## Checklist

<table>
<thead>
<tr>
<th>Permit Type</th>
<th>Permit Number</th>
<th>Location</th>
<th>Island</th>
<th>Tax Map Key</th>
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<tbody>
<tr>
<td>Well Construction Permit</td>
<td>5631-05 (A)</td>
<td>Waiau, Maui</td>
<td>Maui</td>
<td></td>
</tr>
<tr>
<td>Pump Installation Permit</td>
<td>5631-06 (B)</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

### Owner/Operator
- **Firm Name**: Dominick Marino
- **Contact Person**: Name
- **Address**: RR 4 137, Waiau, Maui, HI 96743
- **Phone**: 

### Landowner
- **Firm Name**: Dominick Marino
- **Contact Person**: Name
- **Address**: RR 4 137, Waiau, Maui, HI 96743
- **Phone**: 

### Dates
- **Date application received**: 12-26-90
- **Date acknowledged receipt/request more info**: 
- **Date application accepted**: 
- **Suspense date (90 days)**: 
- **Date filing fee deposited**: 1-17-91

### Application sent to following:
- Dept. of Health
- Dept. of Hawn Home Lands
- Dept/Bd of Water Supply
- Historic Preserv. Prog.
- Koolauloa NB #28 (Oahu)
- Dept. Pub. Wrks (Hawaii)
- Office of Hawaiian Affairs

### Application sent:

<table>
<thead>
<tr>
<th>Date sent</th>
<th>Comments received</th>
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<tbody>
<tr>
<td></td>
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### Remarks:

<table>
<thead>
<tr>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Require grouting full length of solid casing</td>
</tr>
</tbody>
</table>
August 25, 2003

Mr. Dominick Marino
291 Lower Kula Road
Pukalani, HI 96768

Dear Mr. Marino:

Late Filing of Well Completion Reports
Waihee-Marino Wells 1 & 2 (Well Nos. 5631-05 & 06)

In reviewing the entire record in this case, we conclude that the late filing of the well completion report is the cause of difficulties in getting your wells properly permitted. The confusion that arose concerning these wells has now been clarified and your increase from the original 20 gpm to 50 gpm is not significant.

The well completion reports now in the file, plus your additional information concerning corrected wellhead elevations, well locations, and the installed pumps, suggest that the increased pump size could have been installed without incident if the reports had been filed with Commission completely and in a timely way. Consequently, your new application for pump installation permits is unnecessary, and we are returning your application and filing fee, with our apologies.

If you have any questions, please call Charley Ice of the Commission staff at [ BLACKED OUT ] or toll-free at [ BLACKED OUT ] extension 70251.

Sincerely,

[ Signature ]

ERNEST W.Y. LAU
Deputy Director

Cl:ss
Enclosures
Charlie:

Regarding your 6/26/03 fax:

The WCR2 elevations supplied by Tanaka were taken at the top of the steel plate that caps off the casing where it protrudes through the ground. I measured down from there to obtain the elevation at the “+” welded on the side of the casing. I would say use which ever measurement is consistent with the rest of the data you collect for other wells.

Thanks, and please contact me if there are any questions.

Aloha,

Dom

Serving Maui 25 Years!
Thanks very much for your latest letter identifying the elevations for the "+" signs welded onto the casing. What we're trying to identify is the height (approx.) of the top of the casing plate above ground.

The source of our confusion is that your Well Completion Report Part 2 showed benchmark elevations of +144.5' (5831.05) and +150.5' (5831.06), which is higher than the top of the plate, by Tanaka's measurement. These measurements (WCR 2) are indicated to be the benchmark elevations on top of slab (which it seems you don't have). Should we disregard the WCR 2 elevations and use your + signs?
Dominick Marino
291 Lower Kula Road
Pukalani, HI 96768

June 24, 2003

Mr. Charlie Ice
Department Of Land And Natural Resources
Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Water Wells 5631-05 & 06

Dear Mr. Ice:

Tanaka Engineers provided elevations of the steel plates that cap off each well. Those elevations were provided to you.

When the applications were submitted to you I referenced a benchmark, a welded "+" on the side of each casing where it sticks up above the ground level. If I understand your request, you want to know the difference between the top of the well elevations provided by Tanaka, and the "+" I referenced in my applications.

5631-05: The "+" is 3.75 inches below the cover elevation provided by Tanaka.

5631-06: The "+" is 2.25 inches below the cover elevation provided by Tanaka.

Please let me know if you require more information or clarification. I sincerely appreciate your help and patience with this.

Sincerely,

Dominick Marino
MEMO and ROUTE SLIP

WCR 2 Check for Well No. 5631-05&06 (survey to regulation memo)

1. **Pump Tests Check** (special condition of PIP? Yes/No) Glenn Bauer (initial if yes)

<table>
<thead>
<tr>
<th>Step-Drawdown Test:</th>
<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
</tr>
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<tbody>
<tr>
<td>followed WCPI Stds</td>
<td>☐</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>analysis attached</td>
<td>☐</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>proposed pump cap o.k.</td>
<td>☐</td>
<td>☐</td>
<td></td>
</tr>
</tbody>
</table>

2. **Aquifer Pump Test**: followed WCPI Stds T & S analysis attached

3. **Well Interference**: estimated Steady-State drawdown at 1-mile radius is ________ ft.

4. **Stream Surface Water Impacted**: If yes, identify most probable stream

5. **Pump Installation Check**: Mitch Ohye (initial)

<table>
<thead>
<tr>
<th>data complete</th>
<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>followed WCPI Stds</td>
<td>☐</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>well database updated</td>
<td>☐</td>
<td>☐</td>
<td></td>
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</table>

3. Charley/Lenore/Ryan ________ (initial) take action based on above analysis

4. Roy ________ (initial) check

5. Subia ________ (initial) finalize

6. Dean ________ (initial) signature

7. Charley/Lenore/Ryan File
May 29, 2003

MEMORANDUM FOR THE RECORD

FROM: Glenn Bauer

SUBJECT: Inconsistencies With the Marino Well Elevations

The March 14, 2003 letter from Kirk Tanaka, PE provides elevations for both wells. According to Mr. Tanaka, “The mean sea level elevations of the top of the metal plate over the well casings...”, which he then provides. However, when reviewing the WCR Part II for both wells, including the photographs which show a welded cross on the side of the casing as the “BM”, and then checking the elevations provided on page 2 of the WCR, the benchmarks are higher than reported in the Tanaka letter. In addition, the benchmarks are reported to the nearest 0.1 ft.
| FROM: Charley | DATE: 28 May 03 | SUSPENSE DATE: |
| TO: | INIT. | TO: | INIT. | FOR: | PLEASE: |
| 1 BAUER, G. | | 2 HARDY, R. | | Approval | Review & Comment |
| | | 3 SAKODA, E. | | Signature | Type Draft |
| | | 4 NAKANO, D. | | Information | Type Final |
| | | 5 LAU, E | | | File |
| | | 6 DANBARRA, S | | | Xerox ___ copies |
| | | 7 SUBIA, S. | | | |
| | | 8 YODA, K. | | | |
| | | 9 CHING, F. | | | |
| | | 10 ANAKALEA, P | | | |
| | | 11 IMATA, R. | | | |
| | | 12 NAKAMA, L. | | | |
| | | 13 HIGA, D. | | | |
| | | 14 UYENO, D | | | |
| | | 15 MATHIAS, T | | | |

Final check: all pieces complete?

(well locations already clarified) pump tests @ 50 gpm, survey for correct

Please check boxes and initial, as necessary. Mahale!
<table>
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<tr>
<th>FROM: Charley</th>
<th>DATE: 14 May 03</th>
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<td>Fujii, N.</td>
<td>INIT:</td>
<td>Sakoda, E.</td>
</tr>
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<td>Ohye, M</td>
<td>INIT:</td>
<td>Nakano, D.</td>
</tr>
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<td>Yoshinaga, M</td>
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<tr>
<td>Higa, D.</td>
<td>INIT:</td>
<td>Anakalea, P</td>
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</table>

PLEASE:  
- Review & Comment  
- Type Draft  
- Type Final  
- File  
- Xerox copies  
- Take Action:  
  - Please log a survey  
  - Please See Me  
  - Pump model or survey? (note 10Feb.03 4:30)
February 10, 2003

Mr. Dominick Marino
291 Lower Kula Road
Pukalani, HI 96768

Dear Mr. Marino:

After-the-Fact Pump Installation Permit Application and
Well Completion Reports Part II
Waihe'e-Marino Wells 1 & 2 (Well Nos. 5631-05 & 06)

After-the-Fact Pump Installation Permit Application

On January 27, 2003, we received your completed After-the-Fact Pump Installation Permit Applications and filing fee for the 1992 installation of increased-size replacement pumps in the Waihe'e-Marino Wells 1 & 2 (Well No. 5631-05 & 06). You can expect your application to be processed within 90 days from this date. Please note the correct well numbers. Because after-the-fact applications must be approved by the Commission and are subject to potential fines, it is also an opportunity to complete the record on related matters, as a gesture of your continued good faith efforts to complete the process:

1. Please provide a surveyor's certificate to document the wellhead elevation as corrected in your letter.
2. Please submit a TMK map showing the well locations on their current parcels, as the current maps in the file show locations on the older plat, which do not correctly correspond to the locations of the new parcel numbers you have indicated.

Well Completions Reports Part II

We also received your Well Completion Reports Part II for work completed on these pump installations. Matters which must be addressed before we accept your reports as complete are as follows:

1. Please provide the model and serial numbers for the pumps.
2. Please submit pump curves for the new pumps. We now issue the permits with both the pump delivery capacity and the total head against which the pump is working.

If you have any questions about your permit application or well completion reports, please contact Charley Ice of the Commission staff at [redacted] or toll-free at [redacted] extension 70251.

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

CFI:ss
Charlie:

The state does not have the updated TMK map yet. I have attached the subdivision map with TMK numbers written in as well as the surveyors certificate and pump curves.

I am attaching a photo of the I.D. tag on the pump. It is a Myers Ranger series model J5050B. There is no serial number on this brand and size pump. The photo is taken of a spare pump I keep on hand.

Please let me know if you need anything else.

Aloha,

Dom

"Serving Maui 25 Years!"
March 14, 2003

Valley Isle Pumping, Inc.
291 L. Kula Road
Pukalani, HI 96768

Attention: Mr. Dominick Marino

Re: Well Elevations
Kawasaki-Marino Subdivision
At Waihee, Maui, Hawaii

Gentlemen:

Pursuant to your request, we conducted an elevation survey of the two (2) wells within the subject subdivision.

The mean sea level elevations of the top of the metal plate over the well casings are as follows:

- Makai Well: 142.3 Ft.
- Mauka Well: 150.6 Ft.

Should you have any questions or comments, please do not hesitate to call me.

Very truly yours,

Kirk T. Tanaka, P.E., L.S.
President

KTT:sh
March 14, 2003

Valley Isle Pumping, Inc.
291 L. Kula Road
Pukalani, HI 96768

Attention: Mr. Dominick Marino

Re: Well Elevations
Kawasaki-Marino Subdivision
At Waihee, Maui, Hawaii

Gentlemen:

Pursuant to your request, we conducted an elevation survey of the two (2) wells within the subject subdivision.

