Well No. 1229-02
Pahala Deep Well
Ms. Yvonne Y. Izu, Deputy Director  
State of Hawai‘i  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809  

PAHALA DEEP WELL NO. 2 (STATE WELL NO. 1229-02)  
WELL CONSTRUCTION PERMIT  

We are submitting an executed well construction permit as required.  

If you have any questions, please contact Mr. Keith Okamoto of our Engineering Division at (808) 961-8070, extension 260.  

Sincerely yours,  

Milton D. Pavao, P.E.  
Manager  

KKO:sco
WELL CONSTRUCTION PERMIT
Pahala Deepwell #2, Well No. 1229-04

Note: This permit shall be prominently displayed at the site until the work is completed

In accordance with the 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 Pahala Deepwell #2 (Well No. 1229-04) at Pahala, Hawaii, TMK 9-6-005: 048, 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 of any permit condition that the permittee, well owner, and/or well owner shall coordinate with the Chairperson to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conducting a pumping test in accordance with the Standards (a pumping test worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an installation to apply 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.

2. The well construction permit shall be for construction and testing of the well only. A minimum 14-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conducting a pumping test in accordance with the Standards (a pumping test worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an installation to apply 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 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 immediately and contact the Department’s Historic Preservation Program.

4. 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 comparative water rights.

5. 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.

6. 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.

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

8. The permit may be revoked by the Chairperson 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 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.

9. 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.

10. 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 relating to or connected with the granting of this permit.

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

Date of Approval: August 2, 2004
Expiration Date: August 2, 2006

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: 9/29/04
Printed Name: Hilton D. Pavao, P.E. Firm or Title: Manager, Dept. of Water Supply
County of Hawaii

Driller's Signature: ___________________________ Date: 9/29/04
C-57 License #: C-16550
Printed Name: ___________________________ Date: 9/29/04
C-10369
Firm or Title: Waiakea Div. & Field

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

Attachment

USGS
Department of Health V Safe Drinking Water, Wastewater, and Clean Water Branches
<table>
<thead>
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<td>Approval</td>
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<td>CHING, F.</td>
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<td>NAKAMA, L.</td>
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NO Attachments

Note: Send in Memorial Attachments will be made by 7/29/04. See Thanks Susan!
July 26, 2004

Ms. Yvonne Y. Izu, Deputy Director
State of Hawai‘i
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

PĀHALA DEEP WELL NO. 2 (STATE WELL NO. 1229-02)
WELL CONSTRUCTION PERMIT

We are submitting a new well construction permit along with the following attachments:

• Tax Map Key map,
• Site plan,
• Portion of United States Geological Survey quad map, and
• Consolidation/resubdivision plat map.

It is our understanding that we are exempt from the $25.00 filing fee.

If you have any questions, please contact Mr. Keith Okamoto of our Engineering Division at (808) 961-8070, extension 260.

Sincerely yours,

Milton D. Pavao, P.E.
Manager

KKO:sco

...Water brings progress...

The Department of Water Supply is an Equal Opportunity provider and employer. To file a complaint of discrimination, write: USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington DC 20250-9410. Or call (202) 720-5964 (voice and TDD)
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**PLEASE:**
- Approval
- Signature
- Information

- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox ____ copies

**Which did you see issued yellow copy?**  
**NO**
December 16, 2003

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

WELL CONSTRUCTION PERMIT TO ABANDON/SEAL
PAHALA DEEP WELL NO. 2 (STATE WELL NO. 1229-02)

We are forwarding the signed well construction permit for your use.

If you have any questions, please contact Mr. Keith Okamoto of our Engineering Division at (808) 961-8070, extension 260.

Sincerely yours,

Milton D. Pavao, P.E.
Manager

KKO:seo

Enc.
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

PACSIMILE TRANSMITTAL SHEET

TO: Ryan Imata
FROM: Keith Okamoto
COMPANY: DLNR-CWRM
DATE: 12/19/03
FAX NUMBER: (808) 587-0219
TOTAL NO. OF PAGES INCLUDING COVER:
PHONE NUMBER: (808) 587-0255
SENDER'S PHONE NUMBER:

RE: Pahala Deep Well No. 2 (State Well No. 1229-02) Well Abandonment Report

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

NOTES/COMMENTS:
Ryan,

Faxing over well abandonment report filled out by Oasis and signed by both parties.
Hard copy to follow in the mail.

Happy Holidays!
Keith

fax copy – Steve Goldberg, Oasis Water (fax. no. 808-828-0778)

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

WELL ABANDONMENT REPORT

Instructions: Please print in ink, or type and sign completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96822. The Commission may not accept incomplete reports. This form must be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 808-586-0220. For further information and updates to this application form, visit http://www.state.hi.us/dlnr/wrm.

1. State Well No. 1239-02   Well Name: Pahana Deep Well #2
2. Location/Address: Island: Hawaii TMK: 9-6-005, 48
3. Contractor: Oasis Water  Name of driller who performed work: Steve Goldstein
4. Type of Rig/Construction: Fig. 2 Name of driller who performed work: Steve Goldstein

Date of well sealing completion: 12-17-03

Finished Grade Elevation:

Casing Diameter 24" ft.

Check Material Used:

Grout Seat:  Yes  Finished:

Foundation lift 1.1

Measured Depth of Blasted Casing: — ft.

Total Measured Depth 260 ft.

Measured Depth of perforated Casing: — ft.

Measured Depth of Open Hole 260 ft.

Remarks:

Unconsolidated pump concrete mix from bottom to top. Filled with large void with rock chips (140 to 150) below ground surface. 56+ yards of concrete mix

Well Abandonment Contractor (print): Oasis Water
C-57 Lic. No.: 21457
Signature: Date: 12-18-03

Applicant (print): DURAND ANTONIO Dep. Manager
Signature: Date: 12-18-03

WAR Form (2/2002)
FACSIMILE TRANSMITTAL SHEET

TO: Ryan Imata  
FROM: Keith Okamoto  
COMPANY: DLNR - CWRM  
DATE: 12/12/03  
FAX NUMBER: (808) 587-0219  
PHONE NUMBER: (808) 587-0255  
TOTAL NO. OF PAGES INCLUDING COVER: 2  
SENDERS PHONE NUMBER: 961-8070 ext. 260  
RE: Well Construction Permit to Abandon/Seal

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

NOTES/COMMENTS:

Ryan,  
Faxing over signed permit for your use.  
Hard copy to follow.  

Thanks,  
Keith  

Fax copy - Steve Goldberg, Oasis (fax # 828-0718)

...Water brings progress...
Ref: 1229-02.wap

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

Dear Mr. Pavao:

Well Abandonment Permit  
Pahala Deep Well No. 2 (Well No. 1229-02)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

**Special Conditions**

1. No special conditions

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that your licensed contractor, submits a completed Well Abandonment 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 $1000 per day for any violations of your permit conditions.

Also, because you are not intending to complete the well, we are canceling your original Well Construction Permit.

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

c: Steve Goldberg, Oasis Water Systems
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Pahala Deep Well No. 2, Well No. 1229-02

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 abandonment/sealing of Pahala Deep Well No. 2 (Well No. 1229-02) at Pahala, Hawaii, TMK 9-6-005: 048, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences.

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

5. The permittee shall comply with all applicable laws, rules, and ordinances.

6. The sealing shall be completed within two (2) years.

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

Date of Approval: December 11, 2003
Expiration Date: None

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. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: _______________________________ Date: _______________
Printed Name: _______________________________ Firm or Title: _______________________________
Contractor's Signature: _______________________________ 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/ Safe Drinking Water, Wastewater, and Clean Water Branches
Hawaii Department of Water Supply
Steve Goldberg, Oasis Water Systems
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE

FROM: RYAN 
DATE: 12/19/03 
SUSPENSE DATE: ______________________

TO: ANAKALEA, P. 
INIT: 
TO: LAU, E. 
INIT: 
FOR: Approval 
PLEAS: See Me 
Review & Comment 
Accept 
Type Draft 
Take Action 
Final 
File 
Xerox copies

HARDY, R. 
INIT: 
SAKODA, E. 
INIT: 
SUBIA, S. 
INIT: 
ICE, C. 
INIT: 
YODA, K. 
INIT: 
KUNIMURA, I. 
INIT: 

WELL NUMBER 1229-02 
WELL NAME P balcon Deep Well 

WELL CONSTRUCTION ABANDONMENT

ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:
1 COVER LETTER 
2 PERMIT (2x) 
3 SDWB 
4 WWB 
5 CWB 
6 HEER 
7 LD 
8 HP 
9 PUMP TEST 
10 WCR I FORM 
11 WELL CHECK PRINTOUT

TO BE SENT TO APPLICANT
FOR OFFICE USE ONLY

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

TO BE SENT TO APPLICANT
FOR OFFICE USE ONLY

They want to start work on Monday, 12/15

Need to also cancel existing permit? Changing location?

Fax to: Steve @ Oasis
828-0778
Dept. of Water Supply attn: Keith Okamoto
961-8080
TO: Ryan Imata  FROM: Keith Okamoto
COMPANY: CWRM  DATE: 12/09/03
FAX NUMBER: (808)587-0219  TOTAL NO. OF PAGES INCLUDING COVER: 3
PHONE NUMBER: 961-8070 ext. 260
RE: Pahala Deep Well No. 2 – State Well No. 1229-02

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

NOTES/COMMENTS:

Ryan,

Here’s the signed permit application.

Let me know if need anything else.

Thanks,

Keith

fax copy – Steve Goldberg, Oasis (fax 808-828-0778)

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

D Well Construction and/or D Pump Installation

Instructions: Please print in ink only and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96816. Application must be accompanied by $250 fee and a notarized letter of authorization of the Department of Land and Natural Resources, The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-668-4122.

APPLICANT INFORMATION (circle all that apply, if applicable, and place a check mark in the primary contact)

1. (a) WELL OWNER: COUNTY OF HAWAII
   Contact Person: MILTON PAVAO Phone: 481-7570
   Mailing Address: 1105 E. KAWALLA ST., H-20
   Land, HI 96714
   Fax: 941-5801
   Email: 

   (b) LAND OWNER: COUNTY OF HAWAII
   Contact Person: MILTON PAVAO Phone: 481-7570
   Mailing Address: 1105 E. KAWALLA ST., H-20
   Land, HI 96714
   Fax: 941-5801
   Email: 

   (c) CONTRACTOR: OAHU WELL DRILLING
   Contact Person: STANLEY CANO Phone: 629-3521
   Mailing Address: 10421 SW. VISTA DR., H-20
   Land, HI 96714
   Fax: 941-5801
   Email: 

WELL & PUMP INFORMATION:
(Please fill in the diagram on the back of this form)

2. WELL NAME: DEEPWELL-4
   Island: HAWAII
   Address: DEPULZD WATER Supply, HAWAII WATER WORKS
   Tax Map Key: 9-1-9-1-D
   Zone - Sec - FILT - Parcel

   Attach (a) electronic map with a map scale 1:24,000 with well location labeled and include the name of the quad map
   (b) property tax map, signing in location reference to established property boundaries

3. PROPOSED WORK:
   (check all that apply)
   ☐ Combined New Well
   ☐ Instal New Pump
   ☐ Modify Existing Well
   ☐ Modify Pump
   ☐ Abandoned

4. CONSTRUCTION:
   ☐ Drilled
   ☐ Dig
   ☐ Blast
   ☐ Laid
   ☐ Yes ☐ No (Please describe)

5. PROPOSED PUMPING RATE:
   __________ gallons per minute

6. PROPOSED USE:
   (check all that apply)
   ☐ Municipal (including hotels, stores, etc.)
   ☐ Industrial
   ☐ Domestic (including, non-commercial water supply)
   ☐ No

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   __________ gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   ☐ Piezometric
   ☐ Open Pipe
   ☐ Well
   ☐ Other (please specify)

8. LEGAL REQUIREMENTS:
   ☐ Required, these panels must be obtained before the Commission can legally issue a permit
   ☐ Not Required

   Construction District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 808-684-1100
   ☐ Not Required

   Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OECD at 808-1105
   ☐ Not Required

   Special Management Area Permit (SMAP) To determine if an SMAP is necessary, call DLNR, call 808-684-1100, on Maui, call 808-684-1100, on Maui for Land Use, call 270-7220 on Kauai, call 241-6677.
   ☐ Not Required

9. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates the signatures understands and agrees that the information provided on the application is true and correct to the best of their knowledge. Further, the signatures understand that approval of the application attaches the following conditions: 1) the proposed work is to be completed within 1 year; 2) the contractor shall submit to the Commission a well completion report within 60 days after the completion date of the permitted work; 3) any water use data shall be certified by the contractor; 4) any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance and any work done within the permit is in compliance

Well Owner: MILTON D. PAVAO
Date: 12-1-02

Other important information:

For critical use only

For critical use only

Latitude: Aquifer System No.
Longitude: State Well No.

