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**WELL NUMBER:** 3587-14  
**WELL NAME:** Audrey

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<th>4 PIP COVER LETTER</th>
<th>5 PIP</th>
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<th>7 WWB</th>
<th>8 CWB</th>
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**NOTES:**

- **DRIER:** Fred Page
- **TMK:** 0
- **PUMP CAPACITY:** 10
- **WELL OWNER:** 0
- **LAND OWNER:** 0
- **COMMENT DEADLINE:** 8/10/07

*Where are his outstanding reports?*
Ref: 3587-14.wcp

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

October 25, 2007

Dear Mr. Page:

Well Construction Permit
Audrey Well (Well No. 3587-14)

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,

LAURA H. THIELEN
Chairperson

Enclosures

c: Kenneth Pantalion (with applicable comments – DOH SDWB, WWB, CWB)
USGS
Hawaii DWS
WELL CONSTRUCTION PERMIT

Audrey Well, Well No. 3587-14

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 Audrey Well (Well No. 3587-14) at TMK 1-5-049:066, 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 shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

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

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/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 may be reduced in the event that the pump test does not support the capacity.

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

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

6. In the event that 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/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 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 permit or property.

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

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

Date of Approval: August 10, 2007
Expiration Date: August 10, 2009

LAURA H. THIELEN, 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 Chairperson. 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 #: C-16653
Date: ___________________________

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

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

Attachment
Ref: 3587-14.pip

October 25, 2007

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

Dear Mr. Page:

Pump Installation Permit  
Audrey Well (Well No. 3587-14)

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.

Sincerely,

LAURA H. THIELEN  
Chairperson

Enclosure

c: Kenneth Pantalion (with applicable comments – DOH SDWB, WWB, CWB)  
USGS  
Hawaii DWS
PUMP INSTALLATION PERMIT
Audrey Well, Well No. 3587-14

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 Audrey Well (Well No. 3587-14) at TMK 1-5-049:066, 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. 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 10 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 on the internet 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.

LAURA H. THIELEN, 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: __________________________ 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.

Attachments
# Well Check Program

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

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July 9, 2007

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director’s Office

FROM: Allan A. Smith, Interim Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Audrey Well (Well No. 3587-14)

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 August 10, 2007. 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 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: Cesspool profile

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: Jerry Nunogawa in Hilo Phone: 933-0401

Signed: Dru Montanu on Oahu Date: 07-19-07
An individual wastewater system (IWS) 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 IWS such as a septic tank/aerobic unit was constructed and authorized to be used for wastewater disposal from a building/dwelling.

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<th>Inspection</th>
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### Site Information

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<td>Cesspool</td>
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Percolation __________ min/in

For further information, please feel free to call the Wastewater Branch engineer as listed:
Johnny Ong, Oahu, Wastewater Branch (808) 586-4294  Fax 586-4300
Roland Tejano, Maui, Maui District Health Office (808) 984-8232  Fax 984-8237
Dane Hiromasa, Kona, Kealakekua Health Center (808) 322-1963  Fax 322-1511
Jerry Nunogawa, Hilo, Hawaii District Health Office (808) 933-0401  Fax 933-0400
Lori Vetter, Kauai, Kauai District Health Office (808) 241-3323  Fax 241-3586
TO:     Honorable Chiomone L. Fukino, M.D., Director  
Department of Health  
Attention:     Director's Office  
Harold Yee, Wastewater Branch  
Stuart Yamada, Safe Drinking Water Branch  
Alec Wong, Clean Water Branch 

FROM: Allan A. Smith, Interim Chairperson  
Commission on Water Resource Management 

SUBJECT: Well Construction/Pump Installation Permit Application  
Audrey Well (Well No. 3587-14) 

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 August 10, 2007. 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 
Lima of the Commission staff at 587-0255. 

