**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR PERMIT ISSUANCE**

**FROM:** RYAN  
**DATE:** 1/2/05  
**SUSPENSE DATE:**

<table>
<thead>
<tr>
<th>TO</th>
<th>INIT.</th>
<th>TO</th>
<th>INIT.</th>
<th>FOR</th>
<th>PLEASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAUER, G.</td>
<td></td>
<td>NAKAMA, L.</td>
<td></td>
<td>Approval</td>
<td>See Me</td>
</tr>
<tr>
<td>CHING, F.</td>
<td></td>
<td>NAKANO, D.</td>
<td></td>
<td>Signature</td>
<td>Take Action</td>
</tr>
<tr>
<td>DANBARRA, S.</td>
<td>3</td>
<td>OYHE, M.</td>
<td>3</td>
<td>Information</td>
<td>Type Draft</td>
</tr>
<tr>
<td>FUJII, N.</td>
<td></td>
<td>SAKODA, E.</td>
<td></td>
<td></td>
<td>Type Final</td>
</tr>
<tr>
<td>GOODING, K.</td>
<td></td>
<td>STAHL, K.</td>
<td></td>
<td></td>
<td>File</td>
</tr>
<tr>
<td>HARDY, R.</td>
<td>2</td>
<td>SUBIA, S.</td>
<td></td>
<td></td>
<td>Xerox copies</td>
</tr>
<tr>
<td>HIGA, D.</td>
<td></td>
<td>SWANSON, S.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICE, C.</td>
<td></td>
<td>UYENO, D.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMATA, R.</td>
<td>4</td>
<td>YODA, K.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IZU, Y.</td>
<td></td>
<td>YOSHINAGA, M.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KUNIMURA, I.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WELL NUMBER** 3687-16  
**WELL NAME** Puley well

**WELL CONSTRUCTION**

**ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:**
- 1 COVER LETTER
- 2 PERMIT (2x)
- 3 SDWB Date
- 4 WWB Date
- 5 CWB Date
- 6 HEER Date
- 7 LD Date
- 8 HP Date
- 9 PUMP TEST
- 10 WRI I FORM

**TO BE SENT TO APPLICANT**

App date = 1/3/05

Need to fix table negative on well thickness when PVC.

**PUMP INSTALLATION**

**ATTACHMENTS FOR PUMP INSTALLATION PERMIT:**
- 1 COVER LETTER
- 2 PERMIT (2x)
- 3 SDWB Date
- 4 WWB Date
- 5 CWB Date
- 6 HEER Date
- 7 LD Date
- 8 HP Date
- 9 WRI II FORM
- 10 WUR FORM
- 11 GLENN'S WORKSHEET

**FOR OFFICE USE ONLY**
January 7, 2005

Ref: 3687-16.wcp

Mr. Robert Duley
HCR 1 Box 5742
Keeau, HI 96749

Dear Mr. Duley:

Well Construction Permit

Duley Well (Well No. 3687-16)

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 is a copy 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.

This permit does not authorize work for your permanent pump installation. Approval and issuance of your pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (February 2004) and any special conditions performed under this permit. However, a permanent pump may be installed prior to the permanent pump installation permit issuance in accordance with the Commission's April 15, 1998 Declaratory Ruling No. DEC-ADM98-G5, which states that:

"Permanent pump installation for capacities between 0-70 gpm and where the proposed use is for private individual needs in non-ground-water management areas may be allowed prior to the final pump installation permit issuance. When required as a condition of the well construction permit, subsequent pumping tests shall validate the acceptability of the permanent pump. The permanent pump installed prior to final pump installation permit issuance is subject to removal if the testing shows that a smaller pump is required to reduce the potential of affecting neighboring wells and localized upconing at the applicant's well."

If you qualify and wish to take advantage of this ruling, please include a written request to install the permanent pump prior to final pump installation permit issuance when you return to us your signed well construction permit.
Please sign and have the contractor sign both permit originals and return one for our files. Also, copies of the aquifer pump test worksheet and the well completion report form are enclosed for your use.

**IMPORTANT** - Drilling work shall not commence until a fully signed permit is returned to the Commission. Please provide all the information in this packet to your well drilling contractor. The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the well construction contractor, or other party who constructs the well(s), submits a completed Part I of the Well Completion Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $5000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai), extension 70255.

