

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
NOV 17 2015
DEPARTMENT OF
WATER RESOURCES

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 INFORMATIONPermit No. 63-32003

1. Owner West River Homeowners Association, Inc. Phone No. 208-461-1741
Current address c/o Gerald Van Reusen, PO Box 1396, Nampa, ID 83653
2. Examiner's name Scott N. King, P.E. (Examiner No. 133) EXAM DATE 5/18/2015
3. Accompanied by _____ Email _____
Address _____
Relationship to permit holder _____ Phone No. _____
4. Source Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use Boise Project surface water rights
2. Other water rights with the same source and point of diversion None

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
Well 2			NW	SE	6	2N	3W	Canyon	2013 aerial photo map, site visit

2. Place(s) of Use: Method of determination 2013 aerial photo map, site visit , plat map

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	3W	6														X	X		

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
Well 2	unknown	5	unknown	Grundfos	unknown

*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
Pump curve						

2. **Measurements:** _____

Flow was not measured with the pump used during the development period. The best available estimate of diversion rate is based on the pump curve supplied by Jack Young of Treasure Valley Pump (installer).

E. NARRATIVE/REMARKS/COMMENTS

An 8-inch well, aka Well 2, located on Lot 11, Block 2, has been developed to supply domestic ground water for internal uses to 36 residential lots within West River Subdivision. The 36 lots that have been stubbed to the ground water system are aka Lots 1 - 5, Block 1; Lots 1 - 10, 12 - 14, Block 2; and Lots 1 and 3 - 19, Block 3 (see Record Drawing, Attachment C). The development period for permit 63-32003 ended June 1, 2013. Until recently, a submersible 5 hp Grundfos pump has been used to divert ground water from Well 2 to the developed lots. That pump has since been replaced with a 15 hp Goulds submersible pump.

The well listed in the SENW, aka Well 1, has been drilled, but not developed. Only Well 2 is recommended for licensing.

External domestic water is provided by a separate surface water system. Ground water only is used for internal domestic uses.

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?

The flow meter was purchased during the permit development period, but not installed. The HOA considered the 5 hp pump a "temporary" pump and was waiting to install the flow meter when they replaced the 5 hp pump with a "permanent" pump, which occurred this year. The flow meter is now installed.

F. FLOW CALCULATIONS☒ Additional computation sheets attached

Measured Method:

Per pump curve included in Attachment B: 23 gpm or 0.05 cfs at 65 psi

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:

Permit limit: 10.1 afa

Potential: $0.05 \text{ cfs} \times 365 \text{ dys} \times 1.9835 = 36.1 \text{ afa}$ **H. RECOMMENDATIONS**

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/1	12/31	0.05 cfs	10.1 afa
Fire Protection	1/1	12/31	0.05 cfs	n/a
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			0.05 cfs	10.1 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

Scott N. King

Date

November 13, 2015

Reviewer _____

Date _____



ATTACHMENT A

**PERMIT RECORD, PROOF OF BENEFICIAL USE &
REINSTATMENT REQUEST**

[Close](#)

IDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report

10/27/2015

WATER RIGHT NO. 63-32003

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	WEST RIVER LLC 11329 WEST RIVER RD CALDWELL, ID 83607
Original Owner	SHERFIRE PROPERTIES 984 W CORPORATE LN STE 201 NAMPA, ID 83651 (208)466-2500
Original Owner	JIM SHERVIK C/O SHERFIRE PROPERTIES 984 W CORPORATE LN STE 201 NAMPA, ID 83651 (208)466-2500

Priority Date: 10/15/2004

Status: Lapsed

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
DOMESTIC	01/01	12/31	0.12 CFS	10.1 AFA
FIRE PROTECTION	01/01	12/31	0.26 CFS	
Total Diversion			0.26 CFS	

Location of Point(s) of Diversion:

GROUND WATER|NWSE |Sec. 06|Township 02N|Range 03W|CANYON County
 GROUND WATER|SESWSE|Sec. 06|Township 02N|Range 03W|CANYON County

