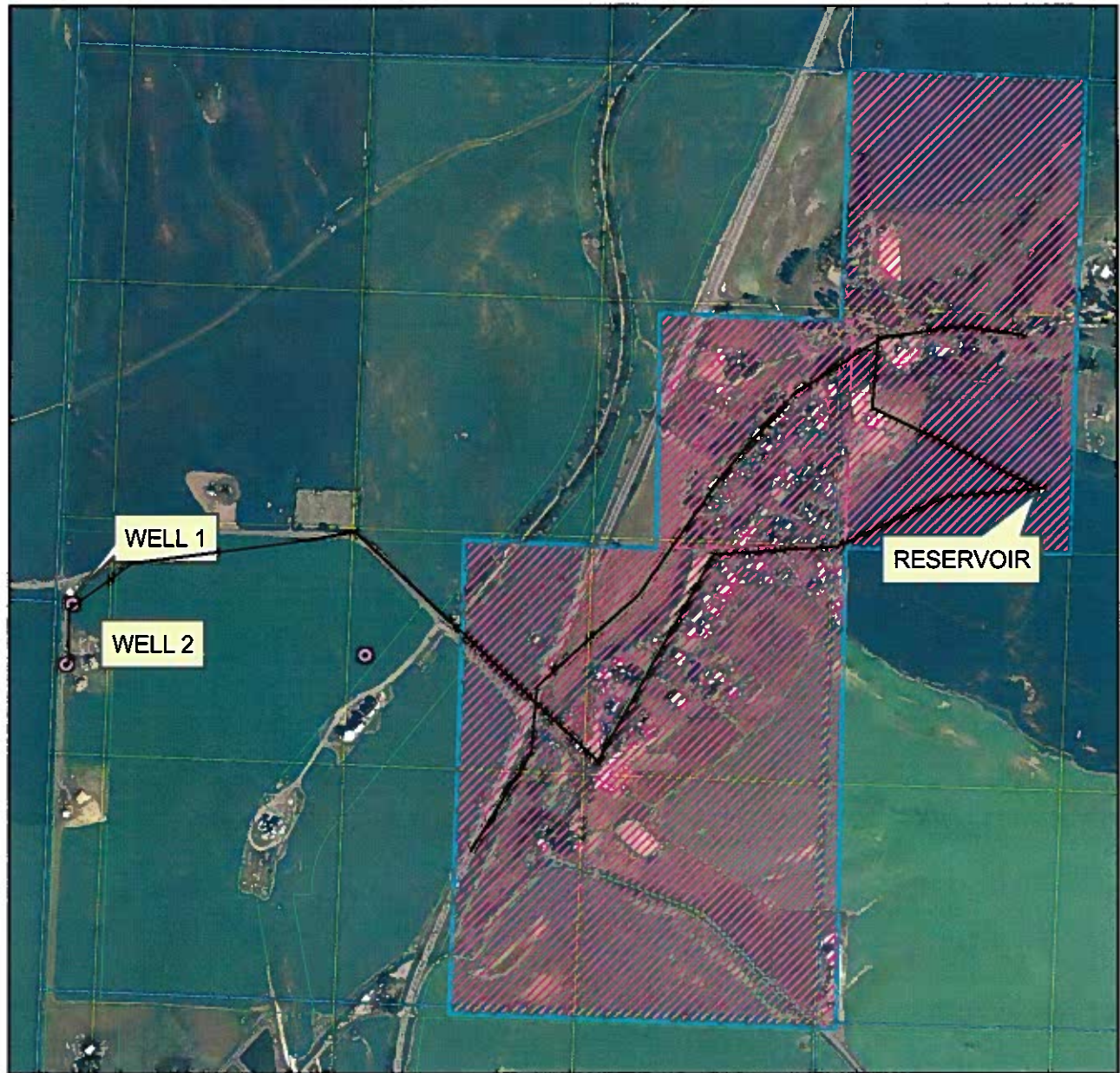
Name
ELMER A ROGERS

Membership Number
Q9682

Expires
8/31/2008

President

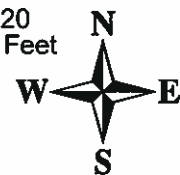
SYSTEM



Legend

- ⊙ Right POD
- ▨ Right POU

