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March 1, 2010

Ref: 3687-75.wcp

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR#3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction Permit
Chanel 3 Well (Well No. 3687-75)

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 a permanent pump. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 17:

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. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

Please refer to the Permit Processes Worksheet (transmitted with your acknowledgement letter) for further information regarding the process of drilling a well and installing a pump.

No withdrawal of water shall be made other than for testing purposes until a certificate of pump installation completion has been issued by the Commission.

Please sign both permit originals and return one copy to the Commission office 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.

Finally, we accept your application as complete as of January 26, 2010.

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,

Laura H. Thielen
Chairperson

Enclosures

c: Lausanne Properties Corp. (with applicable comments – DOH SDWB, WWB)
   USGS
   Hawaii DWS
WELL CONSTRUCTION PERMIT
Chanel 3 Well, Well No. 3687-75

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 Chanel 3 Well (Well No. 3687-75) at TMK 1-5-054:034, 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 (HAR).

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/cwrm/resources_permits.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. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

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 historically significant 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’ State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

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/cwrm/resources_permits.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, if relevant, any related staff submittal approved by the Commission are incorporated herein by reference.

11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

13. 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.

14. 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), HAR, prior to any well sealing or plugging work.

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

16. 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 §13-168-12(f), HAR.

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

Date of Approval: January 26, 2010
Expiration Date: January 26, 2012

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: ____________________________ C-57 License #: BC-23379 Date: ____________________

Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

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

Attachment
March 1, 2010

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR#3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Pump Installation Permit
Chanel 3 Well (Well No. 3687-75)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14:

**Special Conditions**

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

2. 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. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. 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.

Please sign both permit originals and return one copy to the Commission office for our files.

**IMPORTANT** - Pump installation shall not commence until a fully signed permit is returned to the Commission.

Finally, we accept your application as complete as of January 26, 2010.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), extension 70255.

Sincerely,

LAURA H. THIELEN
Chairperson

Enclosure

c: Lausanne Properties Corp. (with applicable comments – DOH SDWB, WWB)

USGS
Hawaii DWS
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 pump installation for Chanel 3 Well (Well No. 3687-75) at TMK 1-5-054:034, 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 to 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 covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

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

4. The pump installation permit shall be for installation of a 16 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

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

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

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation 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.

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

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

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 pump installer 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.

Installer’s Signature: __________________________ C-57, C-57a, or A License #: BC-23379 Date: ______________

Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

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

Attachments
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

HONOLULU, HAWAII 96820

November 23, 2009

TO: Honorable Chiyoume L. Fukino, M.D., Director
Department of Health
Attention: Tomas See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Channel 3 Well (Well No. 3667-75) 1/24/39

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 December 23, 2009. 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 587-0253.

Rkss
Attachment(s)

RESPONSE: UIC: #10410682-6

[ ] This well qualifies as a source which will serve as a source of public water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more underground 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 underground 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 on a single system, the user shall eliminate cross-connections and backflow prevention by physically separating potable and non-potable systems by an air gap or as approved backflow prevention, and by clearly labeling all non-potable systems 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).

[ ] An NPDES permit is required.

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

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

[ ] No comments/objections

Signed: ____________________________ Phone: 587-4258

Date: 12/4/09

Contact Person: ____________________________
CWRM Application Source: Chanel 3 Well
(State Well No. 3687-75)

Safe Drinking Water Branch Engineering Section

See attached private water wells information sheet.

Underground Injection Control (UIC)

In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well’s groundwater quality include wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.

Well water quality should be initially and periodically tested for its acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well’s recharge area may, over time, have an unacceptable effect on the well’s water quality. Well construction materials and related equipment could also affect water quality.
WARNING! As the owner of a privately-owned well, you should NOT assume that water from your well is safe for consumption. It is your responsibility to make sure that your well water is safe to drink. The only way to do this is to have your well regularly tested for bacteriological and chemical contaminants.

There are no regulations controlling water quality in private wells serving individual residences as there are for public water systems (public or privately owned utilities supplying water to 25 or more people or 15 service connections). In other words, there are no enforceable limits for contaminants and no requirements for regular testing. Private wells are often found in rural areas, where many activities such as onsite wastewater disposal can contaminate the ground water.