Signature: Date: 12-9-03

FORM WRP-2001 2/3
Ref: 1229-02.wcp

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

Dear Mr. Pavao:

Well Construction Permit
Pahala Deepwell 2 (Well No. 1229-02)

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 (1/23/97) 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 $1000 per day for any violations of your permit conditions starting from the permit approval date.

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

Sincerely,

[Signature]

Peter T. Young
Chairperson

Enclosures
OvELL CONSTRUCTION PERMIT

Pahala Deepwell 2, Well No. 1229-02

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 Pahala Deepwell 2 (Well No. 1229-02) at Pahala, Hawaii, TMK 9-6-005: 048, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The well construction permit shall be for construction and testing of the well only. A minimum 1 1/4-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a 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 (January 23, 1997; 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 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: June 5, 2003
Expiration Date: June 5, 2005

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 $1000 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/Safe Drinking Water, Wastewater, and Clean Water Branches
Hawaii Department of Water Supply
Date: June 9, 2003

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

Attn: Ryan Sato

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

Subject: Well Construction/Pump Installation Permit/Water Use Permit for

Well No. 3055-01 (3) 8-1-4:54
1229-02 (3) 9-6-5:48

Please find enclosed the application of the above subject project.
May 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Pahala Deep Well 2 (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 30, 2003. 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, §11-20-10.

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

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

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

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

An NPDES permit is required.

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

No comments/objections

Contact Person: Lori N. Kajiwara Phone: 586-4294

Signed: Lori N. Kajiwara Date: 5-23-2003
April 30, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
Kalukalu Irrigation Well (Well No. 3055-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 23, 2003. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

R:s
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, §11-20-20.

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

3. If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and 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.

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 [ ] not located near the proposed well site (information attached).

6. An NPDES permit is required.

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

No comments/objections

No Records Found

Contact Person: Len N. Kajiwara
Phone: 586-4294
Signed: Len N. Kajiwara
Date: 5-23-2003
Date: June 5, 2003  Total Pages: 3

To: Ryan Imata
Wastewater Commission

Phone: 587-0255  Fax: 587-0219

From: Lori Kajiwara
planning/design section

Message:

(3) 9-1-4:54  # 305501

(3) 9-6-5:48  # 1229-02

Hard copy sent 9:23
Will re-mail via messenger.

Sorry for the mix-up/delay.  Lori

as of January 8, 2003 Mail Info Sheet.wpd LB
## MISSION ON WATER RESOURCE MANAGEMENT

**ROUTE SLIP FOR PERMIT ISSUANCE**

**FROM:** RYAN ANAKALEA, P. BAUER, G. CHING, F. DANBARA, S. FUJII, N. GOODING, K. HARDY, R. HIGA, D. ICE, C. IMATA, R. KUNIMURA, I. 

**DATE:** _____

**TO:** LAU, E. MATHIAS, T. NAKAMA, L. NAKANO, D. OHYE, M. SAKODA, E. SUBIA, S. SWANSON, S. UYENO, D. YODA, K. YOSHINAGA, M. 

**PLEASE:** See Me Review & Comment Take Action Type Draft Type Final File Xerox copies

### WELL NUMBER

<table>
<thead>
<tr>
<th>WELL NUMBER</th>
<th>122002</th>
</tr>
</thead>
</table>

### WELL NAME

<table>
<thead>
<tr>
<th>WELL NAME</th>
<th>2-hole Deepwell 92</th>
</tr>
</thead>
</table>

### WELL CONSTRUCTION

**WELL CONSTRUCTION**

**ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:**

1. COVER LETTER [✓]
2. PERMIT (2x) [✓]
3. SDWB [S120]
4. WWB [S115]
5. CWB [S110]
6. HEER [S115]
7. LD [S115]
8. HP [S115]
9. PUMP TEST [✓]
10. WCR I FORM [✓]
11. WELL CHECK PRINTOUT [✓] 

**TO BE SENT TO APPLICANT**

**FOR OFFICE USE ONLY**

### PUMP INSTALLATION

**ATTACHMENTS FOR PUMP INSTALLATION PERMIT:**

1. COVER LETTER
2. PERMIT (2x)
3. SDWB
4. WWB
5. CWB
6. HEER
7. LD
8. HP
9. WCR II FORM
10. WUR FORM
11. GLENN'S WORKSHEET

**TO BE SENT TO APPLICANT**

**FOR OFFICE USE ONLY**
### SECTION 1: WELL LOCATION INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>#N/A</th>
<th>Aquifer System</th>
<th>#VALUE!</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Aquifer Sector</td>
<td>#VALUE!</td>
</tr>
</tbody>
</table>

### SECTION 2: WELL SECTION DATA  (enter data in grey cells only)

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>1114 ft., m.s.l.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Elevation</td>
<td>1112 ft., m.s.l.</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>675 ft.</td>
</tr>
<tr>
<td>Rock Packing</td>
<td>0 ft.</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>22 in.</td>
</tr>
<tr>
<td>Total Depth</td>
<td>975 ft.</td>
</tr>
</tbody>
</table>

| Estimated Head             | 383.6 ft., m.s.l. |
| Calculated Aquifer Thickness| 15729 ft.        |

| County Water Supply (Y/N ?) | YES |

### SECTION 3: CHECKLIST  (values to check are shaded)

**Well Depth**
- Theoretical Thickness of Aquifer: 15729 ft.
- 1/4 Aquifer Thickness: 3932 ft.
- Depth of Well below Sea Level: -137 ft.

**Well Casing**
- Minimum Wall Thickness: 
  - Steel county
  - Minimum Thickness per standards: 0.375 in.
  - Wall Thickness Provided: 0.375 in.
- Minimum Length of Solid Casing: 655.5 ft.
- Length of solid casing Provided: 875 ft.
- Casing Material: ASTM A53

**Annular Space**
- Depth of Grouting: 
  - Calculated Depth of Grouting: 500 ft.
  - Depth of Grouting provided: 875 ft.
- Thickness of Annular Space: 3 in.
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 287
HONOLULU, HAWAII 96813

May 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
Puna Deep Well 2 (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 30, 2003. 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.

Rf: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 shall receive Director of Health approval to be use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-20.

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 UH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: Lori N Kajiwara
Phone: 908-4294

Signed: Lori N. Kajiwara
Date: 5-23-2003
TO: Holly McEldowney, Acting Administrator
    Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
    Pahala Deep Well 2 (Well No. 1229-02)

May 6, 2003

Transmitted for your review and comment is a copy of the captioned Well
Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the
programs, plans, and objectives specific to your division. **Please respond by returning this
cover memo form by May 30, 2003.** 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:

[ ] 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: 5-30-03

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
Pahala Deep Well 2 (Well No. 1229-02)

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**RI:ss**

**Attachment(s)**

**RESPONSE:**

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

[ ] 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 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 [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:** Lon N. Kajiwara

**Phone:** 586-4194

**Signed:** Lon N. Kajiwara

**Date:** 5-23-2003
May 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
   Pahala Deep Well 2 (Well No. 1229-02)

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RESPONSE:

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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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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:             Date: MAY 16 2003
May 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
Pahala Deep Well 2 (Well No. 1229-02)

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

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

1. An NPDES permit is required.

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

xx. No comments/objections.

Contact Person: Dr. Keith Kawaoka
Phone: 586-4249

Signed: ___________________________

Fax to: Commission on Water Resources Mgt. 587-0219
TO: Honorable Chiyoue L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
Pahala Deep Well 2 (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 30, 2003.

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 Imao of the Commission staff at 887-0266.

RI: ss
Attachment(s)

RESPONSE:

This well qualifies as a source which will serve as a source of public water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to 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 prevention by physically separating potable and non-potable systems by an air gap of 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) is not located near the proposed well site (information attached).

An NPDES permit is required.

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

No comments/objections

Contact Person: Alec Wong
Phone: 586-4309

Signed: Alec Wong
Date: 5/13/03

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96820

May 6, 2003
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/cr
May 6, 2003

TO: Dede Mamiya, Administrator
Land Division

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

SUBJECT: Well Construction/Pump Installation Permit Application
Pahala Deep Well 2 (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by May 30, 2003. 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.

[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 Land Commission Award No. 7312:2 issued between 1845 and 1855.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: MAY 20 2003
### PUBLIC RECORD DATA

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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

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

Dear Mr. Pavao:

Well Construction/Pump Installation Permit Application for Well No. 1229-02

We acknowledge receipt, on May 2, 2003, of your completed Well Construction/Pump Installation permit application and filing fee for the Pahala Deep Well 2 (Well No. 1229-02). You can expect your application to be processed within ninety (90) days from this date.

For your information, the process of constructing a well is normally regulated and permitted in two (2) steps. First, a well construction permit is issued for drilling and testing purposes only. Based upon information provided by you through a Well Completion Report Part 1 (Well Construction), a pump installation permit (upon completed application) may then be issued to authorize pump work. If a pump is installed then a Well Completion Report Part 2 (Pump Installation) is required.

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

Sincerely,

[Signature]

ERNEST Y.W. LAU
Deputy Director

RI:ss
May 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Pahala Deep Well 2 (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 30, 2003. 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 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: ____________
May 6, 2003

TO: Dede Mamiya, Administrator
   Land Division

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

SUBJECT: Well Construction/Pump Installation Permit Application
          Pahala Deep Well 2 (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned Well
Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the
programs, plans, and objectives specific to your division. Please respond by returning this
cover memo form by May 30, 2003. 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: ______________________
May 6, 2003

TO: Holly McEldowney, Acting Administrator
    Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
        Pahala Deep Well 2 (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by May 30, 2003. 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: ___________
**State of Hawaii**
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**Department of Land and Natural Resources**

**APPLICATION FOR PERMIT**

X: Well Construction  and/or  D: Pump Installation

**APPLICATION INFORMATION:** (Fill out all three, if applicable, and place a check next to the primary contact)

1. (a) \(•\) WELL OWNER: Water Board, County of Hawaii  
   Milton Pavao  
   Phone: (808) 961-8050
   Mailing Address: 345 Kekuanana St., Suite 20, Hilo, HI 96720  
   Fax: (808) 961-8657  
   E-mail: dws@hawaiidws.org

2. WELL NAME: Pahala Deep Well No. 2  
   Mailing Address: same as above  
   Phone: (808) 961-8050
   Fax: (808) 961-8657
   E-mail: _______  
   Lic #: _______  

**WELL & PUMP INFORMATION:** (Please fill in the diagram on the back of this form.)

2. WELL NAME: Pahala Deep Well No. 2  
   Island: Hawaii  
   Address Pahala, Kau, Hawaii  
   Tax Map Key:  
   Zone: 9  
   Sec: 6  
   Plat: 005  
   Parcel: 048  

   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 quad map  
   (b) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK:  
   (check all that apply)
   X: Construct New Well  
   \(\Box\) Modify Existing Well*  
   \(\Box\) Abandon/Seal*  
   \(\Box\) Install New Pump*  
   \(\Box\) Modify Pump*  
   \(\Box\) Other (describe)______  

   *State Well No.: 1229-02  
   (if unknown, please call Commission at 587-0225)

4. CONSTRUCTION:  
   \(\Box\) Drilled  
   \(\Box\) Dug  
   \(\Box\) Shaft  
   \(\Box\) Tunnel  
   Is this well part of a battery of wells?  \(\Box\) Yes  \(\Box\) No (Please describe)

5. PROPOSED PUMPING RATE:  
   400 gallons per minute

6. PROPOSED USE:  
   \(\Box\) Municipal (including hotels, stores, etc.)  
   \(\Box\) Domestic (individual, noncommercial water system)  
   \(\Box\) Irrigation (crop)  
   \(\Box\) Industrial  
   \(\Box\) Other (explain):______  

   Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections?  \(\Box\) Yes  \(\Box\) No

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:  
   576,000 gallons per day  
   \(\Box\) Flowmeter  
   \(\Box\) Open-pipe  
   \(\Box\) Weir  
   \(\Box\) Office  
   \(\Box\) 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
   \(\Box\) Not Required  
   If required, date approved _______  

   Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEC at 585-4165
   \(\Box\) Not Required  
   If required, date published in OEC bulletin _______  

   Special Management Area Permit (SMAP) To determine if a SMAP is necessary, call Oahu, 527-5374; on Hawaii, 961-8288; for Maui, 270-7235; on Kauai, 241-6677.
   \(\Box\) Not Required  
   If required, date approved _______  

9. REMARKS, EXPLANATIONS:

For official use only

Latitude_________________________  
Longitude_________________________  
Aquifer System No.: 80503  
State Well No.:  

WCPA Form 8/21/01
For Solid ASS Carbon Stainless Thermoset Plastic, PVC Plastic conforming to ANSI/AWWA C200, and compliant with applicable standards. Steel: (check one) ASTM A416 (production wells) or ASTM A412 (monitor wells)

For oil or gas wells:
- Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)
- Ground Elevation: 1112 ft., msl*

Total Depth: 975 ft.

