

[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
Crusher Well	U.S. Electric	125	R-6350-06-122	Vertiline	9974522
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: Crusher well: 2465 gpm (5.49 cfs), date 7/27/07

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: 3.47 cfs x 365 days x 1.9835 = 2512 ac-ft. Recommend license omit annual volume as redundant.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>Industrial</u>	<u>1/1</u>	<u>12/31</u>	<u>3.47</u>	<u>None</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
TOTALS:			_____	_____

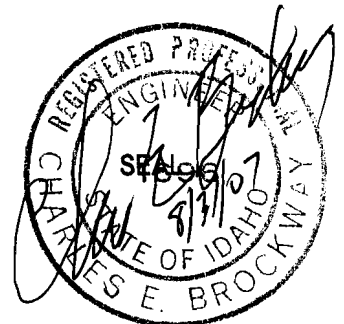
2. Recommended Amendments

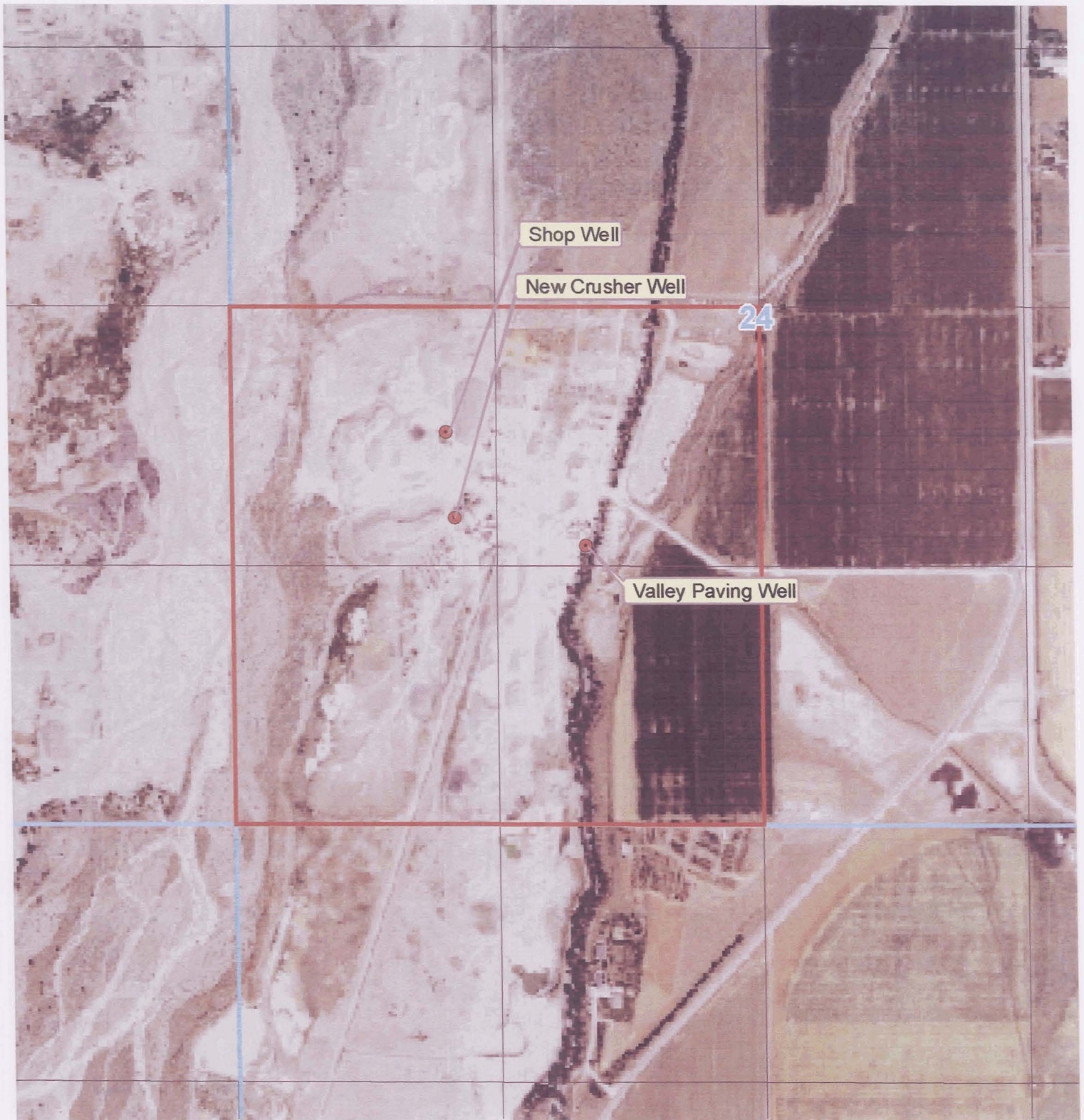
- ☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