The mean sea level elevations of the top of the metal plate over the well casings are as follows:

Makai Well .................. 142.3 Ft.
Mauka Well .................. 150.6 Ft.

Should you have any questions or comments, please do not hesitate to call me.

Very truly yours,

Kirk T. Tanaka, P.E., L.S.
President

KTT:sh
Mr. Charlie Ice
Department Of Land And Natural Resources
Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Water Wells 5631-05 & 06

Dear Mr. Ice:

Regarding the 2/10/03 letter from DLNR, I have hired Tanaka Engineers to conduct elevations at the well heads. Tanaka provided the topo for the subd values from the topo that I used on the applications. Tanaka will provide the information within 30 days.

Upon receipt of Tanaka’s certificate, I will forward to you the rest of the requested information.

Sincerely,

Dominick Marino
February 10, 2003

Mr. Dominick Marino
291 Lower Kula Road
Pukalani, HI 96768

Dear Mr. Marino:

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Well Completion Reports Part II
Waihe'e-Marino Wells 1 & 2 (Well Nos. 5631-05 & 06)

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If you have any questions about your permit application or well completion reports, please contact Charley Ice of the Commission staff at [redacted] or toll-free at [redacted] extension 70251.

Sincerely,

[Signature]
DEAN A. NAKANO
Acting Deputy Director

CFI:ss
FROM: **CHARLEY** | DATE: **29-Jan-03** | SUSPENSE DATE: 

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<tr>
<td><strong>BAUER, G.</strong></td>
<td></td>
<td><strong>LUM, A.</strong></td>
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<td><strong>3</strong> Approval</td>
<td><strong>1</strong> Review &amp; Comment</td>
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<td><strong>CHING, F.</strong></td>
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<td><strong>NAKAMA, L.</strong></td>
<td></td>
<td><strong>3</strong> Signature</td>
<td><strong>2</strong> Take Action</td>
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<td><strong>FUJII, N.</strong></td>
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<td><strong>NAKANO, D.</strong></td>
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<td><strong>4</strong> Information</td>
<td><strong>5</strong> Type Draft acknow letter</td>
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<td><strong>HARDY, R.</strong></td>
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<td><strong>NISHIOKA, L.</strong></td>
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</table>

WELL NUMBER: **5631-05&06** WELL NAME: **Marino**

**ATTACHMENTS FOR APPLICATION PROCESSING** - Both applicant & staff generated

1. TRANS. LETTER
2. CWRM MAP
3. APPL. FORM (3X)
4. USGS MAPS (3X)
5. TAX MAPS (3X)
6. PARCEL OWNER VERIF. MLS PRINTOUT
7. CONTRACTOR VERIF. DCCA LICENSE SCREEN PRINTOUT
8. ALL INFO FILLED IN
9. BACKGROUND CHECK

**LETTER FROM CWRM 23 Dec 2**

**FOLDER:**
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

**INCOMPLETE ACTION DATES:**

<table>
<thead>
<tr>
<th>DATE</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No map provided</td>
</tr>
<tr>
<td></td>
<td>Let's discuss. 25 Feb 03</td>
</tr>
</tbody>
</table>
State of Hawaii

COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR PERMIT

☐ Well Construction and/or ☑ Pump Installation

Instructions: Please print in block type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 5 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-586-4165. For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cwrm.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)

1. ☐ WELL OWNER: Valley Isle Pumping
   Contact Person: Dominic Marino
   Mailing Address: 291 L.Kula Rd Pukalani, HI 96768
   Fax: ____________________________
   Phone: ____________________________
   E-mail: dom@maui.net

2. ☐ LAND OWNER: David Anderson
   Contact Person: David Anderson
   Mailing Address: 144 River Road Wailuku, HI 96793
   Fax: ____________________________
   Phone: ____________________________
   E-mail: ____________________________

3. ☐ CONTRACTOR: Roscoe Moss
   Contact Person: William C. Moore
   Mailing Address: 91-259A Olai St. Kapolei, HI 96707
   Fax: ____________________________
   Phone: 808-682-5554
   E-mail: ____________________________

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)

2. WELL NAME: Waihee-Marino Well 1
   Island: Maui
   Address: Waihee Stream, Wailuku, HI
   Tax Map Key: 1/2-3-16
   Zone: 3
   Sec: 2
   Plat: 3
   Frac: 0

3. PROPOSED WORK:
   (check all that apply)
   ☐ Construct New Well
   ☐ Modify Existing Well
   ☐ Abandon/Seal
   ☐ Install New Pump*
   ☐ Modify Pump*

   "State Well No.: 1531-05"
   (If unknown, please call Commission at 808-586-4165)

4. CONSTRUCTION:
   ☐ Drilled
   ☐ Dug
   ☐ Shaft
   ☐ Tunnel
   Is this well part of a battery of wells? ☐ Yes ☐ No
   ☐ Yes ☐ No (Please describe)

5. PROPOSED PUMPING RATE:
   ____ gallons per minute

   Domestic (individual, noncommercial water system)

   ☐ Industrial
   ☐ Irrigation (crop)
   ☐ No. of Acres:
   ☐ Military
   ☐ Other (explain):

   Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections? ☐ Yes ☐ No

6. PROPOSED USE:
   (check all that apply)
   ☐ Municipal (including hotels, stores, etc.)
   ☐ Other (explain):
   ☐ Domestic (individual, noncommercial water system)
   ☐ Other (explain):

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 10,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT: ☐ Flowmeter ☐ Open-pipe ☐ Weir ☐ Orifice ☐ Other (explain)

8. LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit.

   Conservation District Use Permit (CDUP): To find out if a CDUP is necessary, call DLNR Land Division at 808-586-4165.
   ☐ Not Required
   ☐ Required if approved

   Environmental Impact Statement (EIS) or Environmental Assessment (EA): To determine if an EIS or EA is necessary, call OEQC at 808-586-4165.
   ☐ Not Required
   ☐ Required if published in OEQC bulletin.

   Special Management Area Permit (SMAP): To determine if a SMAP is necessary, call DLNR Water Management Area Permit Branch at 808-586-4165.
   ☐ Not Required
   ☐ Required if approved

9. REMARKS, EXPLANATIONS:

   (If more space is needed, please attach additional sheet)

NOTE: Signing below indicates the signatories understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.

Well Owner (print legibly): ____________
Landowner (print legibly): ____________
Contractor (print legibly): ____________
Signature: ____________________________
Date: 1/20/03

For official use only

Latitude: ____________________________
State Well No.:

Longitude: ____________________________
Aquifer System No.
10. PROPOSED WELL SECTION

Please attach schematic if different from diagram provided below.

**Solid Casing Material:** ASTM noted on drillers report, but not which type ASTM

Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139

Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F490 and ASTM D1527: (check one): □ Schedule 40 □ Schedule 80

PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120

Thermoset Plastic: (check one)
- □ Filament Wound Resin Pipe conforming to ASTM D2996
- □ Centrifugally Cast Resin Pipe conforming to ASTM D2997
- □ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
- □ Glass Fiber Reinforced Pressure Pipe conforming to AWWA C950
- □ PTFE Fluorocarbon Tubing conforming to ASTM D3296
- □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**

Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139

Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F490 and ASTM D1527: (check one): □ Schedule 40 □ Schedule 80

PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120

Thermoset Plastic: (check one)
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- □ Glass Fiber Reinforced Pressure Pipe conforming to AWWA C950
- □ PTFE Fluorocarbon Tubing conforming to ASTM D3296
- □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,**

**Bottom Elevation of Well Limit** = \( \left( \frac{\text{Water Elevation} - 41 \times \text{Water Elevation}}{4} \right) \)

**Example:** Estimated + 2 ft. Water Level Elev. = Bottom Elevation of Well Limit = \( \left( \frac{2 - 41 \times 2}{4} \right) = -18.5 \) ft.

**Total Depth 200 ft.**

**Hole Diameter:** 12 in. (min. 70% of distance from ground elevation to top of water surface or 50 ft., whichever is less.)

**Annular space between hole and casing:** (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other

**Material:** (check one or more): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)

**Rock or Gravel Packing:** (check one or more): □ Crushed Basalt □ Rounded Gravel

**Estimated Water Level Elevation:** 8 ft. msl*

**Minimum of 2’ Radius & 4” Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**

**Ground Elevation:** 143.5 ft. msl*

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.

**Open Hole:**
- **Length:** NA ft.
- **Diameter:** 12 in.
- **Bottom Elevation:** -54 ft. msl*
Transmittal

TO:  
Mr. Charley Ice  
DLNR / Committee On  
Water Resource Management

FROM:  
Dominick Marino

RE:  
Waihee-Marino Wells 1&2

PAGES:  
2

DATE:  
January 21, 2003

Please find attached the Well Completion Report, part 2, and Permit Applications for both wells. Please note the following as there is room for confusion.

- The elevations as noted in the original reports are in error. The attached reports have the correct elevations. Roscoe Moss assumed 120’ where elevations are 144’ – 150’. Note the Constant Rate Pump Data Test performed in July 2000 used correct elevations.
- A copy of a fax addressed to Roscoe Moss shortly after pump installation was located. Dated in April of 1992, it noted low pressure and volume and requested a capable pump. To the best of my knowledge, that is when the 5 hp pumps were installed. The pumps lift water from elevations of -20 to -30 feet to an elevation of +230 feet where bladder tanks are pressurized. The 50 gpm at 275 feet of head pump installed appears fairly well matched to the job.
- The original 5 hp pump on #2 well failed. It was replaced by the Meyers pump listed on the completion report. We keep a new spare on hand. The pump replaced and the spare are the pumps listed on the Completion Report.
The property was subdivided and TMK numbers are not the same. The new TMK numbers have been provided.

Roscoe Moss Hawaii is no longer in business as such, so there is no signature for that company on the forms.

Keep in mind that Roscoe Moss did not submit the necessary paper work to anyone at completion of the job. Bill Moore, RME, turned in everything eight years later, based on a copy of the well drillers log.

I hope this information helps. Please contact me if there are questions.

Aloha,

Dom
1. State Well No.: 5631-05  Well Name: Waihe'e-Marino Well 1  Island: Maui

2. Address: Waihe'e Stream, Wailuku  Tax Map Key: 3-2-3:1

3. Pump Installation Company: Roscoe Moss

4. Date Pump Installed: 1992

5. PERMANENT PUMP INFORMATION

   Pump Type, Make, Serial No.: Meyers Ranger Series #J5050B
   Rated Capacity: 50 gpm at head of: 275 ft.
   Motor Type, H.P., Voltage, rpm: 5HP
   Type of flow meter: Domestic end user which measures in (10)
   Model Number Serial Number

   Pump type (check one):
   Deep Well Turbine  Rotary  Propeller
   Submersible  Rotary-Displacement  Reciprocating
   Centrifugal  Rotary-Gear  Impulse

6. Method of flow measurement:
   Flowmeter  Manufacturer Ford  Size 3/4"-5/8"
   Weir  Open Pipe  Orifice* Other*, explain below

   *attach schematic

7. Fill in the as-built section on the other side of this sheet

8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad.