Estimated Water Level Elevation: 383.63 ft., msl*

Hole Diameter: 22 in.

Cement Grout: 875 ft. (min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

Annular Space between hole and casing (min.3"):
- 3 in.

Rock or Gravel Packing:
- Material: 0 ft.
- Crushed Basalt
- Rounded Gravel

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

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev.))
- Total Length: 875 ft.
- Nominal Diameter: 16 in.
- Wall Thickness: 0.375 in.
- Bottom Elevation: 237 ft., msl*

Open Casing:
- Perforated
- % Screen

Open Hole:
- Length: 50 ft.
- Diameter: 13 in.
- Bottom Elevation: 137 ft., msl*

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
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Please: Xerox copies

Note: CPA & attachments not attached. Let them know.
We don't want to be accused of "losing" things again.
April 28, 2003

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

PAHALA DEEP WELL NO. 2 (STATE WELL NO. 1229-02)  
WELL CONSTRUCTION PERMIT

We are submitting a new well construct permit along with the following attachments:

- Tax Map Key map,  
- Site plan,  
- Portion of USGS quad map, and  
- Consolidation/resubdivision plat map.

It is our understanding that we are exempt from the $25.00 filing fee.

If you have any questions, please contact Mr. Keith Okamoto of our Water Quality Assurance and Control Branch at (808) 961-8670.

Sincerely yours,

Milton D. Pavao, P.E.  
Manager

KKO:sco

... Water brings progress...
April 28, 2003

Sorry, I neglected to include the enclosures with the original letter that was mailed on 4/29/03.

D. Shirota
Secretary

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

PAHALA DEEP WELL NO. 2 (STATE WELL NO. 1229-02)
WELL CONSTRUCTION PERMIT

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If you have any questions, please contact Mr. Keith Okamoto of our Water Quality Assurance and Control Branch at (808) 961-8670.

Sincerely yours,

Milton D. Pavao, P.E.
Manager

KKO:sco

... Water brings progress...
Mr. Milton Pavao  
County of Hawaii  
Department of Water Supply  
25 Aupuni Street  
Hilo, HI 96720

Dear Mr. Pavao:

Well Construction Permit for Well No. 1229-02

We have not yet received a Well Completion Report for the Pahala Deepwell #2 (Well No. 1229-02). Your permit expired on September 30, 2002 after two extensions. In our letter to your office dated July 15, 2002, which approved your second extension, we stated that “since this is your second extension, if you cannot complete the well by the new deadline, you will need to apply for a new permit”. Therefore, we are canceling your permit. If you wish to complete this well, please complete and return a new Well Construction Permit application.

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

Sincerely,

ERNEST Y.W. LAU  
Deputy Director

RI:ss
June 25, 2002

Mr. Milton Pavao  
County of Hawaii  
Department of Water Supply  
25 Aupuni Street  
Hilo, HI 96720

Dear Mr. Pavao:

Well Completion Report for Well No. 1229-02

This is in response to your request for an extension of your Well Construction Permit for the Pahala Deepwell #2 (Well 1229-02). Your permit is extended until July 9, 2002.

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

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director

RI:ss
7) KA’U:

A. JOB NO. 95-634, CONSTRUCTION OF THE PAHALA DEEP WELL #2
EXPLORATORY WELL DRILLING:

Due to the delay of the executed drilling permit to the State of Hawaii, Commission on Water Resource Management, the contractor could not begin drilling for the first 10 calendar days of the contract. In addition, on May 10, 2002, there was rain with lightning; and the contractor could not safely work. For the Board’s information, the contractor, Oasis Water Systems, Inc., had completed approximately 25% of the contract work as of May 31, 2002.

RECOMMENDATION: It is recommended that the Board grant this extension of the contract time of 11 calendar days to Oasis Water Systems, Inc., for JOB NO. 95-634, CONSTRUCTION OF THE PAHALA DEEP WELL #2 EXPLORATORY WELL DRILLING. If approved, the contract completion date will be extended from June 28, 2002, to July 9, 2002.

8) MISCELLANEOUS:

A. DEDICATION OF WATER SYSTEMS:

The Department received the following documents for action by the Water Board. The water systems have been constructed in accordance with the Department’s standards and are in acceptable condition for dedication.

1. GRANT OF EASEMENT AND BILL OF SALE
“KAPIKO ESTATES SUBDIVISION”
EWO NO.: 2002-038
Grantor/Seller: Dale Anthony Da Silva
TMK: (3) 5-5-002: 012
Lots: 10
Zoning: A-3a
Facilities Charge: $34,800
Water System Cost: $67,972

2. GRANT OF EASEMENT
University Heights West, Unit 2 (Master Meter)
EWO NO.: 2002-048
Grantor: University Parkside, LLC, a Hawaii limited liability company
TMK: (3) 7-3-056: 035 Portion
Facilities Charge: $47,850 CAF: $5,500

RECOMMENDATION: It is recommended that the Board accept these documents subject to the approval of the Corporation Counsel and that either the Chairman or the Vice-Chairman be authorized to sign the documents.

B. CONTRACT FOR SPECIAL LEGAL COUNSEL:

Our current contract for Special Counsel to the Department and Board will expire on June 30, 2002. To provide for continued Special Counsel, we have gone through the Procurement procedures and have selected Sherman S. Hee, attorney at law, to provide special counsel to the Department and Board for a contract period from July 1, 2002, through June 30, 2003. The proposed scope of work and compensation provisions are as follows:
DEPARTMENT OF WATER SUPPLY  
COUNTY OF HAWAII  

AGENDA  
WATER BOARD MEETING

MEETING DATE: June 25, 2002  
PLACE: Department of Water Supply, Operations Center Conference Room  
TIME: 10:00 a.m.  

(Note: Please turn cell phones, pagers, and other mobile communication devices on silent mode.)  

1) CALL TO ORDER – 10:00 a.m.  

2) STATEMENTS FROM THE PUBLIC  

3) APPROVAL OF MINUTES - May 28, 2002, Water Board Meeting  

4) APPROVAL OF ADDENDUM AND/OR SUPPLEMENTAL AGENDA (if necessary)  
(Note: Addendum requires Roll Call Vote)  

5) PUNA:  

A. REFUND FOR EXTENSIONS TO DEVELOPMENT; OFF-SITE WATERLINE IMPROVEMENTS FOR IRRADIATED FRUIT PROCESSING FACILITY, TAX MAP KEY 1-6-003:032 AND 066; AGREEMENT BETWEEN WATER BOARD AND HAWAII PRIDE, INC.:  

Background: Hawaii Pride, LLC, as part of their development of Tax Map Key 1-6-003:032 and 066, installed an 8-inch waterline and other appurtenances within Milo Street at a cost of $58,275.00. Inasmuch as this extension is in substantial conformance with the Department’s overall master plan, is at least 8 inches in diameter, and services the general area; a refund in accordance with the conditions of the REFUND FOR EXTENSION TO DEVELOPMENT (approved by Water Commission on July 1, 1987) are applicable.  

RECOMMENDATION: It is recommended that the Board approve the refund for extension to Hawaii Pride, LLC, and authorize the Chairman or the Vice-Chairman to sign the refund agreement subject to review and approval of the Corporation Counsel.  

6) SOUTH HILO:  

A. JOB NO. 2001-786, CONSTRUCTION OF THE WAIKEA OFFICE PLAZA FACILITY LANDSCAPE IMPROVEMENTS:  

Bids will be opened on June 20, 2002, at 2:00 p.m. A report and recommendation will be provided at the meeting.
Mr. Milton Pavao  
Department of Water Supply  
County of Hawaii  
345 Kekuanawoa Street  
Hilo, HI 96720

Dear Mr. Pavao:

Well Completion Report for Well No. 1229-02

We received your request for extension for the completion date for the Pahala Exploratory Well #2 (Well No. 1229-02) on July 1, 2002. Your request for extension is granted. Your new completion date is September 30, 2002. Since this is your second extension, if you cannot complete the well by the new deadline, you will need to apply for a new permit.

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

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director

RI:ss  
c: Waimea Water Services
June 28, 2002

Mr. Timothy E. Johns, Chairperson
Commission on Water Resource Management
State of Hawaii
Department of Land and Natural Resources
Division of Water Resource Management
P.O. Box 621
Honolulu, HI 96809

REQUEST TO REVISION OF WELL CONSTRUCTION EXPIRATION DATE
CONSTRUCTION PERMIT WELL #1229-02
PAHALA EXPLORATORY WELL #2
TAX MAP KEY 9-6-005:048

We are asking for a second time extension of roughly three months for the subject construction permit. If approved, then the expiration date would be revised from July 9, 2002, to September 30, 2002. Our contractor, Oasis Water Systems, Inc., has encountered some problems. They have been working overtime throughout the contract, but progress has not been as anticipated.

If you have any questions, please contact Mr. Bruce McClure at our Water Resources and Planning Branch at 961-8070, extension 255.

Sincerely yours,

Milton D. Pavao, P.E.
Manager

BCM:dms

copy - Mr. John Stubbart, Waimea Water Services, Inc.
Mr. Clarence Cabatbat, DWS Project Inspector
Dear Sir,

Please be advised that Oasis Water, Inc. License No. C-21457, We will begin work on well #1229-02 in a few weeks.

Sincerely,

Steve Goldberg
Oasis Water inc. C-21457
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No 3 months, but at least before expiration. Per draft response.
February 27, 2002

Mr. Timothy E. Johns, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
Division of Water Resource Management
State of Hawaii
P. O. Box 621
Honolulu, HI 96809

REQUEST TO REVISION OF WELL CONSTRUCTION EXPIRATION DATE
CONSTRUCTION PERMIT WELL #1229-02
PAHALA EXPLORATORY WELL #2
TAX MAP KEY: 9-6-005:048

We are asking for a three-month time extension for the subject construction permit. If approved, then the expiration date would be revised from May 4, 2002, to July 31, 2002. Our contractor, Oasis Water Systems, Inc., faxed a copy of the executed permit to your office on February 25, 2002, so they will start drilling on March 11, 2002. Since the contract is for 120 calendar days, the requested new expiration date is needed.

For your information, the correct Tax Map Key is 3rd Div. 9-6-005:048. The Department bought a portion of the adjoining land from Ka’u Agribusiness Company, Inc., and had it legally consolidated with the existing well and reservoir site on Tax Map Key 9-6-005:048.

If you have any questions, please contact Mr. Bruce McClure at our Water Resources and Planning Branch at 961-8070, extension 255.

Sincerely yours,

Milton D. Pavao, P.E.
Manager

BCM: jkh

copy - Mr. John Stubbart, Waimea Water Services
Mr. Clarence Cabatbat

...Water brings progress...
CONSOLIDATION AND RESUBDIVISION MAP

LAND SITUATED AT HIONAMOA, KA'U,
ISLAND OF HAWAII, HAWAI'I.

BEING LAND COMMISSION AWARD 7312,
APANA 2 TO M. KEAWE

CONSOLIDATION OF TANK SITE NO. 5 (TMK: 3RD
DIV. 9-G-05: 48) AND PARCEL COVERED BY
TMK: 3RD DIV. 9-G-05: 1G

AND RESUBDIVISION OF SAID CONSOLIDATION
INTO LOTS A AND B.

