NOTICE TO START DRILLING

DATE: 03/01/2005

This is to inform you that we would like to start well construction on the WALLACE WELL, Well No. 3688-10 and would like to use the test pump as the permanent pump prior to final pump installation permit issuance.

Fill free to call me at 808-987-8100 or home 808-966-6398.

Rod Diamond  Well Driller/ Contractor BC23379
WELL CONSTRUCTION PERMIT
Wallace Well, Well No. 3688-10

Note: This permit shall be prominently displayed at the construction site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Wallace Well (Well No. 3688-10) at TMK 1-5-052:167, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrmlforms.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

6. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' Division of historic Preservation.

7. The proposed well construction 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 the well shall not constitute a determination of correlative water rights.

8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrmlforms.htm for current form).

9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

10. The well construction permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the HWCPIS. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

11. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

12. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assignees, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

14. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with Hawaii Administrative Rules §13-168-12(f).

15. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: February 21, 2005
Expiration Date: February 21, 2007

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit-date of approval.

Driller's Signature: Rod Wallace
C-57 License #: 8123329 Date: 2/6/05

Printed Name: Rod Wallace
Firm or Title: Driller

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment
C: USGS
Hawaii Department of Water Supply
William Wallace
Ref:3688-10.wcp

Mr. Rod Diamond
Rod Diamond Construction
HCR 3 Box 14073
Keaau, HI 96749-9229

Dear Mr. Diamond:

Well Construction Permit
Wallace Well (Well No. 3688-10)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:

**Special Conditions**

1. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.

Please sign both permit originals and return one for our files. For copies of the aquifer pump test worksheet, please call staff or visit www.state.hi.us/dlnr/cwrm/forms.htm.

**IMPORTANT** - Drilling work shall not commence until a fully signed permit is returned to the Commission. The permit shall be prominently displayed or made available at the construction site during construction. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Lenore Y. Nakama of the Commission staff at 587-0218 or toll-free at 974-4000 (Hawaii), extension 70218.

Sincerely,

Peter T. Young
Chairperson

Enclosures
WELL CONSTRUCTION PERMIT

Wallace Well, Well No. 3688-10

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Driller's Signature: __________________________ C-57 License #: __________ Date: __________

Printed Name: __________________________ Firm or Title: __________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

C: USGS
   Hawaii Department of Water Supply
   William Wallace
## Well Check Program

4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

<table>
<thead>
<tr>
<th>Data Input</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Number</td>
<td>3688-10</td>
</tr>
<tr>
<td>Well Name</td>
<td>Wallace</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>100</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>80</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>other</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>12</td>
</tr>
<tr>
<td>Total Depth</td>
<td>110</td>
</tr>
<tr>
<td>Estimated Head</td>
<td>10</td>
</tr>
<tr>
<td>Public Water Supply Well?</td>
<td>no</td>
</tr>
<tr>
<td>Solid Casing Material</td>
<td>pvc plastic</td>
</tr>
<tr>
<td>Solid Casing Specification</td>
<td>Schedule 40</td>
</tr>
<tr>
<td>Solid Casing Length</td>
<td>101</td>
</tr>
<tr>
<td>Solid Casing Diameter</td>
<td>6</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td></td>
</tr>
<tr>
<td>Open Casing Length</td>
<td>10</td>
</tr>
</tbody>
</table>

### Results

#### Well Depth

| Theoretical Thickness of Aquifer | 410 |
| 1/4 Aquifer Thickness | 102.5 |
| Depth of Well below Sea Level | -10 ok |

#### Well Casing

| Minimum Wall Thickness Material | pvc plastic |
| Minimum Thickness per standards | no requirement |
| Wall Thickness Provided | 0 too small |
| Minimum Length of Solid Casing | 81 |
| 90% of ground to top of aquifer | |
| Length of solid casing Provided | 101 ok |
| Casing Material | Schedule 40 in compliance |
| (for pvc only - check for 200' limit) | ok |
| Annular Space |
| Depth of Grouting | 63 |
| Depth of Grouting provided | 80 ok |
| Minimum Annular Space required | 2 |
| Thickness of Annular Space | 3 ok |
January 20, 2005

TO:       Honorable Chiyome L. Fukino, M.D., Director
          Department of Health
          Attention: Harold Yea, Wastewater Branch
                      William Wong, Safe Drinking Water Branch
                      Dr. Keith Kawaoaka, Hazardous Waste Evaluation and Emergency Response
                      Alec Wong, Clean Water Branch

FROM:    Peter T. Young, Chairperson
          Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Wallace Well (Well No. 3688-10)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 21, 2005. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (MAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-22-25.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination [ ] is not located near the proposed well site (information attached).