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) RECOMMENDATIONS

The EPA recommends that private well owners test their well water each year for such contaminants as Total Coliform Bacteria, Nitrates, as well as any other contaminants that may be of concern in your area. More frequent testing may be appropriate if you suspect a problem. EPA also suggests that you consider testing for pesticides, organic chemicals, and heavy metals before using it for the first time. Please refer to the EPA website on Private Drinking Water Wells at http://www.epa.gov/safewater/privatewells/faq.html

OTHER CONTAMINANTS

Water testing can be very expensive. It is important that you spend time to identify what other potential contaminants may be of concern. Please refer to the EPA website on Private Drinking Water Wells at http://www.epa.gov/safewater/privatewells/whatyoucando.html for more helpful information. Be aware of what and how you use, and dispose of household and garden chemicals. Also determine the location of nearby septic tanks or cesspools, and agricultural or industrial activities in the area. General information on known chemical contamination of ground water in Hawaii can also be found at the DOH website www.hawaii.gov/health/environmental/water/sdwb/conmaps/pdf/conmaps05.pdf

LABORATORIES

Local commercial laboratories can be found in the yellow pages of the telephone book under “Laboratories, Analytical.” Whenever possible, utilize a laboratory that is certified or approved for the specific drinking water tests and carefully follow their instructions for collecting, storing, and transporting the samples. Just be sure to ask the lab, to use EPA approved methods for drinking water analysis. A list of labs certified or approved by the Department of Health can be found at www.hawaii.gov/health/environmental/water/sdwb/sdwb/nid/Testing%20Labs.pdf. As lab certification status changes constantly, confirm their status when you contact the lab. Please note that the list is limited to currently regulated contaminants in public water systems.

RESULTS

Once the lab provides you with the test results, you will be in a better position to determine if your well water is safe to drink or what contaminant you need to treat for. Generally, you should compare the results with Federal (www.epa.gov/safewater/mcl.html) and State (www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdf/State%20MCL.pdf) drinking water standards. Where your test results are greater than the State or Federal maximum contaminant levels, your well water should be considered as unsafe for consumption.
### AVAILABLE SUPPLY

<table>
<thead>
<tr>
<th>DATE</th>
<th>WAILOA DITCH</th>
<th>WAHAKOI #1</th>
<th>WAHAKOI #2</th>
<th>KAHARAPAO</th>
<th>PIHOLO RESERVOIR</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MGD %</td>
<td>MGD %</td>
<td>MGD %</td>
<td>MGD %</td>
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### DEMAND

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<tr>
<td></td>
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<td></td>
<td>Kamole</td>
<td>Kapalua</td>
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<tr>
<td>12/7/2009</td>
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**Note:** Demand total includes facility production less Kamole to Pihoilo Reservoir pumping of 7:00 a.m. to 7:00 a.m. the following day.

**06/25/09 - Board declared Drought Watch for Upcountry Maui**

FAX TO: Mayor/Managing Director: 7670
Garret How: 671-8723
Neil Fugle: 851-0219
Randall Moore: 971-8723
Parks: 7934
Stuart Yee: 585-4351
Weather: 973-5273
Glenn James: 891-0525
Civil Defense: 7275
Kevin Kodama: 973-5271
Avery Chumbley: 242-7068

Fax: 06/25/09 - Board declared Drought Watch for Upcountry Maui.
November 23, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Tomas See, Chief, Wastewater Branch
   Stuart Yamada, Chief, Safe Drinking Water Branch
   Alec Wong, Chief, Clean Water Branch
   Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Chanel 3 Well (Well No. 3687-75)

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 December 23, 2009. 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 Inuma of the Commission staff at 587-0255.