9. Other remarks/comments:
   Water is metered at end user

Pump Installation Contractor (print) Roscoe Moss C-57/C-57a/A Lic. No. C-16437
Signature  Date

Permittee (print) Dominick Marino
Signature  Date 1/20/03
1. State Well No.: 5631-05  
   Well Name: Waihe'e-Marino Well 1  
2. Address: Waihe'e Stream, Wailuku  
3. Pump Installation Company: Roscoe Moss  
4. Date Pump Installed: 1992  
5. PERMANENT PUMP INFORMATION  
   Pump Type, Make, Serial No.: Meyers Ranger Series #J5050B  
   Rated Capacity: 50 gpm at head of: 275 ft.  
   Motor Type, H.P., Voltage, rpm: 5HP  
   Type of flow meter: Domestic end user which measures in (10)  
   Pump type (check one):  
   - Deep Well Turbine  
   - Submersible  
   - Centrifugal  
6. Method of flow measurement:  
   - Flowmeter  
   - Manufacturer: Ford  
   - Make:  
   - Size: 3/4"-5/8"  
   - Weir  
   - Open Pipe  
7. Fill in the as-built section on the other side of this sheet.  
8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad.  
9. Other remarks/comments: Water is metered at end user  

Pump Installation Contractor (print) Roscoe Moss  
Signature ___________________________________ Date ___________  
Permittee (print) Dominick Marino  
Signature ___________________________________ Date 1/20/03
Bench mark elevation surveyed to nearest 0.01 ft. = +144.5 ft. mean sea level

Elevation of top of chase tube NA ft. mean sea level

Pump intake depth = -27.5 ft (referenced to bench mark)

Chase tube depth = NA ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = NA ft. mean sea level
State of Hawai'i
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

WELL COMPLETION REPORT - PART II
Pump Installation

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at [phone number] For updates to this form or additional information, please visit our website at http://www.state.hi.us/dlnr/cwrm/

1. State Well No.: 5631-06  Well Name: Waihe'e-Marino Well 2  Island: Maui
2. Address: Waihe'e Stream, Wailuku  Tax Map Key: 3-2-3: 50
3. Pump Installation Company: Roscoe Moss
4. Date Pump Installed: 1992
5. PERMANENT PUMP INFORMATION
   Pump Type, Make, Serial No.: Meyers Ranger Series #J5050B
   Rated Capacity: 50 gpm at head of: 275 ft.
   Motor Type, H.P., Voltage, rpm: 5HP
   Type of flow meter: Domestic end user which measures in (10)
   Pump type (check one):
   ☑ Deep Well Turbine  ☑ Rotary  ☑ Propeller
   ☐ Submersible  ☑ Rotary-Displacement  ☑ Reciprocating
   ☐ Centrifugal  ☑ Rotary-Gear  ☑ Impulse
6. Method of flow measurement:
   ☑ Flowmeter  Manufacturer Ford  Make  Size 3/4" - 5/8"
   ☐ Weir  ☐ Open Pipe  ☐ Orifice*  ☐ Other*, explain below
   *attach schematic
7. Fill in the as-built section on the other side of this sheet.
8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad.
9. Other remarks/comments:
   Water is metered at end user

Pump Installation Contractor (print) Roscoe Moss  C-57/C-57a/A Lic. No. C-16437
Signature  Date

Permittee (print) Dominic Marino
Signature  Date 1/20/03
9. AS-BUILT PUMP SECTION

(Please attach as-built if different from diagram provided below)

Bench mark elevation
surveyed to nearest 0.01 ft. = +150.5 ft. mean sea level

Elevation of top of chase tube
NA ft. mean sea level

Pump intake depth = -21.5 ft.
(referenced to bench mark)

Chase tube depth = NA ft.
(referenced to bench mark)

If airline installed,
bottom of airline elevation = NA ft. mean sea level

6 - 5631 - 06 MARINO Z
25 GPM Ranger Series
Performance Curves

35 GPM Ranger Series
Performance Curves

50 GPM Ranger Series
Performance Curves

80 GPM Ranger Series
Performance Curves
Mr. Dominick Marino  
291 Lower Kula Road  
Pukalani, HI 96768  

Dear Mr. Marino:

Request for Higher Water Use  
Requirement for Pump Installation Permit Application  
Waihe'e-Marino Wells (Well Nos. 5631-05 & 06)

Thank you for your letter of November 22, 2002, requesting information on the possible increase of use from these wells up to 10,000 gpd each.

Because this is not a State water management area, you may pump up to the amount of your safe well capacity. Your pump tests show that long-term pumping with 50 gpm pumps should not damage the water resource nor detrimentally affect surface water or other well sources. Additionally, your pumps should be able to withdraw the requested amount in four hours or less, which further reduces any such impacts to other water resources.

In reviewing your file, we note a few errors in our communications. After inquiring about the status of your wells in July 1999, we received, on May 8, 2000, the original Well Completion Reports, Part 2 (WCR2) for the 20-gpm pumps, dated November 1999 but indicating that completion of work was in October 1991. Your transmittal letter indicated that those 20-gpm pumps had been replaced by 50-gpm pumps, but we do not know when they were replaced, and have never received reports for the 50-gpm pumps. Upon our request, you did transmit new constant-rate pump tests for the 50-gpm pumps in July 2000, but we otherwise have no information about the pumps. We are re-sending the WCR2 form sent in January 2001.

Increasing the pump size should have triggered a new pump installation application, which we now must request after-the-fact. An application has been enclosed for your convenience. After-the-fact applications must go the Commission, and are subject to potential fines of up to $1000 per day. Any information you can provide will be helpful in drafting that submittal.

Please respond within 30 days to this request. If you have any questions, please call Charley Ice of the Commission staff at [redacted] or toll-free at [redacted] extension 7025.

Aloha,

GILBERT S. COLOMA-AGARAN  
Chairperson

Ch: ss
Enclosures
Mr. Dominick Marino  
291 Lower Kula Road  
Pukalani, HI 96768

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Requirement for Pump Installation Permit Application  
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Please respond within 30 days to this request. If you have any questions, please call Charley Ice of the Commission staff at [redacted] or toll-free at [redacted] extension 70251.

Aloha,

GILBERT S. COLOMA-AGARAN  
Chairperson

Cl: ss  
Enclosures
Dominick Marino
291 Lower Kula Road
Pukalani, HI 96768

November 22, 2002

Mr. Charlie Ice
Department Of Land And Natural Resources
Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Water Wells 5631-05 & 06

Dear Mr. Ice:

With the building out of the subdivision served by these two wells, there is more water being consumed. I would like to be able to use as much as 10,000 GPD per well, if it is needed. Do I need to make a separate request, or is this letter adequate?

Thank you again, for your help.

Please note my mailing address change, above. Past correspondence has been sent to the Wailuku address, but it is long enough ago that the post office won’t forward it anymore.

Sincerely,

Dominick Marino
I believe some of the confusing discrepancies may be the result of the passing of time, eight years, between when the driller put in the wells and when the reports were submitted to you. Addressing your concerns:

**Item 1** We used a closed circuit camera with a tape measure attached to it to measure water depth. The depths we supplied are dead on accurate. We made video tapes. The tapes show the camera touching the water, the pumps are energized and the water recedes, and the camera is again lowered to the water level with the pump running. The counter shown on the video corresponds with the measuring tape attached to the camera. Question: Could rainfall impact ground water level that greatly?

**Item 2** Elevations listed on the 11/4/99 report are in error. The correct elevation at the well head is 180 feet above sea level for 5631-05 and 142.5 for 5631-06.

**Item 3** A large pump should draw down the water faster than a small pump. Typo? I don’t know why there is a difference, but since the “depth to water” at 15 feet below the measuring point is an error, it is safe to assume the draw down from that point is an error too.

Please call, or write back with your questions or comments.

Aloha,

Dom
Mr. Dominick Marino
RR1 3139
Wailuku, HI 96793

Dear Mr. Marino:

Well Completion Report for Well No. 5631-05 & 06

Thank you for transmitting the new pump test results for the captioned wells, in support of your pump installation permits. Please clarify some points we found confusing:

1. Our Well Index indicates that the original depth to water was 15± feet below the measuring point, or +105 feet referenced to mean sea level (msl).
2. The recent tests indicate the initial depth to water is below sea level, which is very unlikely.
3. The drawdown measured when the 20-gpm pumps were tested was less than what is now reported with bigger (50-gpm) pumps, again very unlikely.

We appreciate your help with this. If you have any questions, please call Charley Ice at [redacted] or toll-free at [redacted] extension 70251.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director
WCR 1 Check for Well No. 5631-05 (survey to regulation memo)

1. **Pump Tests Check**
   - Glenn Bauer (initial)
   - **Yes**
   - **No**
   - If no, describe deficiency

   **Step-Drawdown Test:**
   - followed WCPI Stds
   - analysis attached
   - proposed pump cap o.k.

   **Aquifer Pump Test:**
   - followed WCPI Stds
   - T & S analysis attached

---

**COMMISSION ON WATER RESOURCE MANAGEMENT**

FROM: Charley
DATE: 09 Aug 00
SUSPENSE DATE

TO:
- BAUER, G. [INIT.]
- FUJII, N.
- HARDY, R.
- HIGA, D.
- HIRANO, E.
- IMATA, R.
- JINNAI, R.

TO:
- NAKAMA, L. [INIT.]
- NAKANO, D.
- NISHIOKA, L.
- OHYE, M.
- SAKODA, E.
- SUBIA, S.
- YODA, K.

FOR: Approval
- 1. Signature
- 3. Information

PLEASE:
- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox ____ copies

Glenn - would you look again on the benefit of permittee's fax?

25 Jan

Does your analysis show support for installing a 50 gpm pump? Do the corrected
elevations clarify your understanding?

4. Roy ________ (initial) check

5. Susan Subia ________ (initial) finalize

6. Linnel ________ (initial) signature

7. Charley/lenore/Ryan File
WCR 1 Check for Well No. 5631-06 (survey to regulation memo)

1. **Pump Tests Check** Glenn Bauer (initial)
   - Step-Drawdown Test:
     - followed WCPI Stds
     - analysis attached
     - proposed pump cap o.k.
   - Aquifer Pump Test:
     - followed WCPI Stds
     - T & S analysis attached
   - Well Interference:
     - estimated Steady-State drawdown at 1-mile radius is _________ ft.
     - analysis attached
   - Stream Surface Water Impacted:

2. **Construction Check** Mitch Ohye (initial)
   - data complete
   - followed WCPI Stds
   - well database updated

3. Charley/Lenore/Ryan (initial) take action based on above analysis

4. Roy (initial) check

5. Susan Subia (initial) finalize

6. Linnel (initial) signature

7. Charley/Lenore/Ryan File
August 7, 2000

MEMORANDUM FOR THE RECORD

FROM: Glenn Bauer

SUBJECT: Waihee-Marino Wells 1 & 2 (5631-05, 06)

Time-drawdown data submitted for the constant rate aquifer tests for these wells appears to be incorrect. Initial depth-to-water measurements in both wells are below sea level. According to the Well Index, depth to water was 15± ft. below the measuring point or 105 ft., msl. He replaced his 20 gpm pumps with new 50 gpm pumps. However, at that rate, the measured relative drawdown (below sea level) is only 9 ft., much less than when the wells were tested originally.

