

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

**A. GENERAL INFORMATION**Permit No. 85-15766

1. Owner City of Lapwai Phone No. (208) 843-2212  
 Current address P.O. Box 336, Lapwai, ID 83540
2. Examiner's name Terry M. Scanlan (CWRE No. 129) EXAM DATE May 31, 2016
3. Accompanied by Jim Roberts Email publicworks@cityoflapwai.com  
 Address P.O. Box 336, Lapwai, ID 83540  
 Relationship to permit holder Public Works Department staff Phone No. (208) 843-2212
4. Source groundwater tributary to \_\_\_\_\_

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use 85-4131, 85-4132, 85-7020, 85-7431; 85-2028, 85-7619 (Lapwai Schools)
2. Other water rights with the same source and point of diversion 85-4131, 85-4132, 85-7020, 85-7431

**C. DIVERSION AND DELIVERY SYSTEM****1. Point(s) of Diversion:**

| Ident. No. | Gov't Lot | ¼ | ¼  | ¼  | Sec | Twp | Rge | County    | Method of Determination/Remarks |
|------------|-----------|---|----|----|-----|-----|-----|-----------|---------------------------------|
| JD         | 11        |   | SE | NW | 2   | 35N | 4W  | Nez Perce | field exam; aerial photography  |
| 5          | 25        |   | SW | SW | 2   | 35N | 4W  | Nez Perce | field exam; aerial photography  |
|            |           |   |    |    |     |     |     |           |                                 |
|            |           |   |    |    |     |     |     |           |                                 |

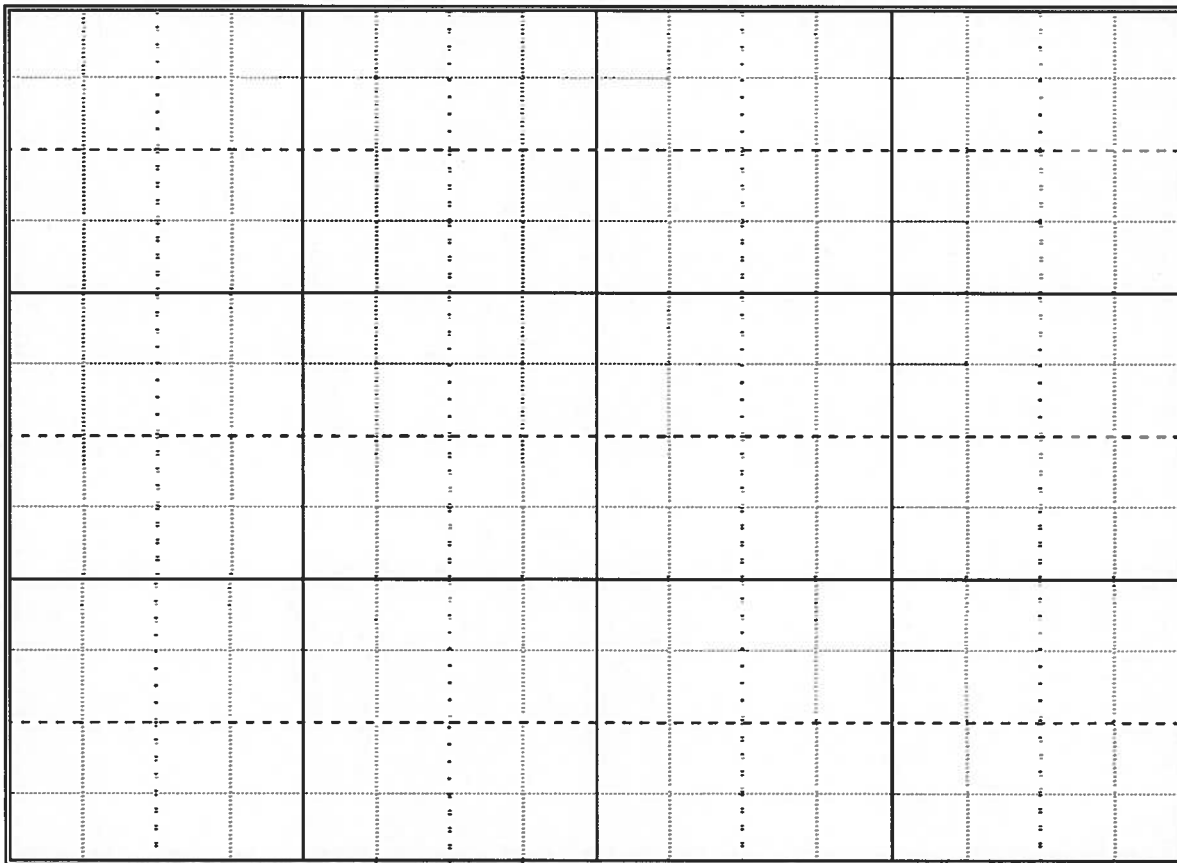
**2. Place(s) of Use:**

Method of determination \_\_\_\_\_

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

Place of use is within the service area of the applicant's municipal water supply system as provided for under Idaho Law.

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = \_\_\_\_\_

- ☒ 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 |
|---------------------------------------|-------------|----|------------------|-------------|-----------------------------------|
| JD Well                               | Submersible | 30 |                  | Submersible | pitless discharge                 |
| Well No. 5                            | Submersible | 30 |                  | Submersible | pitless discharge                 |
|                                       |             |    |                  |             |                                   |

\*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      |
|-----------------------------------|----------|--------|-----------|------------|------|------------------|
| JD Well - Installed Flow Meter    | compound | Sensus | 8298      | 1547234    | 3"   | 5/31/2016 (exam) |
| Well No. 5 - Installed Flow Meter | compound | Sensus | Omni      | 76331201   | 3"   | August 13, 2013  |

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

JD Well - 0.62 cfs (calibration confirmed with SPF GE PT878 ultrasonic portable flow meter)

Well No. 5 - 0.77 cfs

See narrative for remarks.

### E. NARRATIVE/REMARKS/COMMENTS

Two wells, referred to as the JD Well and Well No. 5, are currently utilized to provide municipal supply to City of Lapwai. The wells discharge into a distribution system with two storage tanks (130,000 gallons and 250,000 gallons) located on the hillside west of the City.

The JD Well is located in Government Lot 11 (SENV) of Section 2, T 35N, R4W, approximately 250 feet north of Ash Avenue and 1000 feet west of US Highway 95. The well was constructed in 1996 with 8-inch well casing from +2 to 206 feet, and open 8-inch borehole from 206 to 220 feet. The casing is perforated from 164 to 206 feet. Static water level was reported to be 12 feet. The well is currently equipped with a constant speed submersible pump believed to be 30 hp. The pump discharges through a pitless unit, with underground piping to a well house located approximately 10 feet southeast of the well. Discharge piping in the well house is 3-inch ductile iron. Flow rate was measured with an installed Sensus compound flow meter (SN 1547234) and with SPF's portable GE ultrasonic flow meter (SN 7140), with 10-minute average rates of 277 and 279 gpm, respectively (0.62 cfs). Discharge pressure was 89 psi (average of two gages).