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

Reviewer: _____ Date: _____





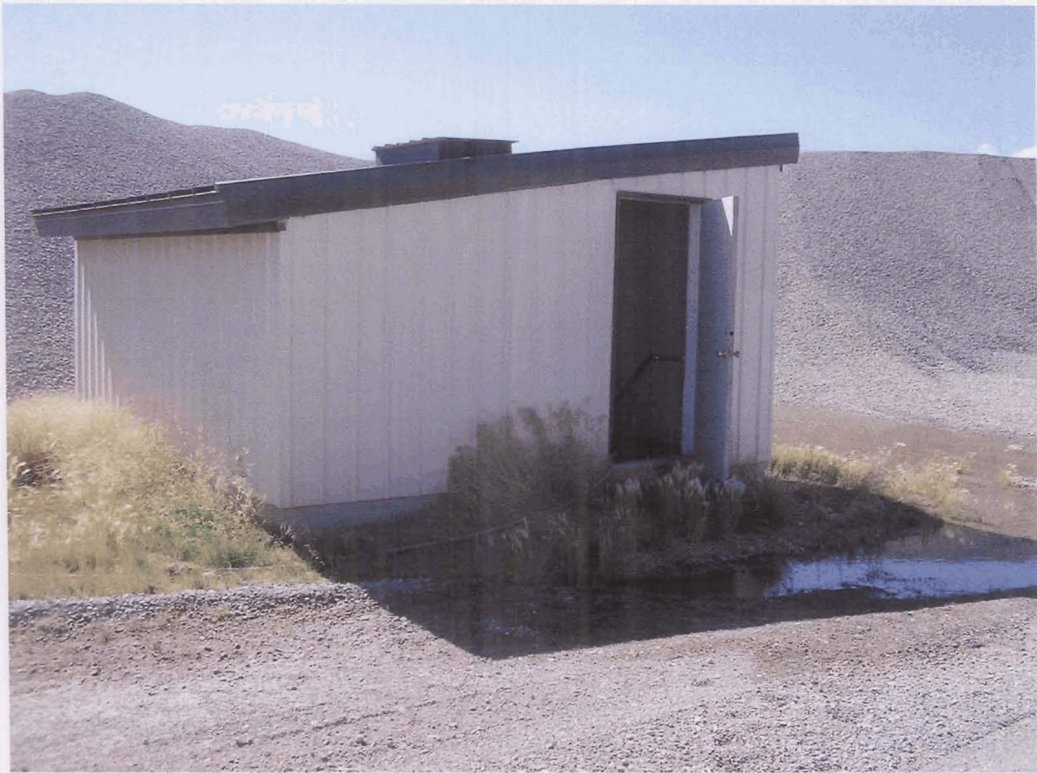
0 300 600 1,200 Feet

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

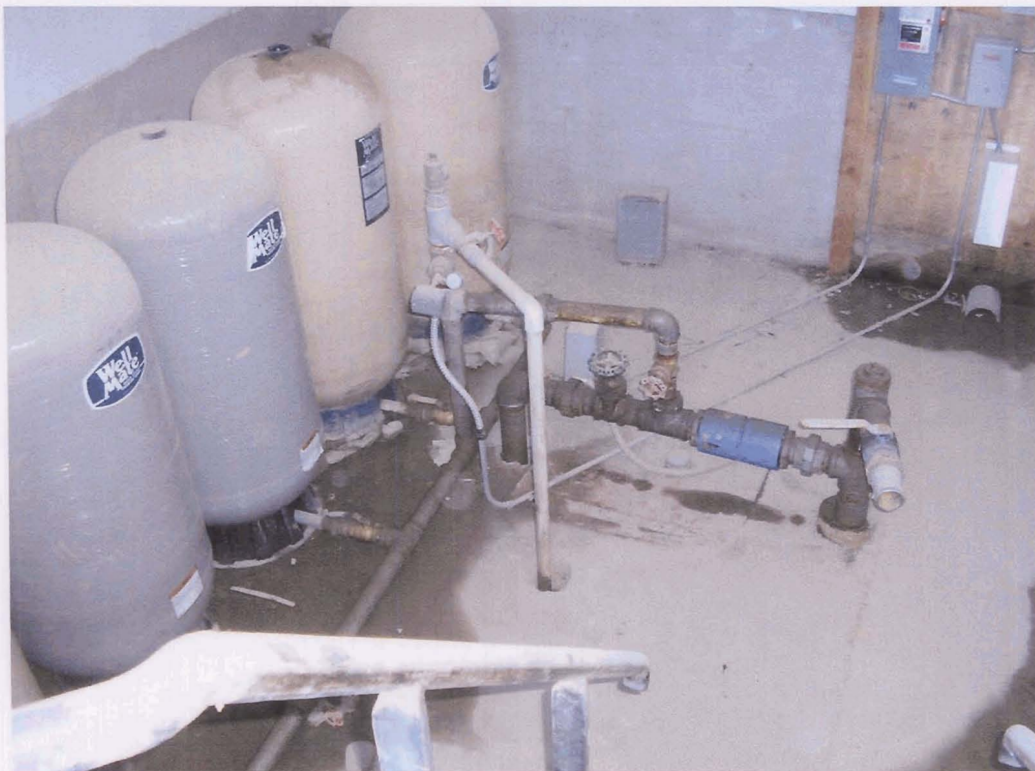
Legend

- Place of Use
- WELLS
- Sections
- T01n19e
- T01n18e