[ ] An NPDES permit is required.

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] No comments/objections.

Contact Person: William Wong
Signed: William Wong
Phone: 586-4258
Date: JAN 28 2005
January 20, 2005

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

FROM: Peter T. Young, Chairperson
Commission on Water Resource Management

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LYN:ss
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RESPONSE:

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[1] An NPDES permit is required.

[1] Other relevant DOH rules/regulations, information, or recommendations are attached.

[1] No comments/objections

Contact Person: Alec Wong
Phone: 586-6309
Date: 1/25/05

05A215
The Department of Health, Clean Water Branch has the following comments:

1. **For Well-Drilling Activities**

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (808) 586-4352.

2. **For Well Pump Testing**

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering State waters. Such measures shall include, if necessary, containment of the initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the discharger must obtain written permission from the owner of that storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.

JS/cr
January 20, 2005

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

FROM: Peter T. Young, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
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Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Y. Nakama of the Commission staff at 587-0218.

LYN: ss
Attachment(s)

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[ ] For the applicant's information, a source of possible wastewater contamination [] is [] is not located near the proposed well site (information attached).

[ ] An NPDES permit is required.

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: Lei Kejiwana
Phone: 586-4294
Date: 01-25-05
January 20, 2005

TO: Dede Mamiya, Administrator
    Land Division

FROM: Yvonne Y. Izu, Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
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LYN:ss
Attachment(s)

RESPONSE:
[ ] A water lease/permit is required of this applicant and an application for such will be requested by our
division.

☒ A water lease/permit is not required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. ______________________

☒ This well project [ ] requires ☒ does not require a CDUP. If a CDUP is required it [ ] has [ ] has not been approved and [ ] is [ ] is not currently active.

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

[ ] No objections

☒ Other comments: Original source of private title was issued prior to statehood in 1959.

Contact Person: Gary Martin
    Phone: 587-0421

Signed: Gary Martin
    Date: JAN 24 2005
January 20, 2005

Mr. Rod Diamond
Rod Diamond Construction
HCR 3 Box 14073
Keaau, HI 96749-9229

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 3688-10

We acknowledge receipt, on January 10, 2005, of your completed Well Construction/Pump Installation permit application and filing fee for the Wallace Well (Well No. 3688-10). You can expect your application to be processed within ninety (90) days from this date.

For your information, the process of constructing a well is normally regulated and permitted in two (2) steps. First, a well construction permit is issued for drilling and testing purposes only. Based upon information provided by you through a Well Completion Report Part 1 (Well Construction), a pump installation permit (upon completed application) may then be issued to authorize pump work. If a pump is installed then a Well Completion Report Part 2 (Pump Installation) is required.

If you have any questions about your permit application, please contact Lenore Y. Nakama of the Commission staff at 587-0218 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70218.

Sincerely,

YVONNE Y. IZU
Deputy Director

LYN:ss

c: William & Marietta Wallace
January 20, 2005

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoaka, Hazardous Evaluation and Emergency Response
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Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

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[ ] A water lease/permit is not required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. ____________________________

[ ] This well project [ ] requires [ ] does not require a CDUP. If a CDUP is required it [ ] has [ ] has not been approved and [ ] is [ ] is not currently active.

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

[ ] No objections

[ ] Other comments:

Contact Person: ____________________________ Phone: ______________

Signed: ____________________________ Date: ______________
January 20, 2005

TO: Melanie Chinen, Administrator
Historic Preservation

FROM: Yvonne Y. Izu, Deputy Director
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Wallace Well (Well No. 3688-10)

Transmitted for your review and comment is a copy of the captioned Well
Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the
programs, plans, and objectives specific to your division. Please respond by returning this
cover memo form by February 21, 2005. If we do not receive comments or a request for
additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions
about this permit application, request additional information, or request additional review time,
please contact Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

RESPONSE:
[ ] There may be areas in the vicinity of the well site that contain subsurface cultural remains such as artifacts,
burials or concentrations of shells or charcoal.

[ ] Other relevant Historic Preservation rules/regulations, information, or recommendations are attached.

