



**Ray's Well Testing Service Inc.**  
 4853 Vine Hill Rd, Sebastopol Ca 95472  
**Phone** 707 823 3191 **Fax** 707 317 0057 **Lic#** 903708

#### CUSTOMER INFORMATION

REPORT #: 11759-2 - By: Matt Owens	DATE OF TEST: 3/30/20
CUSTOMER NAME: Anna J. Jensen	CONTACT:
AGENT NAME: Karl Bundesen - Century 21	CONTACT: 707 769 9000
PROPERTY ADDRESS: 3501 Middle Rd, Petaluma CA 94952	SENT TO: karl.bundesen@bundesen.com

#### WELL DATA

LOCATION OF WELL:	Domestic Well - Down hill from house near storage tank
TYPE OF WELL:	Drilled
DEPTH OF COMPLETED WELL:	Probe stopped at 100 Feet at top of pump
DIAMETER OF WELL CASING:	8" I.D. Steel
SANITARY WELL SEAL (PLATE SEAL AT OPENING OF WELL CASING):	Yes
ANNULAR SEAL (IN-GROUND SEAL OF BOREHOLE):	Unknown - Please Refer to well log
PUMP HP AND TYPE:	3/4 HP 230V Submersible, 1.25" Sch. 80 pipe, #12-4 cable
DEPTH OF PUMP SUCTION:	100 Feet

#### WATER PRODUCTION RESULTS

WATER LEVEL AT START (STATIC LEVEL):	9.7 Feet	FLOW RATE AT START:	14.1 GPM
FINAL PUMPING LEVEL:	100 Feet	FINAL FLOW RATE:	<b>3.2 GPM</b>
WATER LEVEL DRAWDOWN:	90.3 Feet	TOTAL LENGTH OF TEST:	2 Hours

#### CONSTANT PUMPING LEVEL INFORMATION

STABILIZED PUMPING LEVEL:	100 Feet	STABILIZED FLOW RATE (YIELD):	<b>3.2 GPM</b>
DURATION OF CONSTANT PUMPING LEVEL:	1 Hour 30 Minutes	TOTAL YIELD:	288 gallons

#### WATER SYSTEM INSPECTION

WELL PUMP	Functional	TECHNICAL INFO: 14.1 GPM @ 70 PSI @ 20', 8.6 amps, control box dated 2017
ELECTRICAL	Functional	TECHNICAL INFO: 20 amp breaker in sub panel at well
PRESSURE TANK	See Comments	TECHNICAL INFO: See Comments
STORAGE TANK	Functional	TECHNICAL INFO:
BOOSTER PUMP	Functional	TECHNICAL INFO:

#### WATER QUALITY TESTING

THE FOLLOWING SAMPLES ARE BEING ANALYZED. PLEASE REFER TO FOLLOW-UP REPORT FOR RESULTS.		
Basic Residential Package	DATED: 3/30/20	TURNAROUND: Standard
	DATED:	TURNAROUND:
	DATED:	TURNAROUND:
	DATED:	TURNAROUND:

**SEE NEXT PAGE FOR FURTHER INFORMATION...**

DATE: 3/30/20

ADDRESS: 3501 Middle Rd, Petaluma CA 94952

**COMMENTS:**

1. The recharge rate at the end of the test was 3.2 gallons per minute. This test may not represent the long term or seasonal yield.
2. The water had a yellow tint for the first 30 minutes of the test and a light grey tint for the remainder.
3. The well discharged a pinch of fine grey sediment per 5 gallons for the final 90 minutes of the test.
4. The water had a slight metallic odor for the duration of the test.
5. The well pressurizes the 2 gallon WX-101 pressure tank (0 PSI air charge, partially waterlogged). The operating pressure range is set 40 to 60 PSI. This system pressurizes water to fill the 8000 gallon concrete storage tank. The tank fill is controlled by a mechanical float valve in the tank. The water in the tank was very cloudy. The well pump is protected by a Pumpsaver 231 device with the delay timer set to 50 minutes. The storage tank is weeping water from several cracks.
6. The 1 HP 230V Goulds 25GBC10 booster pump draws water from the storage tank and pressurizes the 119 gallon Water Worker HT119B pressure tank (2017, 33 PSI air charge). The operating pressure range is set 40 to 55 PSI. This system pressurizes water for domestic use only. The suction line to the booster pump is plumbed to keep a 3000 gallon reserve in the tank for emergency use.
7. There is moderate scale/corrosion of the interior of the steel well casing where visible looking down the well from the surface.

**RECOMMENDATIONS:**

1. The well pump pressure tank has failed. Recommend replacement or converting the well to fill with a relay and electric float switch.
2. There are multiple exposed romex wires powering the well and booster pumps. Recommend installation of conduits to protect wires.
3. The well, booster, and agricultural pumps all share a common circuit coming from an overhead service. Recommend installation of a sub panel, individual circuit breakers for all systems and running buried conduit to eliminate hazard from the overhead service.
4. There is no check valve at the well head. Recommend installation of a check valve.
5. The booster pump is not protected from dry running. Recommend installation of a dry run control device.
6. There is not a pressure relief valve on the booster system. Recommend installation of a pressure relief valve.
7. The water tests indicate presence of bacteria. Recommend disinfection of water system and installation of domestic treatment system.

Thank you for allowing us to do your well inspection!

**APPROVED BY: NICK BRASESCO**



Water levels and well depth are measured as feet below top of well casing unless otherwise noted.

All wells and springs are subject to seasonal and yearly changes in regards to water yield, production and quality. Wells may be influenced by creeks or other water sources and are likely to yield less water during dry months of the year; typically August, September, & October. We make no predictions of future water production or water quality.

This report is for informational use only and is in lieu of and supercedes any other representation or statements of the agent or employee of the company, and all other such representations or statements shall be relied upon at the customer's own risk. The data and conclusions provided herein are based upon the best information available to the company using standard and accepted practices of the water well drilling industry. However, conditions in water wells are subject to dramatic changes in short periods of time. Therefore, the data and conclusions are valid only as of the date of the test and should not be relied upon to predict either the future quantity or quality the well will produce. The company makes no warranties either expressed or implied as to future water production and expressly disclaims and excludes any liability for consequential or incidental damages arising out of the breach of any expressed or implied warranty of future water production or out of any further use of the report by the customer.



Well Head



Electrical Sub Panel



Well Pump Pressure Tank



Storage Tank





Booster Pump



Booster Pump Sub Panel



Booster Pump Pressure Tank



Domestic Shut Off Valve





Interior View of Well Casing



Emergency Reserve Valve