DOMESTIC Use:
 Number of homes: 36

Place(s) of use:

Place of Use Legal Description: DOMESTIC CANYON County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
02N	03W	6		NWSE			SWSE							

Place of Use Legal Description:FIRE PROTECTION same as DOMESTIC

Conditions of Approval:

1. WB5 Domestic use is for 36 homes and does not include lawn, garden, landscape, or other types of irrigation.
2. 071 The domestic use authorized under this right shall not exceed 13,000 gallons per day per home.
3. 26A Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
4. X59 Points of diversion are located within Lot 10, Blk. 2; and Lot 2, Block 3; West River Subdivision.
5. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. Water bearing zone to be appropriated is from 250 to 500 feet.
7. Only one well may be operated at a time under this water right except in the case of a fire unless the Department expressly approves a method of measurement and reporting that insures adherence to annual volume limitations while water is pumped from both wells simultaneously.
8. X49 Prior to diversion of water under this right, the water right holder must install an in-line measuring device in the mainline from its wells that will accurately measure the instantaneous flow from the wells, record the maximum flow for a given month, and will measure, total, and record the total volume of water diverted from the wells. The totalizer function of the measuring devices must be capable of totalizing several years of volume

- diverted, and must not allow the operator to reset the volume totalizer. The measuring devices must be a propeller, ultrasonic, magnetic meter or another meter expressly approved by IDWR. The measuring devices must be calibrated after installation with an independent, reliable, portable measuring device that has been pre-calibrated to a known flow rate. The measuring devices must be re-calibrated at least every three years after the first calibration. The water right holder must read the measuring devices and record the information read at least monthly. The water right holder must read and record the maximum flow rate diverted from each well and the totalizer readings of volume diverted. The water right holder must also maintain records of the dates of measuring device calibration, the method of calibration, and who performed the calibration. These records must be maintained by the water right holder at all times and must be submitted to the Department at any time the Department requests the records.
9. 11.121
10. X60 Place of use is located within Lots 1-6, Blk. 1; Lots 1-12, Blk. 2; and Lots 1-18, Blk. 3; West River Subdivision.
- The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

Dates:

Proof Due Date: 06/01/2013

Proof Made Date:

Approved Date: 05/03/2006

Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Application Received Date: 10/15/2004

Protest Deadline Date: 02/07/2005

Number of Protests: 1

Field Exam Date::

Date Sent to State Off:

Date Received at State Off:

Other Information:

State or Federal:

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

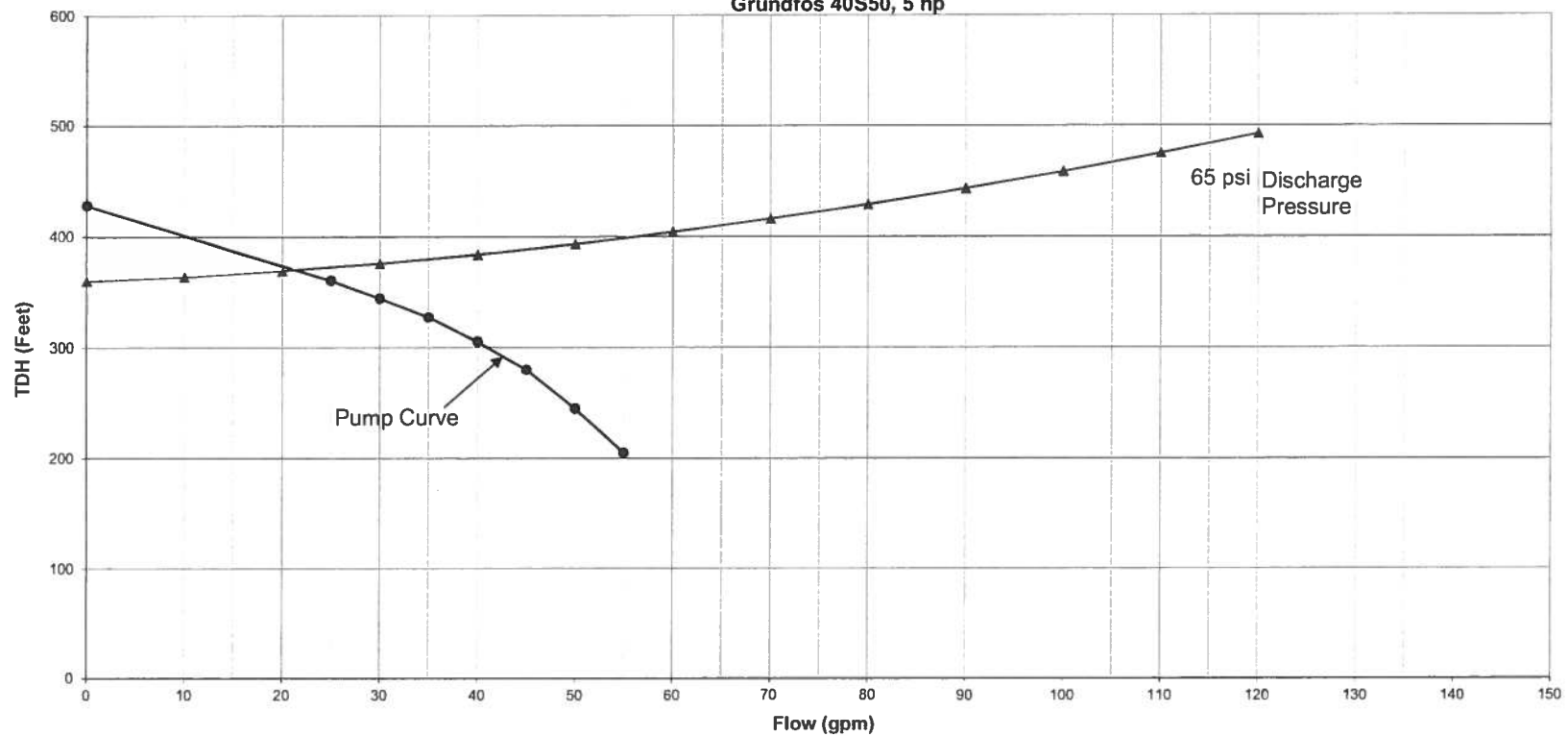
Mitigation Plan: False

ATTACHMENT B

WELL DRILLERS REPORT AND PUMP CURVE

West River Well #2 - Temporary Pump Installed through Approx. July 2015

Grundfos 40S50, 5 hp



63

840972

411253

Form 238-7
11/97 JGE

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. WELL TAG NO. D 00046990

DRILLING PERMIT NO. 895589-840972

Other IDWR No. 63-32003

2. OWNER:

Name Sherfire Properties / Jim Shervik well #2

Address 984 W. Corporate Lane, Suite 201

City Nampa State ID Zip 83651

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

North ☒ or South ☐
East ☐ or West ☒
Twp 2 Rge 3 Sec 6
Gov't Lot _____ County Canyon
Lat: _____ Long: _____
Address of Well Site Locust Lane - 3/8 mi.

W of Cool Rd City Caldwell

LL 10 Blk 2 Sub Name West River

4. USE:

- ☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Public Water Supply

5. TYPE OF WORK: check all that apply (Replacement etc.)

- ☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD:

- ☐ Air Rotary ☐ Cable ☒ Mud Rotary ☐ Other

7. SEALING PROCEDURES:

Seal/Filter Pack		AMOUNT		METHOD
Material	From To	Sacks or Pounds		
Bentonite	0 218'	70 Sacks		Overbore
Grout	218' 340'	310 Gals		Overbore
10/20 Sand	340' 420'	2 Yds.		Poured

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+3' 380'	.322	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