Shop Well shelter



Shop Well showing discharge line and pressure tanks



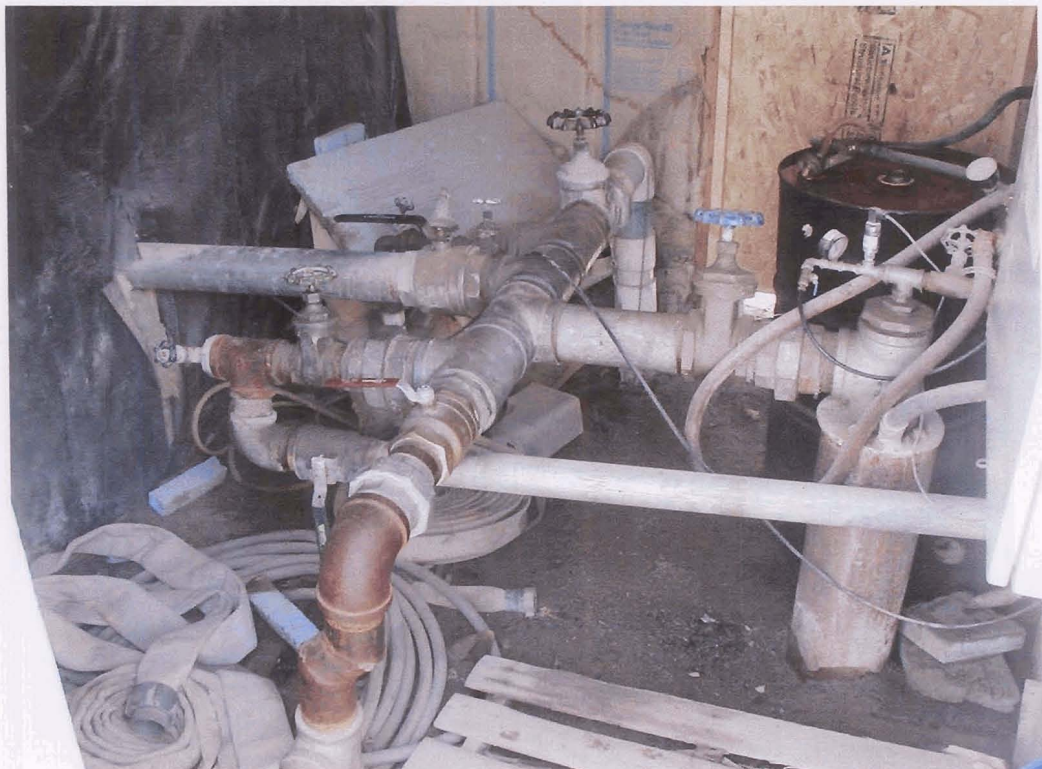
New Crusher Well (old well at right below valve)



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



Additional facilities. Truck fill station at right.



VP Well and discharge piping