**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR PERMIT ISSUANCE 2/9/05**

<table>
<thead>
<tr>
<th>FROM:</th>
<th>INIT.</th>
<th>TO:</th>
<th>INIT.</th>
<th>FOR:</th>
<th>PLEASE:</th>
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<tr>
<td>ANAKALEA, P.</td>
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<td>NAKAMA, L.</td>
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<td>CHING, F.</td>
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<td>NAOKANO, D.</td>
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<td>OHYE, M.</td>
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<td>FUJII, N.</td>
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<td>KUNIMURA, I.</td>
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**WELL NUMBER** 3687.32  **WELL NAME** Terry D.

**ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:**
1. COVER LETTER
2. PERMIT (2x)
   COMMENTS:
3. SDWB
4. WWB
5. CWB
6. HEER
7. LD
8. HP
9. OCCL
10. SMA
11. WELL CHECK PRINTOUT

**TO BE SENT TO APPLICANT**

**FOR OFFICE USE ONLY**

**ATTACHMENTS FOR PUMP INSTALLATION PERMIT:**
1. COVER LETTER
2. PERMIT (2x)
   COMMENTS:
3. SDWB
4. WWB
5. CWB
6. HEER
7. LD
8. HP
9. OCCL
10. SMA
11. SHELL'S WORKSHEET

**TO BE SENT TO APPLICANT**

**FOR OFFICE USE ONLY**

- **SUSPENSE DATE:** 9/13
- **FILE:**
- **Xerox copies:**
- **Review & Comment**
- **Take Action**
- **Type Draft**
- **Type Final**
- **File**
- **Xerox copies**

**Comments:**

- Pass
- Alan Jasper
- 15.55 - 101
- 159 pm
Dear Mr. Page:

Well Construction Permit
Terry D Well (Well No. 3687-32)

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 13:

Special Conditions

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

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

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

If you have any questions, please call 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,

Peter T. Young
Chairperson

Enclosures

c: Alan Haspe (with applicable comments – DOH SDWB, WWB, CWB)
USGS
Hawaii DWS
WELL CONSTRUCTION PERMIT
Terry D Well, Well No. 3687-32

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 Terry D Well (Well No. 3687-32) at TMK 1-5-053:101, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.
2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.
3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS [the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlinr/cwrm/forms.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 shall be reduced in the event that the pump test does not support the capacity.
4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.
5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.
6. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' Division of Historic Preservation.
7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.
8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlinr/cwrm/forms.htm for current form).
9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.
10. The well construction permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the HWCPIS. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.
11. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.
12. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.
13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.
14. 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 permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.
15. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 13, 2006
Expiration Date: April 13, 2008

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

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

Driller's Signature: Fred Page
C-57 License #: C-16653
Date: __________

Printed Name: Fred Page
Firm or Title: Fred Page Drilling International

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

Attachment
April 18, 2006

Mr. Fred Page  
Fred Page Drilling International  
P.O. Box 1434  
Pahoa, HI 96778

Dear Mr. Page:

Pump installation Permit  
Terry D Well (Well No. 3687-32)

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 11:

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.

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 for our files.

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

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. Ray Higashi

Peter T. Young
Chairperson

Enclosure

c: Alan Haspe (with applicable comments – DOH SDWB, WWB, CWB)  
USGS  
Hawaii DWS
PUMP INSTALLATION PERMIT
Terry D Well, Well No. 3687-32

Note: This permit shall be prominently displayed at the 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 pump installation for Terry D Well (Well No. 3687-32) at TMK 1-5-053:101, 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.

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. The pump installation 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 15 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 60 days after completion of work. This form can be obtained by contacting staff or online at www.hawaii.gov/dlnr/cwrm.

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

10. 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.

11. 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.

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

Date of Approval: April 13, 2006
Expiration Date: April 13, 2008

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 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: [Signature]
C-57, C-57a, or A License #: C-16653 Date:

Printed Name: Fred Page
Firm or Title: Fred Page Drilling International

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

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

## Data Input

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<tr>
<th>Data Input</th>
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<td>Well Number</td>
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<tr>
<td>Well Name</td>
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## Results

### Well Depth
- Theoretical Thickness of Aquifer: 123 ft
- 1/4 Aquifer Thickness: 30.75 ft

### Depth of Well below Sea Level: 9 ft, okay, Section 2.2

### Well Casing
- Minimum Wall Thickness Material: steel
- Minimum Thickness per standards: N/A
- Wall Thickness Required: 0.25
- Length of solid casing provided: 76 ft, okay, Section 2.4(c)
- Casing Material: ASTM A53, In compliance, Section 2.4(d)
- (for pvc only - check for 200' limit) okay, Section 2.4(d)

