FROM: RYAN  DATE: 6/2/08  SUSPENSE DATE: 

TO:  INIT. TO:  INIT. FOR:  PLEASE: 
CHENG, C.  KIMURA, J.  Approval  See Me  1  Review & Comment
CHING, F.  LEROUX, E.  Signature  1  Review & Comment
CHONG, R.  KUNIMURA, I.  3  Information
DANBARA, S.  NAKAMA, L.  TYPE DRAFT
ENGLAND, D.  OHYE, M.  TYPE FINAL
FUJII, N.  SAKODA, E.  FILE

1  HARDY, R.  SWANSON, S.  XEROX  
2  HOAGBIN, S.  UYENO, D.  COPIES
ICE, C.  YODA, K.  
IMATA, R.  YOSHINAGA, M.  

3  KAWAHARA, K.  

WELL NUMBER 5207-01  WELL NAME  Honomu

application type  PUMP
1 WCP COVER LETTER  pump only, not necessary
2 WCP  pump only, not necessary
3 WELL CHECK PRINTOUT  pump only, not necessary

4 PIP COVER LETTER
5 PIP

COMMENTS:
6 SDWB
7 WWB
8 CWB
9 LD
10 HP
11 LUC  not in conservation district
12 OCLL  not in conservation district
13 SMA  not in SMA

NOTES:
DRILLER  TMK  PUMP CAPACITY  WELL OWNER  LAND OWNER
n/a  2-8-013:055  250  DWS  DWS
COMMENT DEADLINE  6/29/07

we sent letter of assurance in '07.
Benlik signed 5/16/08
ok to issue PIP.

--- loose end drill needs to address it.

I took care of Benlik's issues. I'll do the rest of DWS's later but we should issue this now.
Ref: 5207-01.pip

Mr. Bill Godwin
Beylik Drilling and Pump Service
91-259A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Pump Installation Permit
Honoumu Well (Well No. 5207-01)

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

3. The permittee shall conduct aquifer pump tests in accordance with the Hawaii Well Construction and Pump Installation Standards (revised February 2004) on the latest aquifer pump test data forms, which are available by contacting staff or on the web at www.hawaii.gov/dlnr/cwrm/forms.htm.

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,

[Signature]
LAURA H. THIELEN
Chairperson

Enclosure

c: Hawaii Department of Water Supply (with applicable comments – DOH SDWB, WWB, CWB)
USGS
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 Honomu Well (Well No. 5207-01) at TMK 2-8-013:055, 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 250 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.

Date of Approval: May 16, 2008
Expiration Date: May 16, 2010

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-21896 Date: ________________

Printed Name: Bill Godwin Firm or Title: Beylik Drilling and Pump Service

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

Attachments
<table>
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<tr>
<th>Approved</th>
<th>Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
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FROM: RYAN  DATE: 5/31/07  SUSPENSE DATE:  

TO: CHING, F.  INIT.  TO: KUNIMURA, I.  INIT.  FOR: Approval  PLEASE: See Me
CHONG, R.  NAKAMA, L.  Signature  1 Review & Comment
DANBARA, S.  OHYE, M.  2 Take Action
ENGLAND, D.  SAKODA, E.  Type Draft
FUJI, N.  SWANSON, S.  2 Type Final
1 HARDY, R.  UYENO, D.  4 File
2 HOAGBIN, S.  YODA, K.  Xerox copies
ICE, C.  YOSHINAGA, M.  
4 IMATA, R.  KIMURA, J.  

WELL NUMBER  5207-01  WELL NAME  Honomu

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<th>3 WELL CHECK PRINTOUT</th>
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COMMENTS:

6 SDWB
7 WWB
8 CWB
9 LD
10 HP
11 LUC  not in conservation district
12 OCCL  not in conservation district
13 SMA  not in sma

NOTES:

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

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TO: Russell Tsuji, Administrator  
Land Division  

FROM: Peter T. Young, Interim Deputy Director  
Commission on Water Resource Management  

SUBJECT: Pump Installation Permit Application  
Honoum Well (Well No. 5207-01) TMK 2-8-013:055  

Transmitted for your review and comment is a copy of the captioned 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 June 29, 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.  

RI:ss  
Attachment(s)  

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

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

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

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

[ ] No objections  
[☒] Other comments: The parcel is owned by the County of Hawaii.  

Contact Person: Gary Martin Phone: 587-0421  

Signed: Gary Martin Date: Jun 18 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: Pump Installation Permit Application
   Honolulu Well (Well No. 5207-01)

Transmitted for your review and comment is a copy of the captioned 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 June 29, 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.

RI: ss
Attachment(s)

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 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, §11-29-29.

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

[3] If the well is to supply both possible and non-potable purposes in a single system, the user shall eliminate cross-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 systems with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

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


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

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

[9] No comments/objections

Contact Person: [Signature] Phone: 587-0259

Signed: [Signature] Date: 05/29/07

07/09/07
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN
DATE: 9-May-07

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

INIT: 4
INIT: 3
INIT: 1
INIT: 2

FOR: NAKAMA, L.
FOR: NAKANO, D.
FOR: OHYE, M.
FOR: SAKODA, E.
FOR: SWANSON, S.
FOR: YOYEN, D.
FOR: YODA, K.
FOR: YOSHINAGA, M.

