**CHECKLIST**

- WELL CONSTRUCTION PERMIT
- PUMP INSTALLATION PERMIT

**WELL NAME or LOCATION:** HUEHUE RANCH HR-4  
**ISLAND:** HAWAI'I

**WELL NUMBER:** 4459-02  
**Tax Map Key:** 7-2-06:09

**OWNER/OPERATOR:**
- Firm Name: HUEHUE RANCH ASSOC. L.P.
- Contact Person: CARL CARLSON
- Address: 75-5722 KUAKINI HWY, #107
  KAILUA-KONA, HI 96740
- Phone: 329-4466

**LANDOWNER:**
- Firm Name: HUEHUE RANCH ASSOC. L.P.
- Contact Person: CARL CARLSON
- Address: 75-5722 KUAKINI HWY, #107
  KAILUA-KONA, HI 96740
- Phone: 329-4466

---

**Date application received:** 2-4-91
**Date acknowledged receipt/request more info:** 2-9-91
**Date application accepted:**
**Suspense date (90 days):**
**Date filing fee deposited:**

**Application sent to following:**

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<td>Office of Hawaiian Affairs</td>
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**Date agenda due:**
**Date submittal due:**
**Date submittal sent to applicant:**

**Date application approved or disapproved:**
**Date applicant notified of decision:**

**REMARKS:**

__________________________
__________________________
__________________________
__________________________
__________________________
__________________________
__________________________
__________________________
LETTER OF TRANSMITTAL

03 JUL 23  11:38, 2003

To: Peter Young
Department of Land and Natural Resources
Commission on Water Resource Management

From: Noelani Laszlo for Milton Morinaga

Reference: HR-2, HR-3 and HR-4 Wells

Sending Via: Mail

ENCLOSED ARE THE FOLLOWING:

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<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Pump Installation Permit</td>
</tr>
</tbody>
</table>

TRANSMITTED HEREWITH FOR THE FOLLOWING REASON(S):

( ) For review and analysis
( ) For signature and return
( ) For signature & forwarding
( ) For approval & return

(✓) As requested
( ) For your use
( ) See remark below

REMARKS:

As requested, enclosed you will find one of the two original Pump Installation Permits for your files. Please contact me should you have any questions.

Milton Morinaga
WB Kukio Resort

cc:
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for HR-2, HR-3 and HR-4 Wells (Well No. 4459-01, 4459-02 & 4558-01) at 72-3667 Mamalahoa Highway, Hawaii. TMK 7-2-006: 009, 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 to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The pump installation permit shall be for installation of a 570 gpm rated capacity or less, pump in the well.

3. The permittee, well operator, and/or well owner shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a monthly basis, on forms provided by the Chairperson (attached).

4. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee, well operator, and/or well owner are notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

5. The permittee, well operator, and/or well owner shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Chairperson within sixty (60) days after completion of work.

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

7. The pump installation permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97). 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 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 pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than 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 or 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: July 8, 2003
Expiration Date: July 8, 2005

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I 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: __________________________

Installer’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.
July 10, 2003

Mr. Sam Ainslie
WB Kukio Resort
P.O. Box 5349
Kailua-Kona, HI 96745

Dear Mr. Ainslie:

Pump Installation Permit
HR-2, HR-3 and HR-4 Wells (Well No. 4459-01, 4459-02 & 4558-01)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 11:

Special Conditions

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

2. Please enclose the pump specification and rating curve for the installed pump with the Well Completion Report.

3. Please conduct a pump test for each well in accordance with the Hawaii Well Construction and Pump Installation Standards and submit the results on the attached forms.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation 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.

Please sign and have the contractor sign both permit originals and return one for our files. A copy of the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.
IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission. Except for the monthly water use report form, please provide copies of all the information in this packet to your pump installation contractor.

If you have any questions, please call Ryan Imata of the Commission staff at [number] or toll-free at [number] (Hawaii), [number] (Kauai), [number] (Maui), or [number] (Lanai & Molokai), extension 70255.

