

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 37-21294  
**Exam Date:** 10/30/2015

1. Current Owner: I  
FMTZ CONSTRUCTION LLC PO BOX 2259 HAILEY ID 83333-2259
2. Accompanied by: N/A – See Narrative  
Phone No:  
Address:  
Relationship to permit Holder:

**3. SOURCE:**  
GROUND WATER

**Method of Determination:** On-site inspection and well logs.

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: No Overlap

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
| N/A             |        |                |       |
|                 |        |                |       |

Comments: N/A

2. Other water rights with the same point-of-diversion: NO Overlap

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
| N/A             |        |                |       |
|                 |        |                |       |

Comments: N/A

**C. DIVERSION AND DELIVERY SYSTEM**

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

GROUND WATER NW¼ NW¼, Sec. 17, Twp 01S, Rge 16E, B.M. CAMAS County  
GROUND WATER NW¼ NW¼, Sec. 17, Twp 01S, Rge 16E, B.M. CAMAS County

**Method of Determination:** On-site inspection and GPS.

**PLACE OF USE: DOMESTIC**

| Twp | Rng | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 01S | 16E | 17  |    |    |    |    |    | X  | X  |    |    |    |    |    |    |    |    |    |        |
| 01S | 16E | 18  | X  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

**Method of Determination:** On-site inspection and aerial imagery in ArcMap.

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 |
|---------------------------|------------|----|------------------|-----------|-----------------------------------|
| D00031937                 |            |    |                  |           |                                   |
| D00031398                 |            |    |                  |           |                                   |

**D. FLOW MEASUREMENTS**

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| Ultrasonic Flowmeter  | FSC  | Fuji | S10A1-00  | A8L8510T   |      | 4/18/08     |

2. Measurements: Both wells were measured on 8/16/2014 by Rusty Kramer, Watermaster for Water District 37B: Main well D00031937 (WMIS #1000899) measured at 535.00 gallons per minute (gpm);  $535.00/448.8 = 1.19$  cfs  
Backup well D00031938 (WMIS #1000898) measured at 540.00 gpm;  $540.00/448.8 = 1.20$  cfs

**E. FLOW CALCULATIONS** N/A

\_\_\_\_\_ Additional Computation Sheets Attached

Measured Method:

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \text{ acres} \times 3.5 \text{ afa} = 1.75 \text{ af rounds to } 1.8 \text{ af}$$

**2. Volume Calculations for Other Uses:**

There are 30 home sites (28 are stub-ins at this time); 0.6 af is standard volume for in house use and stub-ins:

$$0.6 \text{ af} \times 30 \text{ home sites} = \mathbf{18 \text{ af}}$$

There are also 3 non-residential sites that will be limited to 2,500 gpd:

$$(2,500 \text{ gpd} \times 3 \text{ lots}) / 325,850 \text{ gpd} \times 365 \text{ days per year} = \mathbf{8.4 \text{ af}}$$

**Total Volume:**

$$18 \text{ af} + 8.4 \text{ af} + 1.8 \text{ af} = \mathbf{28.2 \text{ af}}$$

**G. NARRATIVE/REMARKS/COMMENTS**

On 10/30/2015, I was in the area, so I stopped by the subdivision to preview what would need to be done in order to get this water permit licensed. As I drove into the subdivision, I noticed that only two homes had been constructed and one was a show home with a billboard, so I stopped to read the sign. The owner of the other home noticed me, and came out to chat. Turned out, Mr. Abel Martinez was a co-owner of the company, FMTZ Construction LLC, which had purchased the subdivision. He told me to feel free to look around and that the pump house was open. I drove over to the pump house and found two well heads on the northeast and northwest end of the pump house and a large buried storage tank just north of the pump house. When I went inside there were two water lines, one from each well and both lines were equipped with McCrometer propeller flowmeters. The system was designed as a primary well and a backup well that were used to fill the storage tank and divert water out to the home sites.

I drove around the lot and counted the locations that had water line connections as they were marked with fiberglass marker posts at the connection valves contained inside a pvc pipe housing. I counted thirty home sites with service connections and four on the non-residential lots. What I saw matches what the developers have indicated and a diagram the original owner, David Anderson provided (see Attachment #1).