PREPARED BY:
IMATA AND ASSOCIATES, INC.
171 KAPIOLANI STREET • HILO, HAWAII 96720

CLYDE K. MATSUMASA
LICENSED PROFESSIONAL SURVEYOR
CERTIFICATE NUMBER 4928

TAX MAP KEY: 3RD DIV. 9-G-05: 1G AND 48

OCTOBER 24, 2000

JOB NO. H-95-8G
Mr. Milton Pavao, P.E., Manager
County of Hawaii
Department of Water Supply
25 Aupuni St.
Hilo, HI 96720

Dear Mr. Pavao:

Well Construction Permit
Pahala Exploratory Well (Well No. 1229-02)

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 was added and is 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 (1/23/97) 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 $1000 per day for any violations of your permit conditions starting from the permit approval date.

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

Aloha,

TIMOTHY E. JOHNS
Chairperson

Enclosures
WELL CONSTRUCTION PERMIT

Pahala Exploratory Well, Well No. 1229-02

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 Pahala Exploratory Well (Well No. 1229-02) at Pahala, Hawaii TMK 9-6-5:15, subject to the Hawaii Well Construction & Pump Installation Standards (123597) which include but are not limited to the following conditions:

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

2. The well construction permit shall be for construction and testing of the well only. A minimum 1.5-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a 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 (January 23, 1997, 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 4, 2000
Expiration Date: May 4, 2002

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 $1000 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
Hawaii Department of Water Supply
C. Brewer & Company Ltd.
TO:        Dean Y. Uchida, Administrator
          Land Division
FROM:  Linnel T. Nishioka, Deputy Director
        Commission on Water Resource Management
SUBJECT:  Well Construction / Pump Installation Permit Application for
           Pahala Exploratory Well (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned well application
which includes a request for a pump installation permit.

We would appreciate your comments on the captioned with regard to the programs,
plans, and objectives specific to your division.  Specifically, Item 9 on the application has been
added per your request concerning water lease/permits administered by your division.  Please
respond by returning this cover memo form by March 24, 2000.

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.

XX  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

XX  Other comments: Original source of title is Land Commission Award
    No. 7312:2 issued between 1845 and 1850.

Contact Person:  Gary Martin  Phone:  587-0421
Signed:  Gary Martin  Date:  24 2000
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management

SUBJECT: Well Construction Permit / Pump Installation Permit Application for  
Pahala Exploratory Well (Well No. 1229-02)

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

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (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 of this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

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

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

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

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

[ ] No comments/objections

Contact Person: William Wong  
Phone: 586-4258

Signed: William Wong  
Date: 3/23/2000
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction Permit / Pump Installation Permit Application for
Pahala Exploratory Well (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned well 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 March 24, 2000.

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

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

X No comments/objections

Contact Person: Lori N. Kajiwara
Signed: Anji. Kajiwara

Phone: 506-4294
Date: 3-8-2000
Mr. Milton Pavao, P.E., Manager
County of Hawaii
Department of Water Supply
2" Aupuni St.
Hilo, HI 96720

Dear Mr. Pavao:

Well Construction / Pump Installation Permit Application for Well No. 1229-02

We acknowledge receipt, on January 26, 2000, of your completed well construction/pump installation permit application for the Pahala Exploratory Well (Well No. 1229-02). You can expect your application to be processed within ninety (90) days from this date.

For your information, the process of constructing a well is normally regulated and permitted in two (2) steps. First, a well construction permit is issued for drilling and testing purposes only. Based upon information provided by you through a Well Completion Report Part 1 (Well Construction), a pump installation permit (upon completed application) may then be issued to authorize pump work. If a pump is installed then a Well Completion Report Part 2 (Pump Installation) is required.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000, extension 70255.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director
TO: Honorable Bruce S. Anderson, Director 
Department of Health 
Attention: Dennis Tulang, Wastewater Branch 
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson 
Commission on Water Resource Management

SUBJECT: Well Construction Permit / Pump Installation Permit Application for 
Pahala Exploratory Well (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned well 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 March 24, 2000.

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 (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, §11-20-6.

[ ] 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).

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

[ ] No comments/objections

Contact Person: __________________________ Phone: ______________________

Signed: __________________________ Date: __________________________
TO: Dean Y. Uchida, Administrator  
Land Division  
FROM: Linnel T. Nishioka, Deputy Director  
Commission on Water Resource Management  
SUBJECT: Well Construction / Pump Installation Permit Application for  
Pahala Exploratory Well (Well No. 1229-02)  

Transmitted for your review and comment is a copy of the captioned well application which includes a request for a pump installation permit.

We would appreciate your comments on the captioned with regard to the programs, plans, and objectives specific to your division. Specifically, Item 9 on the application has been added per your request concerning water lease/permits administered by your division. Please respond by returning this cover memo form by March 24, 2000.

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

R: ss
Attachment(s)

RESPONSE:
[ ] 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: ____________________________
January 24, 2000

Ms. Linnel T. Nishioka, Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

WELL CONSTRUCTION/PUMP INSTALLATION PERMIT
PAHALA WELL NO. 2 (WELL NO. 1229-02)

Enclosed is our permit application for the subject well. We are also attaching the following documents to the application.

1. Topo map of the general area surrounding the well site
2. Tax Map Key map
3. Site plan
4. Consolidation and Resubdivision map
5. Final Environmental Assessment/Finding of No Significant Impact (FONSI)

Please call Mr. Owen Nishioka of our staff at (808) 961-8665 if you have any questions regarding the permit application.

Sincerely yours,

Milton D. Pavao, P.E.
Manager

ON: gms

Enc.

copy – (w/ copy of well permit) Waimea Water Services, Inc.

... Water brings progress...
State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources  
APPLICATION FOR PERMIT  
[ ] Well Construction  [ ] Pump Installation  

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 3 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. (Also, please check our website at: - http://www.hawaii.gov/dlnr/dwrm/dwrm.html)

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact.)

1. (a) WELL OWNER: Dept. of Water Supply  
Mailing Address: 25 Aupuni St. Hilo, Hawaii 96720  
Fax: 961-8657  
Contact Person: Milton Pavao  
Phone: 961-8660  
(b) LAND OWNER: C. Brewer and Co., Ltd.  
Mailing Address: P.O. Box 1826 Papaikou, Hawaii 96781  
Fax: 969-8151  
(c) CONTRACTOR: To be Determined  
Mailing Address:  
Fax:  
E-mail:  
Lic #:

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)

2. WELL LOCATION/NAME: PAHALA DEEPWELL #2 - EXPLORATION WELL  
Address Pahala, Ka'u, Hawaii  
Island: Hawaii  
Tax Map Key: 9-6-05:16  
Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"x24,000"), and (b) a property tax map, showing well location referenced to established property boundaries.

3. PROPOSED WORK:  
(Chock all that apply)  
[ ] Drill New Well  
[ ] Deepen  
[ ] Install New Pump  
[ ] Modify Existing Well  
[ ] Redrill  
[ ] Modify Pump  
[ ] Abandon/Seal *  
[ ] Replace Pump  
*Well No. Be sure to complete and submit well abandonment report upon completion of work.

4. CONSTRUCTION:  
[ ] Dug  
[ ] Bored  
[ ] Driven  
[ ] Drilled  
[ ] Radial  
Is this well a part of a battery of wells?  
[ ] Yes  
[ ] No  
Please describe.)

5. PROPOSED PUMP INFORMATION: Rated Pump Capacity: Four hundred (400) gallons per minute

Pump Type (Check one)  
[ ] Deep Well Turbine  
[ ] Submersible  
[ ] Centrifugal  
[ ] Municipal (including hotels, stores, etc.)  
[ ] Domestic (individual, noncommercial water system)  
[ ] Irrigation (crop)  
[ ] Military

Powered by:  
[ ] Rotary  
[ ] Rotary-Displacement  
[ ] Rotary-Gear  
[ ] Reciprocating  
[ ] Impulse  
[ ] Electric, rated horsepower: 100

6. PROPOSED USE:  
(Chock all that apply)  
[ ] Industrial  
[ ] Domestic (individual, noncommercial water system)  
[ ] Irrigation (crop)  
[ ] Military  
[ ] No. of Dwelling Units:  
[ ] No. of Acres:  
[ ] Other (explain):  

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: $76,000 gallons per day  
(b) METHOD OF FLOW MEASUREMENT:  
[ ] Flowmeter  
[ ] Open-pipe  
[ ] Weir  
[ ] Orifice  
[ ] Other (explain):

OTHER IMPORTANT INFORMATION:

8. PENDING ACTIONS:  
[ ] CDUA  
[ ] SMA  
[ ] EIS  
[ ] EA  
[ ] NONE  
[ ] Other (explain)

9. REMARKS, EXPLANATIONS: This well is to be used as a stand-by well only for

Pahala Well (#1229-01)

(if more space is needed, please attach additional sheet)

I 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 30 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.  
(Also, please check our website at: - http://www.hawaii.gov/dlnr/dwrm/dwrm.html)

Well Owner Dept. of Water Supply Landowner Mana Kea Agribusiness Contractor To be determined

Signature __________________________ Signature __________________________ Signature __________________________

Date 11/6/00 Date 1/18/00 Date

Field Checked By __________________________ Longitude __________ Aquifer System Name __________

Date __________________________ Latitude __________ State Well No. __________

WCPIFORM (8/13/99)
**Solid Casing Material:**

- **Steel:** compliant with (check appropriate): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
  - And compliant with (check appropriate): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other

- **Stainless Steel:** (check one): □ ASTM A409 □ ASTM A312

- **ABS Plastic** conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80

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

**Thermoset Plastic:** (check one)
- □ Filament Wound Resin Pipe conforming to ASTM 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 D3299
- □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**

- **Steel:** compliant with (check appropriate): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
  - And compliant with (check appropriate): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other

- **Stainless Steel:** (check one): □ ASTM A409 □ ASTM A312

- **ABS Plastic** conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80

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- □ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
- □ PTFE Fluorocarbon Tubing conforming to ASTM D3299
- □ FEP Fluorocarbon Tubing conforming to ASTM D3296

---

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 = \( \frac{1}{4} \times \text{Water Elevation} - \frac{1}{4} \times \text{Water Level Elevation} \)

Example: Estimated + 2 ft. Water Level Elev. → Bottom Elevation of Well Limit = \( \frac{1}{4} \times \text{Water Elevation} - \frac{1}{4} \times \text{Water Level Elevation} \)

\[ \text{Bottom Elevation Limit} = \text{Water Elevation} - \frac{1}{4} \times \text{Water Level Elevation} \]

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.
Mr. Milton D. Pavao, P.E., Manager
Department of Water Supply
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720

Well Construction / Pump Installation Permit for the Pahala Well #2 (Well No. 1229-02)

Dear Mr. Pavao:

We have received a letter from Waimea Water Services dated September 30, 1999 that indicates that the Pahala Well #2 (Well No. 1229-02) has not been constructed. Since the expiration date has passed and we have not received a request for extension, we are canceling your permit. If you wish to drill this well, you will need to reapply for a well construction / pump installation permit.

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

Sincerely,

LINNEL T. NISHIOKA
Deputy Director
Mr. Milton Pavao, Manager  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Mr. Pavao:

Well Construction Permit for  
Well No. 1229-02

We received a letter dated October 6, 1997 requesting an extension of your well construction permit start date. This letter grants you an extension of one year from the date of this letter to begin construction. Please note that your completion date remains at two years from the original date of issuance of the well construction permit. All other conditions of your permit remain.

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

Sincerely,

RAE M. LOUI  
Deputy Director

RI:ss  
c: John Stubbart, Waimea Water Services, Inc.
6 Oct 97

Mr. Mike Wilson, Chairperson
Commission on Water Resource Management
Dept. of Land and Natural Resources
Division of Water Resources Management
State of Hawaii
P.O.B. 621
Honolulu, Hawaii 96809

ATTENTION: Rae M. Loui
Deputy Director

SUBJECT: Request for Extension to Well Construction Start Date
Construction Permit Well #1229-02
Pahala #2 Well
Pahala, Hawaii

Dear Mr. Wilson,

On behalf of the Department of Water Supply (DWS) County of Hawaii, we are requesting an extension to the permitted well under Condition #10; referencing the start work date. The permit date was 7 May 97. Based on starting the well construction within 6 months of the permit date, the commencement of construction would have to be by 7 November 97. However, the start date for construction has been delayed due to the owner of the lands (Mauna Kea Agribusiness) not being able to obtain clear title as yet. This is being worked on and should be forthcoming.