RUS
Attachment(s)

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water in a public water system (defined as serving 25 or more people at least 60 days per year or that 15 or more service connections) and apportion Director of Health approval to use it in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[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 allowing such use and routinely monitor the water quality thereafter. However, if future plans include this source because 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 properties in a single system, the user shall eliminate cross-connections and backflow connections by physically removing parallel and non-parallel systems by an air gap or an approved backflow prevention, and by clearly labeling all non-potable systems with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[4] The user is not required to conduct this well for desalination purposes and is not subject to Safe Drinking Water Regulations.

[5] For the applicant's information, a source of possible wastewater contamination [i.e., other water source] is located near the proposed well site (information attached).


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

[8] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.


Contact Person: Richard Palmer

Phone: 586-0757

Signed: Richard Palmer

Date: 12/01/09
TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Thomas See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

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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 Ryan Imata of the Commission staff at 587-0255.
TMK (3) 1-5-054: 034  Nonui Road, HPP  Septic Tank - Permit # 11814 / File # 6071

Application Information

- Permit ID: 11814  IWS Type: Septic Tank
- Legacy File#: 6071  Island: Hawaii
- Hawaii ID: N/A  Status: Use Approved
- Assigned To: Nunogawa, Jerry  Source: WWB

Project Information

- Engineer: Ronald D Nickel
- TMK: 015054034
- IWS may be within 1,000 ft. of a potable well
- Street Address: Nonui Road
- Street Address 2:
- Suite/Apt: 
- City: HHI
- Zip Code: 

Review Information

- Submit Date: 8/3/2005
- Reviewed: 6/21/2005
- Plan Approved: 6/21/2005
- No Final Approval Yet: 
- Inspection Date: 5/15/2007
- Termination Date: 

Payment Information

- Payment Type: Check
- Check Numbers: 1339
- Amounts: 100.00
- Check Date: 6/3/2005
- Payor: NICKEL

SITE PLAN FOR SEPTIC SYSTEM

Septic system must be installed by either of the following licensed contractors: C-9 cesspool; C-37 plumbing; the "A" general engineering; C-37a sewer and drainage; and C-43 sewer, septic disposal, drain and pipe laying.

Construction of the system shall start only after the County Building Permit is reviewed and approved by the Department of Health.

OWNER: JOHN ARMSTRONG
LOCATION: MONI (J) ST.
TMK(3)-1-5-054:034/
LOT SIZE: 1.0 Ac.
NUM. OF BEDROOMS: THREE

NOTE: MINIMUM SEPARATION DISTANCES FOR

SEPTIC TANK
PROPERTY LINE - 20
BUILDING LINE - 20
STREAM OR POND - 20
LARGE THRESH - 20
WELL/SEWER LINE - 20

NOTE: MINIMUM SEPARATION DISTANCES FOR

SOIL ABSORPTION SYSTEM
PROPERTY LINE - 7
BUILDING LINE - 7
STREAM OR POND - 407
LARGE THRESH - 7
WELL/SEWER LINE - 7

Ronald Nickell P.E. 8846-C
12-7169 KALALOA ST., HANOA, HI. 96778
PH 965-9811

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Ronald Nickell 5-28-03
Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

<table>
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<th>Data Input</th>
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<td>Well Number</td>
<td>3687-75</td>
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<tr>
<td>Well Name</td>
<td>Channel 3</td>
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<tr>
<td>Ground Elevation</td>
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<td>Cement Grout</td>
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<td>Grouting Method</td>
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<td>Theoretical Thickness of Aquifer</td>
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<td>Well Casing</td>
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<tr>
<td>Minimum Wall Thickness</td>
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<tr>
<td>Material</td>
<td>pvc plastic</td>
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<tr>
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<td>Minimum Length of Solid Casing</td>
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<td>90% of ground to top of aquifer</td>
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<td>Casing Material</td>
<td>Schedule 40</td>
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<td>(for pvc only - check for 200’ limit)</td>
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<td>Annular Space</td>
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<td>Thickness of Annular Space</td>
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MISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN
DATE: 9-Nov-09
SUSPENSE DATE: 16-Nov-09