Sincerely,

[Signature]

Peter T. Young
Chairperson

Enclosure
PUMP INSTALLATION PERMIT
HR-2, HR-3, & HR-4 Wells, Well No. 4459-01, 4459-02 & 4558-01

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for HR-2, HR-3 and HR-4 Wells (Well No. 4459-01, 4459-02 & 4558-01) at 72-3667 Mamalahoa Highway, Hawaii, TMK 7-2-006: 009, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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4. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee, well operator, and/or well owner are notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

7. The pump installation permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97). 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 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 pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than 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 or 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: July 8, 2003
Expiration Date: July 8, 2005

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I 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: ___________________________

Installer's Signature: ___________________________ Date: __________

C-57, C-57a, or A License #: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachments:
USGS Department of Health's Safe Drinking Water & Wastewater Branch Hawaii Department of Water Supply
June 18, 2003

Mr. Sam Ainslie
WB Kukio Resort
P.O. Box 5349
Kailua-Kona, HI 96745

Dear Mr. Ainslie:

Pump Installation Permit Application for Well No. 4459-01, 4459-02 & 4558-01

We acknowledge receipt, on June 3, 2003, of your completed Pump Installation permit application and filing fee for the HR-2, HR-3 and HR-4 Wells (Well No. 4459-01, 4459-02 & 4558-01). You can expect your application to be processed within ninety (90) days from this date.

Because the Commission acted on the after-the-fact Pump Installation Permit for the HR-5 Well (Well No 4558-02) on May 21, 2003, we are canceling your application for this permit.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at [redacted] or toll-free at [redacted] (Hawaii), [redacted] (Kauai), [redacted] (Maui), or [redacted] (Lanai & Molokai) extension 70255.

Sincerely,

ERNEST Y.W. LAU
Deputy Director

RI:ss
June 18, 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:  
Pete T. Young, Chairperson
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application
HR-2, HR-3 and HR-4 Wells (Well No. 4459-01, 4459-02 & 4558-01)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by July 3, 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 ____________

RI:ss
Attachment(s)

RESPONSE:

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

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

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

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

[] For the applicant's information, a source of possible wastewater contamination [] is [] 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: ___________
June 18, 2003

TO: Dede Mamiya, Administrator
    Land Division
FROM: Ernest Y.W. Lau, Deputy Director
       Commission on Water Resource Management
SUBJECT: Pump Installation Permit Application
         HR-2, HR-3 and HR-4 Wells (Well No. 4459-01, 4459-02 & 4558-01)

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by July 3, 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 ___________.

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 objections:

Contact Person: ____________________________ Phone: ____________

Signed: ____________________________ Date: ____________
June 18, 2003

TO: Holly McEldowney, Acting Administrator
    Historic Preservation

FROM: Ernest Y.W. Lau, Deputy Director

SUBJECT: Pump Installation Permit Application
         HR-2, HR-3 and HR-4 Wells (Well No. 4459-01, 4459-02 & 4558-01)

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by July 3, 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 [___].

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: ___________________________
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**REMARKS:**
- LINE (1) Well No. 4459-01, 4459-02 & 4558-01
- LINE (2) Well No. 3687-06
- LINE (3)
- LINE (4)

**Waimea Water Services inc.**
P.O. BOX 326 KAMUELA, HAWAI 96743
FAX: (808) **0005847**

**Bank of Hawaii**
Kamuela Branch
Kamuela, Hawaii 96743
59-102/1213

Pay: $100.00

Dept of Land & Nat'l Resources
O. The c/o Commission on Water Resource
ORDER PO Box 621
Honolulu, HI 96809

MONICA A O'SULLIVAN 570-74-5987
JOSEPH O'SULLIVAN 576-47-0244
Hcr 2 Box 6262 Ph. 59-101/7219
Keaau, HI 96749

5/6/03

**First Hawaiian Bank**
Hilo Branch
1200 KILAUEA AVENUE
Hilo, Hawaii 96720

PAY TO THE ORDER OF Dept. of Land and Nat'l Resources $25.00

Tweny Five DOLLARS

J. O'Sullivan
Huehue Ranch Associates
c/o Wai'eli Drilling
P.O. Box 5685
Kailua-Kona, HI 96795

Dear Huehue Ranch Associates:

Well Completion Report for Well No. 4459-02

We received your Well Completion Report Part II for the Huehue Ranch Well #4 (Well No. 4459-02) on October 6, 2000 and acknowledge that it is complete.