The Dept. of Water Supply expects to have the land transfer in the next 6 to 8 months. We thus request that the permit commencement date be extended to allow the DWS to gain final permits.

If there are any questions, please call the undersigned.

Very truly yours,

John Stubbart
President

cc: Milton Pavao, DWS Manager
    Gary Kawasaka, DWS Engineering
Mr. Milton Pavao  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720  
Attn: Mr. Gary Kawasaka  

Dear Mr. Pavao:

Well Construction Permit  
Pahala #2 (Well No. 1229-02)  

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes 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 12:

Special Conditions

1. No special conditions

This permit does not authorize work for your permanent pump installation. Approval and issuance of your pump installation permit is contingent upon information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit. Please note that special conditions may simply highlight application deviations from the Standards.

The well owner is 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 $1000 per day for any violations of your permit conditions.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files. Also, copies of the aquifer pump test procedure and the well completion report form are enclosed for your use. Please provide all the information in this packet to your well drilling contractor.

Also attached for your information is a copy of the Department of Health’s review comments.

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

Aloha,

MICHAEL D. WILSON
Chairperson

Enclosures
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 Pahala #2 Well (Well No. 1229-02) at Pahala, Hawaii, TMK 9-6-05: 16, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) 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.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the attached Aquifer Pump Testing Procedure (attached). The permittee 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 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 shall stop work and contact the Department's Historic Preservation Division (587-0045) 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 shall comply with all applicable laws, rules, and ordinances, and 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 (1/23/97).

10. The permit may be revoked 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 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 must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

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

Date of Approval: May 7, 1997
Expiration Date: May 7, 1999

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. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ___________________________ Date: ____________
Printed Name: ___________________________ Firm or Title: ____________
Driller's Signature: ___________________________ Date: ____________
Printed Name: ___________________________ Firm or Title: ____________

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

Attachment

c:
USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Mauna Kea Agribusiness Co., Inc.
### SECTION 1: WELL LOCATION INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Hawaii</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed Use</td>
<td></td>
</tr>
<tr>
<td>Aquifer System</td>
<td></td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 2: WELL SECTION DATA

(enter data in grey cells only)

<table>
<thead>
<tr>
<th>Description</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation at top of casing</td>
<td>1114 ft. m.s.l.</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>1112 ft. m.s.l.</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>875 ft.</td>
</tr>
<tr>
<td>Rock Packing</td>
<td>0 ft.</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>22 in.</td>
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<tr>
<td>Total Depth</td>
<td>975 ft.</td>
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<tr>
<td>Estimated Head</td>
<td>1533 ft. m.s.l.</td>
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<tr>
<td>Calculated Aquifer Thickness</td>
<td>15703 ft.</td>
</tr>
<tr>
<td>County Water Supply (Y/N ?)</td>
<td>N</td>
</tr>
</tbody>
</table>

### SECTION 3: CHECKLIST

(values to check are shaded)

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<th>Description</th>
<th>Data</th>
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</thead>
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<tr>
<td>Well Depth</td>
<td></td>
</tr>
<tr>
<td>Theoretical Thickness of Aquifer</td>
<td>15703 ft.</td>
</tr>
<tr>
<td>1/4 Aquifer Thickness</td>
<td>3926 ft.</td>
</tr>
<tr>
<td>Depth of Well below Sea Level</td>
<td>-137 ft.</td>
</tr>
<tr>
<td>Well Casing</td>
<td></td>
</tr>
<tr>
<td>Minimum Wall Thickness</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Steel</td>
</tr>
<tr>
<td>County or Non-County</td>
<td>Non-county</td>
</tr>
<tr>
<td>Minimum Thickness per standards</td>
<td>0.313 in.</td>
</tr>
<tr>
<td>Wall Thickness Provided</td>
<td>0.375 in.</td>
</tr>
<tr>
<td>Minimum Length of Solid Casing</td>
<td>656.1 ft.</td>
</tr>
<tr>
<td>90% of ground to top of aquifer</td>
<td></td>
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<tr>
<td>Length of solid casing Provided</td>
<td>875 ft.</td>
</tr>
<tr>
<td>Casing Material</td>
<td>ASTM A53</td>
</tr>
<tr>
<td>Annular Space</td>
<td></td>
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<tr>
<td>Depth of Grouting</td>
<td>500 ft.</td>
</tr>
<tr>
<td>Calculated Depth of Grouting</td>
<td></td>
</tr>
<tr>
<td>Depth of Grouting provided</td>
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</tr>
<tr>
<td>Thickness of Annular Space</td>
<td>3 in.</td>
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(refer to HWCPIS Section 2.2, 2.4, 2.6)
<table>
<thead>
<tr>
<th>Island Code</th>
<th>HAWAII</th>
</tr>
</thead>
</table>

**Ground-Water Well Index and Summary**

<table>
<thead>
<tr>
<th>Aquifer System Code</th>
<th>NAALEHU</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Well No.</th>
<th>Well Name</th>
<th>Aquifer System Code</th>
<th>Code</th>
<th>Owner/User</th>
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</thead>
<tbody>
<tr>
<td>1128-01</td>
<td>PAHALA SHAST</td>
<td>80503</td>
<td></td>
<td>KAU SUGAR</td>
</tr>
<tr>
<td>1229-01</td>
<td>PAHALA</td>
<td>80503</td>
<td></td>
<td>HAWAII DWS</td>
</tr>
</tbody>
</table>

**Coordinates**

- Year Drilled
- Latitude
- Longitude

**Physical Data**

- Casing Type
- Total Depth
- Casing Dia
- Ground Hole of Case
- Solid Perf of Case

**Elevations in feet (msl)**

- Initial Static Head
- Initial Static CI- Temp

**Well Test Results**

- Specific Capacity T
- Installed Capacity
- Capacity Use
- Pump Test Results

<table>
<thead>
<tr>
<th>Installed Capacity</th>
<th>Status</th>
<th>Specific Capacity T</th>
<th>Capacity Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>.56</td>
<td>MUN</td>
<td>128</td>
<td>.56</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Well count for the NAALEHU Aquifer System 2, Well count for Island 2.
ISLAND OF HAWAII
TOTAL = 2431 MGD
HYDROLOGIC UNITS
Sustainable Yield per Aquifer Code

REF: MAP H-51
TO: Honorable Lawrence Miike, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management

SUBJECT: Well Construction Permit Application  
Pahala #2 Well (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 15, 1997.

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

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system (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.

[1] 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.

[1] 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.

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

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

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

[ ] No objections. No comments at this time.

Contact Person: Ka'iu Kojima  
Phone: 586-4294  
Date: 4-2-97

Signed: Ka'iu Kojima
Mr. Milton Pavao, Manager  
Hawaii Department of Water Supply  
25 Aupuni Street  
Hilo, HI 96720

Attn: Mr. Gary Kawasaka

Dear Mr. Pavao:

Well Construction / Pump Installation Permit Application for Well No. 1229-02

We have received your well construction / pump installation permit application for the Pahala #2 Well (Well No. 1229-02). However, as stated in our letter dated February 21, 1997, we will require your submission of outstanding well completion reports before we can approve the subject application. To expedite the approval process, we are currently processing your permit and will issue the permit (if approved) upon receipt of your outstanding well completion reports.

If you have any questions about your permit application, please contact Mr. Ryan Imata of the Commission staff at 587-0255.

Sincerely,

RAE M. LOUI  
Deputy Director

RI:ss

c: Waimea Water Services Inc.
TO: Honorable Lawrence Miike, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

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RI:ss
Attachment(s)

RESPONSE:

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[ ] 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 located near the proposed well site (information attached).

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

Contact Person: __________________________ Phone: __________________________

Signed: __________________________ Date: __________________________
TO: Honorable Lawrence Miike, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction Permit Application
Pahala #2 Well (Well No. 1229-02)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 15, 1997.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Mr. 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 (serving 25 or more people at least 25 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, §11-20-22.

☐ 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 located near the proposed well site (information attached).

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

Contact Person: William Wong
Phone: 586-4258

Signed:
Date: 03/25/97
Same as other BWS app. Send out for DOT comments but no acknowledgement as complete. Pending WCR's.

Dae, I think this route should be O.K. as long as we notify them about deviation from 90-day acceptance/approval.
TO:     Gary Kawasaka, PE  
DWS    
FROM:  John Stubbart  
DATE:  24 Feb. 97  
SUBJ:  Well Construction Permit  
        Pahala Deep Well #2; Stand-by Well #1229-02

In response to the CWRM letter of 21 Feb. 97, WWS is processing the following:

1. Using the new form CWRM supplied, we completed all the areas including the requested fax number at DWS.

2. WWS is transmitting a copy of the EA correspondence.

3. In that the well is not constructed and the final elevation of the top of the casing is not known, we have estimated the elevation to be 1114', two feet above the estimated ground elevation.

4. We have voided our check of $25.00 for the filing fee.

5. Being that we are not in control of the past due well completion reports, we hope you can expedite this information.

WWS has used the newly adopted well standards in the information provided to CWRM.

Attached is the form provided by CWRM with the blanks filled in. Being that this is supplemental information to the original permit signed by all parties, the original signed form will be resubmitted with this additional information; fax number and some well sectional information.

cc:     Rae Loui, CWRM  
        Imata and Associates
TO: John Stubbart

Agency or Organization Name: Waihee Water Services

Facsimile Number: 885-7851 Phone Number: 885-5941

Total number of pages, including this page: 4

IF YOU DO NOT RECEIVE ALL OF THE PAGES OR THE TRANSMISSION IS UNCLEAR, PLEASE CALL OEQC AT 586-4185

FROM: Key

Re: Pahala Deep Well No. 2 FEA

Remarks: Per your request attached is the front page of the 8/23/96 TEN along with the Table of Contents and the page which describes the project.

Date FAX received: _________________ Time: _______________
AUGUST 23, 1996

1995 Annual Report is Here

In celebration of the 25th anniversary of the Office of Environmental Quality Control and the Environmental Council, we are happy to announce the completion of the 1995 annual report. The Report is a dramatic departure from previous years. It contains expert articles on pressing environmental issues ranging from native species to eco-tourism. Also in the report, State and County agencies have reported progress on their environmental goals.

Perhaps the most popular feature of the Report is the inclusion of 25 Hawaii environmental indicators. After extensive research and data collection, OEQC has charted and graphed information ranging from water quality to energy use. We include the total State funding for environmental programs and how fast we are using up landfill space across the state. We intend to continue to present these indicators each year to provide a handy report card on the environmental health of Hawaii. A limited number of copies of the report are available at OEQC. Call for more information.

Renew Your Subscription to the Notice Today

Just in case you missed it, please look for the survey form at the back of the August 8th issue of the Environmental Notice. You must fill out the survey and return it to OEQC by September 11 or you will be dropped from our mailing list. Hundreds of surveys have been received already. Many of you took the time to add helpful comments as well. We appreciate hearing from you. If you appreciate receiving this bulletin twice each month make sure you get your survey back on time.

The Environmental Notice Lite

The first thing you should notice about this issue is that it has lost weight. This crash diet is due to two factors: 1) an unusually small number of new projects were filed with our office this cycle; and 2) we have removed the full description of previously published project notices and instead listed them by title only at the end of each island chapter.

Before today, second notices have filled about one third of the bulletin’s pages. This new format will require readers to refer back to the most recent bulletin issue if they want a summary of a pending project that was already published. This means a little more work for our readers and thousands of dollars worth of paper saved each year. Please let us know what you think of this new format.

Comments Count

The County of Kaua‘i Planning Department has submitted a final environmental assessment for the construction of a pedestrian walkway at the Sheraton Kaua‘i Hotel. In response to public comments and other project changes, Obayashi Corporation (the applicant), has modified the pedestrian walkway to reduce potential impacts to the shoreline area.