- ☐ Perforations ☒ Screens
Method _____ Screen Type Johnson

From To	Slot Size	Number	Diameter	Material	Casing	Liner
380' 420'	.020		8"	SS	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

200 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control

devices: Cap

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
50+ gpm			

Water Temp _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
14"	0	4'	Top Soil			
14"	4'	35'	Shily Clay & Sand Seams			
14"	35'	90'	Gravel			
14"	90'	150'	Tan Clay			
14"	150'	220'	Tan Clay & Sand Seams			
14"	220'	280'	Blue Clay			
14"	280'	330'	Blue Clay & Sand Seams			X
14"	330'	380'	Blue Clay			
14"	380'	420'	Gray Sand			X

RECEIVED

MAR 26 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 420' (Measurable)
Date: Started 2/2/2007 Completed 2/13/2007

13. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Treasure Valley Drilling

Firm No. 560

Firm Official

Date 2/21/2007

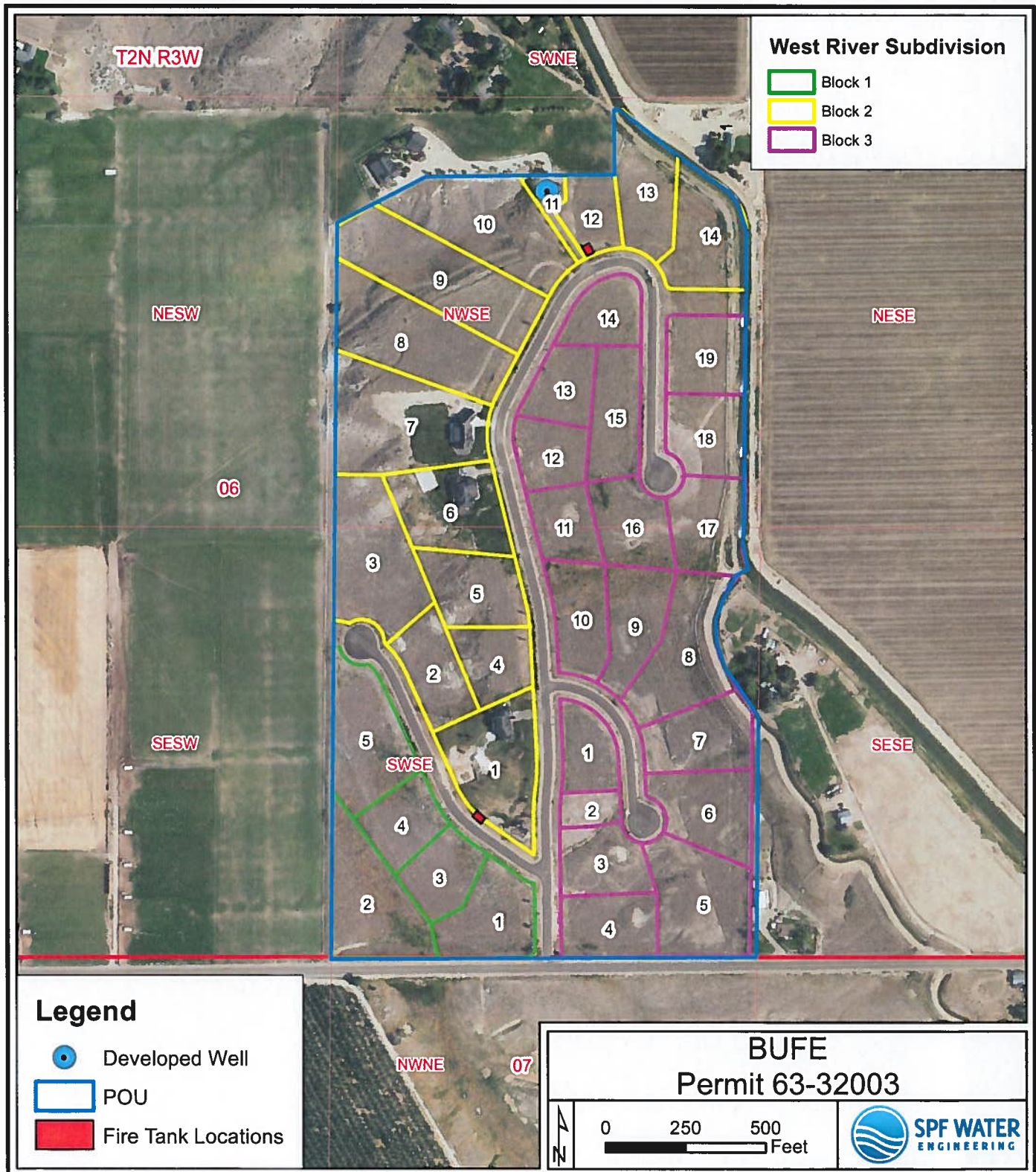
and
Driller or Operator

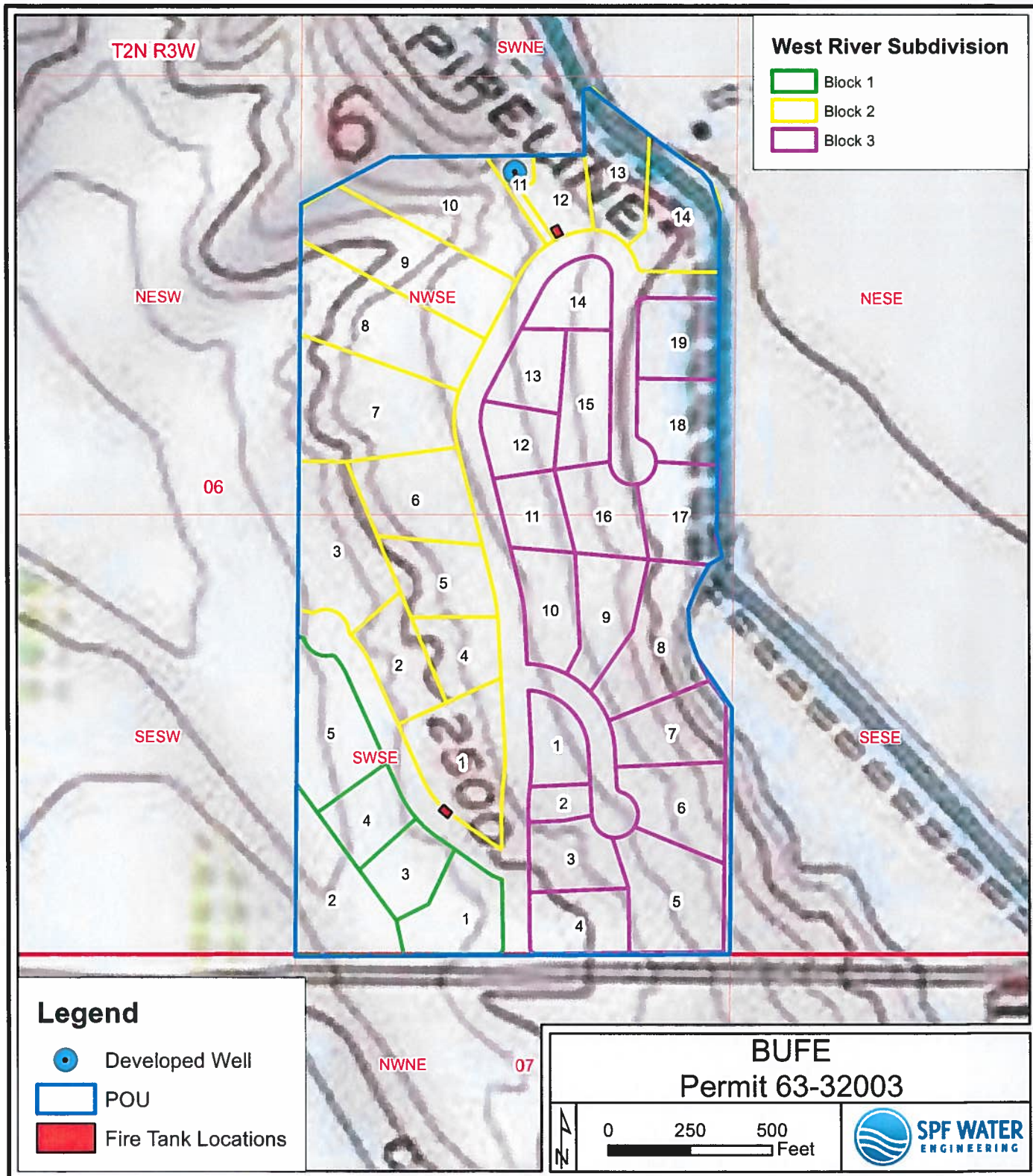
ie 2/21/2007

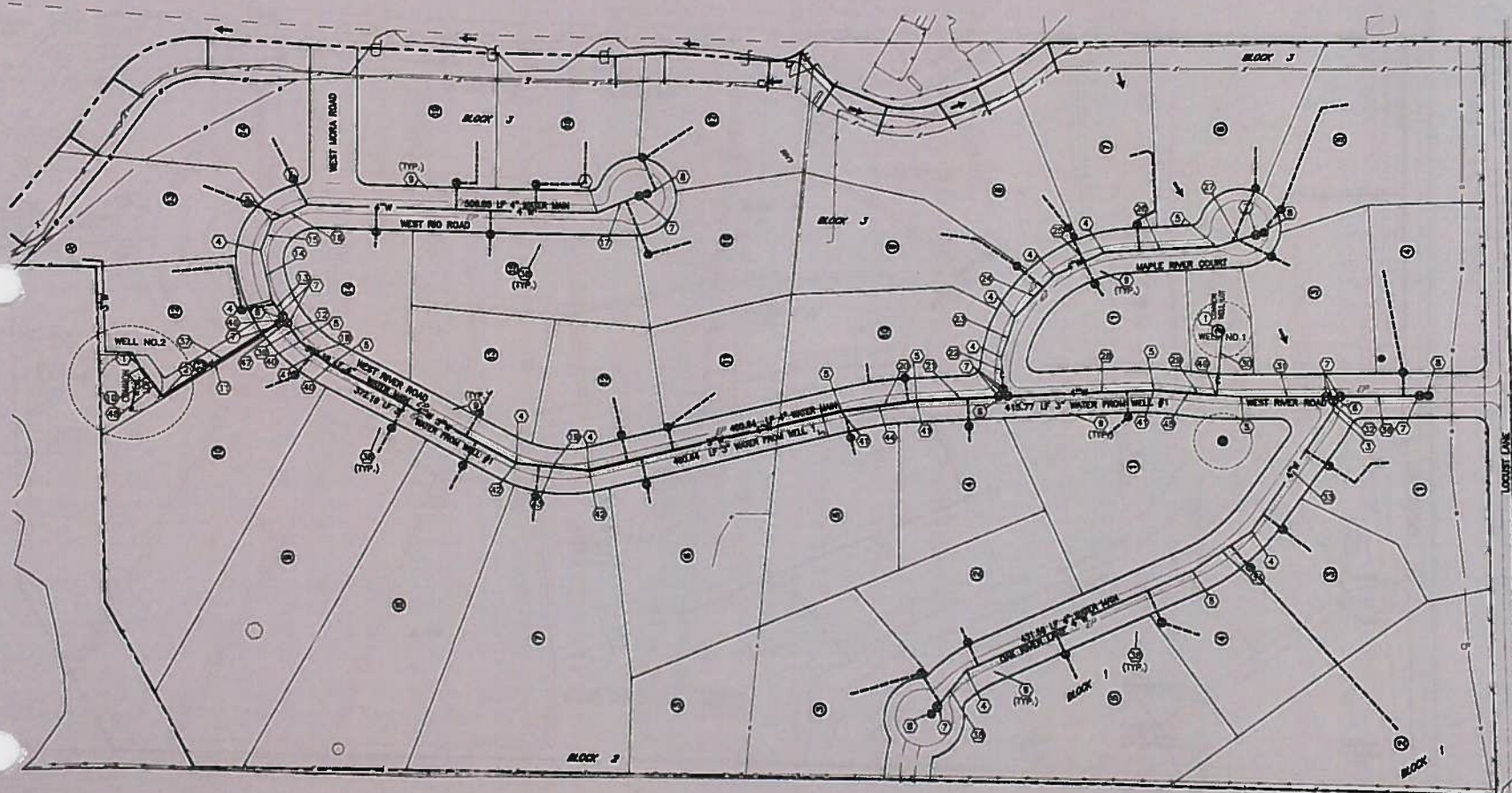
George Post

ATTACHMENT C

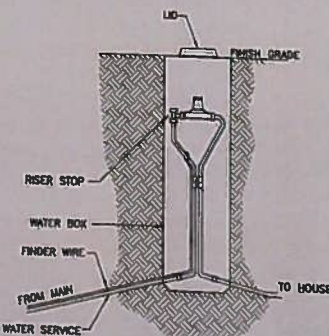
2013 AERIAL PHOTO, TOPO MAP & RECORD DRAWING





**WATER KEY NOTES**

- 1 CONNECT TO COMMUNITY WELL
- 2 4" WATER MAIN
- 3 INSTALL 4" 90° M.J. ELBOW
- 4 INSTALL 4" 45° M.J. ELBOW
- 5 INSTALL 4" 22 1/2° M.J. ELBOW
- 6 INSTALL 4" 11 1/4° M.J. ELBOW
- 7 INSTALL 4" F.L.G. TEE
- 8 INSTALL 4" F.L.G. GATE VALVE
- 9 INSTALL 4" BLOWOFF