TO: CHING, F.
INIT: __________
TO: KUNIMURA, I.
INIT: __________

TO: FUJII, N.
INIT: __________
TO: NAKAMA, L.
INIT: __________

TO: GOODING, K.
INIT: __________
TO: OHYE, M.
INIT: __________

TO: HARDY, R.
INIT: __________
TO: SAKODA, E.
INIT: __________

TO: HIGA, D.
INIT: __________
TO: SWANSON, S.
INIT: __________

TO: HOAGBIN, S.
INIT: __________
TO: UYENO, D.
INIT: __________

TO: ICE, C.
INIT: __________
TO: YODA, K.
INIT: __________

TO: INATA, R.
INIT: __________
TO: YOSHINAGA, M.
INIT: __________

PLEASE:
1 Approval See Me
2 Review & Comment
3 Signature Take Action
4 Information

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

WELL NUMBER 3687- 75
WELL NAME Chanel 3
WUP Number na

☐ WELL CONSTRUCTION
☐ PUMP INSTALLATION
☐ WUPA

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1 MLS PRINTOUT
2 COUNCIL LICENSE SCREEN PRINTOUT
3 SMA PRINTOUT
4 NOT IN OR SMA

FOLDER:
☐ MADE NEW FILE FOLDER, ATTACHED
☐ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION

"Does loose ends?"

☐ OR

H-71

H-2
November 23, 2009

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR #3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 3687-75

We have received your Well Construction/Pump Installation permit application and filing fee for the Chanel 3 Well (Well No. 3687-75). However, we will not be able to accept your application as complete until the Special Management Area (SMA) issues are resolved with respect to your other unresolved completion reports.

Upon resolution of the SMA issues, we will accept your application as complete and you can then expect your application to be processed within ninety (90) days. However, this review will significantly cut down on that time.

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), extension 70255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

c: Lausanne Properties Corp.
TO:    Honorable Chiyome L. Fukino, M.D., Director  
       Department of Health  
       Attention: Tomas See, Chief, Wastewater Branch  
       Stuart Yamada, Chief, Safe Drinking Water Branch  
       Alec Wong, Chief, Clean Water Branch  
       Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response
FROM: Laura H. Thielen, Chairperson  
       Commission on Water Resource Management
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RESPONSE:

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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.

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No comments/objections.

Contact Person: ___________________________________________________________________ Phone: ____________________________

Signed: ________________________________ Date: ________________________________
TO: Morris Atta, Administrator
   Land Division
FROM: Ken C. Kawahara, P.E., Deputy Director
       Commission on Water Resource Management
SUBJECT: Well Construction/Pump Installation Permit Application
          Chanel 3 Well (Well No. 3687-75) TMK 1-5-054034

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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. ________________________.

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: ________________

Signed: ___________________________ Date: ________________
November 23, 2009

TO: Dr. Puaalaokalani Aiu, Administrator  
Historic Preservation

Morgan Davis  
Historic Preservation

FROM: Ken C. Kawahara, P.E., Deputy Director  
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application  
Chanel 3 Well (Well No. 3687-75) TMK: 1-5-034-034

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 December 23, 2009. 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 or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255. If you require additional information regarding specific information that can be provided by the applicant, please contact the applicant directly at the contact information provided on the application form.

RESPONSE:

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] will [ ] may disturb historic sites.

[ ] We concur that the work described under this permit will not disturb historic sites.

[ ] We do not concur that the work described under this permit will not disturb historic sites. We require the following for our concurrence:

Contact Person: ____________________________ Phone: ____________

Signed: ____________________________ Date: ____________
Assessed values and Building Details reflect tax year 2009 for all islands. Taxes reflect tax year 2009.