In the revised plan, the applicant proposes to realign the section of the walkway overlooking Poipu Beach further inland and outside of the 40-foot shoreline setback area. The Planning Department has also indicated that an EA will be prepared for related improvements (new beachfront wing, pool decks, lobby, lounge, gallery, etc.) at the hotel. Please see page 12.
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Final Environmental Assessment/ 
Finding Of No Significant Impact 
(FONSI)

(1) Pahala Deep Well No. 2 Exploratory 
Stand-By Well Drilling

District: Kau 
TMK: 3-9-6-05:16 
Applicant: County of Hawaii 
Department of Water Supply 
25 Aupuni Street 
Hilo, Hawaii 96720 
Contact: Ken Ikenmori (961-3723)

Accepting 
Authority: County of Hawaii 
Department of Water Supply 
25 Aupuni Street 
Hilo, Hawaii 96720 
Contact: Ken Ikenmori (961-3723)

Consultant: Waimea Water Services, Inc. 
P.O. Box 326 
Kamuela, Hawaii 96743 
Contact: John Stubbart (885-5941)

The few negative impacts which have been identified in 
this Final Environmental Assessment should be adequately 
minimized by the suggested mitigative measures. In accordance 
with Chapter 343, Hawaii Revised Statutes, it has been 
determined that this project will not have significant environmental 
effects and an Environmental Impact Statement is not 
required. This constitutes a Finding of No Significant Impact.

(2) Waiubata Dairy, Inc.

District: Kau 
TMK: 9-5-15:3 
Applicant: Waiubata Dairy, Inc. 
P.O. Box 55 
Papalaua, Hawaii 96781 
Contact: Alfred Galimba (696-2828)

Accepting 
Authority: Department of Land and Natural Resources 
P.O. Box 621 
Honokaa, Hawaii 96780 
Contact: Gary Martin (387-0421)

Consultant: Michele Galimba (964-5775) 
P.O. Box 379 
Naalehu, Hawaii 96772

The Department of Water Supply (DWS), County of 
Hawaii proposes to drill an exploratory stand-by deep well in 
Pahala in the Kau District of the Big Island of Hawaii. If the 
exploratory well proves to be productive, it will be outfitted 
to a stand-by production well to provide backup to the 
existing Pahala Well (State Well #1229-01) northwest of the 
town of Pahala and to explore the high level groundwater.

The well will be located near the existing well and 0.5 
mgd tank. The ground elevation will be 1112 feet and the 
well will be drilled 975' to elevation 137 feet. The groundwater 
stands at about elevation 383 feet. The well diameter will 
be 22" with a 16" casing. Access to the site will be above the 
tank on an access previously used for servicing the existing 
well. Some macadam trees will need to be removed for drilling 
operations.
**STATE OF HAWAII**
**COMMISSION ON WATER RESOURCE MANAGEMENT**
Department of Land and Natural Resources
Division of Water Resource Management

**APPLICATION FOR PERMIT:**
[X] WELL CONSTRUCTION PERMIT  [X] PUMP INSTALLATION PERMIT

**Instructions:** Please print or type and send completed application with attachments to the Commission on Water Resources Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch 587-0225.

1. **A) WELL OWNER:**
   - Firm Name: County of Hawaii, Dept. of Water Supply
   - B) LANDOWNER:
     - Firm Name: County of Hawaii, Dept. of Water Supply
     - C. Brewer and Co., Ltd.
   - Contact Person: Milton Pavao Ph. 969-1421
   - Address: 25 Aupuni St., Hilo, Hawaii 96720

2. **WELL LOCATION:** PAHALA DEEPWELL #2 - EXPLORATION WELL
   - Island: Hawaii
   - Address: Pahala, Hawaii Tax Map Key: 9-6-05:16
   - (Attach a USGS map (scale 1"=20XX) and property tax map showing well location referenced to established property boundaries.)

3. **A) PROPOSED WORK:**
   - [X] Drill New Well
   - [] Alter Location
   - [] Modify existing well
   - [] Redrill
   - [] Deepen
   - [] Abandon/Seal
   - [X] Install New Pump
   - [] Replace Pump
   - [] Modify Pump

   **B) WELL TYPE:**
   - [ ] Dug
   - [ ] Bored
   - [ ] Driven
   - [X] Drilled
   - [ ] Radial
   - Is this well part of a battery of wells? [X] Yes  [ ] No
   - (Briefly describe the proposed work and fill in the diagram on the back of this form.)

4. **PROPOSED PUMP INFORMATION:**
   - Rated Pump Capacity 400 (gpm)
   - Pump Type:
     - [ ] Deep Well Turbine
     - [X] Submersible
     - [ ] Centrifugal
     - [ ] Rotary-Displacement
     - [ ] Reciprocating
     - [ ] Impulse
     - [X] Electric
   - Motor:
     - [ ] Diesel
     - [X] Gas
     - [ ] Electric
     - rated hp - 100 hp

5. **PROPOSED USE:**
   - [X] Municipal (including hotels, stores, etc.)
   - [ ] Military
   - [ ] Industrial
   - [X] Other (specify): Observation
   - [ ] Domestic (individual, non-commercial water systems)
   - [ ] Irrigation (specify)
   - [X] Agriculture
   - [ ] Urban
   - [ ] Rural
   - [ ] Conservation
   - [ ] County Zoning (describe): Agriculture

6. **A) PROPOSED AMOUNT OF WITHDRAWAL:** 576,000 gallons per day (Maximum pumpage - 24 hours)

7. **B) METHOD OF FLOW MEASUREMENT:**
   - [X] Flow-meter
   - [ ] Open pipe
   - [ ] Orifice Plate
   - [ ] Weir

8. **PENDING ACTIONS:**
   - [ ] CDUA
   - [ ] SMA
   - [X] EIS
   - [X] EA
   - [ ] NONE
   - [ ] Other
   - (see attached EA)

9. **REMARKS:** This well is to be used as a stand-by well only for Pahala Well (#1229-01)

---

**Well Owner:** Hawaii DWS
**Landowner:** Hawaii DWS & Mauna Kea Agribusiness Co., Inc.
**Contractor:** to be determined

**Signature:**
**Date:** 12/27/96

**Signature: W.K. Tallett**
**Date:** 12/27/96

**Signature:** Kent T. Lucien, Vice President
**Date:** 12/27/96

---

**For Official Use Only:**
**Date Received:**
**Date Accepted:**
**Field Checked By:**
**Date:**
**Latitude:**
**Longitude:**
**Aquifer System Name:** Mauna Kea
APPLICATION FOR PERMIT

[Header Information]

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96869. This application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission's Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact a, b, or c) Primary Fax: 961-8657
   (a) WELL OWNER
   Firm/Name: County of Hawaii, Dept. of Water
   Contact Person: Milton Pouda Ph: 961-1782
   Address: 25 Baldwin St.
   (b) LANDOWNER
   Firm/Name: DWS & Makua Koa Agriculture Co. Inc.
   Contact Person: W.K. Talbert Ph: 549-6162
   Address: P.O. Box 1826
   (c) CONTRACTOR
   Firm/Name: To Be Determined Ph:
   Contact Person: Contractor's License No.
   Address: 

2. WELL LOCATION/NAME: Pahula Deep Well - Exploration Well
   Address: Pahula, Hilo
   Tax Map Key 96-6-05:16
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000'), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK: [ ] Drill New Well [ ] Deepen [ ] Install New Pump
   [ ] Modify Existing Well [ ] Redrill [ ] Modify Pump
   [ ] Abandon/Seal * [ ] Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   [ ] Dug [ ] Bored [ ] Driven [ ] Drilled  [ ] Radial
   Is this well a part of a battery of wells? [ ] Yes [ ] No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 400 gallons per minute
   Pump Type:
   [ ] Deep Well Turbine [ ] Rotary [ ] Propeller [ ] Diesel
   [ ] Submersible [ ] Rotary-Displacement [ ] Reciprocating [ ] Gas
   [ ] Centrifugal [ ] Rotary-Gear [ ] Impulse [ ] Electric, rated horsepower:
   If Pump Replacement, Existing Pump Capacity: _______ gallons per minute

5. PROPOSED USE:
   [ ] Municipal (including hotels, stores, etc.) [ ] Industrial
   [ ] Domestic (individual, noncommercial water sys.) [ ] Dwelling Units _______
   [ ] Irrigation (crop) [ ] Acres _______
   [ ] Military [ ] Other: _______

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 576,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   [ ] Flow-meter [ ] Open-pipe [ ] Orifice Plate [ ] weir

7. PENDING ACTIONS:
   [ ] CDUA [ ] SMA [ ] EIS [ ] EA [ ] NONE [ ] Other (explain)

8. REMARKS, EXPLANATIONS:
   THIS WELL IS TO BE USED AS A STANDBY WELL ONLY
   FOR THE PANAULI WELL # 1229-01
   (if more space is needed, continue on back)

   [Signatures]
   Well Owner [ ] Landowner [ ] Contractor [ ]
   Signature ___________ Signature ___________ Signature ___________
   Date ___________ Date ___________ Date ___________

For Official Use Only:
Date Received ___________
Date Accepted ___________
Field Checked By ___________
Date ___________
Longitude _________ Latitude _________
Aquifer System Name _________
State Well No. _________

3 Jan 97 WCPIA Form
9. PROPOSED WELL SECTION

Elevation at top of casing
1114 ft., msl.

Ground Elevation: 1112 ft., msl*

Cement Grout: 875 ft.

Rock Packing 0 ft.

Hole Diameter: 22 in.

Solid Casing:
Material: ASTM A53
Length: 875 ft.
Diameter: 12" in.
Wall thickness: 0.375 in.

Openings: 44.5 sq. in./L.F.

Total Depth 975 ft.

Casing: Perforated Screen
Material: ASTM A63
Length: 50 ft.
Diameter: 10 in.
Wall thickness: 0.375 in.

Open Hole:
Length: 50 ft.
Diameter: 15 in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion and abandonment reports.
Briefly describe the proposed work:

This permit is to construct a new STAND-BY well for the existing potable production well Pahala Deep Well #1 (State Well No. 1229-01). If successfully drilled, cased and tested this well is intended to be put into a production to provide water if the existing well is out of service. This well is not intended to be operated at the same time as the existing well.

Proposed Pahala Deepwell No. 2

<table>
<thead>
<tr>
<th>elev.</th>
<th>depths</th>
<th>Ground elev. = 1112'</th>
</tr>
</thead>
<tbody>
<tr>
<td>1112'</td>
<td>0'</td>
<td></td>
</tr>
</tbody>
</table>

- cement grout
- annulus 3" minimum
- Hole - 22"
- casing, 16" solid ASTM A53 0.375" thick
- water level
- cement baskets
- casing, fullflow screen 16", ASTM A53, 0.375" thick, 94.5 ft. min. L.F.
- bottom of casing with casing shoe
- open hole as required 13" OD

Waimea Water Services Inc.
Pahala Deepwell No. 2
Section of Proposed Well
not to scale 5 Dec 95
Mr. Milton Pavao  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, HI 96720  

ATTN: Mr. Gary Kawasaka

Dear Mr. Pavao:

Well Construction / Pump Installation Permit Application for Well No. 1229-02

We have received the well construction / pump installation permit application and filing fee for the Hawaii DWS Pahala #2 Well (Well No. 1229-02), submitted by Waimea Water Services on January 22, 1997. However, the application is incomplete. Matters which must be addressed before we accept the application as complete are as follows:

1. Please supply a primary fax number as required on the application form.

2. We understand that an environmental review is required under Chapter 343, HRS. Please provide written notification that this process has been completed, along with the date of approval. This is a requirement before we begin processing your permit.

3. Please provide the elevation at the top of the casing.

4. As government agencies are exempt from the filing fee, the check for $25 is being returned to your consultant, Waimea Water Services, who submitted the filing fee.

5. Additionally, we are requesting that a number of issues be addressed before we process the permit application. These items are summarized on the attached sheet and mainly concern outstanding Well Completion Reports for existing DWS Wells. We have attached a current copy of our well completion report for your use. In lieu of submitting this report, you may submit the DOH Engineering Report for the well. These should be submitted to our office before the subject application is processed.
On January 23, 1997, the Commission adopted the Hawaii Well Construction Standards and authorized the Chairperson to issue Well Construction and Pump Installation permits. To expedite the processing of your permits, it is important that your application be as complete and in compliance with the standards as possible.