Sincerely,

W. Roy Handy

Peter T. Young
Chairperson

Enclosures

c: Rod Diamond
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 Dudley Well (Well No. 3687-16) at HPP, Hawaii, TMK 1-5-053; 011, subject to the Hawaii Well Construction & Pump Installation Standards (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. The well construction permit shall be for construction and testing of the well only. A minimum 1.94-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pumping test worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. 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.

4. The permittee, well operator, and/or well owner shall incorporate mitigation measures to prevent construction cavings from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee, well operator, and/or well owner shall stop work and contact the Department’s Historic Preservation immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established in-stream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Not plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (February 18, 2004; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proceeded 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 three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. 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, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: January 3, 2005
Expiration Date: January 3, 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 and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5000 per day starting from the permit date of approval.

Permittee’s Signature: ___________________________ Date: ____________

Printed Name: ___________________________ Firm or Title: ___________________________

Driller’s Signature: ___________________________ 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

USGS
Department of Health Safe Drinking Water, Wastewater, and Clean Water Branches
Hawaii Department of Water Supply
Rod Diamond
<table>
<thead>
<tr>
<th>Data Input</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Number</td>
<td>3687-16</td>
</tr>
<tr>
<td>Well Name</td>
<td>Duley</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>81</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>50</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>90</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>80</td>
</tr>
<tr>
<td>Solid Casing Diameter</td>
<td>6</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td>0.3125</td>
</tr>
<tr>
<td>Open Casing Length</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Results</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth</td>
<td></td>
</tr>
<tr>
<td>Theoretical Thickness of Aquifer</td>
<td>410</td>
</tr>
<tr>
<td>1/4 Aquifer Thickness</td>
<td>102.5</td>
</tr>
<tr>
<td>Depth of Well Below Sea Level</td>
<td>9.0 bay</td>
</tr>
<tr>
<td>Well Casing</td>
<td></td>
</tr>
<tr>
<td>Minimum Wall Thickness</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>pvc plastic</td>
</tr>
<tr>
<td>Minimum Wall Thickness per standards</td>
<td></td>
</tr>
<tr>
<td>No requirement</td>
<td></td>
</tr>
<tr>
<td>Wall Thickness Provided</td>
<td>0.3125 too small</td>
</tr>
<tr>
<td>Minimum Length of Solid Casing</td>
<td></td>
</tr>
<tr>
<td>90% of ground to top of aquifer</td>
<td>63.9</td>
</tr>
<tr>
<td>Casing Material</td>
<td></td>
</tr>
<tr>
<td>Schedule 40</td>
<td></td>
</tr>
<tr>
<td>Not applicable - check for 200' depth</td>
<td></td>
</tr>
<tr>
<td>Annular Space</td>
<td></td>
</tr>
<tr>
<td>Depth of Grouting</td>
<td></td>
</tr>
<tr>
<td>Calculated Depth of Grouting</td>
<td>49.7</td>
</tr>
<tr>
<td>Depth of Grouting Provided</td>
<td>68 okay</td>
</tr>
<tr>
<td>Minimum Annular Space required</td>
<td>2</td>
</tr>
<tr>
<td>Thickness of Annular Space</td>
<td></td>
</tr>
<tr>
<td>3 okay</td>
<td></td>
</tr>
<tr>
<td>FROM:</td>
<td>TO:</td>
</tr>
<tr>
<td>-------</td>
<td>-----</td>
</tr>
<tr>
<td>ROY</td>
<td>BAUER, G.</td>
</tr>
<tr>
<td></td>
<td>CHING, F.</td>
</tr>
<tr>
<td></td>
<td>DANBARA, S.</td>
</tr>
<tr>
<td></td>
<td>FUJII, N.</td>
</tr>
<tr>
<td></td>
<td>GOODING, K.</td>
</tr>
<tr>
<td></td>
<td>HARDY, R.</td>
</tr>
<tr>
<td></td>
<td>HIGA, D.</td>
</tr>
<tr>
<td></td>
<td>ICE, C.</td>
</tr>
<tr>
<td></td>
<td>IMATA, R.</td>
</tr>
<tr>
<td></td>
<td>IZU, Y.</td>
</tr>
<tr>
<td></td>
<td>KUNIMURA, I.</td>
</tr>
</tbody>
</table>

"source of contamination nearby"
Date: 11-29-04

To: Commission on Water Resource Management
Department of Land & Natural Resources
State of Hawaii

Attn: Ryan Imata (Boy, Maybe Busy)

From: Lori Kajiwara
Planning & Design Section
Email: Lkajiwara@eha.health.state.hi.us
Ph 586-4290 direct line
Fax 586-4300

Subject: Well Construction/Pump Installation Permit/Water Use Permit for
Well Nos: 1652-02/3388-01/5558-01/3586-05/
3087-10/3786-01/302-07/4707-01/4755-01

Please find enclosed the application of the above subject project.
November 22, 2004

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
          Duley Well (Well No. 3687-16)

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 January 3, 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 Ryan Imata of the Commission staff at 587-0255.