If you have any questions, please contact Ryan Imata of the Commission staff at [redacted] or toll-free at [redacted] extension 70255.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

RI:ss
1. State Well No.: 4759-02  
Well Name: HR-4  
Island: Hawaii  
Location/Address: Hauhe Ranch  
Tax Map Key: 7-2-06:09

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: ____________________________

4. Name of driller who performed work: ____________________________

5. Type of rig/construction: ____________________________

6. Date(s) Well Construction and pump tests (if any) completed: ____________________________ 

7. GROUND ELEVATION (referenced to mean sea level, msl): ____________________________ ft.  
Well Bench Mark (description/location): ____________________________ Elevation (msl): ____________________________ ft.

8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)

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<th>Rock Description, Water Level, Dates, etc.</th>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
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<tr>
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</tr>
</tbody>
</table>

(If more space is needed, continue on back.)

9. Total depth of well below ground: ____________________________ ft.  

10. Hole size: ____________________________ inch dia. from ____________________________ ft. to ____________________________ ft. below ground  
__________________________ inch dia. from ____________________________ ft. to ____________________________ ft. below ground  
__________________________ inch dia. from ____________________________ ft. to ____________________________ ft. below ground  

11. Casing installed: ____________________________ in. I.D. x ____________________________ in. wall solid section to ____________________________ ft. below ground  
__________________________ in. I.D. x ____________________________ in. wall perforated section to ____________________________ ft. below ground  

Casing Material/Slot Size: ____________________________

12. Annulus: Grouted from ____________________________ ft. below ground to ____________________________ ft. below ground  
Gravel packed from ____________________________ ft. below ground to ____________________________ ft. below ground  

13. Initial water level: ____________________________ ft. below ground. Date and time of measurement: ____________________________

14. Initial chloride: ____________________________ ppm Date and time of sampling: ____________________________

15. Initial temperature: ____________________________ °F Date and time of measurement: ____________________________

16. PUMPING TESTS: Reference Point (R.P.) used: ____________________________ which elevation is ____________________________ ft.  
(1) Step-Drawdown Test Date ____________________________  (2) Long-term Aquifer Test Date ____________________________
Start water level ____________________________ ft. below R.P.  
End water level ____________________________ ft. below R.P.  
Start water level ____________________________ ft. below R.P.  
End water level ____________________________ ft. below R.P.

17. Aquifer Pump Test Procedures data & graphs (1986 LTAT Form) attached? Yes No

18. As-built drawings attached? Yes No

19. Other remarks/comments: ____________________________ (On back of this form)

Well Drilling Contractor (print) ____________________________ C-57 Lic. No. ____________________________

Signature ____________________________ Date ____________________________

Surveyor (print) ____________________________ Lic. No. ____________________________

Signature ____________________________ Date ____________________________

Applicant (print) ____________________________

Signature ____________________________ Date ____________________________
PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: WAI'ELI DRILLING & DEVELOPMENT
LICENSE SCREEN

[ Look up License Type Codes-> ]
Please click a link listed below to display the other screen.