PERMIT PROCESS TABLE
APPL. FORM (11 COPIES)
USGS MAPS (11 COPIES)
TAX MAPS (11 COPIES)
PARCEL OWNER VERIF.
CONTRACTOR VERIF.
ALL INFO FILLED IN
MLS PRINTOUT
DCCA LICENSE SCREEN PRINTOUT

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

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

INCOMPLETE ACTION DATES:

DATE

ACTION

---

---
May 25, 2007

Mr. Keith Okamoto
Department of Water Supply
County of Hawaii
345 Kekuanaoa Street, Suite 20
Hilo, HI 96720

Dear Mr. Okamoto:

Pump Installation Permit Application for Well No. 5207-01

We have received your Pump Installation permit application and filing fee for the Honomu Well (Well No. 5207-01). However, applications for permits are required to be made by a contractor with a valid and active C-57, C-57a, or A license and who will perform the work, in accordance with the State Water Code, §174C-84(a). Because you have not identified a qualifying contractor, your application will not be accepted as complete until a qualifying contractor signs and completes sections 24 & 25 on the application form. However, we will process your incomplete application for review, and if the review warrants the issuance of a permit, a letter of assurance will be issued in lieu of the permit. The letter of assurance will indicate that a permit will be issued when the contractor signs the application, and the following conditions are met: a) the contractor has no outstanding issues with the Commission; b) there have been no significant changes to the application; c) there have been no significant changes to applicable laws, rules, regulations; d) there have been no significant changes to hydrologic conditions.

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 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,

W. Roy Hardy
PETER T. YOUNG
Interim Deputy Director

R1:ss
Attachment
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: Pump Installation Permit Application  
Honoum Well (Well No. 5207-01)  

Transmitted for your review and comment is a copy of the captioned 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 June 29, 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 [] 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: Peter T. Young, Interim Deputy Director  
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application  
Honoulu Well (Well No. 5207-01) TMK 2-8-013:055

Transmitted for your review and comment is a copy of the captioned 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 June 29, 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.

RI: ss  
Attachment(s)

RESPONSE:

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

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

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ____________________________  Phone: ____________________________

Signed: ____________________________  Date: ____________________________
Oahu Assessed Values reflect tax year 2007. All other Assessed Values reflect tax year 2006.

Search criteria: TMK Taxkey 3-2-8-13-55

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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) Well No. 5207-01
Mr. W. Roy Hardy  
Acting Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii  96809

Dear Mr. Hardy:

Pump Installation Permit Application for the  
Hawaii County Department of Water Supply's  
Honoum Well - State No. 5207-01

Attached is a Pump Installation permit application, $25 filing fee, and other attachments for the  
Department of Water Supply's Honoum well, State No. 5207-01. When completed the well would provide drinking water supply for DWS' Honoum water system.

The work to install the pump will be bid out, so a contractor has not been selected yet. As I understand it, a Letter of Assurance will be issued pending selection of the contractor. If you need additional information, feel free to call me or Keith Okamoto at DWS (808-961-8070, ext. 257). Thank you for your attention to this matter.

Sincerely,

Tom Nance

cc: Keith Okamoto - DWS

Attachments
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT
5-2-07
05-46-0

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 587-6225. For further information and updates to this application form, visit http://www.hawaii.gov/dlorwrm.

WELL LOCATION INFORMATION
1. STATE WELL NO. (if already assigned) 5207-01
2. WELL NAME Honoum Well
3. ISLAND Hawaii
4. TMIW 2 8 13 : 55

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 OPERATORS NAME/OCCUPATION Keith Okamoto
6. WELL OPERATOR’S Contact Department of Water Supply, County of Hawaii
7. Well Operator’s Mailing Address 345 Kekuanaoa Street - Suite 20
   Hilo, Hawaii 96720
8. Well Operator’s E-mail kokamoto@hawaiidws.org
9. Well Operator’s Phone 808-961-8070
10. Well Operator’s Fax 808-961-8080

PROPOSED WELL CONSTRUCTION
7. Proposed Work
   □ Construct New Well
   □ Modify Existing Well
   □ Abandon/Sell Well
   □ Drilled 8. Construction Type
   □ Dug
   □ Shaft
   □ Tunnel

10. Proposed Work
   □ Install New Pump
   □ Replace Pump

11. Proposed Pumping Rate, gpm (gallons per minute)
   250

12. Proposed Amount of Withdrawal, gpd (gallons per day)
   100,000

13. Method of flow measurement
   □ Flowmeter
   □ Open Pipe
   □ Weir
   □ Orifice
   □ Other (explain)

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

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)

PROPOSED USE
□ 15. Municipal (water systems serving greater than 25 individuals or 15 service connections) DWS Honoum Water System

□ 16. 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 [Land is zoned AG-20a, CDUP not applicable].
   □ 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) [See attached Planning Department letter dated June 27, 2002.]
   □ 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 to compliance, and any work done while the permit is in suspension may result in fines of up to $600/day.

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

Licensee business name C-57 License No. __________
Signature __________
Print __________
Date __________
Address __________
Phone __________
Fax __________
E-mail __________

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

Licensee business name C-97C-57a License No. __________
Signature __________
Print __________
Date __________
Address __________
Phone __________
Fax __________
E-mail __________

WPCI App. Form 05/12/05
**PROPOSED WELL SECTION**  
(please attach schematic if different from diagram provided below)

**HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS**  
To ensure that your subsurface is built to industry standards.

---

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A512 (monitor wells)
- PVC Plastic conforming to ASTM F490 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 C960 □ PTFE Fluorocarbon Tubing conforming to ASTM D3296 □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A512 (monitor wells)
- ABS Plastic conforming to ASTM F490 and ASTM D1537: (check one): □ Schedule 40 □ Schedule 80
- PVC Plastic conforming to ASTM F490 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 C960 □ PTFE Fluorocarbon Tubing conforming to ASTM D3296 □ FEP Fluorocarbon Tubing conforming to ASTM D3296

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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 - Bottom Elevation + 1/4 Aquifer Thickness)

Example: Estimated +2 ft. Water Level Ele.  
Bottom Elevation of Well Limit = (2 - (1/2 x 13.2)) = 13.2 ft.