Well No. 5 is located in in Government Lot 25 (SWSW) of Section 2, T 35N, R4W, approximately 650 feet west of the intersection of 3rd Street West and Willow Avenue. The well was apparently constructed in the mid 1980s. The well is currently equipped with a constant speed submersible pump believed to be 30 hp (a sticker on the pump panel indicated a 30 hp Centripro motor and Model 275H30-7 pump). The pump discharges through a pitless unit, with underground piping to a vault beneath a well house located approximately 5 feet north of the well. Electrical controls are located above ground within the well house structure. Discharge piping in the vault is 4-inch ductile iron. Flow rate was measured with an installed 3-inch Sensus Omni flow meter (SN 76331201), with a 10-minute average rate of 346 gpm (0.77 cfs). The flow meter tag indicated that the meter was manufactured and tested in August 2013. Flow was not confirmed with SPF's portable GE ultrasonic flow meter because there was not a location with sufficient straight pipe for meter installation.

Combined flow rate was 1.39 cfs. The City's existing water rights 84-4131, 84-4132, 85-7020, and 85-7431 are limited to a maximum combined diversion rate of 1.52 cfs. Therefore, this permit does not provide additional flow rate but does provide authorization for an additional well (JD Well) not authorized under other City water rights.

**See attachments for additional information.**

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

[illegible]



**Attachment A**  
**Statement of Completion for Submitting Proof of Beneficial**  
**Use and Permit to Appropriate Water.**

State of Idaho  
Department of Water Resources  
**Permit to Appropriate Water**

NO. 85-15766

Priority: December 24, 2014

Maximum Diversion Rate: 0.77 CFS

This is to certify, that CITY OF LAPWAI  
PO BOX 336  
LAPWAI ID 83540

has applied for a permit to appropriate water from:

**Source:** GROUND WATER

and a permit is APPROVED for development of water as follows:

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>RATE OF DIVERSION</u> |
|-----------------------|----------------------|--------------------------|
| MUNICIPAL             | 01/01 to 12/31       | 0.77 CFS                 |

**LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L21 (NE1/4SW1/4) Sec. 2, Twp 35N, Rge 04W, B.M. NEZ PERCE County  
GROUND WATER L11 (SE1/4NW1/4) Sec. 2, Twp 35N, Rge 04W, B.M. NEZ PERCE County  
GROUND WATER L25 (SW1/4SW1/4) Sec. 2, Twp 35N, Rge 04W, B.M. NEZ PERCE County  
GROUND WATER L33 (SE1/4SW1/4) Sec. 2, Twp 35N, Rge 04W, B.M. NEZ PERCE County

**CONDITIONS OF APPROVAL**

1. Proof of application of water to beneficial use shall be submitted on or before **February 01, 2020**.
2. Subject to all prior water rights.
3. A map depicting the place of use boundary for this water right at the time of this approval is attached to this document for illustrative purposes.
4. Place of use is within the service area of the City of Lapwai municipal water supply system as provided for under Idaho Law.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
7. Prior to or in connection with the proof of beneficial use statement to be submitted for municipal water use under this right, the right holder shall provide the department with documentation showing that the water supply system is being regulated by the Idaho Department of Environmental Quality as a public water supply and that it has been issued a public water supply number.
8. Rights 85-4131, 85-4132, 85-7020, 85-7431 and 85-15766 when combined shall not exceed a total diversion rate of 2.29 cfs.
9. This right does not grant any right-of-way or easement across the land of another.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Coeur d Alene, this 13 day of February, 2015.