- 10 INSTALL 1" WATER SERVICE
- 11 INSTALL 57.00 LF 4" WATER MAIN
- 12 INSTALL 248.76 LF 4" WATER MAIN
- 13 INSTALL 48.51 LF 4" WATER MAIN
- 14 INSTALL 40.51 LF 4" WATER MAIN
- 15 INSTALL 91.35 LF 4" WATER MAIN
- 16 INSTALL 57.87 LF 4" WATER MAIN
- 17 INSTALL 57.23 LF 4" WATER MAIN
- 18 INSTALL 88.56 LF 4" WATER MAIN
- 19 INSTALL 68.93 LF 4" WATER MAIN
- 20 INSTALL 120.82 LF 4" WATER MAIN
- 21 INSTALL 134.58 LF 4" WATER MAIN
- 22 INSTALL 152.82 LF 4" WATER MAIN
- 23 INSTALL 70.16 LF 4" WATER MAIN
- 24 INSTALL 75.43 LF 4" WATER MAIN
- 25 INSTALL 104.16 LF 4" WATER MAIN
- 26 INSTALL 96.43 LF 4" WATER MAIN
- 27 INSTALL 195.55 LF 4" WATER MAIN
- 28 INSTALL 78.73 LF 4" WATER MAIN
- 29 INSTALL 264.38 LF 4" WATER MAIN
- 30 INSTALL 155.25 LF 4" WATER MAIN