RESPONSE: 

Attachment(s): 

V1C # 2, 4 CH 7/01/07 

Reviewed for conformance with the State of Hawaii Administration Rules and the Health-related rules 
of Chapter 25, Hawaii Administrative Rules. 

This well is not qualified as a source serving a public water system (serves less than 50 people or more people at least 60 
days per year of 15 or more service connections) and would require the Director of Health to comply with 

This well does not qualify as a source of a public water system (serves less than 22 people or more people at least 60 days per year of 15 service 
connections), and if the well water is used for drinking, the private owner should test for bacteriological and chemical quality before initiating such use 
and then regularly monitor the water quality to ensure it is in compliance. However, if the water is purchased from this source, it should be 
subject to the same water quality requirements as public water systems. 

These well is used to supply both potable and non-potable purposes to a single system. The well shall eliminate cross connections and backflow 
connections by physically separating potable and non-potable systems by, but are not as approved backflow preventers, and is clearly labeled as non-
potable as possible with warning labels to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be 
properly installed and tested. 

This well is not used for water supply purposes and is not subject to Safe Drinking Water Regulations. 

For the applicant's information, a source of potential water contamination (V1C 11) is not located near the proposed well site (information attached). 

An NDEP permit is required. 

Other relevant OGC (Office of General Counsel) regulations, information, or recommendations are attached. 

In the event that the location of the well changes or is altered within the scope described on this application, our division considers the comments to still be 
applicable, and we will not need to review the new location. 

No comments/objections 

Contact Person:   Phone: 587-4258 

Signed:   Date: 7/17/07
CWRM Application Source: Audrey Well  
(Well No. 3587-14)

Safe Drinking Water Branch Engineering Section

No comments to this application.

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 it’s 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.

CWRM Well Application Standard Comments (SDWB)  
Vers. 6/1/07
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 501
HONOLULU, HAWAII 96806

July 9, 2007

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

FROM: Allan A. Smith, Interim Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Audrey Well (Well No. 3587-14)

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 August 10, 2007. 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 Iwata 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 possible 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) under the Director of Health’s approval. The Director of Health has issued a Permit Application to use this source to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 30, Rules Relating to Potable Water Systems, 11-1-20-29.

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) under the Director of Health’s approval. However, if future plans are made to use the source to serve a public water system, the Director of Health’s approval would be required.

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

If the well is 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 NDPS permit is required.

Other relevant DOH 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: Jananne L. Sano
Phone: 586-1300

Signed: Jananne A. Sano
Date: 7/10/07

Jul-10-2007 04:09PM FAX: 808-586-4352 ID: DLNR CURM PAGE: 004 R=97%
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN
DATE: 9-May-07
SUSPENSE DATE: 16-May-07

TO: CHING, F.
FUJII, N.
GOODING, K.
HARDY, R.
HIGA, D.
HOAGBIN, S.
ICE, C.
IMATA, R.
KUNIMURA, I.

FOR: NAKANO, D.
OHYE, M.
SAKODA, E.
SWANSON, S.
UYENO, D.
YODA, K.
YOSHINAGA, M.

PLEASE:
See Me
Review & Comment
Take Action
Type Draft acknow letter
Type Final, label file folder, update People db
File
Xerox copies

WELL NUMBER 3587-14 WELL NAME Audrey

☐ WELL CONSTRUCTION ☐ PUMP INSTALLATION ☑ BOTH

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/CDDUP/SMA pre-screen

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

INCOMPLETE ACTION DATES:

DATE ACTION

ADDRESS BEFORE ACCEPTING

Deposit check (Green) done
Deposits sent

Pump data read
6/17/07 = accept date
July 9, 2007

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. 3587-14

We acknowledge receipt, on June 6, 2007, of your completed Well Construction/Pump Installation permit application and filing fee for the Audrey Well (Well No. 3587-14). 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), extension 70255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

Rl:ss
Attachment
c: Kenneth Pantalion
TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director’s Office
Harold Yee, Wastewater Branch
Stuart Yamada, Safe Drinking Water Branch
Alec Wong, Clean Water Branch

FROM: Allan A. Smith, Interim Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Audrey Well (Well No. 3587-14)

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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 August 10, 2007. 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 utilizing such use and regularly 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.