120 ft. which is wrong.
143.5' TDC
- 125.2 = 8.3' Head
**CONSTANT-RATE PUMP TEST DATA**

Pumped Well No. **5631-06**

Pumped Well Name: **WAINEE MARINO WELL#2**

Target Q: **50** gpm

Observation well no.: **5631-06**

Distance between Obs. & Pumped Well: **150** ft

Reference pt. for depth to water: **142.5** ft

Static Water Level @ start of test: **142.5** ft

Water level measurements by: Y steel tape  □ pressure transducer  □ airline

START TEST Date: **6/20/60** Time of day: **8:00 AM**

Flow Meter Reading Start: **507,200** gals

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Max possible duration, water level or quality did not stabilize for any 24 hour period.

Begin recovery data next page.

Flow meter reading at end of pumped period:

**1,031,360** gals

1 Chloride sampling required

2 Use same ending drawdown figure as start for recovery.
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<th>Temp.</th>
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END TEST Date: **6/27/00** Time of day: **12:30**

ADDITIONAL REMARKS:

Person in charge of pump test: **Melvin C. Lewis**

Signature: **Melvin C. Lewis**

The signature above indicates that the data reported on this form is accurate and true to the best of the person's knowledge who operated this pump test.
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**FROM:** LINNEL

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**DATE:** JAN 27

**SUSPENSE DATE:**

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Pls. find out what happened in this.
# CONSTANT-RATE PUMP TEST DATA

**Table 2 (CRPTD Form 12/17/97)**

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<th>EC (µmhos)</th>
<th>Cl⁻ (mg/l)</th>
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</table>

Max possible duration, water level or quality did not stabilize for any 24 period

Begin recovery data next page
Flow meter reading at end of pumped period: 507,200 gals

1 Chloride sampling required
2 Use same ending drawdown figure as start for recovery
Table 2 (CRPTD Form 12/17/97)

<table>
<thead>
<tr>
<th>Suggested elapsed time (min)</th>
<th>Actual elapsed time (min)</th>
<th>Depth to water (nearest 0.1 ft)</th>
<th>Recovery Drawdown (unadjusted to nearest 0.1 ft)</th>
<th>Pumping rate (gpm)</th>
<th>EC (pmhos)</th>
<th>Cl- (mg/l)</th>
<th>Temp. °F or °C</th>
<th>Remarks</th>
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</table>

END TEST Date: 6/19/00 Time of day 12:15 pm

ADDITIONAL REMARKS:

Person in charge of pump test (print): Water Works E. Ling

Signature: 

The signature above indicates that the data reported on this form is accurate and true to the best of the person's knowledge who operated this pump test.
Dominick Marino  
291 Lower Kula Road  
Pukalani, HI 96768  

June 25, 2002  

Mr. Charlie Ice  
DLNR  
Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809  

Water Wells 5631-05 & 06  

Dear Mr. Ice:  

Two years ago in June I requested that I be allowed to increase the withdrawal of water from my wells in Waihee. Constant-rate pump test data were obtained and forwarded to you. No action has been taken to the best of my knowledge.  

I recall that you and I discussed a discrepancy between the original drillers report and the pump test data. A camera was utilized for all measurements to the water table made during the June 2000 test, and would certainly be more accurate. I witnessed how the driller measured. As it were, it took years for your department to receive the original wells drillers report, so that has to be uncertain, at best.  

I need more water. I would greatly appreciate your consideration of this matter.  

Sincerely,  

Dominick Marino
Mr. Dominick Marino  
RR1 3139  
Wailuku, HI 96793  

Dear Mr. Marino:

Well Completion Report for Well No. 5631-05 & 06

Per your letter dated June 25, 2002, we are enclosing a copy of our acceptance letter for well completion reports for the larger 50 gpm pumps, dated February 9, 2001.

If you have any questions, please contact Charley Ice of the Commission staff at [redacted] or toll-free at [redacted] extension 70251.

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director

RH:ss  
Enclosure
Pumping test analysis
Time-Drawdown-method after
COOPER & JACOB
Confined aquifer

Pumping Test No. Long Term Test conducted on: June 20, 2000
5631-06
Discharge 9625.00 ft³/d

Transmissivity [ft²/d]: 1.13 x 10⁴
Storativity: 0.00 x 10⁰
### Pumping Test Analysis

**Time-Drawdown-method after COOPER & JACOB**

**Confined aquifer**

**Date:** 05.09.2000

**Project:** Waihee-Marino Well 2

**Evaluated by:** Glenn Bauer

---

Pumping Test No. Long Term: 5631-06

Test conducted on: June 20, 2000

Waihee-Marino Well 2

Discharge 9625.00 ft³/d

Distance from the pumping well 1.00 ft

Static water level: 142.50 ft below datum

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<th>Pumping test duration</th>
<th>Water level</th>
<th>Drawdown</th>
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Pumping test analysis
Time-Drawdown-method after
COOPER & JACOB
Confined aquifer

Date: 05.09.200?
Project: Waihee-Marino Well 1
Evaluated by: Glenn Bauer

Pumping Test No. Long Term Test conducted on: June 12, 2000
5631-05
Discharge 9625.00 ft³/d

- Waihee-Marino Well 1

Transmissivity [ft²/d]: 1.24 x 10⁴
Pumping test analysis
Time-Drawdown-method after
COOPER & JACOB
Confined aquifer

Date: 05.09.2000 Page 2
Project: Waihee-Marino Well 1
Evaluated by: Glenn Bauer

Pumping Test No. Long Term | Test conducted on: June 12, 2000
5631-05 | Waihee-Marino Well 1

Discharge 9625.00 ft³/d
Distance from the pumping well 1.00 ft

Static water level: 135.20 ft below datum

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</table>
Mr. Dominick Marino  
RR1 3139  
Wailuku, Maui, HI 96793

Dear Mr. Marino:

Well Completion Report for Well No. 5631-05 & 06

We received your Well Completion Reports Parts I & II for the Waihe’e-Marino Wells 1 & 2 (Well No. 5631-05 & 06) on September 1, 2000 and acknowledge that they are complete. With these, the permitting process is complete.

If you have any questions, please contact Charley Ice of the Commission staff at 587-0251 or toll-free at extension 70251.

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director


DATE: 31 Jan 01  

SUSPENSE DATE:  

TO: INIT TO: INIT FOR: PLEASE:  


3 Approval 3 Signature 4 Information  

1 Review & Comment 1 Review & Comment  

Please: See Me  

Take Action  

Type Draft  

2 Type Final  

5 File  

Xerox copies  

WELL NUMBER 5631-056  

WELL NAME Waikee-Marina A&B  

☐ WELL CONSTRUCTION  

ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:  

1 COVER LETTER 2 PERMIT (2x) 3 PUMP TEST 4 DOH COMMENTS 5 LAND DIV. COMMENTS 6 WCR FORM  

TO BE SENT TO APPLICANT  

FOR OFFICE USE ONLY  

☒ PUMP INSTALLATION WCR 1ack/WCR 2 ack  

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:  

1 COVER LETTER 2 PERMIT (2x) 3 DOH COMMENTS 4 LAND DIV. COMMENTS 5 WCR FORM 6 WUR FORM  

TO BE SENT TO APPLICANT  

FOR OFFICE USE ONLY  

Glenn said the elevations were not that important, as the drawdown tests yielded support for 50 gpm. He was distracted by another priority and didn't want to spend more time on this. At least we clarified what needs to be done.
MAY 26, 2000

Mr. Dominick Marino
RR1 3139
Wailuku, HI 96793

Dear Mr. Marino:

Well Completion Report for Well No. 5631-05 & 06

We have received your Well Completion Report Part 2 for the Waihee-Marino Wells 1 & 2 (Well Nos. 5631-05 & 06). They are in order and comply with the requirements for the installation of the permitted 20 gpm pump. However, there is one matter which must be addressed before we accept your report as complete:

1. The Constant-Rate Pump Test must be redone at 50 gpm to test the aquifer response to your increased pump capacity. Installation of a larger pump than permitted or tested is a violation of your permit and the Water Code.

We believe the larger pump capacity need not be a problem, but the proper pump test can verify this. The Code requires that you respond with updated test results performed by a licensed driller within 60 days of this notice; a Pump Test Report form is enclosed for your use. Please be reminded that violations may result in fines of up to $1000 per day.

If you have any questions, please contact Charley Ice of the Commission staff at extension 70251.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

Enclosure
Thank you very much for transmitting the captioned reports. They are in order and comply with the requirements for the installation of a 20 gpm pump. They complete the requirements under your well construction permit(s) (dated ....) for the two wells. However, we need additional data to answer your question about upgrading the pump to a capacity of 50 gpm.

At the time your wells were drilled, we did not have our Hawaii Well Construction and Pump Installation Standards (HWCPIS) adopted by the Commission (adopted 1997). Our Standards do not require a step-drawdown test for wells with pumping capacities of less than 70 gpm or constant rate tests for wells pumping 50 gpm or less. However, we believe that it is in your interest to perform a constant rate test of at least 50 gpm for 8 to 24 hours to observe the behavior of the aquifer from which you draw. Measurements taken during such a test will help you to determine the best way to develop the 5,000 gpd that you are requesting.

Enclosed is a copy of the HWCPIS and forms to record constant-rate aquifer test data. If you have any questions, please call Charley Ice at [redacted].
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<th>INIT</th>
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Glenn — while the data don’t permit graphing/calculating, what do you make of dd 627e. If for any technical reasons, etc., you need to see Glenn, let me know. He may take notes from Water Study, needed to fit standards.
1. **Pump Tests Check** Glenn Bauer (initial)

<table>
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<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
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<tbody>
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   **Step-Drawdown Test:**
   - acceptable
   - followed WCPI Stds
   - analysis attached
   - proposed pump cap o.k.
   
   **Aquifer Pump Test:**
   - acceptable
   - followed WCPI Stds
   - T & S analysis attached
   
   **Well Interference:**
   - estimated Steady-State drawdown at 1-mile radius is □□□□ ft.
   - analysis attached
   
   **Stream Surface Water Impacted:**
   - □ □ □ if yes, identify most probable stream

2. **Construction Check** Mitch Ohye (initial)

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</table>

   | data complete |
   | □            |
   | followed WCPI Stds |
   | □            |
   | welphys.dbf updated |
   | □            |
   | welapplq.dbf updated |
   | □            |
Charlie:

Thanks in advance for your help with this. I've enclosed the reports sent to me by Roscoe Moss Drilling Company. I received them late in 1999.

The only error I see is the pump size. The 2 hp pumps initially installed were too small to pressurize the air bladder type tanks on top of the hill, so 5 hp 50 gpm pumps replaced them.

Also, I would like to increase the permitted daily pumping the current permit allows me to do. I would like to increase it from 1,000 gpd to 5,000 gpd. Can you help me with that? Please let me know if you need any information.