---

**Honoum Well**

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**Grouting method:**
- Positive displacement
- Other

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

**Rock or Gravel Packing:**
- None
- Crushed Basalt
- Rounded Gravel

**Estimated Water Level:**
- Elevation 13.2 ft.*

---

**Grouting:**
- Minimum of 2" Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)
- Ground Elevation: 517.67 ft., mat

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**Solid Casing:**
- Total Length: 489.67 ft.
- Nominal Diameter: 12 in.
- Well Thickness: 0.3125 in.
- Bottom Elevation: 28 ft., mat*
HONOMU PRODUCTION WELL
(STATE WELL NO. 5207-01)
LOCATION MAP

NOT TO SCALE

49.375 Parcel 5
+ 0.145 Tank Site
Less 0.558 Tank and Well Site Area
48.962 REMAINDER LOT

OWNERS:
Mauna Kea Agribusiness Co., Inc.
P.O. Box 10
Pahala, Hawaii 96781
Water Commission of the County of Hawaii
25 Aupunl Street, Room 103
Hilo, Hawaii 96720

Notes:
1. Coordinates and azimuths shown hereon are referred to Government Survey Triangulation Station "KAUKU".
2. All boundary corners are marked with 1/2" pipes unless otherwise noted.

MAP SHOWING CONSOLIDATION OF "PARCEL 5" AND "TANK SITE" AND RESUBDIVISION INTO "REMAINDER LOT" AND "TANK AND WELL SITE"

ENGINEERING DIVISION
DEPARTMENT OF WATER SUPPLY
COUNTY OF HAWAII

SUBMITTED BY: __________________________ DATE: ______________
APPROVED BY: __________________________ DATE: ______________

Licensed Professional Land Surveyor
Certificate Number 7564
July 22, 1999

This work was prepared by me or under my supervision.
June 27, 2002

Mr. Perry J. White
PLANNING SOLUTIONS
1210 Auahi Street, Suite 221
Honolulu, HI 96814

Dear Mr. White:

Subject: Draft Environmental Assessment
Applicant: Department of Water Supply
Request: Drilling and testing of a new water well & construction of a control building
TMK: 2-8-13: 55 and Por. 5

This is to acknowledge receipt of your draft environmental assessment dated June 20, 2002, requesting preliminary comments on the environmental assessment for the drilling and testing of a new water well and construction of a control building on the above-referenced properties. We have the following comments to offer:

- The State Land Use designation for the properties is Agricultural and the County zoning is Agricultural (A-20a).
- The properties are not situated within the County’s Special Management Area (SMA).

This project is a permitted public use or structure according to the Hawaii County Zoning Code, and is consistent with Sections 25-4-11(c) and 25-5-72(a)(22). Accessory uses or buildings to the project are also permitted uses, pursuant to Section 25-5-72(e).
Thank you for the opportunity to provide comments. If you have any questions, please call us at 961-8288.

Sincerely,

CHRISTOPHER J. YUEN
Planning Director

cc: Long Range Planning
Planning Department - Kona
March 29, 2007

Milton Pavao
Department of Water Supply
345 Kekuanaoa Street, Suite 20
Hilo, Hawaii 96720

Dear Mr. Pavao:

SUBJECT: Chapter 6E-8 Historic Preservation Review [County/DWS] — Well Pump Permit; State Commission on Water Resource Management Honomo Ahupua'a, Hamakua District, Island of Hawaii

The proposed action consists of expanding the existing Honomo reservoir and well site by less than 10,000 square feet to accommodate an additional well and storage tank.

We concur that no historic properties will be affected by this undertaking because:

☐ Intensive cultivation has altered the land
☐ Residential development/urbanization has altered the land
☐ Previous grubbing/grading has altered the land
☐ An accepted archaeological inventory survey (AIS) found no historic properties
☐ SHPD previously reviewed this project and mitigation has been completed
☐ Other: We are in receipt of an Archaeological and Cultural Impact Assessment for an EA regarding the Honomo Well Project (PHRJ 2007) for which a field inspection of the proposed project area was undertaken. Based on the results of the field inspection, we believe no historic properties will be affected by the proposed expansion of the well.

In the event that historic resources, including but not limited to artifacts, lava tubes, blisters or caves, or human skeletal remains, are identified during routine construction activities, all work must cease within the immediate vicinity of the find, the find shall be protected from additional disturbance, and the State Historic Preservation Division, must be contacted immediately at (808) 243-5169.

Aloha,

[Signature]
Mélanie Chinen, Administrator
State Historic Preservation Division

MK:kf

c: Charles L. Morgan, Environmental Planner, Planning Solutions, Inc. FAX (808) 550-4549
Paul H. Rosendahl, PHRI, FAX 961-6998
will await final WCRI for acceptance.
MEMORANDUM

TO: Ryan Imata - CWRM
FROM: Tom Nance
SUBJECT: Constant Rate Pump Test of DWS' Honomu Well on TMK 2-8-13:55 Along Akaka Falls Road in Honomu, Hawaii

This memo and its attachments are a follow-up to a phone conversation I had with Glenn Bauer on January 7th. During the scheduled 96-hour constant rate pump test of DWS' Honomu well, there was a generator failure which required the pump to be shut down after 62 hours and 50 minutes. Based on the groundwater conditions encountered and the well's performance during the step and constant rate tests, Glenn agreed with me that repeating the test to achieve a full 96 hours of sustained pumping would not be necessary. Some of the relevant groundwater and well performance characteristics are as follows:

- Groundwater stands about 13.2 feet above sea level and has a semi-diurnal barometric level fluctuation of a small fraction of a foot.
- Drawdown response is fast and stable and recovery is rapid. There is very little time-dependent component in either the drawdown or recovery (refer to attached Figures 1 and 2).
- The water is extremely fresh, with a specific conductance on the order of 130 microsiemens/cm and chlorides of about 6 MG/L (Figure 3).
- The water temperature is about 62°F. (Figure 4).

cc: Keith Okamoto - DWS

Attachments
FIGURE 1. WATER LEVEL AND PUMPING RATE DURING THE JANUARY 4, 2005 STEP-DRAWDOWN TEST
FIGURE 2. WATER LEVEL AND PUMPING RATE DURING THE 63-HOUR CONSTANT RATE PUMP TEST
FIGURE 3. SPECIFIC CONDUCTANCE OF THE PUMPED WATER DURING THE CONSTANT RATE TEST
FIGURE 4. TEMPERATURE OF THE PUMPED WATER DURING THE CONSTANT RATE TEST
DEPARTMENT OF WATER SUPPLY  
COUNTY OF HAWAII  
ENGINEERING DIVISION  
345 KEKUANAOA STREET, STE 20 * HILO * HAWAII * 96720  
PHONE: (808) 961-8070 * FAX: (808) 961-8080  

FACSIMILE TRANSMITTAL SHEET  

<table>
<thead>
<tr>
<th>TO:</th>
<th>FROM:</th>
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</thead>
<tbody>
<tr>
<td>Ryan Imata</td>
<td>Keith Okamoto</td>
</tr>
<tr>
<td>COMPANY:</td>
<td></td>
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<tr>
<td>DLNR-CWRM</td>
<td></td>
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<tr>
<td>DATE:</td>
<td>07/26/04</td>
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<td>FAX NUMBER:</td>
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<tr>
<td>(808) 587-0219</td>
<td></td>
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<td>TOTAL NO. OF PAGES INCLUDING COVER:</td>
<td>2</td>
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<tr>
<td>PHONE NUMBER:</td>
<td></td>
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<tr>
<td>(808) 587-0255</td>
<td>(808) 961-8070 ext. 260</td>
</tr>
<tr>
<td>RE:</td>
<td>Honomu Well Construction Permit</td>
</tr>
<tr>
<td>URGENT:</td>
<td></td>
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<td>FOR REVIEW:</td>
<td></td>
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<tr>
<td>PLEASE COMMENT:</td>
<td></td>
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<td>PLEASE REPLY:</td>
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<td>FOR INFORMATION:</td>
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<tr>
<td>NOTES/COMMENTS:</td>
<td>Ryan,</td>
</tr>
<tr>
<td></td>
<td>Here's the signed well construction permit.</td>
</tr>
<tr>
<td></td>
<td>I will inform the contractor that it's okay to drill via a copy of this fax.</td>
</tr>
<tr>
<td></td>
<td>Let me know if you have any concerns or questions.</td>
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<td></td>
<td>Thanks,</td>
</tr>
<tr>
<td></td>
<td>Keith</td>
</tr>
<tr>
<td></td>
<td>fax copy - Blaise Clay, Water Resources Int'l</td>
</tr>
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</table>

...Water brings progress...
COMMISSIONER OF WATER RESOURCES

PETER J. TUNNO, COMMISSIONER

Date: 12/24/04

CONSTRUCTION WATER RESOURCES MANAGEMENT

WELL CONSTRUCTION PERMIT

JUL-22-A9 14-89 FROM WATER RESOURCES CT.
10-B/05/20-013

Page 3/3
TO: Ryan Imata
FROM: Keith Okamoto
COMPANY: DLNR - CWRM
DATE: 07/26/04
FAX NUMBER: (808) 587-0219
TOTAL NO. OF PAGES INCLUDING COVER: 2
PHONE NUMBER: (808) 587-0255
SENDER'S PHONE NUMBER: (808) 961-8070 ext. 260
RE: Honolua Well Construction Permit

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☑ FOR INFORMATION

NOTES/COMMENTS:
Ryan,

Here's the signed well construction permit.

I will inform the contractor that it's okay to drill via a copy of this fax.

Let me know if you have any concerns or questions.

Thanks,
Keith

fax copy – Blaise Clay, Water Resources Int’l

...Water brings progress...
WELL CONSTRUCTION PERMIT

Hawaii Exploratory Well, Well No. 5297-01

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, Administrative Rules, Section 13-96, entitled "Wells, Wastewater Disposal Wells, and Stream Diversion Wells", this document permits the construction and testing of Hawaii Exploratory Well (Well No. 5297-01) at Taino site along Alanis Falls Road, Hawaii, TMRC 2-8-12, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

1. The Chairepion of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96812, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and said shall be allowed to inspect installation activities in accordance with §13-96-16, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum 1"-inch diameter collar liner shall be permanently installed in the annular space between the completion and the native rock. The collar shall be located in the completion, above test packer and below any permanent casing. The collar shall be designed to prevent fluids from entering the completion and to ensure that native rock is not damaged as possible.

3. In a test period of the well, the test shall not exceed one-thirtieth (1/30) of the theoretical thickness (1/30 times initial height) of the base groundwater unless otherwise authorized by the Commission.