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: __________________

Signed: ___________________________ Date: __________________
PUBLIC RECORD DATA

TMK # 3-1-5-52-167  15-1474 9TH AVE

Owner: GARRETT, MARTY A/ETAL
Tax Payer: GARRETT, MARTY A
Tax Bill: RR4 BOX 2280, PAHOA, HI 96778 USA

Tenure: Fee Simple
Annual Tax: $412.37
Dwellings: 1
Census Use: 210

Assessed Value  Exemption  Size  Buildings: 1  Land Use: 0
Land:  $13,000  $0  1.00 ac
Total:  $101,300  $40,000  1,818 sq ft
Buildings:  $114,300  $40,000

SALES

12/10/1997  TRANSD  $0 LCD 2425180  TCT 707872
MONTGOMERY, DESIREE

7/30/2004  DEED  $75,000 LCD 3144952  TCT 707872
GARRETT, MARTY ALLEN, Single Person or Individual
WALLACE, WILLIAM CHARLES, Married Man

RESIDENTIAL BUILDING DETAILS

<table>
<thead>
<tr>
<th>TMK # 3-1-5-52-167</th>
<th>Bidg 1 of 1</th>
<th>Card 1 of 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year Built: 1980</td>
<td>Style: Contemporary</td>
<td>Bidg Quality: (2-) Poor-</td>
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<tr>
<td>Effective year built: 1982</td>
<td>Shape: Rectangle</td>
<td>Occupancy: Single-family</td>
</tr>
<tr>
<td>Physical condition: Average</td>
<td>Roof Structure: Wood</td>
<td>Framing: Single wall/dbl board</td>
</tr>
<tr>
<td>Cost &amp; Design Factor: 1.00%</td>
<td>Roof Material: Corr iron</td>
<td>Exterior Wall: Plywood</td>
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<tr>
<td>Economic Factor:</td>
<td>Roof Design: Gable</td>
<td>Interior Wall Structure: Double wall</td>
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<tr>
<td>Percent complete:</td>
<td>Foundation: Wood pliers</td>
<td>Interior Wall Material: Plaster Board</td>
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<tr>
<td>Building value: $101,300</td>
<td>Central AC/Heat: None</td>
<td>Flooring: Carpet</td>
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<tr>
<td>Attic: None</td>
<td>Basement: None</td>
<td>Floor Construction: Wood joist</td>
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<tr>
<td>Ceiling: Plaster-board</td>
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FLOOR AREAS

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<tr>
<th>LLLA</th>
<th>0</th>
<th>1st Story</th>
<th>1,034</th>
<th>2nd Story</th>
<th>784</th>
<th>Addl Story</th>
<th>0</th>
<th>Half Story</th>
<th>0</th>
<th>Attic</th>
<th>0</th>
<th>Total SFLA</th>
<th>1,818</th>
<th>Basement</th>
<th>0</th>
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</thead>
</table>

BATHS

| LLLA | 0 | 1st Story | 3 | 2nd Story | No | Addl Story | 5 | Half Story | 0 | Attic | 0 | Total Fixt. | 9 | REC Room area | 0 |

There were 2 specific license classes on this licensee!

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<tr>
<th>LICENSE CLASS FOR THIS LICENSEE</th>
<th>LIC: CT-23379 RODNEY K DIAMOND</th>
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<td>C57</td>
<td>WELL</td>
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<tr>
<td>Approved Date</td>
<td>Well No.</td>
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<tr>
<td>1/3/2005</td>
<td>3687-16</td>
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<td>1/3/2005</td>
<td>3388-01</td>
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**TOTAL** $ 50.00

**REMARKS:**
LINE (1) Wallace Well, tmk: 1-5-052:167
LINE (2) HHV Well Nos. 1-7, tmk: 2-3-37:12
LINE (3) 
LINE (4) 
LINE (5) 
LINE (6) 
LINE (7) 
LINE (8) 
LINE (9) 
LINE (10)
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

If Well Construction and/or Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 521, Honolulu, Hawaii 96808. 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 587-6225.

For further information and updates to this application form, visit http://www.state.hi.us/dlnr/wrm.