Response:

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 90 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 (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems §11-20-29.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 90 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 (information attached).

An NPDES permit is required.

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

No comments/objections

Contact Person: Lori Kajiwara
Phone: 586-4294

Signed: [Signature]

Date: 11-09-04
A septic tank file has been found and the following information is provided. In general, the Department of Health has reviewed and approved of the plans based on the information submitted as verification that a treatment individual wastewater system (IWS) such as a septic tank was constructed and authorized to be used for wastewater disposal from a building/dwelling.

<table>
<thead>
<tr>
<th>Tax Map Key number</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3) 1 - 5 - 053 : 011</td>
<td>H7P 5523</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Septic Tank File #</th>
<th>Applicant Name</th>
<th>Submit Plan Date</th>
<th>Plan Approval Date</th>
<th>Inspection Date</th>
<th>System Approved for Use Date</th>
<th>BPA Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Robert D. Ouley</td>
<td>08-17-04</td>
<td>09-22-04</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System / Disposal Via</th>
<th>Use For</th>
<th>Designed By</th>
<th>Percolation Rate / Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Septic tank</td>
<td>3 bedrooms</td>
<td>Smith</td>
<td>1 min / inch : 1000 gallons</td>
</tr>
</tbody>
</table>

Wastewater Branch Engineer PD Section (Oahu) ______________________________

For further information, you may also call the Wastewater Branch neighbor island engineers:

[ ] Mr. Dane Hiromasa at the Kealakekua Health Center, Kona at (808)322-1507
[ ] Mr. Jerry Nunogawa at the Hawaii District Health Office, Hilo at (808)933-0401
[ ] Mr. Joe Tateyama at the Kauai District Health Office at (808)241-3323
[ ] Mr. Roland Tejano at the Maui District Health Office at (808)984-8232
November 22, 2004

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
         Duley Well (Well No. 3687-16)

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 January 3, 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 Ryan Imata of the Commission staff at 587-0255.

Riss
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 (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-2-21.

[ ]

This well does not qualify as a source serving a public water system (serves less than 25 people or people at least 60 days per year or 15 service connections) and if the well 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 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 prevention device by clearly labeling all non-potable outlets 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 located near the proposed well site (information attached).

[ ]

A NPDES permit is required.

[ ]

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

[ ]

No comments/observations.

Contact Person: **Bill Wong**

Phone: 586-4258

Signed: **Bill Wong**

Date: **NOV 26 2004**
November 22, 2004

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawakaka, 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
Duley Well (Well No. 3687-18)

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 January 3, 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 Ryan Imata of the Commission staff at 587-0255.

Attachment(s)

RESPONSE:

[1] 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 25 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR). Title 11, Chapter 20, Rules Relating to Potable Water Systems, 11-20-20.

[2] 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.

[3] 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 use clearly labeling of non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

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


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

[8] No comments/objections.

Contact Person: Alec Wong
Phone: 808-684-3809
Date: 11/29/04

Alec Wong
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/kr
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: **RYAN**  
DATE: **17-Nov-04**  
SUSPENSE DATE: **24-Nov-04**

<table>
<thead>
<tr>
<th>TO</th>
<th>INIT.</th>
<th>TO</th>
<th>INIT.</th>
<th>FOR</th>
<th>PLEASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAUER, G.</td>
<td></td>
<td></td>
<td></td>
<td>1 Approval</td>
<td>See Me</td>
</tr>
<tr>
<td>CHING, F.</td>
<td></td>
<td></td>
<td></td>
<td>1 Signature</td>
<td>1 Review &amp; Comment</td>
</tr>
<tr>
<td>FUJII, N.</td>
<td></td>
<td></td>
<td></td>
<td>3 Information</td>
<td>Take Action</td>
</tr>
<tr>
<td>HARDY, R.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGA, D.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIRANO, E.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICE, C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMATA, R.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IZU, Y.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KUNIMURA, I.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WELL NUMBER** 3687-16  
**WELL NAME** Duley