4. The wellhead, well operator, and/or well owner shall incorporate safeguards to prevent contamination of the wellhead from the undenominated water levels. The permittee, well operator, and/or well owner shall cooperate with the Commission and conduct a sanitary survey in accordance with the standards in pump sampling work, according to the guidelines of the Hawaii Department of Health.

5. The proposed well shall not adversely affect existing or future water supplies in the area, including any existing well or new well installation now or hereafter. This permit and the conditions for the construction of the well do not constitute a determination of who will supply the water rights.

7. The following shall be submitted to the Commission within ten (10) days after completion of work:
   a. Well completion report, Standard-19, Standard-2, Standard-3, and Standard-4, if the HWPOC is not included in the standards approved or recommended, in form and content.
   b. Survey of the wellhead, and test survey by a Hawaii licensed surveyor.
   c. About a cost estimate of the well.
   d. Permittee's and/or owner's letter stating the location of the well.
   e. A permittee's and/or owner's letter stating the location of the well.
   f. A permittee's and/or owner's letter stating the location of the well.

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

9. The well construction permit is to be incorporated into the permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (February 2004).

10. This permit shall be for the Commission only.

11. The permittee may be required to submit the Commission informational data on the condition of the wellhead and the performance of the well, on an annual basis.

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

13. Special conditions in the site and area delineated on the map are incorporated herein by reference.

Date of Approval: May 31, 2004
Expiration Date: May 31, 2006

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and any and all permits and understand them. I accept and agree to meet these conditions as a prerequisite and acknowledge my consent to the terms and conditions of this permit.

Printed Name:主義
Firm or Title: Deputy Manager, Dept. of Water Supply

Driller's Signature: Blaine Clay
C-57 License No.: AC 5058 Date: 7/23/04
Printed Name: Blaine Clay
Firm or Title: Vice President

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

Attachment: 2/3

DEPT WATER SUPPLY 961-6800
<table>
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<th>DATE: JAN 10 2005</th>
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<th>TO:</th>
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<td>NAKAMA, L.</td>
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<td>Signature</td>
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<td>OHYE, M.</td>
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</tbody>
</table>

O.K.? Yes.

No signed permit yet! Who is driller? We think: international.

Tom will call Keith Okimoto.
MEMORANDUM

TO: Ryan Imata - CWRM
FROM: Tom Nance
SUBJECT: Constant Rate Pump Test of DWS' Honomu Well on TMK 2-8-13:55 Along Akaka Falls Road in Honomu, Hawaii

This memo and its attachments are a follow-up to a phone conversation I had with Glenn Bauer on January 7th. During the scheduled 96-hour constant rate pump test of DWS' Honomu well, there was a generator failure which required the pump to be shut down after 62 hours and 50 minutes. Based on the groundwater conditions encountered and the well's performance during the step and constant rate tests, Glenn agreed with me that repeating the test to achieve a full 96 hours of sustained pumping would not be necessary. Some of the relevant groundwater and well performance characteristics are as follows:

- Groundwater stands about 13.2 feet above sea level and has a semi-diurnal barometric level fluctuation of a small fraction of a foot.
- Drawdown response is fast and stable and recovery is rapid. There is very little time-dependent component in either the drawdown or recovery (refer to attached Figures 1 and 2).
- The water is extremely fresh, with a specific conductance on the order of 130 microsiemens/cm and chlorides of about 6 MG/L (Figure 3).
- The water temperature is about 62°F. (Figure 4).

cc: Keith Okamoto - DWS

Attachments
FIGURE 1. WATER LEVEL AND PUMPING RATE DURING THE JANUARY 4, 2005 STEP-DRAWDOWN TEST
FIGURE 2. WATER LEVEL AND PUMPING RATE DURING THE 63-HOUR CONSTANT RATE PUMP TEST
FIGURE 3. SPECIFIC CONDUCTANCE OF THE PUMPED WATER DURING THE CONSTANT RATE TEST

SPECIFIC CONDUCTANCE (MICROSEI/CM @ 25 DEG C)

DAY IN JANUARY 2005

SPECIFIC CONDUCTANCE - PUMPING RATE

DAY IN JANUARY 2005

SPECIFIC CONDUCTANCE (MICROSEI/CM @ 25 DEG C)

DAY IN JANUARY 2005

SPECIFIC CONDUCTANCE - PUMPING RATE
FIGURE 4. TEMPERATURE OF THE PUMPED WATER DURING THE CONSTANT RATE TEST
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<tr>
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<td>TO: LAU, E.</td>
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<tr>
<td>TO: BAUER, G.</td>
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<td>TO: CHING, F.</td>
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<td>TO: NAKAMA, L.</td>
</tr>
<tr>
<td>TO: DANBARA, S.</td>
<td>INIT.</td>
<td>TO: NAKANO, D.</td>
</tr>
<tr>
<td>TO: FUJII, N.</td>
<td>INIT.</td>
<td>TO: OHYE, M.</td>
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<td>TO: GOODING, K.</td>
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<td>TO: SAKODA, E.</td>
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<td>TO: HARDY, R.</td>
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<td>TO: SUBIA, S.</td>
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<td>TO: HIGA, D.</td>
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<td>TO: SWANSON, S.</td>
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<td>TO: ICE, C.</td>
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<td>TO: IMATA, R.</td>
<td>INIT.</td>
<td>TO: YODA, K.</td>
</tr>
<tr>
<td>TO: KUNIMURA, I.</td>
<td>INIT.</td>
<td>TO: YOSHINAGA, M.</td>
</tr>
</tbody>
</table>

WELL NUMBER 5207-01

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 PUMP TEST 10 WCR I FORM

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 WCR II FORM 10 WUR FORM

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY
Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