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: __________________________ Phone: __________________________

Signed: __________________________ Date: __________________________
TO: Russell Tsuji, Administrator  
Land Division

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

SUBJECT: Well Construction/Pump Installation Permit Application  
Audrey Well (Well No. 3587-14) TMK 1-5-049:066

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 August 10, 2007. 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:

Contact Person: ____________________________ Phone: ________________

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Audrey Well (Well No. 3587-14) TMK 1-5-049:066

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 August 10, 2007. 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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Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808) 587-3295.

License information on this site reflects information in the Professional and Vocational Licensing.

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Wednesday, May 09, 2007
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TOTAL $75.00

REMARKS:
LINE (1) Audrey Well
LINE (2) Megrez Well
LINE (3) Musgrave Well
LINE (4) 
LINE (5) 
LINE (6) 
LINE (7) 
LINE (8) 
LINE (9) 
LINE (10) 

DATE: May 10, 2007
APPLICATION FOR A WELL CONSTRUCTION/PUMP INSTALLATION PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 10 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 887-0225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

RECEIVED

07 MAY 9 a 9:28

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION/PUMP INSTALLATION PERMIT

WELL LOCATION INFORMATION

1. STATE WELL NO. (If already assigned)

2. WELL NAME

3. ISLAND

4. TIME

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 labeling 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 roads and proposed well infrastructure

5. WELL OPERATOR'S NAME/COMPANY

Well Operator's Contact

Fred Page Drilling Int'l Inc

Fred Page

Well Operator's Mailing Address

P.O. Box 1434

Pahoa HI 96778

Well Operator's Phone

(808) 965-5339

(808) 965-5339

Well Operator's Fax

Name/Print Date

Signature

Date

6. LANDOWNER'S NAME/COMPANY

Landowner's Contact

Kenheth Pestalza

HCR-2 Box 6030 Kona HI 96745

Landowner's Address

Landowner's Phone

966-8981

Landowner's Fax

Landowner's E-Mail

WestSide@hawaii.rr.com

PROPOSED WELL CONSTRUCTION

7. Proposed Work

☐ Construct New Well

☐ Modify Existing Well

☐ Abandon/Seal Well

☐other

8. Construction Type

☐ Drilled

☐ Dug

☐ shaft

☐ Tunnel

9. Is this the 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)

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

13. Method of flow measurement

☐ Flowmeter

☐ Open Pipe

☐ Weir

☐ Orifice

☐ Other (describe)

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)

Iopa Maunakea 2-7546

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

☐ Domestic (number of units to be served)

17. Industrial (describe)

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

19. Military (describe)

20. Other (describe)

OTHER LEGAL REQUIREMENTS

If required, Items 21. and 22. must be obtained before the Commission can legally issue a permit.

21. Conservation District Use Permit (CDUP)

☐ Required, CDUP # __________ date approved __________

☐ Not Required (attach documentation from OCCL)

☐ I have not checked with OCCL about whether or not a CDUP is required. I understand that checking with OCCL 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.

22. 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 an 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.

23. 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 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 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 filed out if application is for Well Construction)

Fred Page Drilling Int'l Inc C-16653

License business name

C-57 License No.

Signature

Print

Date

P.O. Box 1434 Pahoa HI 96778

Address

(808) 965-5339 (808) 965-5339

Phone

Fax

E-Mail

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

Fred Page Drilling Int'l Inc C-16653

License business name

C-57/C-57A License No.