On 8/16/2016, the Watermaster for Water District 37B measured both wells at 1.19 cfs from the primary well and 1.20 cfs from the backup well, with both wells exceeding the permitted flow rate of 0.91 cfs.

Comparing what was developed to the permit, it became apparent that a license amendment would be needed as the permit did not include the legal description where the three non-residential lots that had been developed as part of the system located in the NENE of Sec. 18, Twp 01S, Rge 16E.

For volume, 0.6 af will be included for each of the 30 residential lots,  $0.6 \times 30 = 18 \text{ af}$ . The one lot where there is an occupied home also has a 0.5 acre lawn. The head gate requirement in the area is 3.5 afa an acre,  $0.5 \text{ acres} \times 3.5 \text{ afa} \approx 1.8 \text{ af}$ . The three non-residential lots will be limited to 2,500 gpd as one is already developed as a machine shop and the other two are most likely to be developed as commercial storage units according to David Anderson who owns the two vacant non-residential lots.  $2,500 \text{ gpd} \times 365 \text{ days a year} = 8.4 \text{ af}$ . Therefore,  $18 \text{ af} + 1.8 \text{ af} + 8.4 \text{ af} = 28.2 \text{ af}$  volume will be recommended for licensing.

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

**H. RECOMMENDATIONS****1. Recommended Amounts**

| <u>Beneficial Use</u> | <u>Period of Use</u> | <u>Rate of Diversion</u> | <u>Annual Volume</u> |
|-----------------------|----------------------|--------------------------|----------------------|
| DOMESTIC              | 01/01 to 12/31       | 0.91 CFS                 | 28.2 AF              |
| <u>Totals:</u>        |                      | 0.91 CFS                 | 28.2 AF              |

