FIELD MEMORANDUM

WELL(S) NO. 1744-03 ___________________ DATE 6/2/81

LOCATION 54-75 KALANIANAOLE HWY.

SUBJECT WELL INSPECTION.

PRESENT MILTON YAMASAKI AND NEAL IMADA

FIELD NOTES THE SITE IS CURRENTLY A PARK AND NO WELL WAS FOUND IN THE AREA. K.Y. CHANG ALSO INFORMED US THAT ON A PREVIOUS INSPECTION HE COULD NOT LOCATE THE WELL. AN INVESTIGATION OF WELL RECORDS COULD NOT AID IN LOCATING THE WELL THEREFORE THE WELL IS CONSIDERED LOST.

L e t

Milton Y. 

page 1 of 1
March 31, 1981

Mr. Paul R. Cassiday

Dear Mr. Cassiday:

On February 27, 1981, the Board of Land and Natural Resources designated the Honolulu and Waialua Districts as the Honolulu Ground Water Control Area and the Waialua Ground Water Control Area. By this action, the Department of Land and Natural Resources is now responsible for regulating all uses of ground water in these areas.

If you are currently using ground water from any well or spring source, you are required to declare such water use to the Department of Land and Natural Resources if you wish to continue your present use. Specifically, you must fill out, sign, and return the enclosed Declaration of Existing Water Withdrawal and Use form to the Department by June 4, 1981, in accordance with Regulation 9 of the Department of Land and Natural Resources.

According to our records, you have 1 well(s) located on your property (Tax Map Key ). Please complete the enclosed form and return it as soon as possible to: Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

If you have any questions or need help in filling out the form, please call the Division of Water and Land Development at . Thank you for your cooperation.

Very truly yours,

SUSUMU ONO
Chairman of the Board
WELL INFORMATION SHEET

Instructions: The following information is currently on file at the Department of Land and Natural Resources, Division of Water and Land Development. If there are any changes, please make the necessary corrections and return to the Department of Land and Natural Resources.

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Number</td>
<td>1744-C3</td>
</tr>
<tr>
<td>Name or Location</td>
<td>Nhu Valley</td>
</tr>
<tr>
<td>Owner or User</td>
<td>Paul Casaday</td>
</tr>
<tr>
<td>Year drilled</td>
<td>1991</td>
</tr>
<tr>
<td>Driller</td>
<td>Nat Whiten</td>
</tr>
<tr>
<td>Ground Surface Elevation</td>
<td></td>
</tr>
<tr>
<td>Casing Diameter in inches</td>
<td>6</td>
</tr>
<tr>
<td>Total depth of well in feet</td>
<td>26</td>
</tr>
<tr>
<td>Casing depth in feet</td>
<td>27</td>
</tr>
<tr>
<td>Major Use</td>
<td></td>
</tr>
<tr>
<td>Static Water Level in feet</td>
<td></td>
</tr>
<tr>
<td>Chloride content of water</td>
<td></td>
</tr>
<tr>
<td>Installed pump capacity</td>
<td></td>
</tr>
<tr>
<td>Average annual draft</td>
<td></td>
</tr>
</tbody>
</table>

☐ Domestic ☐ Disposal
☐ Municipal ☐ Unused ☐ Lost
☐ Irrigation ☐ Sealed ☐ Recharge
☐ Industrial ☐ Observation ☐ Other (specify)
Dear Mr. Dillingham,

I am pleased to announce that on Jan. 19, 1953 we completed all work on your 6" Shallow-Gravel Water Well, the deep well pump, and the pipe line connecting same to your existing lawn irrigating system. All were left in good working order, the yard man was instructed as to the operation of the pump, valves, etc., and the whole installation; in a general way, met with Mrs. Dillingham's approval.

A lag of the well was previously submitted but I will review by saying that you have a 27 foot well with 4" slotted casing going the full depth. The normal water level is 15.2'. All measurements refer to the top of the concrete base which is elevation . The most recent water sample was taken Dec. 28, 1951 and tested 48 grains per gallon by the Board of Water Supply. **509 PPM**

The pump installed is a Fairbanks Morse Little Chief turbine pump with 3 HP electric motor. The length of the pump is 24' which gives a submergence of 9'. When pumping full capacity - 50 gpm - the water level draws down 5.1'. The pump will deliver 50 gpm to the swimming pool and adequately supply all the sprinkling sections. It was necessary to cut 2 of these sections in half (or nearly so) as it was found that they had too many sprinkler heads for the capacity of the pump and the safe yield of the well. The number of heads in the sections now (going from Koko Head to Diamond Head) are 17, 17, 12, 25, & 21. The long line paralleling the beach was cut to 8 and 6. The one section containing 25 heads will later be cut to about 18 when part of its area is paved.

A ¾" line bordering the tennis court contains 3 hose bibs and there is also 1 on the 2" line just makai of the guest house. These are

Mr. Lowell Dillingham

Office and Plant
1217 HOPAKA STREET

HONOLULU, HAWAII

Jan. 16, 1953

DRILLING CONTRACTOR
WELL DRILLING • TEST BORING

TELEPHONE 671-550

Honolulu Well 444
intended for the walking sprinklers for which the pump is more than adequate so that these faucets should be partially opened for proper operation of these sprinklers. 3 or 4 could better be operated at one time. All faucets from the well system have been painted yellow and are of the removable key type excepting the one just outside the makai bedroom door which is city water. Only the underground sprinklers in front of the house are on the well system; those in the rear are still on city water.

The board of water supply made a very complete survey of the water lines in your yard, a copy of which is enclosed. This survey was of great help to us in making our connection to your lines in such a way as not to have any cross or inter-connected lines with the city water. The main 2" line under the house was cut and plugged at a point just mauka of your new addition and our line from the well connected at the valve at the makai-Koko Head of the house. A thorough test was made to detect cross connections, with Board of Water Supply representatives present, by closing the city water, running the pump, and then opening all faucets, showers, etc., in the house, yard, laundry, bath house, and guest house. One such inter-connection was found at the bar and makai bathroom and same was remedied. I am now convinced that no other exists.

It has been a pleasure to do this work for you and I trust that you will be thoroughly satisfied with this home irrigating system. I think we were very fortunate to find water of such good quality. The complete success of the system depends on the continuance of that quality which should remain reasonably stable at the present rate of pumping.

Please be prompt to call me should you have any question or should the system fail in any way.

Very truly yours,

Nat Whiton

Copies to: Board of Water Supply
U. S. Geological Survey
Nov. 27, 1951

Mr. Lowell Dillingham,

Dear Mr. Dillingham,

Following is a log of your shallow well recently drilled by me on your property at above address.

0.0----1.9 (1.9) Soil.
1.9----12.0 (10.1) Hard Coral.
12.0----15.5 (3.5) Cavity.
15.5----22.6 (7.1) Medium Coral.
22.6----28.0 (5.4) Soft Coral with pockets of sand and shell.

Well was cased to 27' with 6" pipe perforated with 1/8" x 12" slots from the water level down.

Water stands at 15.5' below concrete pump base.

On Oct. 23, well was pumped for 1 hour at the rate of 60 gpm. Immediate drawdown was 2.2' but as pumping continued the water gradually came up and held at .4' below starting level.

First water from pump test - 46.5 gpc 483 ppm
After 1 hour of pumping - 56 " 582 ppm

Pump not yet installed.

July 11, 1958

Well was pumped at the rate of 50 gpm, with a drawdown of 2.5 ft. (by Roy Whiton)

Copy to Board of Water Supply

Given to Lum Nov. 17