

[illegible]

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

**See Attached Grid sheet**

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (*required*).
- ☒ Aerial photo attached (*required for irrigation of 10+ acres*).
- ☒ 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  |
|---------------------------------------|-------------------|----|------------------|-----------|------------------------------------|
|                                       |                   |    |                  |           |                                    |
| Shop Well                             | Franklin Electric | 10 | 2366129020       | Grundfos  | Model No. 150S100-5 / 4" discharge |
| VP Well                               | Franklin          | 25 | 2366159020       | Franklin  | 4" discharge                       |

**D. FLOW MEASUREMENTS**

1.

| Measurement Equipment | Type  | Make | Model No.   | Serial No. | Size | Calibration |
|-----------------------|-------|------|-------------|------------|------|-------------|
| Portable flow meter   | Sonic | Fuji | Portaflow X |            |      | 3/22/05     |
|                       |       |      |             |            |      |             |

2. Measurements: \_\_\_\_\_

VP Well: 258 gpm (0.57 cfs), date 8/6/03 in conjunction with field exam for 37-20833

Shop Well: No suitable location for meter. Q = 0.40 cfs estimated from pump curve.

**E. NARRATIVE / REMARKS / COMMENTS**

See attached sheets.

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

F. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Ultrasonic meter

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Industrial: 0.97 cfs x 365 days x 1.9835 = 702 ac-ft. Recommend license omit annual volume as redundant.

H. RECOMMENDATIONS

1. Recommended Amounts

| Beneficial Use    | Period of Use |              | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|-------------------|---------------|--------------|------------------------------|--------------------------|
|                   | From          | To           |                              |                          |
| <u>Industrial</u> | <u>1/1</u>    | <u>12/31</u> | <u>0.97</u>                  | <u>None</u>              |
| _____             | _____         | _____        | _____                        | _____                    |
| _____             | _____         | _____        | _____                        | _____                    |
| TOTALS:           |               |              | _____                        | _____                    |

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

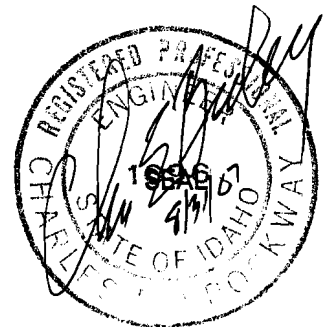
I. AUTHENTICATION

Field Examiner's Name: Charles E. Brockway, P.E.

Date: \_\_\_\_\_

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_





0 300 600 1,200 Feet

# **BENEFICIAL USE EXAM 37-20834 NAIP 2006 AERIAL**

## **Legend**

- Place of Use
- WELLS
- Sections
- t01n19e
- t01n18e





Shop Well shelter



Shop Well showing discharge line and pressure tanks



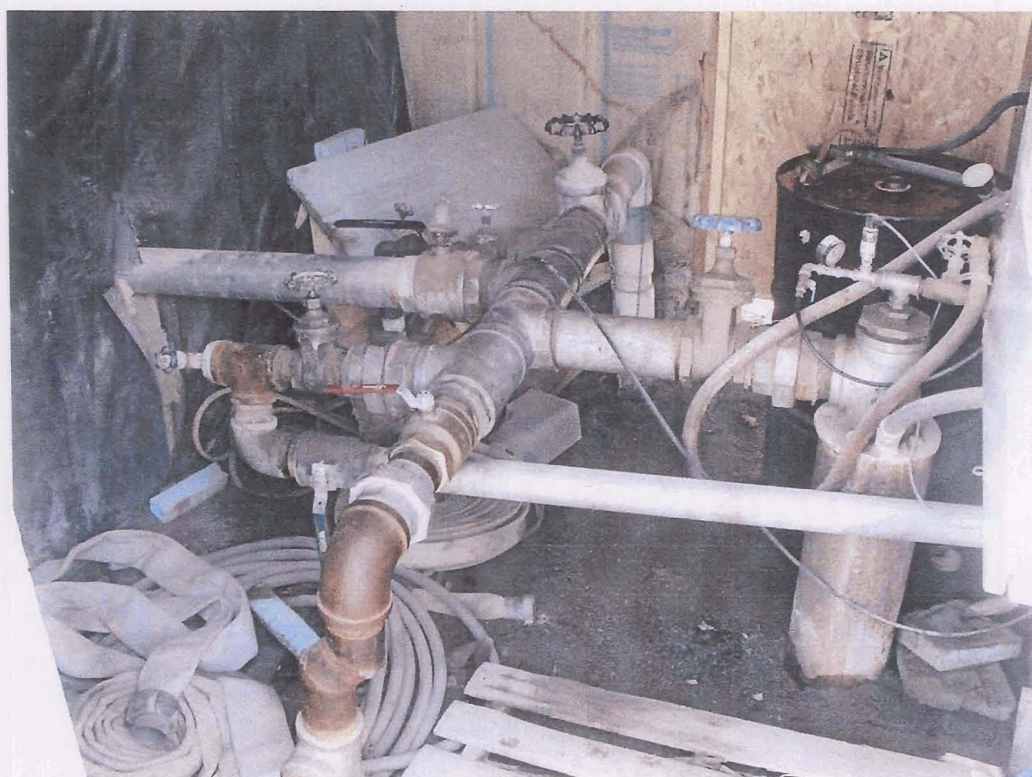
New Crusher Well (old well at right below valve)



New Crusher Well, pipeline, and one of the gravel washing facilities



Additional facilities. Truck fill station at right.



VP Well and discharge piping