### Annular Space
- Depth of Grouting: 57.4 ft
- Depth of Grouting provided: 60 ft, okay, Section 2.6(c)
- Minimum Annular Space required: 1.5 ft
- Thickness of Annular Space: 2 ft, okay, Section 2.6(d)
TO: Honorable Chi interal L. Fukino, M.D., Director  
Department of Health  
Attention: Director's Office  
Harold Ye, Wastewater Branch  
William Wong, Safe Drinking Water Branch  
Alec Wong, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application  
Terry D. Well (Well No. 3687-32)

March 13, 2006

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 April 13, 2006. 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 Inata of the Commission staff at 587-0255.

Russ
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 of the year) or has more than 15 new service connections in a single year. The Department of Health has reviewed the application and attached documents.

If the well is used to supply voluntary and non-potable purposes in a single system, the user shall implement cross-contamination and backflow prevention devices by, or at a point not less than 60 days of the installation of the well water system definition. Cross-contamination is defined as the introduction of non-potable water into the potable water system. Cross-contamination is not a requirement if the well is used to supply water for human consumption or if the well is used to supply water for human consumption at least once per year.

For the applicant's information, a source of possible water contamination may be used near the proposed well site. Information attached.

An NDDES permit is required.

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

It is assumed that the location of the well changes but is still within the parcel described on this application, our division considers this comment as well received, and we will not need to review the new location.

Russ Acknowledged

Contact Person: Stuart Yamada  
Phone: 586-4258

Signed:  
Date: 4/07/06
The Department of Health, Safe Drinking Water Branch has the following additional comments for the Well Construction / Pump Installation Permit Application for the Terry D. Well (Well No. 8-3687-32 Hawaii):

Underground Injection Control (UIC) Comments

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.
March 13, 2006

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Director's Office
   Harold Yee, Wastewater Branch
   William Wong, Safe Drinking Water Branch
   Alec Wong, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
   Terry D. Well (Well No. 3687-32)

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 April 13, 2006. 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:

[ ] 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 II, 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 preventers by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

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

[ ] An NPDES permit is required.

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

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.

Contact Person: Lon Montanari
Phone: 586-4294

Signed: Lon Montanari
Date: 03-17-06
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.

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<td>Septic Tank File #</td>
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<tr>
<td>Applicant Name</td>
<td>Alan Haspel</td>
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<td>Submit Plan Date</td>
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<td>Plan Approval Date</td>
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<td>Inspection Date</td>
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<td>System Approved for Use Date</td>
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<td>Septic Tank Bed</td>
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<td>Use For</td>
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<td>Designed By</td>
<td>Nickle</td>
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<td>Percolation Rate / Capacity</td>
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For further information, you may call the Wastewater Branch engineer as listed:

[ ] For Oahu & Kauai: contact Johnny Ong at the Wastewater Branch office on Oahu at (808) 586-4294

[ ] For Kona: Dane Hiromasa at the Kealakekua Health Center at (808) 322-1507

[ ] For Hilo: Jerry Nunogawa at the Hawaii District Health Office at (808) 933-0401

[ ] For Maui: Roland Tejano at the Maui District Health Office at (808) 984-8232

cesspool taxes.wpd eam revised January 10, 2006
March 13, 2006

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director's Office
Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Alex Wong, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
Terry D. Well (Well No. 3687-32)

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 April 13, 2006. 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 Limas of the Commission staff at 587-0255.

RI: ss
Attachment(s)

RESPONSE:

1. This well qualifies as a source which will serve as a source of possible water to a public water system (defined as serving 25 or more people at least 30 days per year or 13 or more service connections) and must receive Director of Health approval prior to use to comply with Hawaii Administrative Rules (HAR), Title 1, Chapter 20, Rules Relating to Portable Water Systems, §§4-20-03.

2. This well does not qualify as a source serving a public water system (serve less than 25 people or more people at least 90 days per year or 13 service connections) and if the well water is used for drinking, the private owner should test for microbiological and chemical presence before using such water and routinely monitor the water quality thereafter. However, if future plans are made to use this source service to meet the public water system definition then Director of Health approval is required prior to implementation.

3. If the well is to supply both potable and non-potable purposes in a single system, the water shall remain cross-connected and backflow prevention measures are physically separating potable and non-potable systems by an air gap or an approved backflow prevention device. This is necessary to prevent non-potable sources with varying water flow from negatively impacting 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 applicant's information, a source of possible wastewater contamination is located near the proposed well site (information attached).