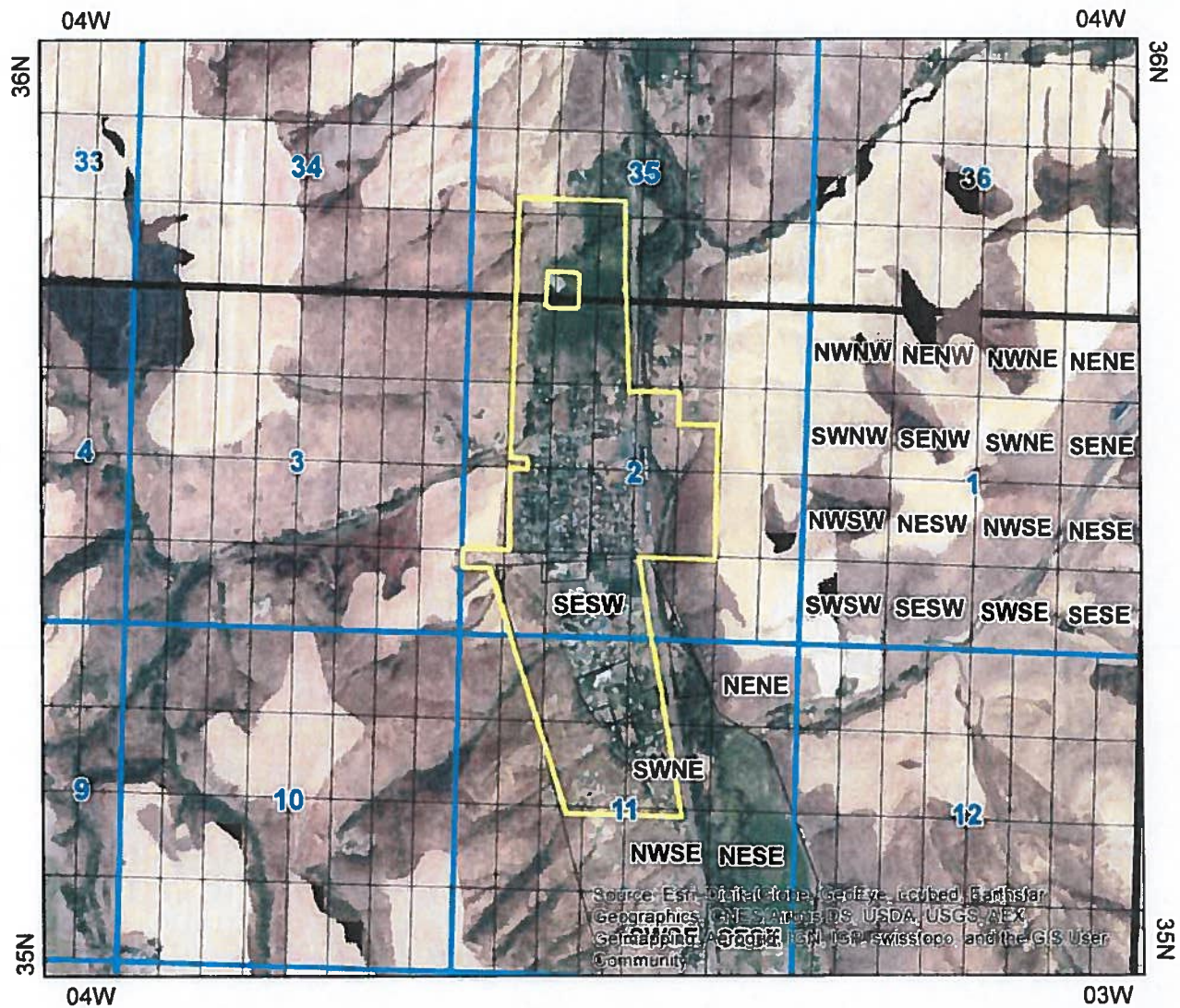
  
FOR GARY SPACKMAN, Director

City Of Lapwai

# Permit to Appropriate Water

85-15766

Service Area



- Water Service Area Boundary
- Townships
- PLS Sections
- Quarter Quarters

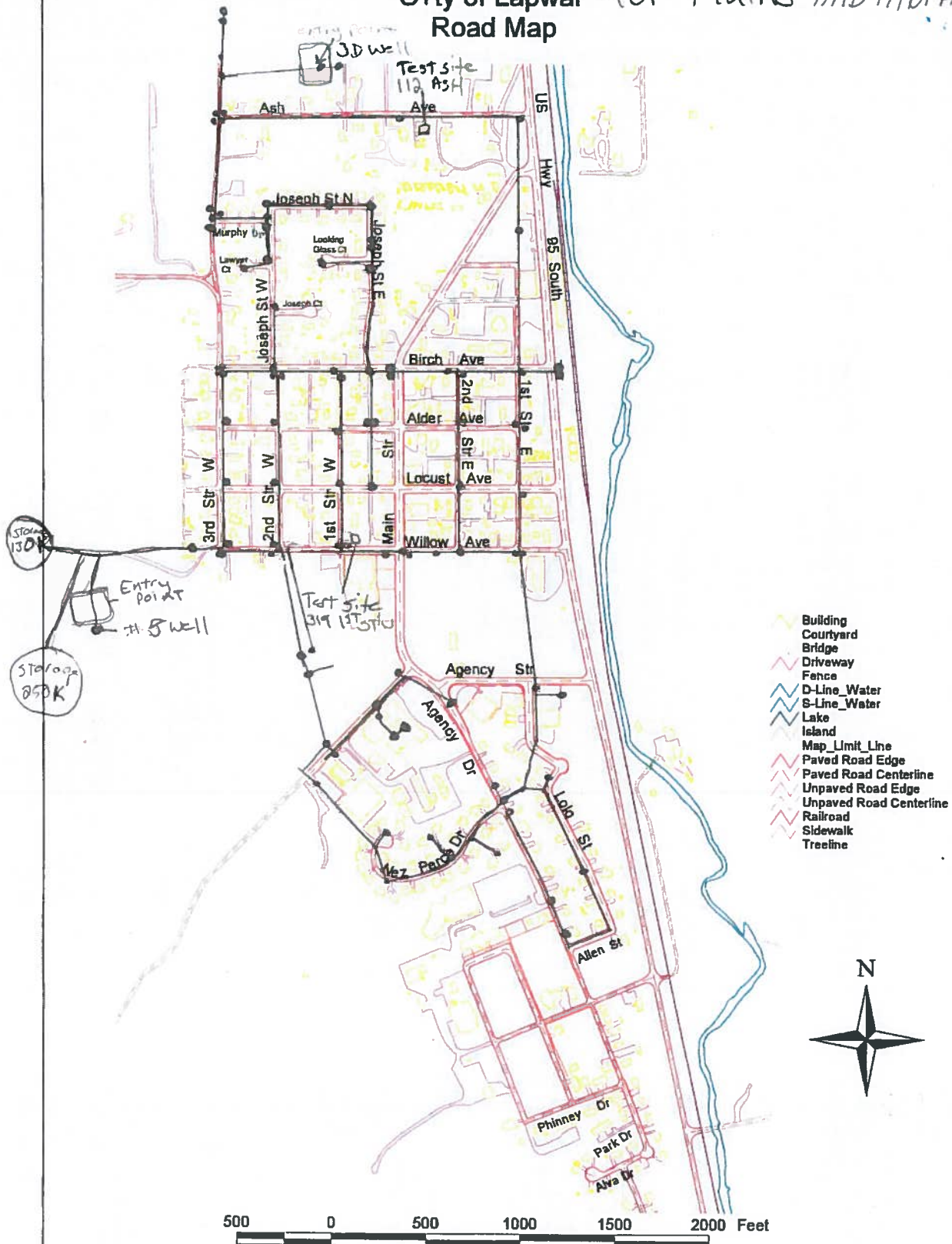
0 0.325 0.65 1.3 Miles



**Attachment B**  
**Water System Map.**

# City of Lapwai Road Map

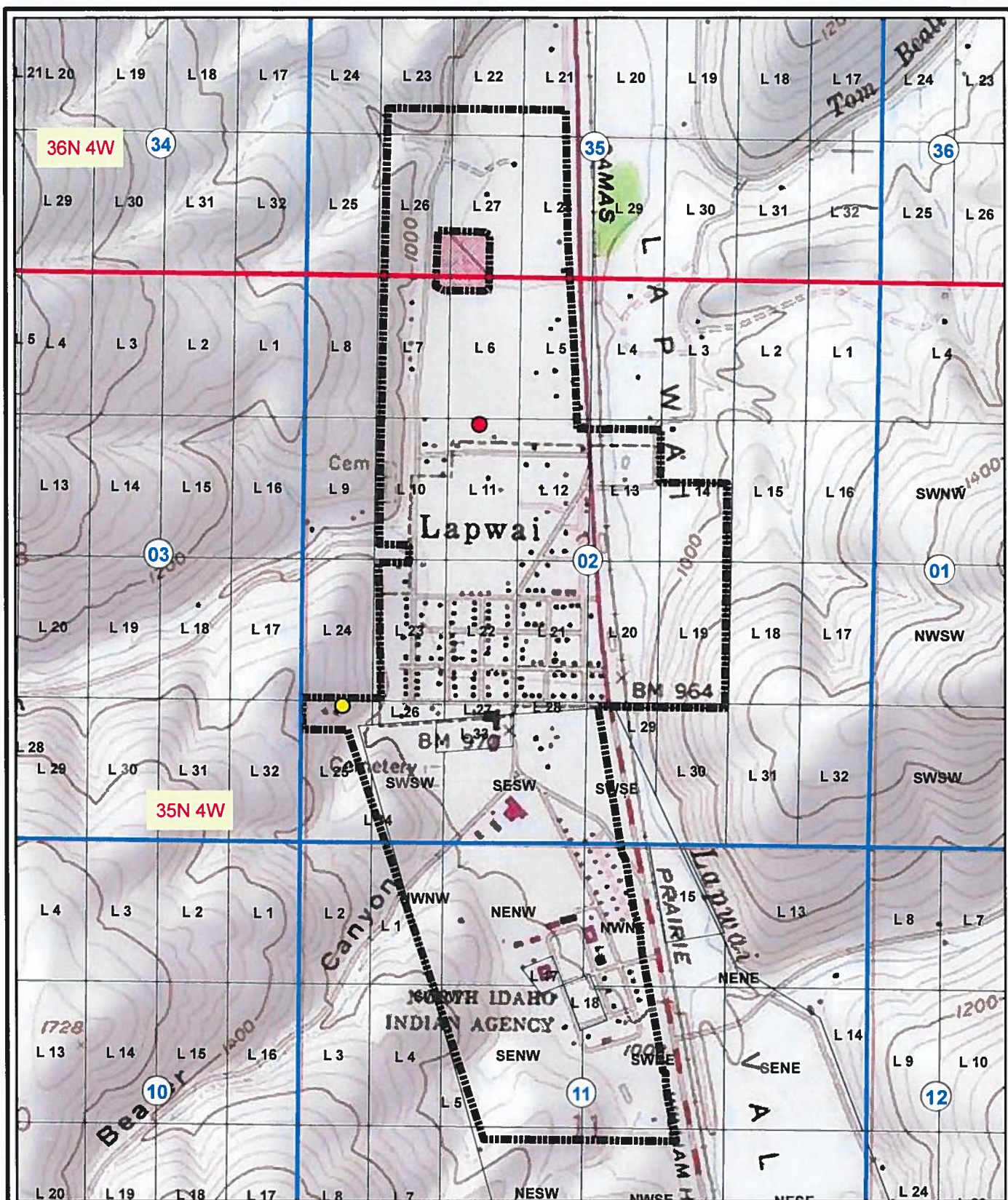
SHUTOFF VALVES  
for Mains AND HYDRANTS



**Attachment C**  
**Well Driller's Report for the JD Well.**



**Attachment D**  
**USGS Topographic Map and Aerial Photography of City Service**  
**Area and Well Locations**



**Point of Diversion**



JD Well



Well 5



Municipal Service Area

Permit No. 85-15766 Beneficial Use  
Field Exam Map 1 (USGS Topo)