- [ ] WELL CONSTRUCTION  
- [ ] PUMP INSTALLATION  
- [X] BOTH

**ATTACHMENTS FOR APPLICATION PROCESSING** - Both applicant & staff generated
1. TRANS. LETTER  
2. CWRM MAP  
3. APPL. FORM (5 COPIES)  
4. USGS MAPS (5 COPIES)  
5. TAX MAPS (5 COPIES)  
6. PARCEL OWNER VERIF.  
7. CONTRACTOR VERIF.  
8. ALL INFO FILLED IN  
9. BACKGROUND CHECK  
10. $25 FEE DEPOSIT SLIP  
11. DHP & SMA check

**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>Need well owner name: Landowner per Rod Diamel</td>
</tr>
</tbody>
</table>

**Fossil North**
November 22, 2004

Mr. Robert Duley
HCR1 Box 5742
Keeau, HI 96749

Dear Mr. Duley:

Well Construction/Pump Installation Permit Application for Well No. 3687-16

We acknowledge receipt, on November 8, 2004, of your completed Well Construction/Pump Installation permit application and filing fee for the Duley Well (Well No. 3687-16). 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 Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70255.

Sincerely,

YVONNE Y. IZU
Deputy Director

RI:ss

c: Rod Diamond
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
         Duley Well (Well No. 3687-16)

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 January 3, 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 Ryan Imata of the Commission staff at 587-0255.

R: 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 (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[ ] 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 [] 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: ____________________________ Phone: ______________

Signed: ____________________________ Date: __________
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 January 3, 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 Ryan Imata of the Commission staff at 587-0255.

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:

Contact Person: ________________ Phone: ________________

Signed: ________________ Date: ________________
TO: Melanie Chinen, Administrator  
   Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application  
   Duley Well (Well No. 3687-16)

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 January 3, 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 Ryan Imata of the Commission staff at 587-0255.

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: ______________

[Signature]
Professional and Vocational Licensing Search

LICENSE CLASS SCREEN

Please click a link listed below to display the other screen.

There were 2 specific license classes on this licensee!

***** LICENSE CLASS FOR THIS LICENSEE *****

LIC: CT-23379  RODNEY K DIAMOND

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>CLASS TYPE</th>
<th>EFFECTIVE</th>
<th>RESTRICTED</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>GENERAL BUILDING</td>
<td>10/12/01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C57</td>
<td>WELL</td>
<td>06/30/04</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<-Back  New Search->

EMPLOYEES LIST || EMPLOYERS LIST || INSURANCE/BOND || LICENSE CLASS

Copyright 2002 Professional and Vocational Licensing
Division

Hawaii State homepage || DCCA || Professional and Vocational Licensing Division

http://www.ehawaii.gov/serv/pvl?_f=n&_a=LC&licno=23379&lictp=CT&off=0&nm...  11/18/2004
### PUBLIC RECORD DATA

<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo</th>
<th>Tnr Address</th>
<th>Owner/Lessee</th>
<th>Bds</th>
<th>Baths</th>
<th>Land area</th>
<th>Liv area</th>
<th>Last Sale Instr</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1-5-53-11</td>
<td>Hawaiian F Paradise Park</td>
<td>DULEY, ROBERT A/HELEN Y</td>
<td></td>
<td>1.00 ac</td>
<td>0</td>
<td></td>
<td>4/27/2000 DEED</td>
<td>$22,000</td>
<td></td>
</tr>
</tbody>
</table>

This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
<table>
<thead>
<tr>
<th>SRC/</th>
<th>COST</th>
<th>PROJECT</th>
<th>PH ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION (WANG INPUT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYR APPD</td>
<td>OBJ CTR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>05</td>
<td>326</td>
<td>C</td>
<td>1026</td>
<td>0752</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REMARKS: LINE (1) Opihale-Rullo Well, tmk: 8-7-13:6/89
LINE (2) Kilohana Waena Subdivision, tmk: 3-8-004:015
LINE (3) Keauhou-Robertson, tmk: 7-7-028:014
LINE (4) Hendershot, tmk: 1-016:063
LINE (5) GAPP, tmk: 1-5-060:76
LINE (6) Duley Well, tmk: 1-5-53:11
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