- 31 INSTALL 110.00 LF 5" WATER FROM WELL #1
- 32 INSTALL 158.36 LF 4" WATER MAIN
- 33 INSTALL 25.81 LF 4" WATER MAIN
- 34 INSTALL 258.20 LF 4" WATER MAIN
- 35 INSTALL 122.30 LF 4" WATER MAIN
- 36 INSTALL 91.07 LF 4" WATER MAIN
- 37 INSTALL 164.97 LF 4" WATER MAIN
- 38 INSTALL 248.76 LF 5" WATER FROM WELL #1
- 39 INSTALL WATER BOX AND LID SEE DETAIL THIS SHEET
- 40 INSTALL 48.01 LF 4" WATER MAIN
- 41 INSTALL 5" 11 1/4° M.J. ELBOW
- 42 INSTALL 88.36 LF 4" WATER MAIN
- 43 INSTALL 3" 22 1/2° M.J. ELBOW
- 44 INSTALL 135.82 LF 5" WATER FROM WELL #1
- 45 INSTALL 135.82 LF 5" WATER FROM WELL #1
- 46 INSTALL 109.05 LF 5" WATER FROM WELL #1
- 47 INSTALL 3" 90° F.L.G. ELBOW
- 48 INSTALL 3" F.L.G. GATE VALVE
- 49 INSTALL 50.01 LF 5" WATER FROM WELL #1