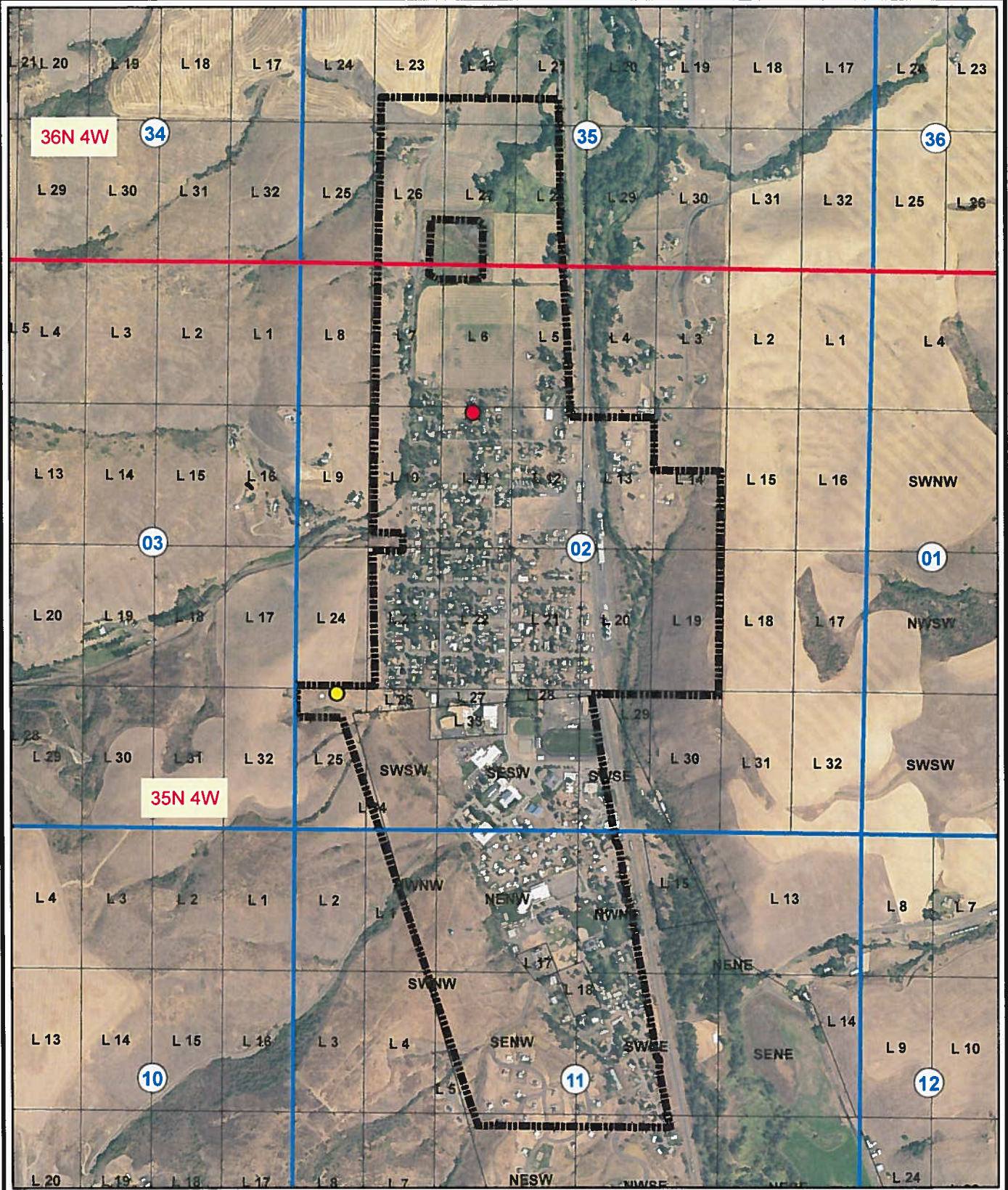


0.25

Miles



**SPF WATER**  
ENGINEERING



**Point of Diversion**

- JD Well
- Well 5



Municipal Service Area

**Permit No. 85-15766 Beneficial Use  
Field Exam Map 2 (2013 NAIP Photography)**



0.25

Miles



**SPF WATER  
ENGINEERING**

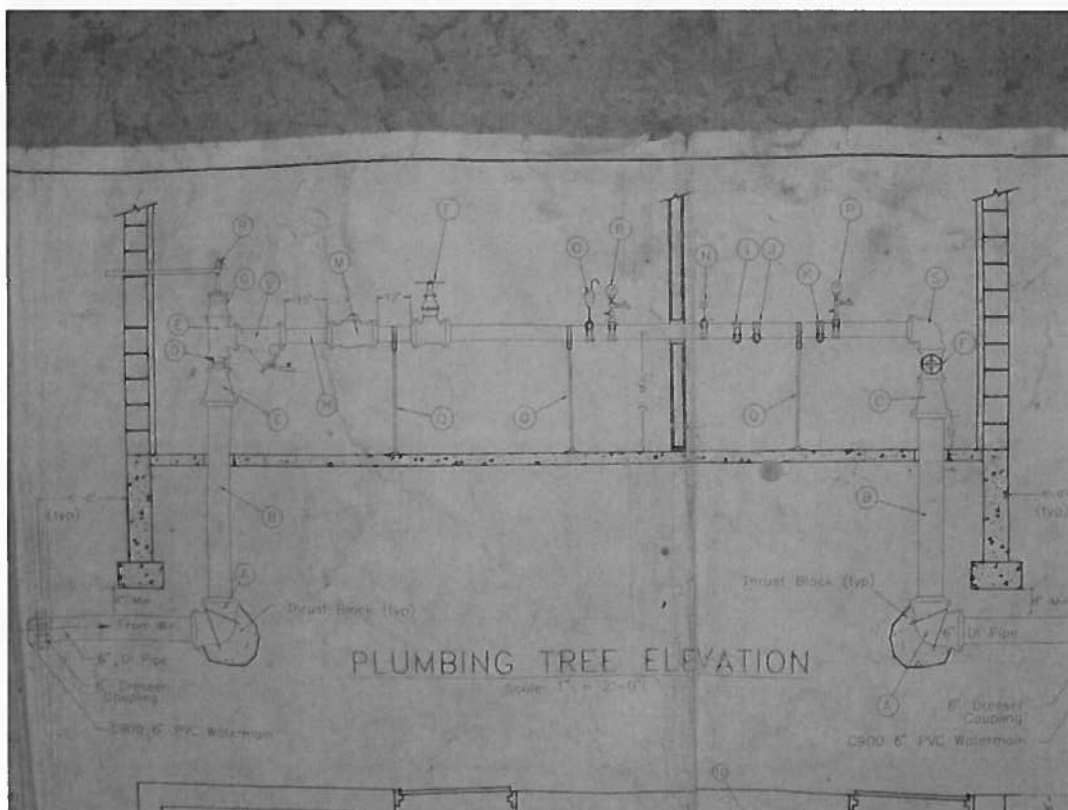
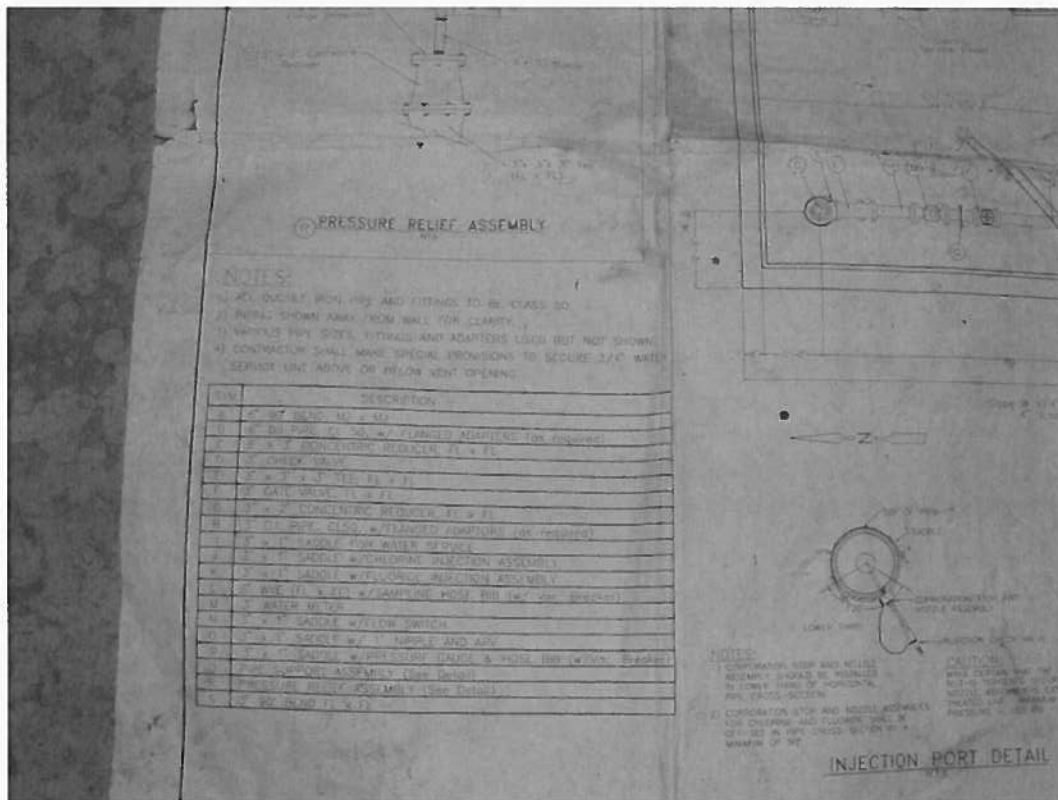
**Attachment E**  
**Beneficial Field Examination Photos**