***** GENERAL LICENSEE *****

LIC ID: CT-16543          Active/Inactive: ACTIVE
NAME: WA'I'ELI DRILLING & DEVELOPMENT
TRADE NAME:
STATUS: VALID THRU EXPIRATION DATE, RENEWAL NOTICE SENT
ENTITY: JOINT VENTURE          BUSINESS CODE:
ORIG LIC DATE: 3/18/91          EXPIRE DATE: 9/30/02
CLASS PREFIX: C          SPECIAL PRIVILEGE:
RESTRICTION:                EDUCATION CODE:
BUSINESS ADDR: P O BOX 5685   KAILUA-KONA HI 96745
MAILING ADDR: P O BOX 5685   KAILUA-KONA HI 96745

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

<-Back   New Search->

EMPLOYEES LIST || EMPLOYERS LIST || INSURANCE/BOND || LICENSE CLASS

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Hawaii State homepage || DCCA || Professional and Vocational Licensing Division

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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
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<td>CORP</td>
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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
Huehue Ranch Associates, L.P.
c/o Waimea Water Services
P.O. Box 326
Kamuela, HI 96743

Dear Huehue Ranch Associates:

Huehue Ranch Well 4 - Pump Installation

We acknowledge receipt of your October 19, 1992 letter requesting approval for the installation of a 500 gpm pump in Huehue Ranch Well 4 (Well No. 4459-02). Approval of the capacity of the permanent pump by the Chairperson is required by Condition 2 of the permit issued in April 1991.

By this letter, your request is approved.

Call Rae M. Loui at [contact number] if you have any questions.

Very truly yours,

[Signature]

WILLIAM W. PATY
CHAIRPERSON

cc: Huehue Ranch Associates, L.P.
Akinaka & Associates
## REGULATION BRANCH
Commission on Water Resource Management

**FROM:**

**TO:**

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<tr>
<td>E. SAKODA</td>
<td>See Me</td>
<td>Glenn—could you please review this data—see it check to approve 500gpm permanent pump. Thanks.</td>
</tr>
<tr>
<td>K. Oshiro</td>
<td>Call</td>
<td></td>
</tr>
<tr>
<td>D. Higa</td>
<td>Review &amp; Comment</td>
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<tr>
<td>R. Hardy</td>
<td>Take Action</td>
<td></td>
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<tr>
<td>J. Zhang</td>
<td>Investigate &amp; Report</td>
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<td>Draft Reply</td>
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**FOR YOUR:**

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<tr>
<td>R. LOUI</td>
<td>Approval</td>
<td>Data appears that well</td>
</tr>
<tr>
<td>S. Kokubun</td>
<td>Signature</td>
<td>can produce 500 gpm. When they ran their 168 test, pump test with HR-1+HR-2, a quick drop in should be maintained in HR-3. According to Glenn, an airline is already set in place. Thanks.</td>
</tr>
<tr>
<td>G. MATSUMOTO</td>
<td>Information</td>
<td></td>
</tr>
<tr>
<td>Y. SHIROMA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To: William Pat~<br>Chairperson<br>Commission On Water Resources Management<br>POB 621<br>Honolulu, Hi 96809<br><br>Fr: John Stubbart<br><br>Re: Request for Pump Permit Approval<br>Huehue Ranch Well HR#4<br>State Well No. 4#59-02<br><br>Date: 19 Oct 92<br><br>On behalf of the well owners (Huehue Ranch Associates), of well HR#4, known as State well No. 4#59-02, we are submitting the attached information and requesting the Commission on Water Resource Management approval of the installed pump.<br><br>The original permit request was for a combined well construction and pump installation permit. The original pump rate and pump size on that permit request is the same as the installed pump.<br><br>Pump tests were completed on 6 June 1992 and a copy of the attached report was transmitted to your offices in June of 1992. We are transmitting the report now to insure DLNR has the report and will issue the above requested permit to Huehue Ranch Associates.<br><br>This well/pump is designated as a stand-by well to the well system at Huehue Ranch.<br><br>If you or your staff have any questions, please contact Steve Bowles or myself.<br><br>cc: Dustin Crimmins<br>Akinaka and Associates
HUEHUE RANCH

WELL # 4

State Well No. 4259-02

AS BUILT
JUNE 1992

Prepared by

WAIMEA WATER SERVICES

and

ISLAND RESOURCES
HUEHUE RANCH

WELL #44
State Well No. 4559-02

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>AS BUILT REPORT</th>
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<td>PUMP AS BUILT INFORMATION</td>
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<td>WATER QUALITY DATA</td>
<td>(Figure 3)</td>
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<td>ALIGNMENT CHART</td>
<td>(Figure 4)</td>
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<tr>
<td>WELL COMPLETION FORM</td>
<td>(Figure 5)</td>
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HUEHUE RANCH