Please note that the replication of our Well Construction / Pump Installation Permit application has some omissions. In lieu of using the attached form, please update the form to reflect all of the fields in our application.

Upon receipt of the above information, we will accept your application as complete, and you can then expect your application to be processed within ninety (90) days.

If you have any questions about your permit application, please contact Mr. Ryan Imata of the Commission staff at 587-0255.

Sincerely,

RAE M. LOUI
Deputy Director

RI:fc
encl.
c. Waimea Water Services
CONSOLIDATION AND RESUBDIVISION MAP

LAND SITUATED AT HIONAMOA, KA‘U, ISLAND OF HAWAI‘I, HAWAI‘I.

BEING LAND COMMISSION AWARD 7312, APANA 2 TO M. KEAWE

CONSOLIDATION OF TANK SITE NO. 5 (TMK: 3RD DIV. 9-6-05: 48) AND PARCEL COVERED BY
TMK: 3RD DIV. 9-6-05: 16

AND RESUBDIVISION OF SAID CONSOLIDATION INTO LOTS A AND B.

PREPARED BY:
IMATA AND ASSOCIATES, INC.
171 KAPIOLANI STREET • HILO, HAWAI‘I 96720

CLYDE K. MATSUMASA
LICENSED PROFESSIONAL SURVEYOR CERTIFICATE NUMBER 4528

TAX MAP KEY: 3RD DIV. 9-6-05: 16 AND 48

JOB NO H-95-BC
January 17, 1997

Mr. Mike Wilson, Chairperson
Commission on Water Resource Management
Dept of Land and Natural Resources
Division of Water Resources Management
State of Hawaii
P.O. Box 621
Honolulu, HI 96809

ATTENTION: Rae M. Loui
Deputy Director

SUBJECT: Request for Well Construction and Pump Permit
PAHALA EXPLORATORY WELL
Pahala, HI
TMK: 9-6-05:16

Dear Mr. Wilson,

Waimea Water Services, Inc., on behalf of the well owner, the County of Hawaii Department of Water Supply, and the land owner, the Hawaii DWS and C. Brewer and Co., Ltd. is submitting the attached permit for construction of a stand-by well near the existing Pahala Well.

Attached is the $25.00 filing fee. If there are any questions, please call the undersign.

Very truly yours,

John Stubbart
President

Enclosures
cc: Mr. Milton Pavao, Hawaii DWS
Mr. W.K. Tallet, C. Brewer & Co.
PAY AMOUNT

Twelve five and 00/100 DOLLARS

DATE: 01/17

TO THE ORDER OF: Department of Land and Natural Resources

DESCRIPTION:

CHECK AMOUNT: $25.00

Bank of Hawaii

KAMUELA, HAWAII 96743
Scale: 1:24000
USGS 1982

Pahala Exploratory Stand-by Well
TOPO MAP
Date: 11/14/95
Waimea Water Services Inc.
TMI Map
Pahala Exploratory Stand-by Well

Proposed Project Site
CONSOLIDATION AND RESUBDIVISION MAP

LAND SITUATED AT HIONAMOA, KA'U,
ISLAND OF HAWAII, HAWAII.

BEING LAND COMMISSION AWARD 7312,
APANA 2 TO M. KEAWE

CONSOLIDATION OF TANK SITE NO. 5 (TMK: 3RD DIV. 9-G-05: 48) AND PARCEL COVERED BY
TMK: 3RD DIV. 9-G-05: 16

AND RESUBDIVISION OF SAID CONSOLIDATION
INTO LOTS A AND B.

PREPARED BY:
IMATA AND ASSOCIATES, INC.
171 KAPIOLANI STREET • Hilo, Hawaii 96720

CLYDE K. MATSUNAGA
LICENSED PROFESSIONAL SURVEYOR
CERTIFICATE NUMBER 4928

TAX MAP KEY: 3RD DIV. 9-G-05: 16 AND 48
JOB NO. 4-05-RG
CONSOLIDATION AND RESUBDIVISION MAP

LAND SITUATED AT HIONAMOA, KA'U, ISLAND OF HAWAII, HAWAII.

BEING LAND COMMISSION AWARD 7312, APANA 2 TO M. KEAWE

CONSOLIDATION OF TANK SITE NO. 5 (TMK: 3RD DIV. 9-G-05: 48) AND PARCEL COVERED BY TMK: 3RD DIV. 9-G-05: 1G

AND RESUBDIVISION OF SAID CONSOLIDATION INTO LOTS A AND B.

PREPARED BY:
IMATA AND ASSOCIATES, INC.
171 KAPIOLANI STREET • Hilo, HAWAII 96720

CLYDE K. MATSUNAGA
LICENSED PROFESSIONAL SURVEYOR
CERTIFICATE NUMBER 4229

TAX MAP KEY: 3RD DIV. 9-G-05: 1G AND 48
TOB NO. H-95-86
**APPLICATION FOR PERMIT:**

[X] WELL CONSTRUCTION PERMIT  
[X] PUMP INSTALLATION PERMIT

**Instructions:** Please print or type and send completed application with attachments to the Commission on Water Resources Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch 587-0225.

1. **A) WELL OWNER:**  
   Firm Name: County of Hawaii, Dept. of Water Supply  
   B) LANDOWNER:**  
   Firm Name: County of Hawaii, Dept. of Water Supply

   C) Contact Person: Milton Pavao Ph. 969-1421  
   Address: 25 Aupuni St. Hilo, Hawaii 96720  
   
   D) CONTRACTOR Name: To be Determined  
   Address:  

2. **WELL LOCATION:**  
   Island: Hawaii  
   Address: Pahala, Hawaii  
   Tax Map Key: 9-6-05-16  
   (Attach a USGS map (scale 1"=2000) and property tax map showing well location referenced to established property boundaries.)

3. **A) PROPOSED WORK:**  
   [X] Drill New Well  
   [ ] Modify existing well  
   [X] Install New Pump  
   [ ] Alter Location  
   [ ] Redrill  
   [ ] Deepen  
   [ ] Abandon/Seal  
   [ ] Replace Pump  
   [ ] Modify Pump

   **B) WELL TYPE:**  
   [ ] Dug  
   [ ] Bored  
   [ ] Driven  
   [X] Drilled  
   [ ] Radial  

   Is this well part of a battery of wells? [X] Yes [ ] No  
   (Briefly describe the proposed work and fill in the diagram on the back of this form).

4. **PROPOSED PUMP INFORMATION:** Rated Pump Capacity 400 (gpm)  
   Pump Type:  
   [X] Deep Well Turbine  
   [ ] Rotary  
   [ ] Propeller  
   [ ] Rotary-Displacement  
   [ ] Reciprocating  
   [ ] Centrifugal  
   [X] Rotary - Gear  
   [ ] Impulse  
   Motor:  
   [X] Electric rated hp -100 hp @

5. **PROPOSED USE:**  
   [X] Municipal (including hotels, stores, etc.)  
   [ ] Domestic (individual, non-commercial water systems)  
   [ ] Irrigation (specify)  
   [ ] Military  
   [ ] Industrial  
   [ ] Other (specify): Observation

   State Land Use District: [X] Urban  
   [ ] Agriculture  
   [ ] Rural  
   [ ] Conservation  
   County Zoning (describe): Agriculture

6. **A) PROPOSED AMOUNT OF WITHDRAWAL:**  
   576,000 gallons per day (Maximum pumpage - 24 hours)

   **B) METHOD OF FLOW MEASUREMENT:**  
   [X] Flow-meter  
   [ ] Open pipe  
   [ ] Orifice Plate  
   [ ] Weir

7. **PENDING ACTIONS:**  
   [ ] CDUA  
   [ ] SMA  
   [ ] EIS  
   [ ] EA  
   [ ] NONE  
   [ ] Other (see attached EA)

8. **REMARKS:** This well is to be used as a stand-by well only for Pahala Well (#1229-01)

---

Well Owner: Hawaii DWS  
Landowner: Hawaii DWS & Mauna Kea  
Contractor: to be determined  
W. K. Tallett, President  
Kent T. Lucien, Vice President

<table>
<thead>
<tr>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12/27/96</td>
</tr>
</tbody>
</table>

For Official Use Only:  
Date Received:  
Date Accepted:  
Field Checked By:  
Latitude:  
Longitude:  
State Well No.:
Briefly describe the proposed work:

This permit is to construct a new STAND-BY well for the existing potable production well Pahala Deep Well #1 (State Well No. 1229-01). If successfully drilled, cased and tested this well is intended to be put into production to provide water if the existing well is out of service. This well is not intended to be operated at the same time as the existing well.

**Proposed Pahala Deepwell No. 2**

<table>
<thead>
<tr>
<th>elev.</th>
<th>depths</th>
<th>Ground elev. = 1112'</th>
</tr>
</thead>
<tbody>
<tr>
<td>1112'</td>
<td>0'</td>
<td></td>
</tr>
<tr>
<td>383.63'</td>
<td>728'</td>
<td>water level</td>
</tr>
<tr>
<td>237'</td>
<td>875'</td>
<td></td>
</tr>
<tr>
<td>187'</td>
<td>925'</td>
<td></td>
</tr>
<tr>
<td>137'</td>
<td>975'</td>
<td>open hole as required</td>
</tr>
</tbody>
</table>

- cement grout
- annulus 3" minimum
- Hole - 22"
- casing, 16" solid
- cement baskets
- casing, fullflow screen
- bottom of casing with casing shoe

**Waimea Water Services Inc.**
**Pahala Deepwell No. 2**
**Section of Proposed Well**
not to scale 5 Dec 95
A Semi-Monthly Bulletin of the Office of Environmental Quality Control

Benjamin J. Cayetano
Governor
Office of Environmental Quality Control
Gary Gill
Director

The Environmental Notice reviews the environmental impacts of projects proposed in Hawaii.

Other Resources available at OEQC...
- Guidebook for Hawaii's Environmental Review Process
- Environmental Impact Study Resource Library
- Environmental Education Database
- Environmental Council Annual Reports
- Rules and Policies
- "How to Plant a Native Hawaiian Garden"

The Environmental Notice...August 23, 1996

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Final Environmental Assessment/Finding Of No Significant Impact (FONSI)

(1) Pahala Deep Well No. 2 Exploratory Stand-By Well Drilling

District: Kau
TMK: 3-9-6-05-16
Applicant: County of Hawaii
Department of Water Supply
25 Aupuni Street
Hilo, Hawaii 96720
Contact: Ken Ikemori (961-3723)

Accepting Authority: County of Hawaii
Department of Water Supply
25 Aupuni Street
Hilo, Hawaii 96720
Contact: Ken Ikemori (961-3723)

Consultant: Waihe'e Water Services, Inc.
P.O. Box 326
Kamuela, Hawaii 96743
Contact: John Stubbert (885-5941)

Deadline: September 23, 1996
Status: FEA/FONSI issued, project may proceed.

The Department of Water Supply (DWS), County of Hawaii proposes to drill an exploratory stand-by deep well in Pahala in the Kau District of the Big Island of Hawaii. If the exploratory well proves to be productive, it will be out-fitted to a stand-by production well to provide backup to the existing Pahala Well (State Well #1229-01) northwest of the town of Pahala and to explore the high level groundwater.

The well will be located near the existing well and 0.5 mgd tank. The ground elevation will be 1112 feet and the well will be drilled 975' to elevation 137 feet. The groundwater stands at about elevation 383 feet. The well diameter will be 22" with a 16" casing. Access to the site will be above the tank on an access previously used for servicing the existing well. Some macadamia trees will need to be removed for drilling operations.

The few negative impacts which have been identified in this Final Environmental Assessment should be adequately minimized by the suggested mitigative measures. In accordance with Chapter 343, Hawaii Revised Statutes, it has been determined that this project will not have significant environmental effects and an Environmental Impact Statement is not required. This constitutes a Finding of No Significant Impact.

(2) Waiubata Dairy, Inc.

District: Kau
TMK: 9-5-15:3
Applicant: Waiubata Dairy, Inc.
P.O. Box 55
Captainville, Hawaii 96781
Contact: Alfred Galimbra (696-2823)

Accepting Authority: Department of Land and Natural Resources
P.O. Box 621
Honoauli, Hawaii 96809
Contact: Gary Martin (587-0421)

Consultant: Michele Galimbra (964-5775)
P.O. Box 379
Naalehu, Hawaii 96772
1. A) WELL OWNER:  
   Firm Name: County of Hawaii, Dept. of Water Supply 
   C. Brewer and Co., Ltd. 