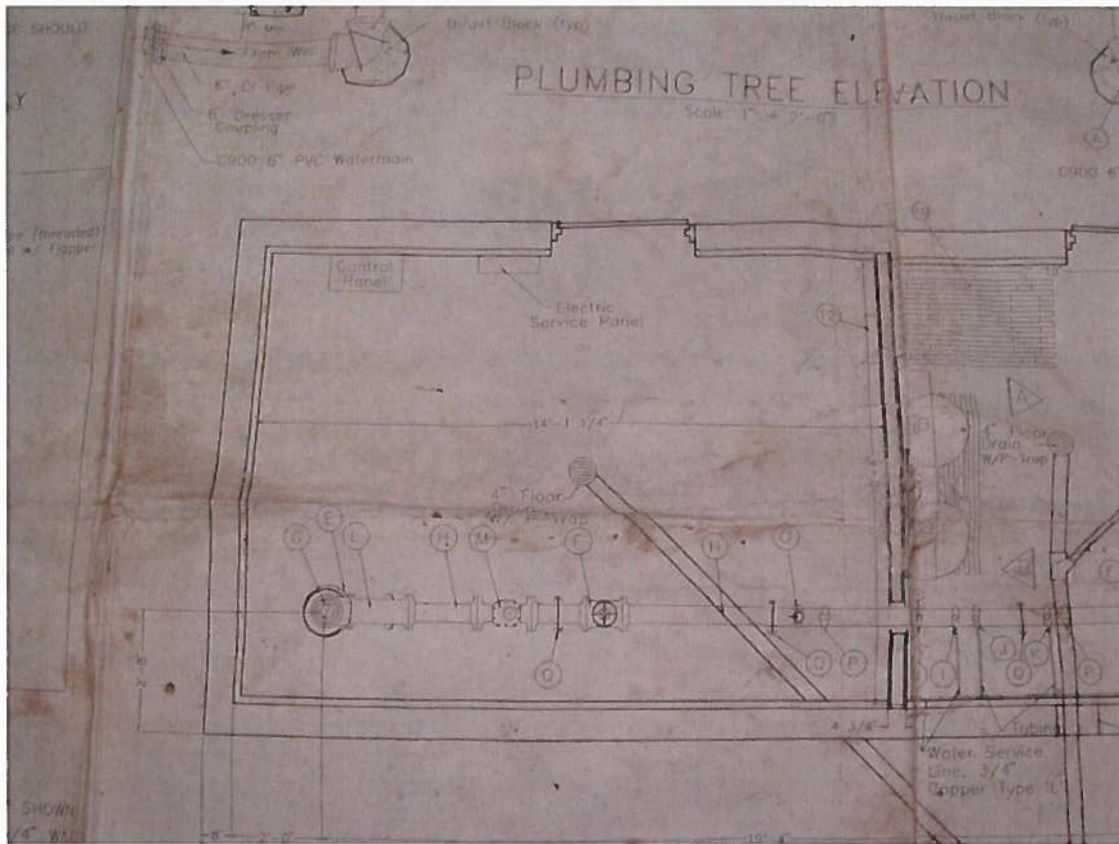


**JD Well - Casing and cap; well is located a few feet northwest of the well house**

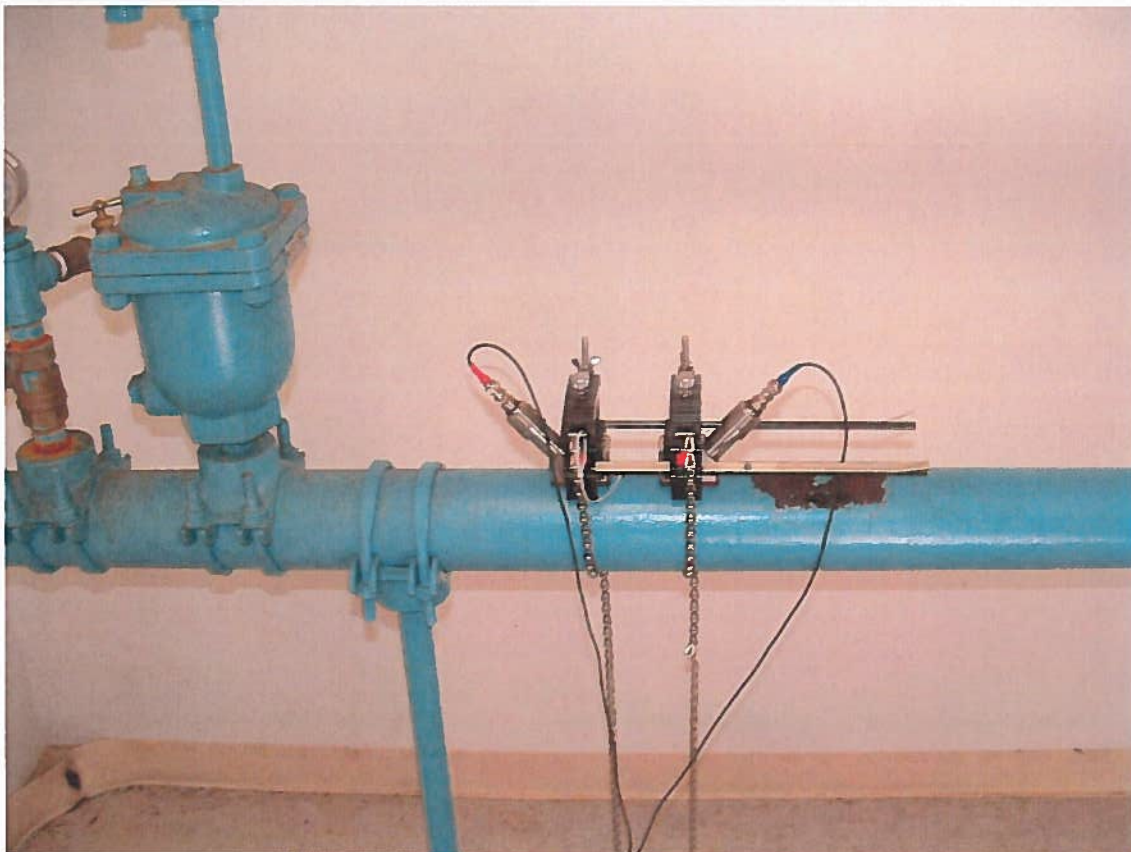


**JD Well House - Room on left is chlorination room - Room on right is motor controls and valves.**

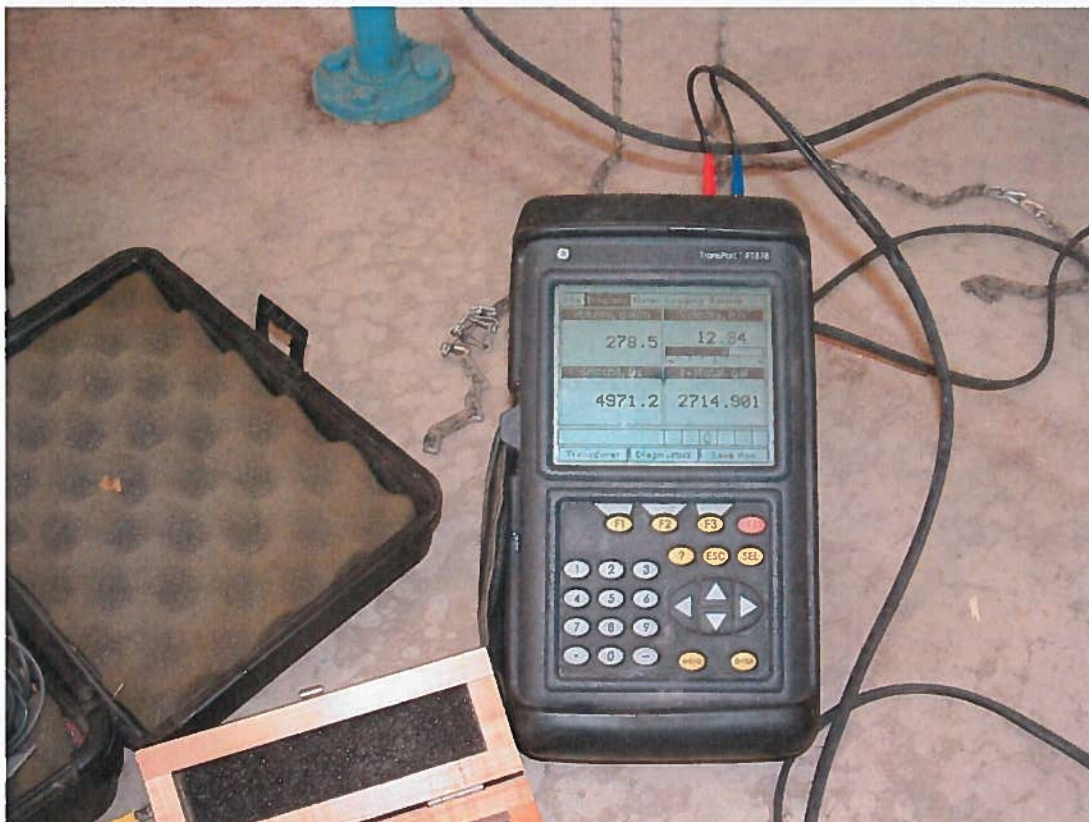




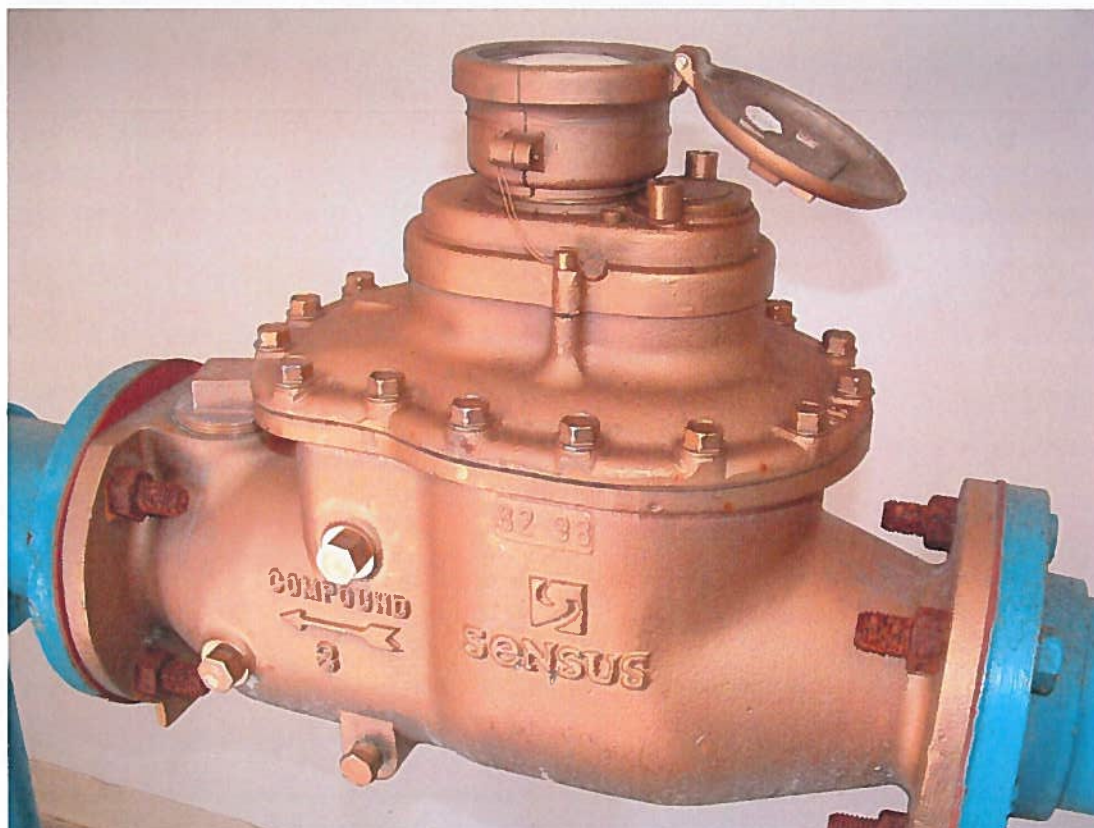
JD Well - Well House Plans. View 3



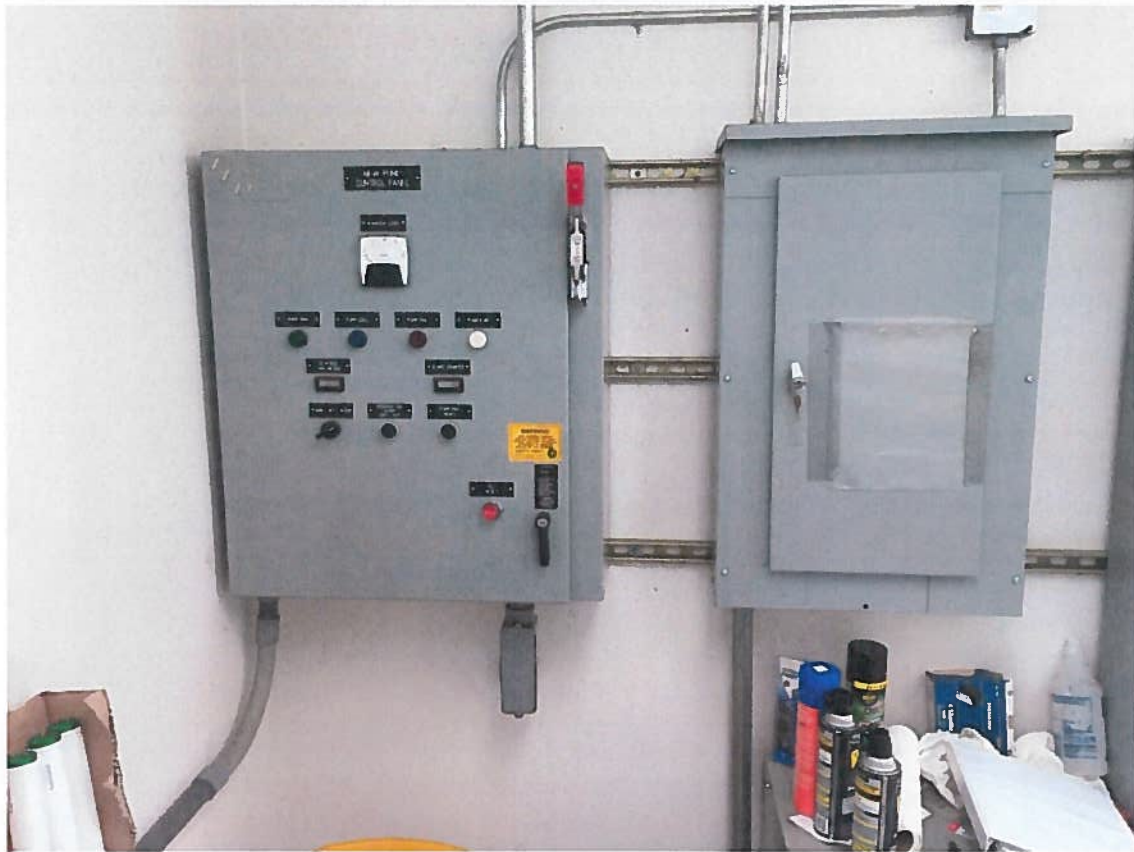
JD Well -Portable ultrasonic flow meter