WELL CONSTRUCTION and/or D 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 821, Honolulu, Hawaii 96808. Application must be accompanied by 5 copies and a non-refundable filing fee of $20.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-653-2333. For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cww.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check mark to the primary contact)
1. (a) WELL OWNER: Contact Person: Phone:
   Mailing Address: __________ E-mail: __________________________
   Fax: __________________________

(b) LAND OWNER: Contact Person: Phone:
   Mailing Address: __________ E-mail: __________________________
   Fax: __________________________

(c) CONTRACTOR: Contact Person: Phone:
   Mailing Address: __________ E-mail: __________________________
   Fax: __________________________

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)
2. WELL NAME: __________ Island: __________
   Address: __________ Tax Map Key: __________
   Zone: __________ Sec: __________ Pali: __________ Pencil: __________
   Attach: (a) portion of a 7.5-minute Series U.S.G.S. topographic map (scale 1:24,000) with well location labeled and include the name of the quadrangle map (b) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK: (check all that apply)
   □ Construct New Well
   □ Modify Existing Well
   □ Install New Pump
   □ Modify Pump
   □ Abandon/Seal
   □ State Well No.: __________
   □ [If unknown, please call Committee to Rod Diamond at Her Box 140973 Kauai HI 96749]

4. CONSTRUCTION: □ Drilled □ Dug □ Shaft □ Tunnel
   □ Is this well part of a battery of wells? Yes □ No (Please describe)
   □ Gallons per minute: __________

5. PROPOSED PUMPING RATE: __________

6. PROPOSED USE: (check all that apply)
   □ Municipal (Including hotels, stores, etc.) □ Industrial
   □ Domestic (Individual, noncommercial water system)
   □ Irrigation (crop) □ Other (explain): __________
   □ No. of Acres: __________
   □ Military

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: __________
   (b) METHOD OF FLOW MEASUREMENT:
   □ Flowmeter □ Open pipe □ Weir □ Orifice □ Other (explain):

OTHER IMPORTANT INFORMATION:
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 808-651-4141
   Environmental Impact Statement (EIS) or Environmental Assessment (EA): To determine if an EIS or EA is necessary, call OEQC at 808-488-4188
   Not Required: if required, date approved __________
   Special Management Area Permit (SMAP): To determine if an SMAP is necessary: on Oahu, call 527-5374; on Hawaii, call 961-8288; for Maui, call 270-7235; on Kauai, call 241-6877.
   Not Required: if required, date approved __________

9. ARCHEOLOGICAL REQUIREMENTS:
   To find out if an archeological work is required: on Oahu, call Elaine Jourdane at 692-8027; on Hawaii, call Mary Anne McAdams at 327-3690, for Maui county, call Cathy Deigher at 692-8023, on Kauai, call Nancy McMahon at 742-7033.
   Not Required: if required, please attach letter from DLNR Historic Preservation

10. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates the signatures understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatures understand that approval of this application attests 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 90 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permit/pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought to compliance, and any work done will form a permit in suspension may result in fees of up to $3000/day.

Well Owner (print legibly) __________________________
Landowner (print legibly) __________________________
Signature __________________________
Date __________________________

For official use only
Latitude __________________________
Longitude __________________________
Aquifer System No. __________________________
State Well No. __________________________

For Official Use Only:

RTD_19
04 NOV 8 10:29:39

GDPFA Form 7/17/03
10. PROPOSED WELL SECTION

(please attach schematic if different from diagram provided below)

For non-salt water Basal Wells - bottom elevation of well shall not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - Water Level Distance)

Example: Estimated Water Level Elev. - Bottom Elevation of Well Limit = (2 - 1.125) = 0.875 ft.

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ 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 wells) □ ASTM A312 (monitor walls)

**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 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 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: compliant with (check one or more): □ 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 wells) □ ASTM A312 (monitor walls)

**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 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 Resin Pressure Pipe conforming to AWWA C950
- 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 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.

For non-salt water Basal Wells - bottom elevation of well shall not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - Water Level Distance)

Example: Estimated Water Level Elev. - Bottom Elevation of Well Limit = (2 - 1.125) = 0.875 ft.

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ 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 wells) □ ASTM A312 (monitor walls)

**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 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 Resin Pressure Pipe conforming to AWWA C950
- 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 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.

For non-salt water Basal Wells - bottom elevation of well shall not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - Water Level Distance)

Example: Estimated Water Level Elev. - Bottom Elevation of Well Limit = (2 - 1.125) = 0.875 ft.