Aloha,

Dom

SERVING MAUI OVER 20 YEARS!
**WELL COMPLETION REPORT**

State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources

**PART I. WELL CONSTRUCTION REPORT**

1. **State Well No.:** 5631-XOS  
   **Well Name:** MARINO WELL #1  
   **Island:** MAUI

2. **Location/Address:** WAIREE VALLEY  
   **Tax Map Key:** 32-03:01

3. **Drilling Company:** ROSCOE MOSS HAWAII, INC.
4. **Name of driller who performed work:** L. MOALII
5. **Type of rig/construction:** CABLE TOOL 28L
6. **Date(s) Well Construction and pump tests (if any) completed:** 10/91
7. **GROUND ELEVATION** (referenced to mean sea level, msl): 100 ft.
   **Well Bench Mark (description/location):** TOP OF DRILLING PLATFORM

8. **DRILLER'S LOG:** Please attach geologic log (if available or if required by permit)

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<td>PUKA ROCK/CLAY</td>
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<td>160 to 200</td>
<td>PUKA ROCK</td>
</tr>
</tbody>
</table>

9. **Total depth of well below ground:** 200 ft.
10. **Hole size:**
    - 12 inch dia. from 0 ft. to 200 ft. below ground
    - [Additional hole sizes if needed]
11. **Casing installed:**
    - 8 in. I.D. x 250 in. wall solid section to 180 ft. below ground
    - 8 in. I.D. x 250 in. wall perforated section to 200 ft. below ground
    - Casing Material/Slot Size: CORTEN 250
12. **Annulus:**
    - Grouted from 0 ft. below ground to 100 ft. below ground
    - Gravel packed from 100 ft. below ground to 200 ft. below ground
13. **Initial water level:** 10 ft. below ground
14. **Initial chloride:** 50 ppm
15. **Initial temperature:** 68°F
16. **PUMPING TESTS:**
    - Reference Point (R.P.) used: C/LEVEL
    - Date and time of measurement: 9/16 - 91 8AM
    - Long-term Aquifer Test Date: 9/16 - 91
17. **Aquifer Pump Test Procedures data & graphs (1/96 LTAT Form) attached?** Yes
18. **As-built drawings attached?** Yes
19. **Other remarks/comments:** (On back of this form)

---

**Well Drilling Contractor (print)**

**ROSCOE MOSS HAWAII, INC.**

**Applicant (print)**

**DOMINIC MARINO**

---

**Signature**

**WILLIAM C. MOORE, PRESIDENT**

**Date** 11-4-99

---

**Date** 5/16/2000
WELL COMPLETION REPORT

State Well No.: 5631-06  Well Name: MARINO WELL 2  Island: MAU7
Location/Address: WAIHEE VALLEY  Tax Map Key: 32-03-01

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: ROSCOE MOSS HAWAII, INC.
4. Name of driller who performed work: L. MAOLII
5. Type of rig/construction: CABLE TOOL
6. Date(s) Well Construction and pump tests (if any) completed: 5/91
7. GROUND ELEVATION (referred to mean sea level, msl): 120 ft.
   Well Bench Mark (description/location): TOP OF DRILLING PLATFORM
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)

<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 50</td>
<td>BOULDERS</td>
</tr>
<tr>
<td>50 to 90</td>
<td>HARD ROCK</td>
</tr>
<tr>
<td>90 to 160</td>
<td>PUKA ROCK/CLAY</td>
</tr>
<tr>
<td>160 to 200</td>
<td>PUKA ROCK</td>
</tr>
</tbody>
</table>

9. Total depth of well below ground: 200 ft.
10. Hole size: 12 inch dia. from 0 ft. to 200 ft. below ground
     __________ inch dia. from ______ ft. to ______ ft. below ground
     __________ inch dia. from ______ ft. to ______ ft. below ground
11. Casing installed: 8 in. I.D. x 250 in. wall solid section to 100 ft. below ground
     8 in. I.D. x 250 in. wall perforated section to 200 ft. below ground
     Casing Material/Slot Size: __________
12. Annulus: Grouted from ______ ft. below ground to ______ ft. below ground
     Gravel packed from ______ ft. below ground to ______ ft. below ground
13. Initial water level: ______ ft. below ground
14. Initial chloride: ______ ppm
15. Initial temperature: ______ °F
16. PUMPING TESTS: Reference Point (R.P.) used: CRD/LEVEL, which elevation is 120 ft.
   (1) Step-Drawdown Test Date 10-8-98
   Start water level ______ ft. below R.P.
   End water level ______ ft. below R.P.
   (2) Long-term Aquifer Test Date
   Start water level ______ ft. below R.P.
   End water level ______ ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/96 LTAT Form) attached? Yes X No
18. As-built drawings attached? X Yes __ No
19. Other remarks/comments: (On back of this form)

Well Drilling Contractor (print) ROSCOE MOSS HAWAII, INC. C-57 Lic. No. C-16437
Signature WILLIAM C. MOORE, PRESIDENT Date 11-4-99
Surveyor (print) Lic. No. 
Signature Date 
Applicant (print) D. MARINO Date 5/16/2002
Signature
**WELL COMPLETION REPORT**

**STATE WELL NO.** 563/0-0606  
**WELL NAME** MailuWELL  
**ISLAND** Maui

**WELL OWNER**  
**LOCATION**  
**DRILLING OR PUMP INSTALLATION CONTRACTOR** R.A. H.E.  
**DATE OF WELL COMPLETION** 10-91  
**TYPE OF RIG**  
**DATE OF PUMP INSTALLATION** 10-91

**GROUND ELEVATION (mail)** 120 ft.  
**Height of drilling platform above ground surface**  
**Bench mark and method used to determine ground elevation**  
**TOTAL DEPTH OF WELL BELOW GROUND**  
**HOLE SIZE:**  
**CASING INSTALLED:**

- **In. I.D. x 20 ft. wall solid section to** 150 ft. below ground  
- **In. I.D. x 20 ft. well perforated section to** 200 ft. below ground

**ANNULUS:**

- **Grounted from** 0 ft. to 60 ft. below ground  
- **Gravel packed from** 60 ft. to 200 ft. below ground

**PERMANENT PUMP INSTALLATION:**  
**Pump type, make, serial No.**  
**Motor type, H.P., volts, r.p.m.**  
**Depth of pump intake setting** 120 ft. below which elevation is 120 ft.  
**Depth of bottom of slurry** 120 ft. below which elevation is 120 ft.

**PROPOSED USE**

- **INITIAL WATER LEVEL** 15 ft. below ground.
- **INITIAL CHLORIDE** ppm.

**PUMPING TESTS:**

- **Reference point (R.P.) used:** which elevation is ft..  
- **Date and time of measurement** 9/16/91  
- **Date and time of sampling**

**DRILLER'S LOG:**

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td></td>
<td></td>
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<tr>
<td>250</td>
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</tbody>
</table>

**REMARKS:**

___

**COMMISSION ON WATER RESOURCE MANAGEMENT**

**Department of Land and Natural Resources**

**Division of Water Resource Management**

**STATE OF HAWAII**

__

**Print**

**Title**
WELL COMPLETION REPORT

STATE WELL NO. 5631-06
WELL NAME: MAUNO VALLEY
ISLAND: OAHU
LOCATION: WAIKIKI VALLEY
WELL OWNER: DOMINIC MARINO
TAX MAP KEY: 3-2-05:01

DRILLING OR PUMP INSTALLATION CONTRACTOR: R.M.H.
TYPE OF RIG: 286
DATE OF WELL COMPLETION: 9-61
DATE OF PUMP INSTALLATION: 9-61

GROUND ELEVATION (m.s.l.) 130 ft.
Height of drilling platform above ground surface 10 ft.
Bench mark and method used to determine ground elevation

TOTAL DEPTH OF WELL BELOW GROUND 200 ft.

HOLE SIZE:
12 Inch dia. from 0 ft. to 120 ft. below ground
16 Inch dia. from 120 ft. to 200 ft. below ground
14 Inch dia. from 200 ft. to 480 ft. below ground

CASING INSTALLED:
In. I.D. x 120 ft. well solid section to 180 ft. below ground
In. I.D. x 120 ft. well perforated section to 200 ft. below ground

Type of perforation

ANNULUS:
Grouted from 0 ft. to 80 ft. below ground
Gravel packed from 80 ft. to 200 ft. below ground

PERMANENT PUMP INSTALLATION:
Pump type, make, serial No.
Motor type, H.P., voltage, r.p.m.
Depth of pump intake setting
Depth of bottom of airline

PROPOSED USE:
INITIAL WATER LEVEL 15 ft. below ground.

PUMPING TESTS:
Date and time of measurement: Oct 8, 1961
Date and time of sampling: ____________________

Reference point (R.P.) used:
which elevation is ft.

Start water level: ____________________ ft. below R.P.
End water level: ____________________ ft. below R.P.
Depth of well: ____________________ ft. below R.P.

Elapsed Time (hours) Rate Draw Cl Temp.
(ppm) down (ft.) (ppm) °F
9:00 to 9:00 1083 59
9:00 to 10:00
10:00 to 11:00
11:00 to 12:00
12:00 to 1:00
1:00 to 2:00
2:00 to 3:00
3:00 to 4:00

DRILLER'S LOG:

Depth, ft. Rock Description & Remarks Water Level
0 to 30
30 to 60
60 to 90
90 to 120
120 to 150
150 to 180
180 to 210
210 to 240
240 to 270
270 to 300

Depth, ft. Rock Description & Remarks
0 to 30
30 to 60
60 to 90
90 to 120
120 to 150
150 to 180
180 to 210
210 to 240
240 to 270
270 to 300

REMARKS:

State of Hawaii
WATER RESOURCE MANAGEMENT
Division of Water Resource Management

INSTRUCTIONS: Please print or type and submit completed report within 30 days of well completion to the Division of Water & Land Development, P.O. Box 373, Honolulu, HI 96829. An as-built drawing of the well and geological analysis, if available, should also be submitted. If necessary, phone 548-7543, Hydrology, Geology section for assistance.