JD Well -Portable ultrasonic flow meter for installed meter calibration check



JD Well - Installed Flow Meter



JD Well - Pump Panel



JD Well -Piping entering building, with check valve, pressure relief valve, flow meter, and isolation valve



JD Well - Pressure gage, air valve, and isolation valve



JD Well - Pressure gage (88 psi)



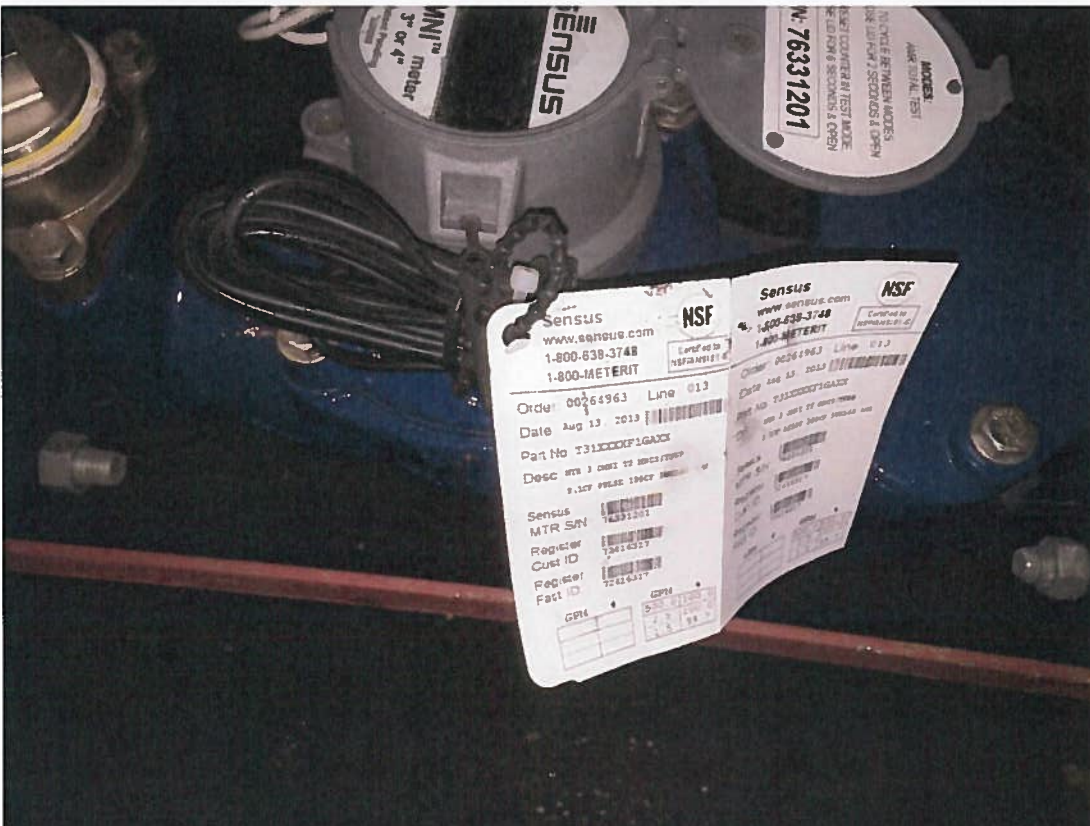
JD Well - Chlorine room; tank and chemical feed pump



JD Well - Chlorine room; piping and pressure gage (90 psi)