Data Input

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<tr>
<td>Well Number</td>
<td>5207-01</td>
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<tr>
<td>Well Name</td>
<td>Honomu Exploratory Well</td>
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<tr>
<td>Ground Elevation</td>
<td>516</td>
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<td>Cement Grout</td>
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<td>Grouting Method</td>
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<td>Hole Diameter</td>
<td>19</td>
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<td>Total Depth</td>
<td>550</td>
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<td>Estimated Head</td>
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<td>Solid Casing Diameter</td>
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<tr>
<td>Solid Casing Wall Thickness</td>
<td>0.375</td>
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<tr>
<td>Open Casing Length</td>
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Results

| Results                                                        |       |
|                                                               |       |
| Well Depth                                                     |       |
| Theoretical Thickness of Aquifer                              | 164   |
| 1/4 Aquifer Thickness                                         | 41    |
| **Depth of Well below Sea Level**                             | 34    | okay | Section 2.2 |
| Well Casing                                                    |       |
| Minimum Wall Thickness                                        |       |
| Material                                                      | steel |
| Minimum Thickness per standards                               | 0.365 |
| Wall Thickness Provided                                       | 0.375 | okay | Section 2.4(b) |
| Minimum Length of Solid Casing                                |       |
| 90% of ground to top of aquifer                              | 460.8 |
| Length of solid casing Provided                               | 510   | okay | Section 2.4(c) |
| Casing Material                                               | ASTM A53 | in compliance | Section 2.4(d) |
| (for pipe only - check for 200' limit)                        | okay  |       |       |
| Annular Space                                                 |       |
| Depth of Grouting                                             |       |
| Calculated Depth of Grouting                                  | 358.4 |
| Depth of Grouting provided                                    | 375   | okay | Section 2.6(c) |
| Minimum Annular Space required                                | 3     |
| Thickness of Annular Space                                    | 3.5   | okay | Section 2.6(d) |
Ref: 5207-01.wcp

Mr. Milton Pavao  
Department of Water Supply  
County of Hawaii  
345 Kekuanaoa Street Suite 20  
Hilo, HI 96720  

Dear Mr. Pavao:

Well Construction Permit  
Honomu Exploratory Well (Well No. 5207-01)  

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

**Special Conditions**

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

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

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

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

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

Finally, we have accepted your application as complete on April 27, 2004, with the submission of the Saddle Road Well A Well Completion Report.

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,

[Signature]

Peter T. Young
Chairperson

Enclosures
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 construction and testing of Honomu Exploratory Well (Well No. 5207-01) at Tank site along Akaka Falls Road, Hawaii, TMK 2-8-13: 55, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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

2. The well construction permit shall be for construction and testing of the well only. A minimum 114-inch diameter monitor tube shall be permanently installed, in manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

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

4. The permittee, well operator, and/or well owner shall incorporate mitigation measures to prevent construction 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.

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

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

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

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

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

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

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

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

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

Date of Approval: May 31, 2004
Expiration Date: May 31, 2006

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5000 per day starting from the permit date of approval.

Permittee's Signature: _______________ Date: _______________
Printed Name: ______________________ Firm or Title: ______________________
Driller's Signature: ___________________ C-57 License #: __________ Date: _______________
Printed Name: ______________________ Firm or Title: ______________________

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

Attachment
C: USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
April 27, 2004

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

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

SUBJECT: Well Construction Permit Application
          Honolulu Exploratory Well (Well No. 5207-01)

Transmitted for your review and comment is a copy of the captioned Well Construction 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 May 31, 2004. 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 26, Rules Relating to Potable Water Systems, §§11-26-25.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 16 service connections) and if the well water is used for drinking, the private owner shall test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from the 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 prevention device and by clearly labeling all non-potable supplies 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 (yes) is not located near the proposed well site (information attached). An NPDES permit is required.

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

No comments/objections

Contact Person: Alec Wong
Phone: 586-4309
Date: 4/30/04

Signed: Alec Wong

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

1. **For Well-Drilling Activities**

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

2. **For Well Pump Testing**

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

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

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

SUBJECT: Well Construction Permit Application
Honokou Exploratory Well (Well No. 5207-01)

Transmitted for your review and comment is a copy of the captioned Well Construction 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 May 31, 2004. 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 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-28.

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 supplies with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

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

An NPDES permit is required.

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

No comments/objections.

Contact Person: Bill Wong
Phone: 586-4258

Signed: Bill Wong
Date: MAY 4 2004
STATE MESSENGER DELIVERY

Date: April 30, 2004

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

From: Department of Health, Wastewater Branch, Planning & Design Section

Attn: Ryan Imata

Subject:

Well No. 3687-11 Webb #2

Well No. 3688-08 Lian Well

Well No. 5207-01 Honomu Well

STATE MESSENGER DELIVERY
April 27, 2004

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

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

SUBJECT: Well Construction Permit Application  
Honomu Exploratory Well (Well No. 5207-01)

Transmitted for your review and comment is a copy of the captioned Well Construction 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 May 31, 2004. 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 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

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

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

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

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

[ ] An NPDES permit is required.

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

No comments/objections

Contact Person: Lon N. Kejiwana  
Phone: 586-4294

Signed: Lon N. Kejiwana  
Date: 4-30-04
April 27, 2004

TO: Dede Mamiya, Administrator  
Land Division

FROM: Ernest Y.W. Lau, Deputy Director  
Commission on Water Resource Management

SUBJECT: Well Construction Permit Application  
Honoomu Exploratory Well (Well No. 5207-01)

Transmitted for your review and comment is a copy of the captioned Well Construction 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 May 31, 2004. 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.