**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 ☐ None

**I. AUTHENTICATION**

William Mills - Water Resource Agent, Senior

Field Examiner's Name Wm Mills Date 4-3-2019

Reviewer \_\_\_\_\_ Date \_\_\_\_\_



Figure 1: Backup well looking east to primary well

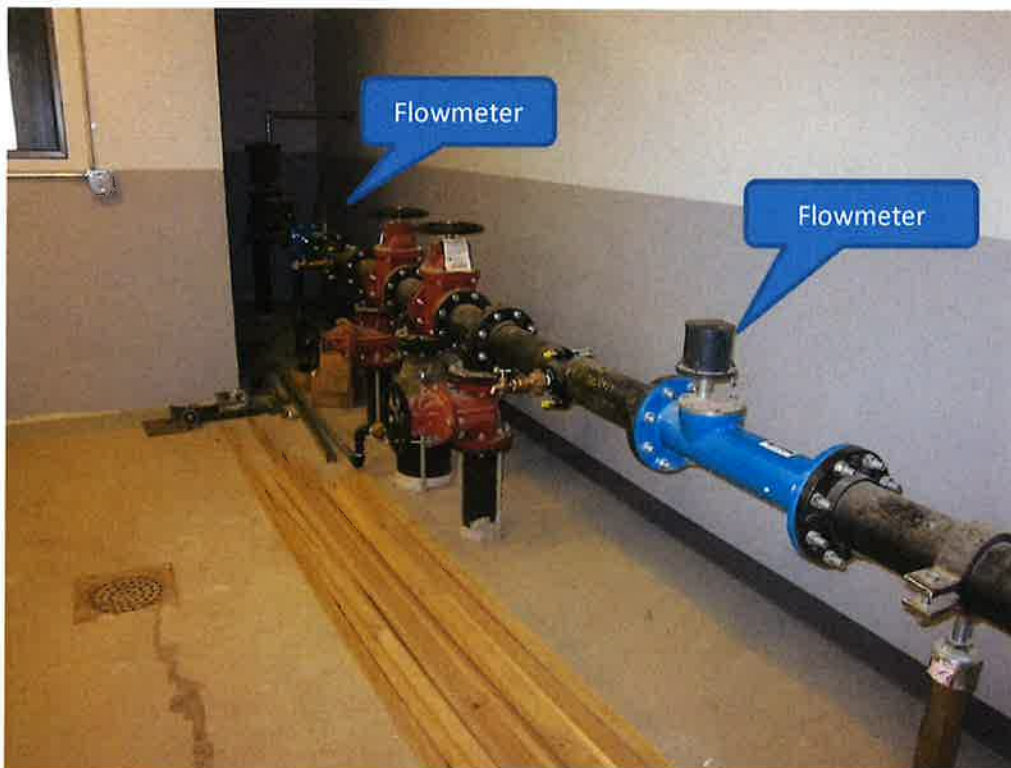


Figure 2: Flowmeters inside pump house

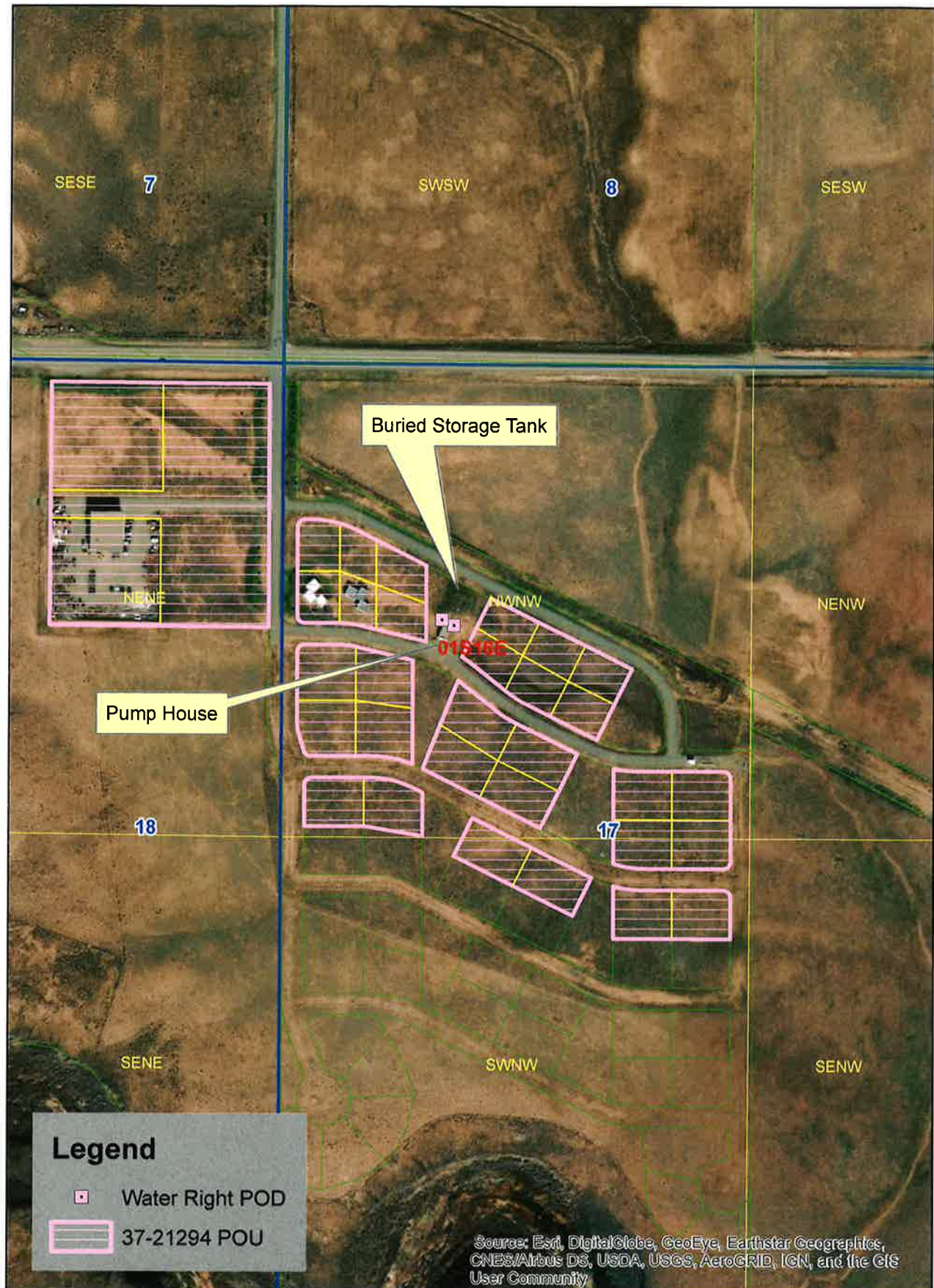


Figure 3: Drain on east side of storage tank



Figure 4: A stub-out with a marker and with additional markers in the background

# System Diagram 37-21294



Idaho Department of Water Resources

**WMIS**

## Water Management Information System

Quick Search:

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Search Method:

WMIS Number ▼

WMIS Number

1000898

Search

[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)**Flow Meter Calibrations***You are viewing 1000898; D00031938*

|                                                                |  |            |  |                             |  |              |  |
|----------------------------------------------------------------|--|------------|--|-----------------------------|--|--------------|--|
| Calibration Date/Time:                                         |  | 08/16/2014 |  | Factor:                     |  | 1.08         |  |
| Installed Meter Data:                                          |  |            |  | Standard Meter Data:        |  |              |  |
| Installed Meter Flow:                                          |  | 540.00     |  | Standard Meter Flow:        |  | 582.00       |  |
| Rate Unit:                                                     |  | GPM        |  | Rate Unit:                  |  | GPM          |  |
| Rate Multiplier:                                               |  | 100.0000   |  | Pipe Material:              |  | CARBON STEEL |  |
| Volume Multiplier:                                             |  | 1.0000     |  | Outside Diameter (inches):  |  | 4.82         |  |
| Volume Unit:                                                   |  | GAL        |  | Wall Thickness (inches):    |  | 0.20         |  |
| Location:                                                      |  |            |  | Downstream Distance (feet): |  | 0.00         |  |
| Comments:                                                      |  |            |  | Upstream Distance (feet):   |  | 0.00         |  |
| Was concerned if there was a liner or not. Owner did not know. |  |            |  | Calibration Confidence:     |  | FAIR         |  |
| Installed Meter Information:                                   |  |            |  |                             |  |              |  |