Submitted by (print) ________________ Title ________________
______________________ Date ____________________
PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: **ROSCOE MOSS HAWAII, INC.**

21. Name of person performing work: **L. MOALII**

22. Date Pump Installation Completed: **10/91**

23. PUMP INSTALLATION:

- **Pump Type, Make, Serial No.:** GRUNDFOS M/255 20 - 11
- **Capacity:** 20 gpm
- **Motor type, H.P., Voltage, rpm:** SUBMERSIBLE 2HP
- **Depth of Pump Intake Setting:** 170 ft. below SURFACE, which elevation is +20 ft.
- **Depth to bottom of airline:** 170 ft. below SURFACE, which elevation is -50 ft.
- **Pumping Head is:** 250 ft.
- **Type of flow meter:** TURBINE which measures in GPM

24. As-built drawings attached: **Yes**

25. Other remarks/comments: *(See below)*

Pump Installation Contractor (print): **ROSCOE MOSS HAWAII, INC. C-57 Lic. No. C-16437**

<table>
<thead>
<tr>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>WILLIAM C. MOORE, PRESIDENT</td>
<td>11-4-99</td>
</tr>
</tbody>
</table>

Applicant (print)

Signature

Date

---

8.(cont'd) DRILLER'S LOG (cont'd):

<table>
<thead>
<tr>
<th>Water Level Dates (ft.)</th>
<th>Water Level Dates (ft.)</th>
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<tr>
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19. & 25. Remarks: **COMPLETION REPORT IS TO SUPPLEMENT REPORT ATTACHED - WHICH WAS COMPLETED IN 1991 AND PRESUMABLY FILED. NOTED THAT CWRM DOES NOT HAVE THAT RECORD - OWNER (MARIN) TESTED THAT GROUTING WAS REVISED TO 100' BELOW SURFACE. DRILLERS TIME SHEET INDICATED TEST FLOW RATE @ 30 GPM DURATION, A PERIOD OF 7-1/2 HOURS.**

9891-05 MARINO WELL #1
PART II.  (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: ROSCOE MOSS HAWAII, INC.
21. Name of person performing work: L. MOALII
22. Date Pump Installation Completed: 10/91
23. PUMP INSTALLATION:
   Pump Type, Make, Serial No.: GRUNDFOS - 255 20-11
   Motor type, H.P., Voltage, rpm: SUBMERSIBLE 2HP
   Capacity: gpm
   Depth of Pump Intake Setting: ft. below SURFACE, which elevation is ft.
   Depth to bottom of airline: ft. below SURFACE, which elevation is ft.
   Pumping Head is ft. Type of flow meter: TURBINE which measures in GPM
24. As-built drawings attached: Yes No
25. Other remarks/comments: (See below)

Pump Installation Contractor (print) ROSCOE MOSS HAWAII, INC. C-57 Lic. No. C-16437
Signature WILLIAM C. MOORE, PRESIDENT
Date 11-4-99

Applicant (print)
Signature

---

8.(cont'd) DRILLER'S LOG (cont'd):
Water Level Dates Water Level Dates
Depth (ft.) Rock Description, Remarks, Depth (ft.) Rock Description, Remarks,
to to

THE ABOVE DATA IS JOB FILE MATERIAL AND FIELD REPORTS. TIME SHEETS INDICATE THAT THE TEST PUMPING RATE WAS 30 GPM. TEST DURATION 7-1/2 HOURS.

MARINO WELL 2
AS BUILT

NOTE: ALL DATA TAKEN FROM RMI JOBSITE 1E.

VALLEY ISLE PUMPING 11-91

DRAWN NOV 4 1991
Mr. Dominick Marino  
RR1 #139  
Wailuku, HI 96793  

Dear Mr. Marino:  

Well Completion Reports  
Waihee-Marino Wells A & B  
Well Nos. 5631-05 & 06  

It has come to our attention that these wells, permitted April 2, 1991 (attached), were afterwards completed and may be in use. Our records show no well completion reports nor other items required in Permit Condition #5 were submitted to our office. If Roscoe Moss was the driller, as indicated in your letter to us dated July 1, 1991, these materials were probably provided to you. If transmitting them to the Commission was an oversight, please forward these materials at your earliest convenience. Also, monthly water use recording and annual reporting is required in Condition #6, as modified in the adoption of Hawaii Well Construction and Pump Installation Standards (form enclosed). Violations of permit conditions are subject to fines up to $1000 per day.

If you have any questions, please call Charley Ice at [redacted] or toll-free at [redacted] extension 70251.

Sincerely,  

LINNEL T. NISHIOKA  
Deputy Director  

Ci:ss  
Attachments
To: Ed Sakoda
Date: 7/1/91
Time: 4:10 P.M.

WHILE YOU WERE OUT

Mr. Marilyn
of Walter Ban

Phone: 242-9322

<table>
<thead>
<tr>
<th>Area Code</th>
<th>Number</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>TELEPHONED</td>
<td>PLEASE CALL</td>
<td></td>
</tr>
<tr>
<td>CALLED TO SEE YOU</td>
<td>WILL CALL AGAIN</td>
<td></td>
</tr>
<tr>
<td>WANTS TO SEE YOU</td>
<td>URGENT</td>
<td></td>
</tr>
</tbody>
</table>

RETURNED YOUR CALL

Message: Ready to drill
Well #563105 in Wechef Valley Driller, Rescue Mesh Co., to notify notification you.

[Operator's Signature]

AMPAD
EFFICIENCY®
23-020
TO: Ed Sakoda  
WRM Division  
STATE, DLNR  
548 6052

FROM: Dominick Marine  
FAX # (808) 244-3596

DATE: 7/24  
TIME: 
REF: 

WE ARE TRANSMITTING 2 PAGES INCLUDING THIS TRANSMITTAL SHEET. IF YOU DID NOT RECEIVE ALL THE PAGES, PLEASE CALL US AS SOON AS POSSIBLE AT (808) 242-5692.

( ) FOR YOUR INFORMATION  
( ) FOR REVIEW & COMMENT  
( ) FOR YOUR FILES  
( ) PER YOUR REQUEST  
( ) FOR SIGNATURE & RETURN  
( ) OTHER

COMMENTS:
State Of Hawaii  
Department Of Land And Natural Resources  
DIVISION Of Water Resource Management  
P.O. Box 621  
Honolulu, Hi. 96809

ATT: Mr. Ed Sakoda  
RE: Waihee-Marino Well Nos. 5631-05 & 06

Dear Mr. Sakoda:

Please be advised that Roscoe Moss drilling company has mobilized and will begin well drilling immediately.

Please call me if you have any questions.

Sincerely,

Dominick Marino  
President, VIP, Inc.
State Of Hawaii  
Department Of Land And Natural Resources  
Division Of Water Resource Management  
P.O. Box 621  
Honolulu, Hl. 96809  

ATT: Mr. Ed Sakoda  
RE: Waihee- Marino Well Nos. 5631-05 & 06  

Dear Mr. Sakoda:  

Please be advised that Roscoe Moss drilling company has mobilized and will begin well drilling immediately.  

Please call me if you have any questions.  

Sincerely,  

Dominick Marino  
President, VIP, Inc.
WELL CONSTRUCTION/PUMP INSTALLATION PERMIT

for

Waihee-Marino Well
Well No. 5631-06
Waihee, Maui

TO: Dominic Marino
RRI #139
Wailuku, Maui, HI 96793

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Waihee-Marino Well (Well No. 5631-06) within Tax Map Key: 3-2-03:01, for domestic use, is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), P.O. Box 373, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction, testing, and installation of up to a 20 gallons per minute capacity, or less, pump in the well, as determined by the pumping test results. The applicant shall submit to DWRM the test results and proposed permanent pump information, based on the test, for approval by the Chairperson. No permanent pump may be installed and no water used from the well without the Chairperson's approval.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct and pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

4. The grouted annulus of the well shall be from 0 to 100 ft. instead of from 0 to 40 ft. as proposed. The grouted annular space shall be at least 2 inches all around the casing.
5. The following shall be submitted to DWRM within 30 days after completion of the well:
   a. Well Completion Report.
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

6. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage on a monthly basis.

7. The applicant shall comply with all applicable laws, rules, and ordinances.

8. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within 24 months from the date of permit issuance.

9. Prior to drilling and installation, the State Historic Preservation Division shall be contacted at [redacted] to give a staff archaeologist the opportunity to visit the project site and determine the exact location of the two wells so that no historic sites will be impacted.

10. Water from the well shall not be used for drinking water unless properly tested and treated.

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

APR 2 1991
Date of Issuance

cc: USGS
Department of Health
   Drinking Water Branch
   Ground Water Protection Program
   Maui Department of Water Supply
TO: Dominic Marino  
RRI #139  
Wailuku, Maui, HI 96793

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Waihee-Marino Well (Well No. 5631-05) within Tax Map Key: 3-2-03:01, for domestic use, is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), P.O. Box 373, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction, testing, and installation of up to a 20 gallons per minute capacity, or less, pump in the well, as determined by the pumping test results. The applicant shall submit to DWRM the test results and proposed permanent pump information, based on the test, for approval by the Chairperson. No permanent pump may be installed and no water used from the well without the Chairperson’s approval.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct and pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

4. The grouted annulus of the well shall be from 0 to 100 ft. instead of from 0 to 40 ft. as proposed. The grouted annular space shall be at least 2 inches all around the casing.
5. The following shall be submitted to DWRM within 30 days after completion of the well:

   a. Well Completion Report.
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

6. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage on a monthly basis.

7. The applicant shall comply with all applicable laws, rules, and ordinances.

8. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within 24 months from the date of permit issuance.

9. Prior to drilling and installation, the State Historic Preservation Division shall be contacted at [Contact Information] to give a staff archaeologist the opportunity to visit the project site and determine the exact location of the two wells so that no historic sites will be impacted.

10. Water from the well shall not be used for drinking water unless properly tested and treated.

   [Signature]

   WILLIAM W. PATY, Chairperson
   Commission on Water Resource Management

Date of Issuance

cc: USGS
   Department of Health
      Drinking Water Branch
      Ground Water Protection Program
   Maui Department of Water Supply
The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

SUBJECT: WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT APPLICATIONS
WAIHEE-MARINO WELLS "A" AND "B"
STATE WELL NOS. 5631-05 AND -06
KAMAOLE, MAUl

Thank you for the opportunity to review and comment on the subject documents. We have examined the applications and have the following comments to offer:

1. The applications indicate that the subject wells will be for domestic use. If the wells are to serve 25 or more individuals at least 60 days per year or will have a minimum of 15 service connections, the applicant will be required to comply with the Department’s Administrative Rules, Title 11, Chapter 20, "Potable Water Systems."

2. Section 11-20-29 of Chapter 20 requires that a new source of potable water serving a public water system be approved by the Director of Health prior to its use. Such an approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

3. The proposed wells are situated above the Underground Injection Control (UIC) line. Land areas above the UIC line are considered to contain underground sources of drinking water. Thus, it is essential that each well be designed and constructed to prevent the possibility of groundwater contamination. For example, each well should have a concrete well pad and full grouting to prevent seepage or floodwaters from migrating down the well shaft.
4. The operation of the proposed wells should not be allowed to adversely affect the water quality of nearby water wells. Our records indicate that the proposed wells will be located within 1,500 feet of two drinking water wells (Waihee Valley Wells Nos. 1 and 2, State Well Nos. 5631-02 and -03, respectively). The map accompanying the application also indicates a third unidentified well (State Well No. 5631-04) situated immediately downstream of the proposed wells.

If you should have any questions, please contact the Safe Drinking Water Branch at [contact information]

Very truly yours,

[Signature]

JOHN C. LEWIN, M.D.
Director of Health

cc: Dominick Marino
RRI #139
Wailuku, Maui, HI 96793
MEMORANDUM

TO: Manabu Tagomori, Deputy Director
Commission on Water Resource Management

FROM: Don Hibbard, Acting Administrator
State Historic Preservation Division

SUBJECT: State of Hawaii, DWRM: Well Construction and Pump Installation Permits for the Island of Maui
Kamaole and Waihee, Maui
TMK 2-2-2:1 and 3-2-03:1

HISTORIC PRESERVATION PROGRAM CONCERNS:

We have the following comments on these applications:

1) Well No. 4224-01 (Kamaole-Haleakala Ranch) -- We believe that the proposed well will have "no effect" on significant historic sites. The proposed well site is along a jeep road and it is highly unlikely that historic sites are present.