6. An NPDES permit is required

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 in this application, our division considers the well to still be applicable, and we do not need to review the new location.

9. No community/adjacency

Contact Person: Alex Wong
Phone: 587-0309
Date: 3/16/06

Signed: Alex Wong
The Department of Health, Clean Water Branch has the following comments:

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.

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.
March 13, 2006

TO: Russell Tsuji, Administrator
    Land Division

FROM: Dean Nakano, Acting Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Terry D. Well (Well No. 3687-32)

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 April 13, 2006. 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. _____________________.

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

[ ] No objections

[ ] Other comments: Original source of private title was issued prior to statehood.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: MAR 31 2006

DATE: 10-Nov-05 SUSPENSE DATE: 17-Nov-05

TO: INIT. TO: INIT. FOR: PLEASE:
Bauer, G. NAKAMA, L. 1 Approval See Me
Ching, F. NAKANO, D. 1 Signature 1 Review & Comment
Fujii, N. OHYE, M. 1 Information Take Action
Gooding, K. SAKODA, E. Type Draft acknow letter
Hardy, R. SUBIA, S. 3 Information Take Action
Higa, D. SWANSON, S. Type Final w/elec.signat., label file folder
Ice, C. UYENO, D. 4 File
Imata, R. YODA, K. Xerox copies
Kunimura, I. YOSHINAGA, M. 

WELL NUMBER 268732 WELL NAME Terry D.

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 DH/PC/DUP/SMAP pre-screen

MLS PRINTOUT
DCCA LICENSE SCREEN PRINTOUT

(SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm, or INGRID’S SMA/CD MAP)
(LUC map printout http://luc.state.hi.us/luc_maps.htm, or INGRID’S SMA/CD MAP)

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

INCOMPLETE ACTION DATES:

DATE ACTION

1 unit. Application has driller as well owner - is this correct?

Address before accepting
March 13, 2006

Mr. Fred Page  
Fred Page Drilling International  
P.O. Box 1434  
Pahoa, HI 96778  

Dear Mr. Page:

Well Construction/Pump Installation Permit Application for Well No. 3687-32

We acknowledge receipt, on March 9, 2006, of your completed Well Construction/Pump Installation permit application and filing fee for the Terry D. Well (Well No. 3687-32). You can expect your application to be processed within ninety (90) days from this date.

For your information, the attached table describes the process, responsible parties, and deadline requirements for drilling or modifying a well and installing, modifying, or replacing a pump.

By this acceptance letter, we are also notifying the well operator/landowner that water may not be pumped for purposes other than testing until the certificate of well construction/pump installation completion letter is issued to the well operator and landowner. Additionally, 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. No certificate of pump installation will be issued until the Commission has determined that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. In other words, you may need to remove the pump and install a smaller pump at the Commission's discretion before you can withdraw water for purposes other than testing.

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,

DEAN A. NAKANO  
Acting Deputy Director

RI:ss  
Attachment  
c: Elisabeth Haspe
March 13, 2006

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Director’s Office
   Harold Yee, Wastewater Branch
   William Wong, Safe Drinking Water Branch
   Alec Wong, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
   Terry D. Well (Well No. 3687-32)

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 April 13, 2006. 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.

RI: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 not located near the proposed well site (information attached).

An NPDES permit is required.

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

If the location of the well changes but is still within the parcel described on this application, our division will not need to review the new location.

No comments/objections

Contact Person: John Imata
Phone: 587-0255

Signed: __________________ Date: -------------------
March 13, 2006

TO: Russell Tsuji, Administrator
   Land Division

FROM: Dean Nakano, Acting Deputy Director
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Terry D. Well (Well No. 3687-32)

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 April 13, 2006. 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 Iimata 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. _____________________________.

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

[ ] No objections

[ ] Other comments:

Contact Person: ____________________________  Phone: ______________

Signed: ____________________________  Date: ______________
March 13, 2006

TO: Melanie Chinen, Administrator
    Historic Preservation

FROM: Dean Nakano, Acting Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
        Terry D. Well (Well No. 3687-32)

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 April 13, 2006.** 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.

