



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII

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October 3, 2017

**WAI'AHA DEEPWELL
HISTORY AND REPAIR STATUS INFORMATION SHEET
Information Sheet**

Overview

Wai'aha Deepwell consists of a pump and motor which can produce approximately 1,400 gallons per minute. The pumping unit is housed in a 20" well casing, which is approximately 1,754 feet deep. The pump bowl diameter is 11-1/8" and the pump is approximately 17 feet long. The motor is a 4-Pole, 700 horsepower, 4,160-volt submersible motor. The motor diameter is 11" and it is approximately 17 feet long.

Prior History

Designed and built in June 2006, Wai'aha Deepwell has undergone repair one (1) time prior to this current repair.

Current Repair Status

Wai'aha Deepwell is currently undergoing repair. Contractor for this repair is Derrick's Drilling and Pump Services, LLC. Repairs include the replacement of the existing deepwell submersible pump and motor, power cable, column pipe, column couplings, and all appurtenant materials, such as cable guards and strapping; appurtenant electrical work; and chlorination and testing of the well and pumping assembly. Pump and motor were installed as of July 26, 2017. Upon startup on July 27, 2017 the motor tripped on over current condition. Trouble-shooting indicated a problem "down-hole" so the contractor proceeded with extracting all of the column pipes, pump and motor. On July 29, 2017, during extraction of the pump and motor, there was a failure in the lifting cable resulting in the pump, motor, most of the column pipe, and the power cable falling into the well. The contractor is working to remove the pump and motor from the well. If removal is successful, the well will need to be inspected for any damages. The pump, motor, column pipe, and power cable will need to be replaced to prevent an unknown weakened component causing a failure in the future. At this time, the schedule for this well repair is unknown.

Restriction Information

A Water Restriction Notice requires customers to reduce water consumption by 25%. The Water Restriction Notice can be found on our website, www.hawaiidws.org, and lists various ways that consumers can conserve water to help reach the 25% reduction goal.

Contact

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