2) Well No. 5631-05 (Waihee-Marino Well "A") and Well No. 5631-06 (Waihee-Marino Well "B") -- Our records indicate the presence of old taro terraces in the applicant's property. For this project to have "no adverse effect" on these sites, we recommend that the following condition be included for the approval of this permit:

Prior to drilling and installation, the State Historic Preservation Division shall be contacted to give a staff archaeologist the opportunity to visit the project site and determine the exact location of the two wells so that no historic sites will be impacted.

Please contact Ms. Annie Griffin if you have any questions.
The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

Well Construction and Pump Installation Applications
Kamaole-Haleakala Ranch
Waihee-Marino Wells "A" and "B"

Thank you for the opportunity to comment on the following permit applications:

Kamaole-Haleakala Ranch (4224-01) Well and Pump
Waihee-Marino Well "A" (5631-05) Well and Pump
Waihee-Marino Well "B" (5631-06) Well and Pump

These wells are not expected to impact Hawaiian Home Lands; we have no comment at this time.

The Kamaole Well is near Hawaiian Home Lands at Keokea, and its results could be informative for future DHHL water development plans. We would appreciate being kept abreast of the results of this drilling.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission

HLD:DCY:CI
Mr. Thomas K. Kaulukukui, Sr.
Chairman & Trustee-At-Large
Office of Hawaiian Affairs
1600 Kapiolani Blvd., Suite 1500
Honolulu, Hawaii  96814

Attn: Ms. Linda Delaney, Land & Natural Resources Division

Dear Mr. Kaulukukui:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comments is a copy of the following permit application(s):

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maui</td>
<td>Kamaole-Haleakala Ranch</td>
<td>4224-01</td>
<td>Well and Pump</td>
</tr>
<tr>
<td>Maui</td>
<td>Waihee-Marino Well &quot;A&quot;</td>
<td>5631-05</td>
<td>Well and Pump</td>
</tr>
<tr>
<td>Maui</td>
<td>Waihee-Marino Well &quot;B&quot;</td>
<td>5631-06</td>
<td>Well and Pump</td>
</tr>
</tbody>
</table>

Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by February 4, 1991.

Should you have any questions, please contact Manabu Tagomori, Deputy Director at

Very truly yours,

WILLIAM W. PATY

Enc.
Honorable John C. Lewin, M.D.
Director
Department of Health
State of Hawaii
1250 Punchbowl Street
Honolulu, Hawaii 96813

Attn: Mr. Thomas Arizumi, Drinking Water Branch

Dear Dr. Lewin:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comments is a copy of the following permit application(s):

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</tbody>
</table>

Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by February 4, 1991.

Should you have any questions, please contact Manabu Tagomori, Deputy Director at

Very truly yours,

WILLIAM W. PATY

Enc.
Honorahle Hoaliku L. Drake  
Director  
Department of Hawaiian Home Lands  
State of Hawaii  
P.O. Box 1879  
Honolulu, Hawaii 96805  

Dear Mrs. Drake:  

Well Construction and Pump Installation Permit Application(s)  

Transmitted for your review and comments is a copy of the following permit application(s):  

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<td>Well and Pump</td>
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</table>

Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by February 4, 1991.

Should you have any questions, please contact Manabu Tagomori, Deputy Director at...
Mr. Dominick Marino  
R.R. #139  
Wailuku, Hawaii  96743

Dear Mr. Marino:

We have received your applications and filing fees to construct, install pumps, and pump test wells (Well Nos. 5631-05 and 5631-06) at Waihee, Maui (TMK 3-2-03:01). We are reviewing your applications for completeness and will contact you if more information is needed.

Should you have any questions, please contact the Regulation Branch of the Division of Water Resource Management at [Phone number]

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy Director
MEMORANDUM

TO:        Don Hibbard, Director
            Historic Preservation Program
FROM:      Manabu Tago, Deputy Director
            Commission on Water Resource Management

SUBJECT:   Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comments is a copy of the following permit application(s):

<table>
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</tr>
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<td>Waihee-Marino Well &quot;B&quot;</td>
<td>5631-06</td>
<td>Well and Pump</td>
</tr>
</tbody>
</table>

Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by February 4, 1991.

Should you have any questions, please contact our Regulation Branch at [phone number]....

DN: mh
Enc.
Ms. Rae Shikuma, Director  
Department of Water Supply  
County of Maui  
200 South High Street  
Wailuku, Maui, Hawaii 96793

Dear Ms. Shikuma:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comments is a copy of the following permit application(s):

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<td>Well and Pump</td>
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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by February 4, 1991.

Should you have any questions, please contact our Regulation Branch at

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

DN: mh
Enc.
**SURVEY BRANCH**

**Department of Water Resource Management**

FROM: __________________________ DATE: __________ FILE IN: ______________

<table>
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<th>TO:</th>
<th>INITIAL:</th>
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<td>E. SAKODA</td>
<td>See Me</td>
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<tr>
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<td>F. Ching</td>
<td>Call</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W. Rozeboom</td>
<td>Review &amp; Comment</td>
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<tr>
<td></td>
<td>P. Haraguchi</td>
<td>Take Action</td>
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<tr>
<td></td>
<td>G. Bauer</td>
<td>Investigate &amp; Report</td>
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<tr>
<td></td>
<td>N. Fujii</td>
<td>Draft Reply</td>
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<tr>
<td></td>
<td>A. Okamura</td>
<td>Acknowledge Receipt</td>
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<td>M. Holt</td>
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<td></td>
</tr>
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<td>B. Micua</td>
<td>Type Final cc:</td>
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<td>L. Nanbu</td>
<td>File</td>
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<td></td>
<td>M. TAGOMORI</td>
<td>Mail</td>
<td></td>
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<tr>
<td></td>
<td>S. Kokubun</td>
<td>Approval</td>
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<td>DATE</td>
<td>DESCRIPTION</td>
<td>AMOUNT</td>
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<td>25.00</td>
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</tr>
</tbody>
</table>

PAY TO THE ORDER OF

Department of Land & Natural Resources

Twenty-five DOLLARS

Bank of Hawaii

WELL NO. 5631-05

DETACH AND RETAIN THIS STATEMENT.
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELMUX FORM DVC-3 V-2

736  25.00
PAY TO THE ORDER OF: Department of Land & Natural Resources $25.00

Twenty-five DOLLARS

 VALLEY ISLE PUMPING, INC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE FORM DVC-3 V-2

<table>
<thead>
<tr>
<th>DATE</th>
<th>DESCRIPTION</th>
<th>AMOUNT</th>
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</thead>
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<tr>
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<td>25.00</td>
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</tbody>
</table>
Valley Isle Pumping, Inc.

Deluxe Form DVC-3  V-2

<table>
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<tr>
<th>DATE</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>736</td>
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<tr>
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<td></td>
<td>25.06</td>
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<td>DATE</td>
<td>DESCRIPTION</td>
<td>AMOUNT</td>
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</tr>
<tr>
<td></td>
<td>Filing Fee</td>
<td>736.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25.00</td>
</tr>
</tbody>
</table>
**APPLICATION FOR**

**WELL CONSTRUCTION PERMIT**

**PUMP INSTALLATION PERMIT**

**WELL "A"**

**INSTRUCTIONS:** Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 771, Honolulu, Hawaii 96810. Application must be accompanied by a non-refundable filing fee of 125.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 143-1842, Hydrology/Geology Section for assistance.

1. **WELL LOCATION/NAME**
   - **Island:** Maui
   - **WELL NAME:** DOMINICK MARINO
   - **Tax Map Key:** 3-2-3-1
   - **Address:**
     - (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. **WELL OWNER**
   - **Firm Name:** DOMINICK MARINO
   - **Contact Person:** DOMINICK MARINO
   - **Address:** RRI # 139
     - **WAILUKU,** HI
   - **Phone:** 96-793

3. **PROPOSED CONTRACTOR FOR:**
   - **Well Drilling**
   - **Pump Installation**
   - **Name:** RICHARDSON
   - **Address:** KONA
   - **Contractor's License No.:**

4. **PROPOSED WORK**
   - **Drill New Well**
   - **Deepen**
   - **Alter**
   - **Install New Pump**
   - **Replace Pump**
   - **Bedroll**
   - **Seal**
   - **Abandon**
   - **Modify Pump**
   - (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. **PROPOSED USE**
   - **Municipal (including hotels, stores, etc.)**
   - **Domestic (individual, noncommercial water systems)**
   - **Irrigation (specify)**
   - **Military**
   - **Industrial**
   - **Other (specify)**

6. **PROPOSED AMOUNT OF WITHDRAWAL**
   - **1000 gallons per day**

7. **PROPOSED PUMP INFORMATION**
   - **Pump Type:** Vertical Turbine
   - **Motor:** Diesel
   - **Rated Pump Capacity:** 20 gallons per minute (gpm)
   - **Rated Horsepower:** 1 HP
   - **Submersible**
   - **Electric:**

<table>
<thead>
<tr>
<th>Well Owner (print)</th>
<th>Landowner (print)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOMINICK MARINO</td>
<td>DOMINICK MARINO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signature</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>___________________</td>
<td>___________________</td>
</tr>
<tr>
<td>Date 12/15/90</td>
<td>Date 12/15/90</td>
</tr>
</tbody>
</table>

For Official Use Only:

Field Checked By ___________________ Latitude __________

Date ___________________ Longitude __________

Hydrologic Unit __________

State Well No. 5/31-05 "A"

Blind Map H-5
Briefly describe the proposed work:

DRILL AND CASE WELL, INSTALL PUMP AND DISCHARGE PIPING.

PROPOSED SECTION OF WELL

Elevation at top of casing 120 ft., masl.

Cement
Grout 40 ft.

Hole Dia. 8 in.

Total Depth 120 ft.

Rock Packing 80 ft.

Ground Elev. ft., masl*

Solid Casing:
Material STEEL
Length 100 ft.
Diameter 6 in.
Wall thickness 0.250 in.

Casing: \(\times\) Perforated \(\times\) Screen
Material CORTEN
Length 20 ft.
Diameter 6 in.
Wall thickness 0.250 in.
Openings 70 sq. in./L.F.

Open Hole:
Length \textit{TO BE DETERMINED}
Diameter 6 in.

*Approximate elevation at time of filing application. Final elevation (masl) by a surveyor licensed by the State must be submitted at start of construction.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
Division of Water Resource Management

APPLICATION FOR
WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 375, Honolulu, Hawaii 96805. Application must be accompanied by a non-refundable filing fee of $125.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 1-81-734-2. Hydrology/Glology Section for assistance.