RI:ss
Attachment(s)

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: ________________
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<th>Subdiv/Condo</th>
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<th>Owner/Lessee</th>
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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
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REMARKS:
LINE (1) Ainalea Well # and 3
LINE (2) Terry D. Well
LINE (3)
LINE (4)
LINE (5)
LINE (6)
LINE (7)
LINE (8)
LINE (9)
LINE (10)
WELL LOCATION INFORMATION

1. STATE WELL NO. 158
2. WELL NAME X.
3. ISLAND X.
4. TMI

The following must be attached before this application is accepted as complete:
+ Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
+ Property tax map, showing well location referenced to established property boundaries
+ Photograph of the proposed well site
+ A schematic diagram showing the well site, access road and proposed well infrastructure

5. WELL OPERATOR NAME/MANUFACTURER X.
   Fred Page Drilling Int'l
   Fred Page
   Address: P.O. Box 1434
   Pahoa HI 96778

6. LANDOWNER'S NAME/MANUFACTURER X.
   Elizabeth Haase, Allen G. Haase
   Address: 89 Einkaste St.
   McEwan, NJ 07640

PROPOSED WELL CONSTRUCTION

7. Proposed Work
   ☑ Construct New Well
   ☑ Modify Existing Well
   ☑ Abandon/Seal Well

8. Construction Type
   ☑ Drilled
   ☑ Dug
   ☑ Shaft
   ☑ Tunnel

9. Is this well part of a battery of wells? ☐ Yes ☑ No

10. Proposed Work
    ☑ Install New Pump
    ☑ Replace Pump

11. Proposed Pumping Rate, gpm
    (gallons per minute)
    15

12. Proposed Amount of Withdrawal, gpd
    (gallons per day)
    500

13. Method of flow measurement
    ☑ Flowmeter
    ☑ Open Pipe
    ☑ Well
    ☑ Orifice
    ☑ Other (describe)

PROPOSED PUMP INSTALLATION

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump installation Permits)
    15. Municipal (water systems serving greater than 25 individuals or 15 service connections)
    ☑ Domestic
    ☑ Industrial (describe)
    ☑ Irrigation (describe crop and no. of acres)
    ☑ Military (describe)
    ☑ Other (describe)

OTHER LEGAL REQUIREMENTS

☐ Conservation District Use Permit (CDUP)
☐ Required, CDUP # date approved
☐ Not Required (attach documentation from OCCC)
☐ I have not checked with OCCC about whether or not a CDUP is required. I understand that checking with OCCC 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.

☐ Special Management Area Permit (SMAP)
☐ Required, SMA # date approved
☐ Not Required (attach documentation from applicable County agency)
☐ I have not checked with the County about whether or not a SMA Permit is required. I understand that checking with the County 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.

☐ Historic Preservation Division (HPD) of the Department of Land and Natural Resources
☐ I have consulted with the HPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.
☐ I have not 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.

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/abandonment report within 80 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 to compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.

24. WELL DRILLER (Must be fully out if application is for Well Construction)
   Fred Page Drilling International Inc
   Fred Page Name: Fred Page
   License No.: C-16653
   Address: P.O. Box 1434
   Pahoa HI 96778
   Date: 11/03/05

25. PUMP INSTALLER (Must be fully out if application is for Pump Installation)
   Fred Page Drilling Int'l
   Fred Page Name: Fred Page
   License No.: C-16653
   Address: P.O. Box 1434
   Pahoa HI 96778
   Date: 11/03/05
**PROPOSED WELL SECTION**

*Please attach schematic if different from diagram provided below*

**Hole Diameter:** 10 in.

- **Cement Grout:** 60 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 negative displacement, 3" for other methods)
- **Rock or Gravel Packing:** Crushed Basalt
- **Estimated Water Level Elevation:** 75 ft., msl*

- **Open Casing:**
  - **Total Length:** 76 ft.
  - **Nominal Diameter:** 6 in.
  - **Wall Thickness:** .250 in.
  - **Bottom Elevation:** 75 ft., msl*

- **Solid Casing:** (≤ 90% x (Ground Elev. - Water Level Elev))
  - **Total Length:** 10 ft.
  - **Nominal Diameter:** 6 in.
  - **Wall Thickness:** .250 in.
  - **Bottom Elevation:** 85 ft., msl*

- **Open Hole:**
  - **Length:** N/A ft.
  - **Diameter:** N/A in.
  - **Bottom Elevation:** N/A ft., msl*

---

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): ANSI/AWWA C200
- Stainless Steel: compliant with (check one or more): Stainless Steel Schedule 40

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more): ANSI/AWWA C200
- Stainless Steel: compliant with (check one or more): Stainless Steel Schedule 40

---

*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 should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - 0.25 x Aquifer Thickness) / 4

Example: Estimated +2 ft. Water Elev. - Bottom Elevation of Well Limit = (2 ft. - 0.25 x 15 ft.) / 4 = -1.5 ft.

---

**PUMP INSTALLATION STANDARDS**

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