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

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

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

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

[ ] No objections

X[ ] Other comments: Original source of private title is Grant 897 issued prior to statehood in 1959.

Contact Person: Gary Martin  
Phone: 587-0421

Signed: Gary Martin  
Date: MAY 28 2004
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN
DATE: 8-May-03
SUSPENSE DATE: 

TO:
BAUER, G.
CHING, F.
FUJII, N.
HARDY, R.
HIGA, D.
HIRANO, E.
ICE, C.
IMATA, R.
JINNAI, R.
KUNIMURA, I.

INIT. 

INIT.

LUM, A.
NAKAMA, L.
NAKANO, D.
OHY, M.
SAKUDA, E.
SUBIA, S.
SWANSON, S.
UYENO, D.
YODA, K.

FOR:
3 Approval
3 Signature
4 Information

PLEASE:
1 Review & Comment
Take Action
5 Type Draft acknow letter
Type Final, label new file folder
File
Xerox copies

WELL NUMBER 5207-01
WELL NAME Honomu Exploratory

☐ WELL CONSTRUCTION
☐ PUMP INSTALLATION
☐ BOTH

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1 TRANS. LETTER
2 CWRM MAP
3 APPL. FORM (3X)
4 USGS MAPS (3X)
5 TAX MAPS (3X)
6 PARCEL OWNER VERIF.
7 CONTRACTOR VERIF.
8 ALL INFO FILLED IN
9 BACKGROUND CHECK

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

INCOMPLETE ACTION DATES:

DATE ACTION

EA is pending - shouldn't accept until done.
Background check yellow marks indicate other missing info

4110-01 i) survey

4705-13 ii) HIE RP? + permit (no pump installed)
Should be addressed before we accept application.

i'm working on deficiencies. However, let's route for review early - they need permit soon.

they tried to apply, but 343 doesn't exempt emergency conditions.
April 27, 2004

Mr. Milton Pavao
Department of Water Supply
County of Hawaii
345 Kekuanaoa Street, Suite 20
Hilo, HI 96720

Dear Mr. Pavao:

Well Construction Permit Application for Well No. 5207-01

We have received your Well Construction permit application for the Honomu Exploratory Well (Well No. 5207-01). The application was submitted on May 7, 2003, with the check box for environmental review marked pending. We did not receive notification that the final EA was published until April 22, 2004.

Additionally there is some information that we are requiring prior to accepting your application as complete. These pertain to the Saddle Road A Well (Well No. 4110-01) and the Kaieie Mauka Well (Well No. 4708-03). Ryan Imata of Commission staff is working with Keith Okamoto regarding the specific information required, and they will be described in other correspondence.

However, in order to expedite your review, we will route your application for review from various agencies.

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 ( Lana'i & Molokai) extension, 70255.

Sincerely,

ERNEST Y.W. LAU
Deputy Director
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

April 27, 2004

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

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

SUBJECT: Well Construction Permit Application
         Honomu Exploratory Well (Well No. 5207-01)

Transmitted for your review and comment is a copy of the captioned Well Construction 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 May 31, 2004. 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 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.

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

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

[ ] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person: ____________________________ Phone: __________
Signed: ____________________________ Date: __________
TO: Dede Mamiya, Administrator  
Land Division  

FROM: Ernest Y.W. Lau, Deputy Director  
Commission on Water Resource Management  

SUBJECT: Well Construction Permit Application  
Honomu Exploratory Well (Well No. 5207-01)  

Transmitted for your review and comment is a copy of the captioned Well Construction 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 May 31, 2004. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments. 

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255. 

RESPONSE: 

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

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

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

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

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

[ ] No objections 

[ ] Other comments: 

Contact Person: ____________________________ Phone: ______________ 

Signed: ____________________________ Date: ______________
April 27, 2004

TO: Holly McEldowney, Acting Administrator
    Historic Preservation

FROM: Ernest Y.W. Lau, Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction Permit Application
          Honomu Exploratory Well (Well No. 5207-01)

Transmitted for your review and comment is a copy of the captioned Well Construction 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 May 31, 2004. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RESPONSE:

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: __________

Signed: ___________________________ Date: __________
### PUBLIC RECORD DATA

<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo</th>
<th>Tnr Property Address</th>
<th>Owner/Lessee</th>
<th>Beds</th>
<th>Baths</th>
<th>Land area</th>
<th>Living area</th>
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<td>3-2-8-13-55</td>
<td>Honomu</td>
<td>G</td>
<td>COUNTY OF HAWAII</td>
<td></td>
<td></td>
<td>6,300 sqft</td>
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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.
May 6, 2003

State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809

APPLICATION FOR PERMIT  
WELL CONSTRUCTION  
HONOMU EXPLORATORY WELL  
TAX MAP KEY 2-8-013:055

Enclosed is the completed application for permit for the above-mentioned well.

If there are any questions, please contact us.

Sincerely yours,

Milton D. Pavao, P.E.  
Manager

KKO:pt  
Enc.

...Water brings progress...
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

Not Required

For Official Use Only:

May 7, 2003

WCP/PA Form 921/01

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 5 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.state.hi.us/dlr/wrm.