Signature

Print

Date

P.O. Box 1434 Pahoa HI 96778

Address

(808) 965-5339 (808) 965-5339

Phone

Fax

E-Mail

WPCI App Form 05/12/05
POPROSED WELL SECTION (Please attach schematic if different from diagram provided below)

HOLE DIAMETER: 12 in.

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

Ground Elevation: 100 ft., msl*

Bottom Elevation of PVC Grouting method: Annular space between Stainless Steel:

Thermoset Carbon

Open Casing:

Carbon Steel:

Shrinkage:

Thermoset Carbon

Stainless Steel:

ABS Plastic Thermoset PVC

Rock or Gravel Packing:

Material:

Crushed Basalt
Rounded Gravel

Estimated Water Level Elevation:

10 ft., msl*

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 A606) □ Type E □ Type S □ Grade B □ Other

Stainless Steel: (check one):

□ ASTM A249 (production wells) □ ASTM A512 (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 □ Schedule 120

Thermoset Plastic: (check one):

□ Filament Wound Resin Pipe conforming to ASTM D2996
□ Centrification Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pipe 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:

Perforated □ Screen

Total Length: 10 ft.

Nominal Diameter: .6 in.

Wall Thickness: 250 in.

Bottom Elevation: 110 ft., msl*

Note: Neither bentonite nor mud should be used in saturated zone during drilling

Open Hole:

Length: N/A ft.

Diameter: in.

Bottom Elevation: ft., msl*

For non-salt water Basin Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
Bottom Elevation of Well Limit = \( \frac{(\text{Water Elevation} - \text{Bottom Elevation of Well})}{2} \)

Example: Estimated +2 ft. Water Level Elev. → Bottom Elevation of Well Limit = \( \frac{(2 - 1.625)}{2} \) = -1.5 ft.

Solid Casing Material:

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

And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other

Stainless Steel: (check one):

□ ASTM A249 (production wells) □ ASTM A512 (monitor wells)

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PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120

Thermoset Plastic: (check one):

□ Filament Wound Resin Pipe conforming to ASTM D2996
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing:

Perforated □ Screen

Total Length: 10 ft.

Nominal Diameter: .6 in.

Wall Thickness: 250 in.

Bottom Elevation: 110 ft., msl*

Note: Neither bentonite nor mud should be used in saturated zone during drilling

Open Hole:

Length: N/A ft.

Diameter: in.

Bottom Elevation: ft., msl*

For non-salt water Basin Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
Bottom Elevation of Well Limit = \( \frac{(\text{Water Elevation} - \text{Bottom Elevation of Well})}{2} \)

Example: Estimated +2 ft. Water Level Elev. → Bottom Elevation of Well Limit = \( \frac{(2 - 1.625)}{2} \) = -1.5 ft.

Solid Casing Material:

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

And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other

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□ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing:

Perforated □ Screen

Total Length: 10 ft.

Nominal Diameter: .6 in.

Wall Thickness: 250 in.

Bottom Elevation: 110 ft., msl*

Note: Neither bentonite nor mud should be used in saturated zone during drilling

Open Hole:

Length: N/A ft.

Diameter: in.

Bottom Elevation: ft., msl*

For non-salt water Basin Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
Bottom Elevation of Well Limit = \( \frac{(\text{Water Elevation} - \text{Bottom Elevation of Well})}{2} \)

Example: Estimated +2 ft. Water Level Elev. → Bottom Elevation of Well Limit = \( \frac{(2 - 1.625)}{2} \) = -1.5 ft.

* 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/Wall Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.
SITE PLAN FOR CESSPOOL

NOTES:
1. Recommended location of the cesspool
2. Final location to be determined in the field
3. Minimum separation distances
   - Property Line: 9'
   - Building Wall Line: 5'
   - Between Cesspools: 18'
   - Ground Water: 5'
   - Stream: 50'
   - Large Trees: 10'

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

RONALD NICHOL P.E. 8846-C
12-7109 KALAMU ST, PAHOA, HI 96778
PH 965-9911 FAX 965-8123