RECORD CONSTRUCTION DOCUMENTS

THESE ARE RECORD CONSTRUCTION DOCUMENTS WHICH WERE PREPARED FROM INFORMATION PROVIDED BY OTHERS. LEAVITT & ASSOCIATES ENGINEERS, INC. HAS NOT COMPILED THE CORRECTNESS OF THIS INFORMATION AND IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS WHICH MAY BE INCLUDED.

RECORD CONSTRUCTION DOCUMENTS

THIS CONSTRUCTION DOCUMENT, INCLUDING THE REAM AND DESIGNS SHOWN HEREON, IS AN INSTRUMENT OF PROFESSIONAL SERVICE, AND IS THE SOLE PROPERTY OF LEAVITT & ASSOCIATES ENGINEERS, INC. THIS DOCUMENT OR ANY PART IS NOT TO BE USED FOR ANY OTHER PROJECT, OR IN ADDITION TO THIS PROJECT, WITHOUT WRITTEN PERMISSION FROM LEAVITT & ASSOCIATES ENGINEERS, INC.

RECORD DRAWING

ATTACHMENT D
PHOTOS



POD (Well 2): T2N R3W, S6 NWSE (Lot 11, Block 2)



Pump House: T2N, R3W, S6, NWSE (Lot 11, Block 2)



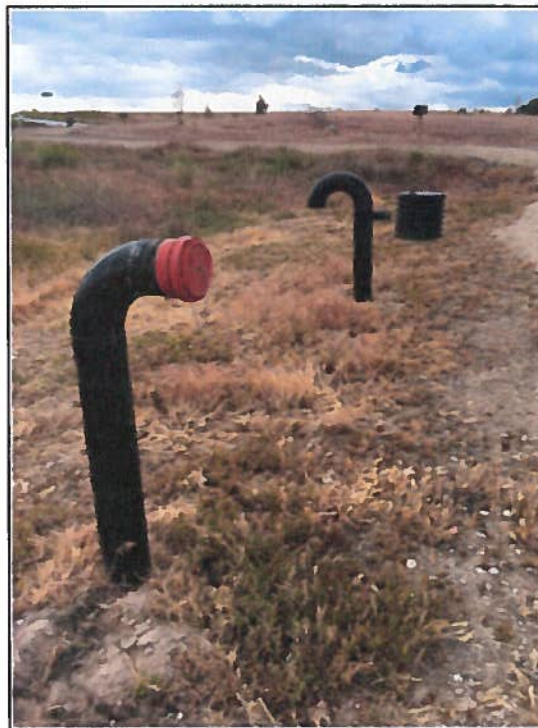
Pressure Tanks for Domestic Ground Water System (inside pump house)



Piping from Well 2 & Flow Meter (inside pump house)



Domestic Ground Water System Stub Markers



Fire Tank Location: T2N, R3W, S6, NWSE (Lot 12, Block 2)



Fire Tank Location: T2N, R3W, S6 SWSE (Lot 1, Block 2)



Filter for Pressurized Surface Water System
T2N, R3W, S6, NWSE (Lot 11, Block 2)