0 365 730 1,460 2,190 2,920 Feet





METER WELL 1



METER WELL 2



PLACE OF USE 1



PLACE OF USE 2



PLACE OF USE 3



POINT OF DIVERSION 1



POINT OF DIVERSION 2



PSI OF SYSTEM



PUMP HOUSE AND POINT
OF DIVERSION 1



STORAGE TANK



STORAGE TANK FROM
POINT OF DIVERSION



WELL 1

87-7194



87-7194





87-7194



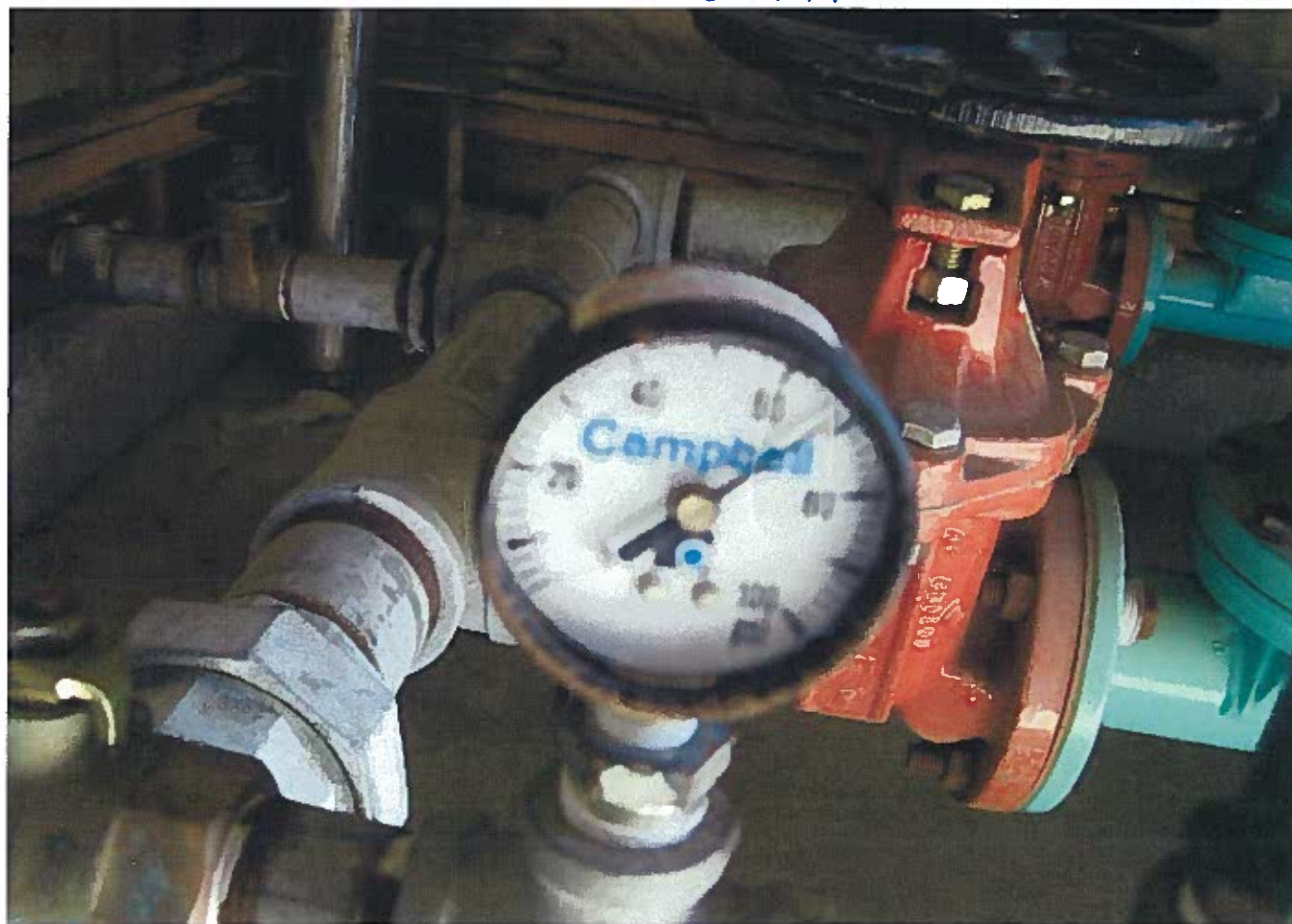


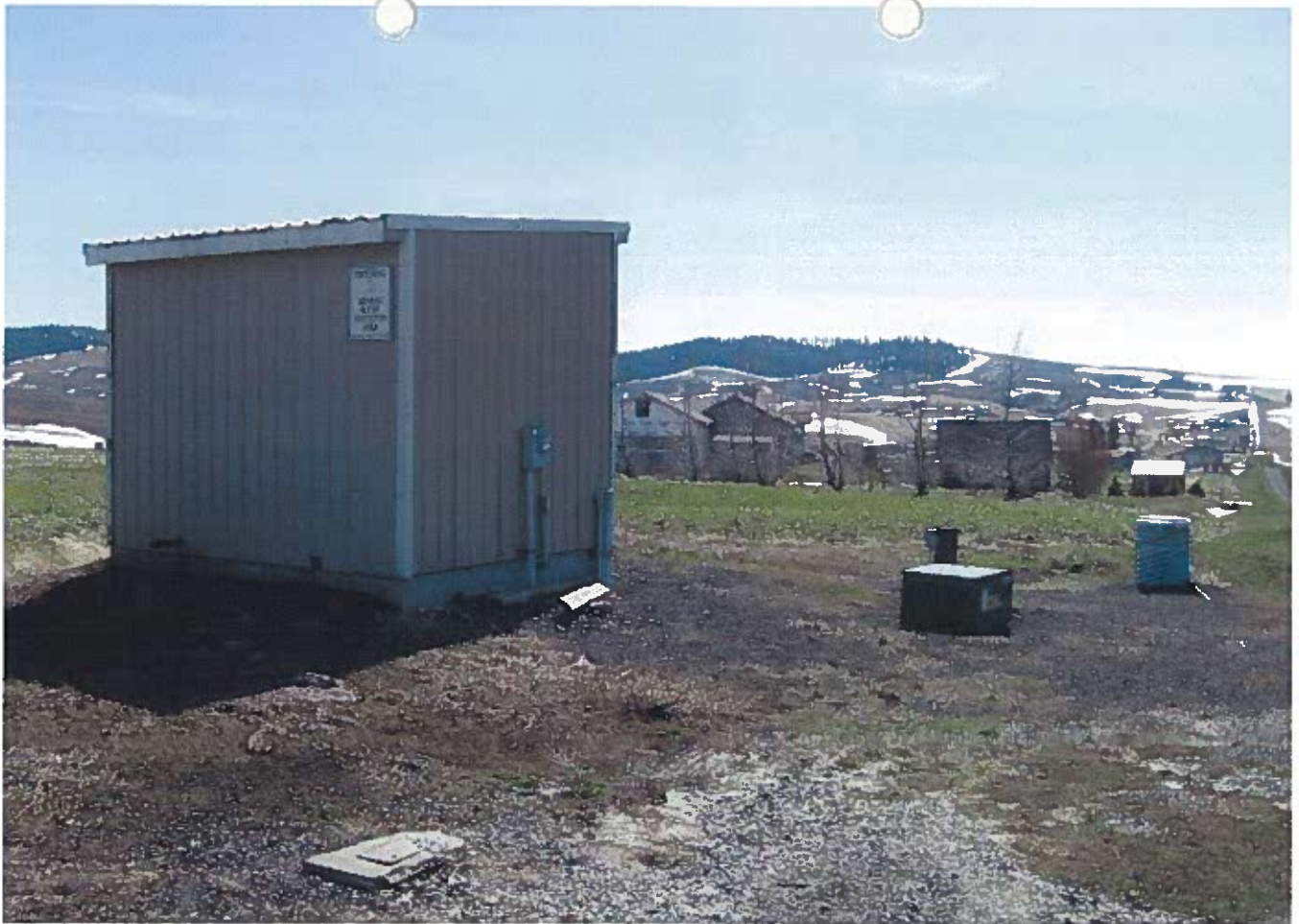
87-7194





87-7194





87-7194





87-7194