1. WELL LOCATION/NAME
   Island MAUI
   Tax Map Key 3-2-3-1
   Address
   (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
   Firm Name DOMINICK MARINO
   Contact Person DOMINICK MARINO
   Address P.O. Box 139
   WAIKIKI, HI
   Phone 96-743

3. PROPOSED CONTRACTOR FOR:
   Name RICHARDSON DRILLING
   Address KONA
   Contractor's License No.

4. PROPOSED WORK
   - Drill New Well
   - Deepen
   - Alter
   - Install New Pump
   - Replace Pump
   - Redrill
   - Abandon
   - Modify Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE
   - Municipal (including hotels, stores, etc.)
   - Military
   - Domestic (individual, noncommercial water systems)
   - Irrigation (specify)
   - Industrial
   - Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL
   ___ 1000 gallons per day

7. PROPOSED PUMP INFORMATION
   Pump Type: Vertical Turbine
   Motor: Diesel
   Rate Pump Capacity: 20 gallons per minute (gpm)
   Submersible
   Submersible
   Electric: 1 HP
   Centrifugal
   Rated Horsepower

Well Owner (print) DOMINICK MARINO
Signature
Date 12/15/90

For Official Use Only:
Field Checked By
Latitude
Longitude
Hydrologic Unit
State Well No. 5431-06(A)

Landowner (print) DOMINICK MARINO
Signature
Date 12/15/90

Bund. Map H-5
Briefly describe the proposed work:

**DRILL AND CASE WELL, INSTALL PUMP**

**AND DISCHARGE PIPING.**

---

**PROPOSED SECTION OF WELL**

- **Elevation at top of casing**: 120 ft., msl.
- **Cement Grout**: 40 ft.
- **Hole Dia.**: 8 in.
- **Total Depth**: 120 ft.
- **Rock Packing**: 80 ft.

---

**Ground Elev.** ft., msl*

- **Solid Casing:**
  - **Material**: STEEL
  - **Length**: 100 ft.
  - **Diameter**: 6 in.
  - **Wall thickness**: 0.250 in.

- **Casing**: \(\n\)\(\)/Screen
  - **Material**: CORTEN
  - **Length**: 30 ft.
  - **Diameter**: 6 in.
  - **Wall thickness**: 0.250 in.
  - **Openings**: 70 sq. in./L.F.

- **Open Hole**:
  - **Length**: TO BE DETERMINED
  - **Diameter**: 6 in.

---

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
APPLICATION FOR
WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT
WELL "B"

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 272, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $12.50 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 116-7542, Hydrology/Groundwater Section for assistance.

1. WELL LOCATION/NAME
   Island: MAUI  
   Tax Map Key: 3-2-3-1
   Address: __________________________________________
   (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
   Firm Name: DOMINICK MARINO
   Contact Person: DOMINICK MARINO
   Address: RR1 # 139
   WALLAUG, HI
   Phone: 96743
   LANDOWNER
   Firm Name: DOMINICK MARINO
   Contact Person: DOMINICK MARINO
   Address: RR1 # 139
   WALLAUG, HI
   Phone: 96743

3. PROPOSED CONTRACTOR FOR:
   Name: RICHARDSON OR
   Address: KONA
   Contractor's License No.

4. PROPOSED WORK
   ☑ Drill New Well  ☑ Deepen  ☑ Abandon
   ☑ Alter  ☑ Seal  ☑ Modfify Pump
   ☑ Install New Pump  ☑ Replace Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE
   ☑ Municipal (including hotels, stores, etc.)  ☑ Military
   ☑ Domestic (individual, non-commercial water systems)  ☑ Industrial
   ☑ Irrigation (specify)  ☑ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL
   1000 gallons per day

7. PROPOSED PUMP INFORMATION
   Pump Type: ☑ Vertical Turbine  ☑ Submersible  ☑ Centrifugal
   Motor: ☑ Diesel  ☑ Gas  ☑ Electric: 1 HP  ☑ Rated Horsepower
   Rated Pump Capacity: 20 gallons per minute (gpm)

Well Owner (print): DOMINICK MARINO
Landowner (print): DOMINICK MARINO

Signature: ____________________________
Date: 12/13/90

For Official Use Only:
Latitude: ____________________________
Longitude: ____________________________
Hydrologic Unit: 5631-302(5)
State Well No.: 6631-302(5)
Ground Map: 3-H-5
Briefly describe the proposed work:

**DRILL AND CASE WELL. INSTALL PUMP**
AND **DISCHARGE PIPING**.

---

**PROPOSED SECTION OF WELL**

---

Elevation at top of casing: 120 ft., msl.

- **Cement Grout**: 40 ft.
- **Hole Dia.**: 8 in.
- **Total Depth**: 120 ft.
- **Rock Packing**: 80 ft.

**Ground Elev.**: ft., msl

**Solid Casing**:
- **Material**: STEEL
- **Length**: 100 ft.
- **Diameter**: 6 in.
- **Wall thickness**: 2.50 in.

**Casing**:
- **Material**: COR Ten
- **Length**: 80 ft.
- **Diameter**: 6 in.
- **Wall thickness**: 2.50 in.
- **Openings**: 70 sq. in./L.F.

**Open Hole**:
- **Length**: TO BE DETERMINED
- **Diameter**: 6 in.

---

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.*
APPLICATION FOR

WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT

WELL "A"

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 143, Honolulu, Hawaii 96805. Application must be accompanied by a non-refundable filing fee of $110.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 1-800-988-8762. Hydrology/Geology Section for assistance.

1. WELL LOCATION/NAME

DOMINIC MARINO

Island MAUI

Tax Map Key 3-2-3-1

Address ________________________________

(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name ________________________________

Contact Person ____________________________

Address P.O. Box 39

WAILUKU, HI

Phone 96-793

3. PROPOSED CONTRACTOR FOR:

Name RICHARDSON DRILLING,

Address KONA

4. PROPOSED WORK

☐ Drill New Well ☐ Deepen ☐ Redrill

☐ Alter ☐ Seal ☐ Abandon

☐ Install New Pump ☐ Replace Pump ☐ Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.) ☐ military

☐ Domestic (individual, noncommercial water systems) ☐ Industrial

☐ Irrigation (specify) ☐ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL

1000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine ☐ Submersible

☐ Centrifugal ☐ Electrical: 1 HP

Motor: ☐ Diesel ☐ Centrifugal

Rated Pump Capacity 20 gallons per minute (gpm)

Well Owner (print) DOMINIC MARINO

Date 12/15/90

Landowner (print) DOMINIC MARINO

Date 12/15/90

For Official Use Only:

Field Checked By __________________________

Latitude __________________________

Longitude __________________________

Hydrologic Unit _________________________

State Well No. 5631-05(A)

Bund. Map H-5
Briefly describe the proposed work:

DRILL AND CASE WELL. INSTALL PUMP
AND DISCHARGE PIPING.

PROPOSED SECTION OF WELL

Elevation at top of casing
120 ft., msl.

Ground Elev. ft., msl*

Cement Grout 40 ft.

Hole Dia. 8 in.

Total Depth 120 ft.

Rock Packing 30 ft.

SOLID CASING:

Material: STEEL

Length 100 ft.

Diameter 6 in.

Wall thickness .250 in.

CASING: (Perforated / Screen

Material: CORTEN

Length 20 ft.

Diameter 6 in.

Wall thickness .250 in.

Openings 70 sq. in./L.F.

Open Hole:

Length: TO BE DETERMINED

Diameter 6 in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
APPLICATION FOR
WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT

WELL "E"

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96819. Application must be accompanied by a non-refundable filing fee of $72.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 149-7511, Hydrology/Geology Section for assistance.

1. WELL LOCATION/NAME
   Island MAUI
   Tax Map Key 3-2-3-1
   Address
   (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
   LANDOWNER
   Firm Name
   Contact Person
   Address RRI 6-23A
   Wall Street, H1
   Phone 96743
   Phone

3. PROPOSED CONTRACTOR FOR:
   Well Drilling
   Pump Installation
   Name RICHARDSON OR
   Address KONA
   Contractor's License No.

4. PROPOSED WORK
   Drill New Well
   Alter
   Install New Pump
   Replace Pump
   Radrill
   Abandon
   Modify Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE
   Municipal (including hotels, stores, etc.)
   Domestic (individual, noncommercial water systems)
   Industrial
   Irrigation (specify)
   Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL
   1000 gallons per day

7. PROPOSED PUMP INFORMATION
   Pump Type: Vertical Turbine
   Motor: Diesel
   Gas
   Electric
   Rated Pump Capacity 20 gallons per minute (gpm)
   Submersible
   Centrifugal
   HP
   Rated Horsepower

   Well Owner (print) DOMINICK MARINO
   Landowner (print) DOMINICK MARINO
   Signature (print)
   Date 12/13/90

For Official Use Only:
Field Checked By
Latitude
Longitude
Hydrologic Unit
State Well No. 5631-06506(B)
Bore Map H-5
Briefly describe the proposed work:

DRILL AND CASE WELL, INSTALL PUMP
AND DISCHARGE PIPING.

PROPOSED SECTION OF WELL

Elevation at top of casing
120 ft., msl.

Cement Grout: 40 ft.

Hole Dia.: 8 in.

Total Depth: 120 ft.

Rock Packing: 20 ft.

Solid Casing:
- Material: STEEL
  - Length: 100 ft.
  - Diameter: 6 in.
  - Wall thickness: 0.250 in.

Casing: Perforated / Screen
- Material: CORRGEN
  - Length: 80 ft.
  - Diameter: 6 in.
  - Wall thickness: 0.250 in.
  - Openings: 70 sq. in./L.F.

Open Hole:
- Length: TO BE DETERMINED
- Diameter: 6 in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
APPLICATION FOR

WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT

WELL "B"

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 317, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $15.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 1-808-983-6460. Hydrology/Geology Section for assistance.

1. WELL LOCATION/NAME

DOMINICK MARINO
Island MAUI
Tax Map Key 3-2-3-1
Address

(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name
Contact Person
Address RRI #13A WAILUKU, HI
Phone 96793

LANDOWNER
Firm Name
Contact Person
Address RRI #13A WAILUKU, HI
Phone 96793

3. PROPOSED CONTRACTOR FOR: 

Name RICHARDSON OR PR DRILLING, OAHU Phone 2
Address KONA Contractor's License No.

4. PROPOSED WORK

Drill New Well
Alter
Install New Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

Municipal (including hotels, stores, etc.)
Domestic (individual, noncommercial water systems)
Irrigation (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL 1000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: Vertical Turbine
Motor: Diesel
Rated Pump Capacity: 20 gallons per minute (gpm)

State Well No. 641-06 (B)
Well Map M-5

Signature
Date 12/13/80
Briefly describe the proposed work:

DRILL AND CASE WELL. INSTALL PUMP
AND DISCHARGE PIPING.

PROPOSED SECTION OF WELL

Elevation at top of casing 120 ft., msl.

Cement Grout 40 ft.

Hole Dis. 8 in.

Total Depth 120 ft.

Rock Packing 80 ft.

Ground Elev. 240 ft., msl*

Solid Casing:
Material STEEL
Length 100 ft.
Diameter 6 in.
Wall thickness 0.250 in.

Casing: Perforated /Screen
Material CORTEN
Length 20 ft.
Diameter 6 in.
Wall thickness 0.250 in.
Openings 70 sq. in./L.F.

Open Hole:
Length TO BE DETERMINED
Diameter 6 in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.