Search criteria: TMK Taxkey 3-1-5-54-34

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**TOTAL** $100.00

**REMARKS:**

LINE 1: Chanel #1 Well
LINE 2: Chanel #2 Well
LINE 3: Chanel #3 Well
LINE 4: Ohana First Well
LINE 5
LINE 6
LINE 7
LINE 8
LINE 9
LINE 10
WELL LOCATION INFORMATION

1. STATE well No. (if already approved): 
2. WELL NAME Channel #3
3. ISLAND Hawaii
4. Date 1 054 034
5. 14. Proposed Surveyor name and license number (a surveyor is required for all wells construction Permits and may be required for some pump installation permits). Deferred

PROPOSED WELL CONSTRUCTION

7. Method of Flow
X Flowmeter

14. Proposed Amount of Withdrawal, gpd (gallons per day) 1

20. Other (describe)

15. Municipal (water systems serving greater than 25 individuals or 15 service connections)

10. Proposed Work

11. Proposed Pumping Rate, gpm (gallons per minute) 16

12. Proposed Amount of Withdrawal, gpd (gallons per day) 250

X 16. Domestic Number of units to be served: 1

X 17. Industrial (describe)

X 18. Irrigation (describe crop and no. of acres)

X 19. Military (describe)

PROPOSED PUMP INSTALLATION

15. Method of Flow measurement
X Flow meter

X 20. Other (describe)

21. Conservation District Use Permit (CDUP)

16. Method of Flow measurement
X Flow meter

X Required, CDUP #: date approved

12. Proposed Method of Flow measurement
X Flow meter

Not Required (attach documentation from OCCL)

13. Method of Flow measurement
X Flow meter

12. Proposed Amount of Withdrawal, gpd (gallons per day) 250

Not Required (attach documentation from applicable County agency)

X 14. Proposed Amount of Withdrawal, gpd (gallons per day) 1

I have not checked with the HUD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HUD.

22. Special Management Area Permit (SMAP)

X 21. Conservation District Use Permit (CDUP)

X Required, SMA #: date approved

I have consulted with the HPD regarding potential impacts of well construction activities on historic sites. I understand that checking with the HPD prior to making the application will expedite my review. I further understand that issues raised by the agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

I understand that checking with the HPD prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 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 report within 60 days after the completion date of the permitted work, 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.

23. Habitat Preservation District (HPD) of the U.S.

I have consulted with the HPD regarding potential impacts of well construction activities on historic sites. I understand that checking with the HPD prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued. Additionally, the history of past land use is attached.

24. WELL DRILLER (Must be filed out if application is for Well Construction)

Rodney K Diamond BC23279
HCR #3 Box 14073 Keaua HI 96749
987-8100 966-4129

25. PUMP INSTALLER (Must be filed out if application is for Pump Installation)

Rodney K Diamond BC23279
HCR #3 Box 14073 Keaua HI 96749
987-8100 966-4129
**PROPOSED WELL SECTION** (Please attach schematic if different from diagram provided below)

Hole Diameter: 8.5 inches

Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Ground Elevation: 38 ft, msl*

Cement Grout: 32 ft. (min. 70% of distance from ground elevation to top of water surface or 500 ft. whichever is less.)

Annular space between hole and casing (1.5") for positive displacement, 3" for other methods:

2 in.

Total Depth: 45 ft.

Rock or Gravel Packing:

x Crushed Basalt

x Rounded Gravel

Estimated Water Level Elevation:

2 ft, msl*

Grouting method:

- Positive Displacement

- X Other

Solid Casing: (= 90% x (Ground Elev. - Water Level Elev.))

Total Length: 38 ft

Nominal Diameter: 4.5 in.

Wall Thickness: 5/4 in.

Bottom Elevation: 0 ft, msl*

Open Casing: [ □ Perforated □ Screen ]

Total Length: 7 ft

Nominal Diameter: 4.5 in.

Wall Thickness: 5/4 in.

Bottom Elevation: 0 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 - )


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 (or A506)
  - Type E
  - Type S
  - Grade B
  - Other
  - 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
  - Thermoset Plastic: (check one):
    - Filament Wound Resin Pipe conforming to ASTM D9297
    - Centrifugally Cast Resin Pipe conforming to ASTM D9297
    - 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 (or A506)
    - Type E
    - Type S
    - Grade B
    - Other
  - Stainless Steel: (check one):
    - ASTM A409 (production wells)
    - ASTM A312 (monitor wells)
    - 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
  - Thermoset Plastic: (check one):
    - Filament Wound Resin Pipe conforming to ASTM D9297
    - Centrifugally Cast Resin Pipe conforming to ASTM D9297
    - 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 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.