APPLICANT INFORMATION

1. (a) WELL OWNER: Water Board of the County of Hawaii
   Contact Person: Milton Pavao
   Mailing Address: 345 Kekuanaoa Street - Suite 20 Hilo, Hawaii 96720
   Phone: 808-961-8050
   Fax: 808-961-8657
   (print legibly)

   (b) LAND OWNER: Water Board of the County of Hawaii
   Contact Person: Milton Pavao
   Mailing Address: 345 Kekuanaoa Street - Suite 20 Hilo, Hawaii 96720
   Phone: 808-961-8050
   Fax: 808-961-8657
   (print legibly)

   (c) CONTRACTOR: To be Competitively Bid
   Contact Person: Phone: __________________
   Mailing Address: __________________
   Fax: __________________ E-mail: __________________
   Lic #: __________________ (circle one: C-57, C-57a, or A)

WELL & PUMP INFORMATION:

2. WELL NAME: Honomu Exploratory Well
   Island: Hawaii
   Address: At Tank Site Along Akaka Falls Road
   Tax Map Key: 2 8 13 55
   Zone: Sec: Proj: Parcel
   Hawaii

   Attach: (a) portion of a 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quadrangle

3. PROPOSED WORK: (check all that apply)
   • Construct New Well
   • Modify Existing Well
   • Install New Pump*
   • Modify Pump*
   • Abandon/Seal
   *State Well No.: Not Yet Assigned
   (if unknown, please call Commission at 587-0225)

4. CONSTRUCTION: (check all that apply)
   • Drilled
   • Dug
   • Shaft
   • Tunnel
   Is this well part of a battery of wells? □ Yes □ No (Please describe)

5. PROPOSED PUMPING RATE: 250 gallons per minute

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

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 100,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT: Flowmeter D Open-pipe D Weir D Orifice D Other (explain):

OTHER IMPORTANT INFORMATION:

8. LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit.
   Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 587-0414
   • Not Required
   If required, date approved
   Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEQC at 586-4185
   • Not Required
   If required, date published in OEQC bulletin In Preparation
   Special Management Area Permit (SMAP) To determine if an SMAP is necessary: on Oahu, call 527-5374; on Hawaii, call 961-8288; for Maui
   county, call 270-7236; on Kauai, call 241-6677.
   • Not Required
   If required, date approved

9. REMARKS, EXPLANATIONS:
   If the well is successful, it will become the primary source of drinking water for Honomu Village.
   If more space is needed, please attach additional sheet.

NOTE: Signing below indicates the signatories understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) 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 $1,000 per day.

Well Owner
Landowner
Water Board of the County of Hawaii
Contractor
Signature
Signature
Signature
Date
Date
Date
For official use only
Latitude
Aquifer System No.
Longitude
State Well No.
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter (in)</th>
<th>Wall Thickness (in)</th>
<th>Grade</th>
<th>Schedule</th>
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<tr>
<td>Stainless Steel</td>
<td>12</td>
<td>0.3125</td>
<td>304L</td>
<td>Schedule 40</td>
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<tr>
<td>PVC Plastic conforming to ASTM F490 and ASTM D1527:</td>
<td>12</td>
<td>0.3125</td>
<td>304L</td>
<td>Schedule 40</td>
</tr>
</tbody>
</table>

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): ANSI/AWWA C200, API Spec. 5L, ASTM A53, ASTM A139
- Stainless Steel: (check one): ASTM A409 (production wells), ASTM A312 (monitor wells)
- PVC Plastic conforming to ASTM F490 and ASTM D1527: (check one): Schedule 40, Schedule 80

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

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more): ANSI/AWWA C200, API Spec. 5L, ASTM A53, ASTM A139
- Stainless Steel: (check one): ASTM A409 (production wells), ASTM A312 (monitor wells)
- PVC Plastic conforming to ASTM F490 and ASTM D1527: (check one): Schedule 40, Schedule 80

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 = \((\text{Water Elevation} - 4 \times \text{Aquifer Thickness})\)

Example: Estimated + 2 ft. Water Level Elev. = Bottom Elevation of Well Limit = \((2 - 4 \times 0.01)\) = +1.8 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/Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

**Open Casing:**
- Length: 10 ft.
- Diameter: 11 in.
- Bottom Elevation: -34 ft. msl*

**Annular space between hole and casing (min.3):**
- 3+ in.

**Solid Casing:**
- Total Length: 510 ft.
- Nominal Diameter: 12 in.
- Wall Thickness: 0.375 in.
- Bottom Elevation: +6 ft. msl*

**Cement Grout:**
- Total Depth: 550 ft.
- Elevation at top of casing: 518 ft. msl

**Estimated Water Level Elevation:**
- 4 ft. msl*

**Minimum of 2' Radius & 4' Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**
- Ground Elevation: 516 ft. msl*

**Rock or Gravel Packing:**
- None

**Hawaii Well Construction and Pump Installation Standards**

Please refer to the standards to ensure that your as-built is in compliance with applicable standards.

---

*Note: Neither bentonite nor mud should be used in annular space during drilling.*
MAP SHOWING
CONSOLIDATION OF "PARCEL 5" AND "TANK SITE"
AND RESUBDIVISION INTO "REMAINDER LOT" AND "TANK AND WELL SITE"
BEING PORTIONS OF GRANT 897 TO MAHUKA,
GRANT 871 TO KAMAKAHELEPO AND GRANT 970 TO P. FREEMAN
SITUATED AT HONOMU, SOUTH Hilo, HAWAII
TMK: 3rd Div. 2-8-13: 5 AND 55

SCALE IN FEET

ENGINEERING DIVISION
DEPARTMENT OF WATER SUPPLY
COUNTY OF HAWAII

SUBMITTED BY: ________________________________ DATE: ________________________________

APPROVED BY: ________________________________ DATE: ________________________________

Licensed Professional Land Surveyor
Certificate Number 7604
July 22, 1999
<table>
<thead>
<tr>
<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
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Thursday, May 08, 2003
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