   B) LANDOWNER:  
   Firm Name: County of Hawaii, Dept. of Water Supply 
   C. Brewer and Co., Ltd. 

   B) Contact Person: Milton Pavao Ph. 969-1421  
   Address: 25 Aupuni St.  
   Hilo, Hawaii 96720 

   Contact Person: Milton Pavao Ph. 969-1421  
   Address: 25 Aupuni Street  
   Hilo, Hawaii 96720 

   Contact Person: W.K. Tallett Ph. 544-8166  
   Address: P.O. Box 1826  
   Honolulu, HI 96805 

   C) CONTRACTOR  
   Name: To be Determined  
   Address:  
   Phone:  
   Contractor's License No.:  

2. WELL LOCATION: PAHALA DEEPWELL #2 - EXPLORATION WELL  
   Island: Hawaii  
   Address: Paiala, Hawaii  
   Tax Map Key: 9-9-55-10  
   (Attach a USGS map scale 1" = 2000 and property tax map showing well location referenced to established property boundaries.)  

3. A) PROPOSED WORK  
   [X] Drill New Well  
   [] Modify existing well  
   [] Alter Location  
   [] Redrill  
   [] Install New Pump  
   [] Replace Pump  
   [] Deepen  
   [] Abandon/Seal  
   [] Modify Pump  

   B) WELL TYPE  
   [] Dug  
   [] Bored  
   [] Drilled  
   [] Radial  
   Is this well part of a battery of wells? [X] Yes  
   [ ] No  
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)  

4. PROPOSED PUMP INFORMATION: Rated Pump Capacity 400 (gpm)  
   Pump Type:  
   [ ] Deep Well Turbine  
   [ ] Centrifugal  
   [ ] Submersible  
   [ ] Rotary  
   [ ] Impulse  
   [ ] Rotary-Displacement  
   [ ] Reciprocating  
   [ ] Gas  
   [ ] Propeller  
   [ ] Electric  
   [ ] Diesel  
   Motor:  
   Rated hp:  

5. PROPOSED USE  
   [X] Municipal (including hotels, stores, etc.)  
   [ ] Military  
   [ ] Domestic (individual, non-commercial water systems)  
   [ ] Industrial  
   [ ] Irrigation (specify)  
   [ ] Other (specify): Observation  
   State Land Use District:  
   [ ] Urban  
   [X] Agriculture  
   [ ] Rural  
   [ ] Conservation  
   County Zoning (describe): Agriculture  

6. A) PROPOSED AMOUNT OF WITHDRAWAL: 578,000 gallons per day (Maximum pumpage - 24 hours)  

   B) METHOD OF FLOW MEASUREMENT:  
   [X] Flow-meter  
   [ ] Open pipe  
   [ ] Orifice Plate  
   [ ] Weir  

7. PENDING ACTIONS:  
   [ ] CDUA  
   [ ] SMA  
   [X] EIS  
   [ ] EA  
   [ ] NONE  
   [ ] Other  
   (see attached EA)  

8. REMARKS: This well is to be used as a stand-by well only for Paiala Well (#1229-01)  

   Well Owner: Hawaii DWS  
   Landowner: Hawaii DWS & Mauna Kea  
   Contractor: to be determined  

   *Kent T. Lucien, Vice President  
   **W. K. Tallett, President  

   Signature:  
   Date: 12/27/96  

   Signature:  
   Date: 12/27/96  

For Official Use Only:  
Date Received:  
Date Accepted:  
Field Checked By  
Latitude  
Longitude  
State Well No.
APPLICATION FOR PERMIT

For Well Construction or Pump Installation

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the Commission on Water Resource Management, P.O. Box 627, Honolulu, Hawaii 96809. This application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission's Regulation Branch at 587-0220.

1. APPLICANT: (circle primary contact a, b, or c) Primary Fax: 961-2657
(a) WELL OWNER
   Firm Name: County of Hawaii, Dept. of Water
   Contact Person: M. Stein
   Address: 35 Old Pauoa Rd, P.O. Box 548-1461

(b) LANDOWNER
   Firm Name: HLS & MAUI KEY AGRIBUSINESS CO., INC.
   Contact Person: W.A. T. Truex
   Address: P.O. Box 1, 1720 1st St.

(c) CONTRACTOR
   Firm Name: TO BE DETERMINED
   Contact Person: Contractor's License No.
   Address: (Please circle type: C-57, Gen'C, or C-57b, Gen'A)

2. WELL LOCATION/NAME: HAWAII DEEP WELL 
   Address: P.O. Box 1
   Tax Map Key: 9-2-099-15
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK:
   □ Drill New Well □ Deepen
   □ Install New Pump
   □ Modify Existing Well □ Redrill
   □ Modify Pump
   □ Abandon Seal * □ Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:
   □ Dog □ Bored □ Driven □ Drilled
   □ Radial
   Is this well a part of a battery of wells? □ Yes □ No
   (briefly describe and fill in the diagram on the back of this form)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 4000 gallons per minute
   Pump Type:
   □ Deep Well Turbine
   □ Rotary
   □ Propeller
   □ Diesel
   □ Submersible
   □ Rotary-Displacement
   □ Reciprocating
   □ Gas
   □ Centrifugal
   □ Rotary-Gear
   □ Impulse
   □ Electric, rated horsepower:
   If Pump Replacement, Existing Pump Capacity:
   gallons per minute

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.)
   □ Domestic (individual, noncommercial water sys.)
   □ Dwelling Units
   □ Irrigation (crop)
   □ Acres
   □ Industrial
   □ Other:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 516,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   □ Flow-meter
   □ Open-pipe
   □ Orifice Plate
   □ weir

7. PENDING ACTIONS:
   □ CDUA □ SMA □ EIS □ REA □ NONE □ Other (explain)
   Completion Date: Aug 13, 2006 (SEE ATTACHED)

8. REMARKS, EXPLANATIONS: THIS WELL IS TO BE USED AS A STANDBY WELL ONLY
   FOR THE HAWAII WELL B 1293-01.

I 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 30 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 co-axial water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: [signature]
Landowner: [signature]
Contractor: [signature]

Date: ____________________ Date: ____________________ Date: ____________________

For Official Use Only:
Date Received: ____________________ Date Accepted: ____________________
Field Checked By: ____________________ Longitude: ____________________ Aquifer System Name: ____________________
Date: ____________________ Latitude: ____________________ State Well No.: ____________________

3 Jan 97 WPRA Form
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Explanations (cont.)</th>
</tr>
</thead>
</table>

8. PROPOSED WELL SECTION

- **Cement Grout**: 875 ft.
- **Rock Packing**: 0 ft.
- **Total Depth**: 975 ft.
- **Hole Diameter**: 22 in.
- **Cement Group**: 875 ft.

**Approximate Elevation at Time of Application**: Ground elevation, borehole depth and level by a surveyor licensed by the State must be submitted at start of construction. Final elevation of well on completion and/or the time of test must be submitted. Ground elevation above mean sea level (msl) must be submitted at start of construction. Ground elevation, borehole depth and level by a surveyor licensed by the State must be submitted.

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- **Open Hole**: Depth 975 ft.
- **Casing Diameter**: 4 5/8 in.

**Approximate Elevation at Time of Application**: Ground elevation, borehole depth and level by a surveyor licensed by the State must be submitted at start of construction. Final elevation of well on completion and/or the time of test must be submitted. Ground elevation above mean sea level (msl) must be submitted at start of construction. Ground elevation, borehole depth and level by a surveyor licensed by the State must be submitted.

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elev.  depths  H1112'  Ground elev. = 1112'

1112'  0'  cement grout

383.63'  728'  annulus 3" minimum

237'  875'  Hole - 22"

casing, 16" solid ASTM A53 0.975" Thick

187'  925'  water level

cement baskets

casing, fullflow screen, 16", ASTM A53, 0.375" Thick, 94.5' M.W. LF.

137'  975'  bottom of casing with casing shoe

open hole as required 13" OD

Waimea Water Services Inc.
Pahala Deepwell No. 2
Section of Proposed Well
not to scale  5 Dec 95
PROPOSED WELL SITE

Scale: 1:24000
USGS 1982

Pahala Exploratory Stand-by Well
TOPO MAP
Date: 11/14/95
Waimea Water Services Inc.
PROPOSED PROJECT SITE

Pahala Exploratory Stand-by Well
TMK MAP
Date: 11/14/95
Waimea Water Services Inc.
CONSOLIDATION AND RESUBDIVISION MAP

LAND SITUATED AT HIONAMOA, KA'U, ISLAND OF HAWAII, HAWAII.

BEING LAND COMMISSION AWARD 7312, APANA 2 TO M. KEAWE

CONSOLIDATION OF TANK SITE NO. 5 (TMK: 3RD DIV. 9-G-05: 48) AND PARCEL COVERED BY TMK: 3RD DIV. 9-G-05: 16

AND RESUBDIVISION OF SAID CONSOLIDATION INTO LOTS A AND B.

PREPARED BY:
IMATA AND ASSOCIATES, INC.
171 KAPIOLANI STREET • HILO, HAWAII 96720

CLYDE K. MATSUMUGA
LICENSED PROFESSIONAL SURVEYOR
CERTIFICATE NUMBER 4928

TAX MAP KEY: 3RD DIV. 9-G-05: 16 AND 48
TOP NO H-05-92
ISLAND OF HAWAII
TOTAL = 2431 MGD
HYDROLOGIC UNITS
Sustainable Yield / Aquifer Code

REF: MAP H-51
To: John Stubbert
Agency or Organization Name: Wai'anae Water Services
Facsimile Number: 885-7851 Phone Number: 885-6941

Total number of pages, including this page: 4

IF YOU DO NOT RECEIVE ALL OF THE PAGES OR THE TRANSMISSION IS UNCLEAR, PLEASE CALL OEQC AT 586-4185

From: Keio
Re: Pacific Deep Well No. 2 FEA
Remarks: Per your request attached is the front page of the 8/23/96 IEN along with the Table of Contents and the page which describes the project.

Date FAX received: ________________________ Time: ________________________
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(1) Pahala Deep Well No. 2 Exploratory
Stand-By Well Drilling

District: Kau
TMK: 3-9-6-05:16
Applicant: County of Hawaii
Department of Water Supply
25 Aupuni Street
Hilo, Hawaii 96720
Contact: Ken Ikemori (961-3723)

Accepting Authority: County of Hawaii
Department of Water Supply
25 Aupuni Street
Hilo, Hawaii 96720
Contact: Ken Ikemori (961-3723)

Consultant: Waimea Water Services, Inc.
P.O. Box 326
Kamuela, Hawaii 96743
Contact: John Stubbert (885-5941)

Public Challenge Deadline: September 23, 1996
Status: FEA/FONSI issued, project may proceed.

The Department of Water Supply (DWS), County of Hawaii proposes to drill an exploratory stand-by deep well in Pahala in the Kau District of the Big Island of Hawaii. If the exploratory well proves to be productive, it will be outfitted to a stand-by production well to provide backup to the existing Pahala Well (State Well #1229-01) northwest of the town of Pahala and to explore the high level groundwater.

The well will be located near the existing well and 0.5 nmg tank. The ground elevation will be 1112 feet and the well will be drilled 975' to elevation 137' feet. The groundwater stands at about elevation 383 feet. The well diameter will be 22" with a 16" casing. Access to the site will be above the tank on an access previously used for servicing the existing well. Some macadam trees will need to be removed for drilling operations.

The few negative impacts which have been identified in this Final Environmental Assessment should be adequately minimized by the suggested mitigation measures. In accordance with Chapter 343, Hawaii Revised Statutes, it has been determined that this project will not have significant environmental effects and an Environmental Impact Statement is not required. This constitutes a Finding of No Significant Impact.

(2) Waiubata Dairy, Inc.

District: Kau
TMK: 9-5-15:3
Applicant: Waiubata Dairy, Inc.
P.O. Box 55
Papaikou, Hawaii 96781
Contact: Alfred Galimba (696-2828)

Accepting Authority: Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809
Contact: Gary Martin (587-0421)

Consultant: Michele Galimba (964-5775)
P.O. Box 379
Naalehu, Hawaii 96772