Well 5 - Flow meter



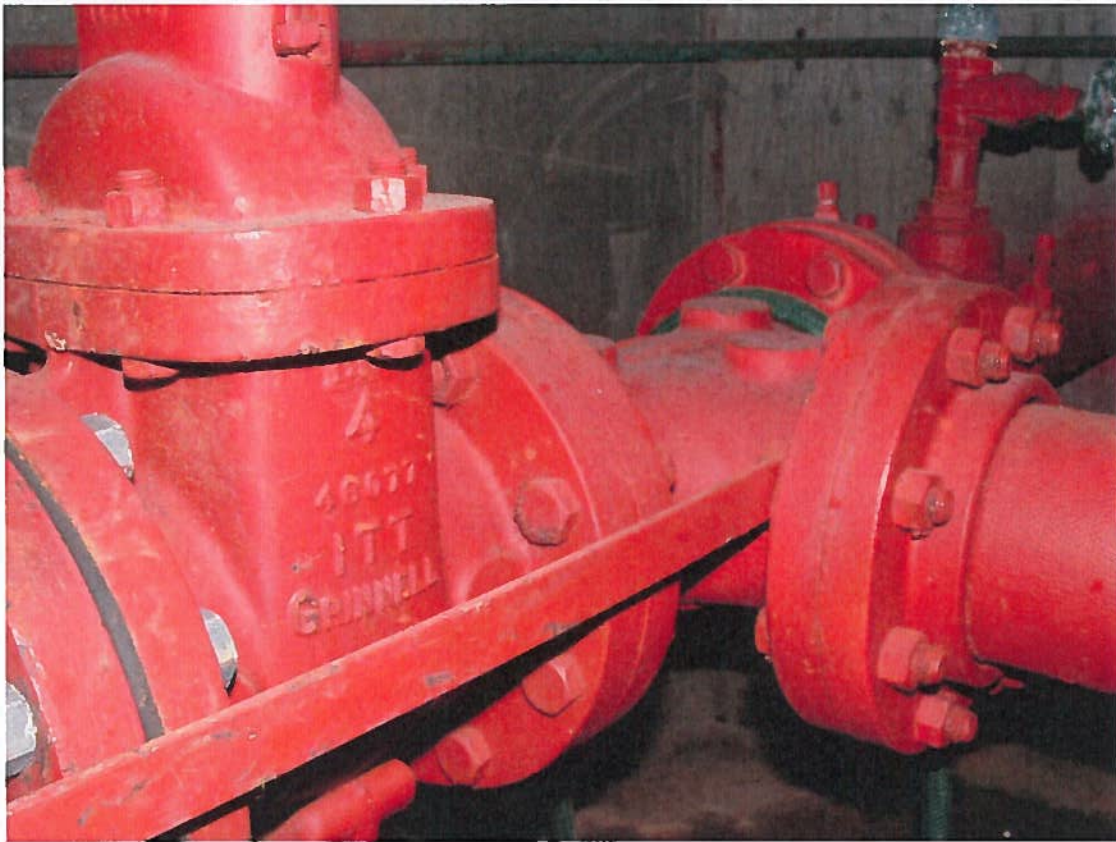
Well 5 - Flow meter



Well 5 – Piping; pressure relief on right, flush to waste in center background; chlorination system on right



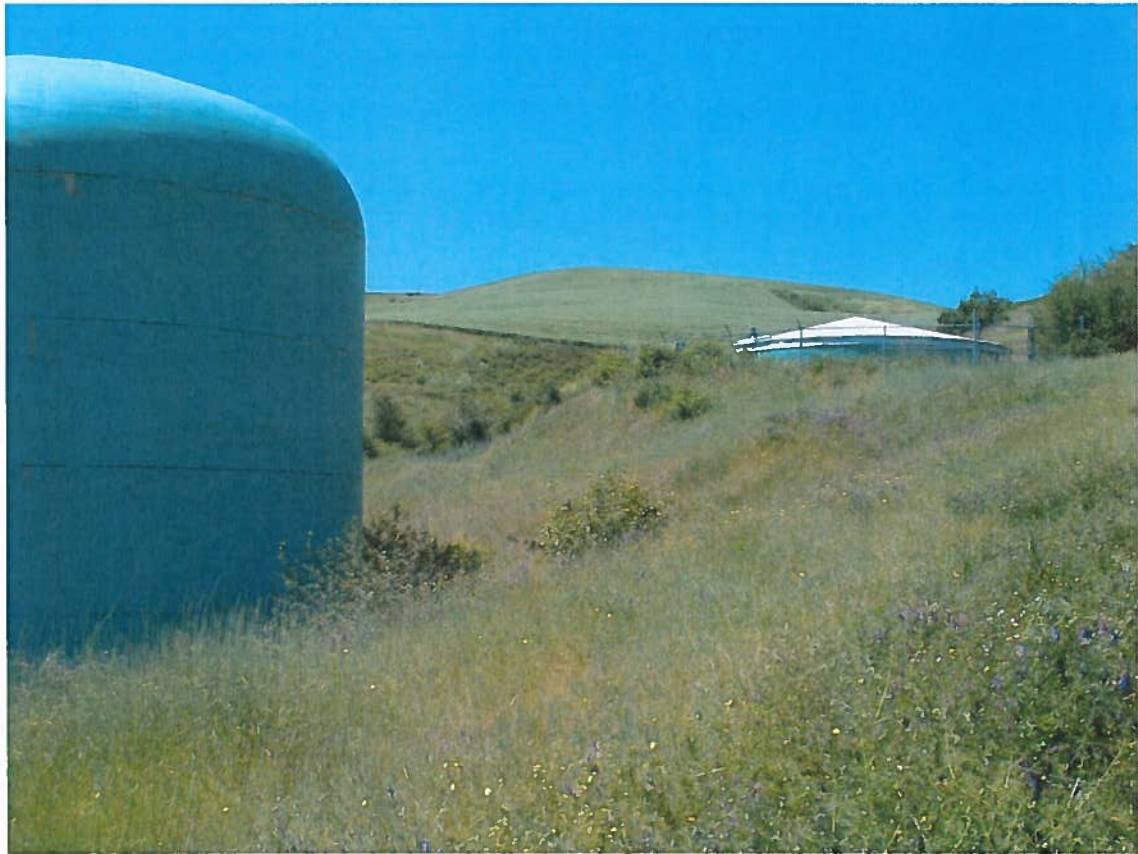
Well 5 – Piping exiting vault to system in background; to pressure relief and waste on left; chlorine injection in center



Well 5 – Piping entering vault in background; flow meter out of picture to left; pressure relief out of picture on right



Well 5 with well house on right and 250,000-gallon tank on left



250,000-gallon tank on left and top of 130,000-gallon tank on right

**Attachment F**  
**Summary of Flow Rate Measurements**

| JD Well Flow Measurements |           |       |               |       |
|---------------------------|-----------|-------|---------------|-------|
| Elapsed Minutes           | Sensus    |       | GE Ultrasonic |       |
|                           | Total gal | gpm   | Total gal     | gpm   |
| 0                         | 331,500   |       | 580           |       |
| 5                         | 332,900   | 280   | 1979          | 279.8 |
| 7                         | 333,445   | 277.9 | 2519          | 277.0 |
| 9                         | 333,990   | 276.7 | 3092          | 279.1 |
| 10                        | 334,266   | 276.6 | 3374          | 279.4 |

| Well Flow No. 5 Measurements |          |        |     |
|------------------------------|----------|--------|-----|
| Elapsed Minutes              | Sensus   |        |     |
|                              | Total CF | CF/min | gpm |
| 0                            | 80.0     |        |     |
| 1                            | 127.2    | 47.2   | 353 |
| 8                            | 452.0    | 46.5   | 348 |
| 9                            | 496.0    | 46.2   | 346 |
| 10                           | 542.0    | 46.2   | 346 |