| Manufacturer:                                                  |  | MCCROMETER |  | Installation Date:          |  |              |  |
| Model Number:                                                  |  |            |  | Serial Number:              |  | 05-08266-4   |  |
| Meter Type:                                                    |  | PROPELLER  |  | Other Well:                 |  |              |  |

Field Exam 37-21294

Idaho Department of Water Resources

**WMIS**

## Water Management Information System

Quick Search:

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Search Method:

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WMIS Number

1000899

Search

[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)**Flow Meter Calibrations**

You are viewing 1000899; 0031937

|                                                          |            |                             |              |
|----------------------------------------------------------|------------|-----------------------------|--------------|
| Calibration Date/Time:                                   | 08/16/2014 | Factor:                     | 1.09         |
| Installed Meter Data:                                    |            | Standard Meter Data:        |              |
| Installed Meter Flow:                                    | 535.00     | Standard Meter Flow:        | 584.00       |
| Rate Unit:                                               | GPM        | Rate Unit:                  | GPM          |
| Rate Multiplier:                                         | 100.0000   | Pipe Material:              | CARBON STEEL |
| Volume Multiplier:                                       | 1.0000     | Outside Diameter (inches):  | 4.82         |
| Volume Unit:                                             | GAL        | Wall Thickness (inches):    | 0.20         |
| Location:                                                |            | Downstream Distance (feet): |              |
| Comments:                                                |            | Upstream Distance (feet):   |              |
| Was wondering if pipe had a liner. Landowner doesnt know |            | Calibration Confidence:     | FAIR         |
| Installed Meter Information:                             |            | Installation Date:          |              |
| Manufacturer:                                            | MCCROMETER | Serial Number:              | 05-08267-4   |
| Model Number:                                            |            | Other Well:                 |              |
| Meter Type:                                              | PROPELLER  |                             |              |

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