

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

Y Copy of USGS Quadrange Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

N Aerial Photo Attached (required for irrigation of 10+ acres).

N Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Franklin	50	26871588C		3A50

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flowmeter	Totalizing	Rockwell				

2. Measurements: 850 GPM on demand

E. NARRATIVE/REMARKS/COMMENTS

A 16" well equipped with a 50 hp submersible pump supplies water to the City of Nampa's municipal irrigation system via 6" mainline. City of Nampa filed SRBA claim A63-09889 to reflect the permit, except listing municipal use rather than irrigation use.

Since irrigation and acres were specified on the original permit rather than municipal use the amount of irrigation developed from the well had to be determined. The only complete set of pumping records available were for the 1996 irrigation season, which showed the well producing 452 afa of water. 452 afa/4.5 afa is enough for 100 acres irrigation at full appropriation. The lands listed on the permit consists of a common neighborhood within the City of Nampa. The calculations above show 63% of the lands listed were irrigated. The remaining 37% accounts for homes, roads, and various other neighborhood development. This determination sounds reasonable. The 100 acres were distributed proportionally throughout the NW quarter.

Have conditions of permit approval been met? X yes ___ no

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

$$850 \text{ gpm}/448.8 = 1.9 \text{ cfs (Flowmeter)}$$

$$\underline{50\text{hp} \times 8.8 \times .7} = 1.76 \text{ cfs}$$

$$61 + 60 \text{ psi} \times 2.31$$

Pumping level per well log

Allow 1.5 cfs per permit

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{100 \times 4.5 = 450}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{1.5 \times 230 \times 1.9835 = 684.3}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{450}$$

*Acres irrigated were determined from pump records available for the 1996 irrigation season, which recorded 147,284,200 gallons of water pumped from the well divided by 325,850 = 452 afa/4.5 = 100 acres irrigation

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion		Annual Volume
	From	To	Q (cfs)	V (afa)	
Irrigation	3/15	10/30	1.5		450
Totals:			1.5		450

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

Lori Graves –Senior Agent

Field Examiner's Name Lori Graves Date 9/25/00

Reviewer _____ Date _____

SEAL