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

1. (a) ❑ WELL OWNER: William Marcieta Wallace
   Mailing Address: 55-1479 94A St, HPP
   Phone: 808-965-1657
   Fax: 808-463-4129
   E-mail: alicewilliam@hawaii.rr.com
   (b) ❑ LAND OWNER: David Wallace
   Mailing Address: 55-1479 94A St, HPP
   Phone: 808-965-1657
   Fax: 808-463-4129
   E-mail: alicewilliam@hawaii.rr.com
   (c) ❑ CONTRACTOR: Red Diamond Construction
   Mailing Address: 55-1479 94A St, HPP
   Phone: 808-965-1657
   Fax: 808-463-4129
   E-mail: alicewilliam@hawaii.rr.com

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

2. WELL NAME: Wallace Well
   Island: Hawaii
   Address: 55-1479 94A St, HPP
   Tax Map Key: 3 - 5-052-167
   Zode: Vac 
   Parcel: Tax Map Key:
   Attach: (a) portion of a 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
   (b) a property tax map, showing well location referenced to established property boundaries
   (c) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK: ❑ Construct New Well ❑ Install New Pump
   (check all that apply)
   ❑ Modify Existing Well
   ❑ Modify Pump
   ❑ Abandon/Seal
   State Well No.: 123-456-789
   (If unknown, please call Commission at 587-0225)

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

5. PROPOSED PUMPING RATE: 25 gallons per minute

6. PROPOSED USE: ❑ Municipal (including hotels, stores, etc.) ❑ Industrial
   (check all that apply)
   ❑ Domestic (individual, noncommercial water system)
   Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections? ❑ Yes ❑ No
   ❑ Irrigation (crop)
   No. of Acres:
   ❑ Military
   ❑ Other (explain):

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 250 gallons per day
   (b) METHOD OF FLOW MEASUREMENT: ❑ Flowmeter ❑ Open-pipe ❑ Weir ❑ Office ❑ Other (explain):

OTHER IMPORTANT INFORMATION:

8. LEGAL REQUIREMENTS: ❑ 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 587-0414
   ❑ Required, if required, date approved: 01/01/2023
   Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEC at 585-4185
   ❑ Required, if required, date published in OEC bulletin
   Special Management Area Permit (SMAP) To determine if an SMAP is necessary, on Oahu, call 327-5374; on Maui, call 961-8238; for Maui county, call 270-7235; on Kauai, call 241-9677.
   ❑ Required, if required, date approved: 01/01/2023

9. ARCHEOLOGICAL REQUIREMENTS: ❑ Required, if required, please attach letter from DLNR Historic Preservation
   To find out if an archeological work is required: on Oahu, call Elaine Jourdane at 692-8027; on Maui, call MaryAnne Malg at 327-3690, for Kauai county, call Cathy Degher at 692-8023, on Kauai, call Nancy McElhannon at 742-7033.
   ❑ Required, if required, date approved: 01/01/2023

10. REMARKS, EXPLANATIONS:

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

   [Signature]
   Date

   [Signature]
   Date

   [Signature]
   Date

   [Signature]
   Date

For official use only

Latitude

Longitude

Aquifer System No.

State Well No.

WCPPA Form 77/03

For Official Use Only:

RECEIVED

JAN 10 A 9:00
Please send permit to me

Thank you,
Red Diamond
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

Elevation at top of casing: 10 ft, msl

Solid Casing: (check one):
- Carbon 8tH (min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less)
- Carbon Steel:
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
  - And compliant with (check one or more):
    - ASTM A242
    - Type E
    - Type S
    - Grade B
    - Other
- Stainless Steel: (check one):
  - ASTM A409 (production welds)
  - ASTM A312 (monitor welds)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)
- Schedule 40
- Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D22441): (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 Resin 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: (check one):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
  - And compliant with (check one or more):
    - ASTM A242
    - Type E
    - Type S
    - Grade B
    - Other
- Stainless Steel: (check one):
  - ASTM A409 (production welds)
  - ASTM A312 (monitor welds)

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- Schedule 40
- Schedule 80

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- PTFE Fluorocarbon Tubing conforming to ASTM D3296
- FEP Fluorocarbon Tubing conforming to ASTM D3296

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

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 = Water Elevation - [4 x Water Level Elevation]

Example: Estimated = 2 ft. Water Level Elev. —> Bottom Elevation of Well Limit = (2 - 4 x 1 ft) = -18.5 ft.

Solid Casing:
- Nominal Diameter: 6 in.
- Wall Thickness: 0.25 in.
- Bottom Elevation: 10 ft, msl

Open Casing: (check one)
- Perforated
- Screen
- Nominal Diameter: 6 in.
- Wall Thickness: 0.25 in.
- Bottom Elevation: < 10 ft, msl

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 = Water Elevation - [4 x Water Level Elevation]

Example: Estimated = 2 ft. Water Level Elev. —> Bottom Elevation of Well Limit = (2 - 4 x 1 ft) = -18.5 ft.

Open Hole:
- Length: 100 ft.
- Diameter: 14 in.
- Bottom Elevation: 100 ft, msl

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