WELL #4
State Well No. 459-02

DRILLING AND TESTING

This well is intended to supply up to 720,000 gallons per day (gpd) for purposes of potable water use. The well was designed and budgeted to be drilled to below sea level. Based on the water data from other wells drilled in the area, (Bowles 1983 to 1990), it was determined that potable quality water was available at this site.

The percolating rainfall passes through the Hualalai Mountain structure enroute to sea. The HR4 well has tapped into a previously a known basal lens resource.

Well drilling (the 12 inch pilot hole) commenced 29 October 1991. Water was first struck at a depth of about 1528 feet (7 foot head).

The 12 inch bore was video taped and a pump test was run on 27 November 1992. A measurable drawdown of 1.38 feet was detected at 230 gpm during the 100 minute test. Water quality was sampled during the test. The following data was recorded:

- Temperature 72 degrees fahrenheit
- Conductivity 1264 to 1278 EC (start) to 193 EC (end) mg/l
- Chloride 120

Based on the evidence provided by the testing, rock cuttings and video taping, a conclusion was reached that the bore had tapped the expected groundwater. The yield and water quality during the preliminary test were satisfactory and it was decided to continue with the well project with no design modifications.

The well was reamed to a diameter of 24 inches, cased and grouted by 18 Februrary 1992. The As-Built dimensions of the well are shown in Figure 1. It was decided, based on test results of the 12 inch bore, to purchase and install a 500 gpm (gallons per minute) pumping unit. This pump was installed.

A series of pumping tests were run between 4 June to 6 June 1992. The results of these tests are contained in Figure 2. Water quality analysis are listed in Figure 3. Both the yield and quality are satisfactory. The well can readily be pumped at a continuous rate of 500 gpm for extended periods.

Upon completion of the permanent electrical connection of the pump, it is recommended that the well be pumped on continuous basis for at least 168 hours in conjunction with wells HR2 and HR1 as part of and aquifer test to better manage the groundwater resource in the future. This test should be performed under control of an experienced hydrogeologist in order to establish aquifer characteristics.
Reference - Waimea Water Services Records, Reports, Correspondence, and Permit.
Bowles, S.P., Island Resources
KKRC Water Development J.V. Records
The Huehue Ranch well # 4 pump was purchased from and installed by the KKRC Water Development Joint Venture. The pump package was assembled by the REDA pump company and consists of deep set 300 hp, 460 volt, submersible pump, motor, cable, control panel, column and column valves. Figure 1 shows the installed dimensions of the pump.

Upon casing, a series of tests were run to evaluate the plumbness and alignment. These tests, as called for in the specifications, consisted of running a 40 foot long pump dummy, caging and use of Totco punch system. The plot of the Totco results are shown in Figure 4. The well survey results indicated that the uni-directional total is within the standard deviation of 20.4 inches per hundred feet as recommended by AWWA (American Water Works Association).

A manual, complete with warranty information, pump curves, and necessary electrical and hydraulic specifications is included with this report. The report should be filed in appropriate locations including an on-site location.

A complete well head piping system has been designed by Akinaka and Associates. By State law, the piping must include an appropriate water meter and water level measuring access. In addition, all pumpage must be reported to the Division of Water Resource Management on a regular basis monthly.

The contracted drillers Well Completion Report is attached as Exhibit 5. This report was sent to the State as required.
TO Keahou Kona Resort Co.

LOCATION HR-41

PUMP HEAD

Stages 15, Thrust 70 C

Type M-520, Hsg. 15

PN-72106-8, Ser. 250251919

ELECT. CABLE

INTAKE

Motor

H.P. 300

Type V71, Date-K91

3450 RPM, 460 Volt, 350 Amp, 60 Hz.


Amb Temp: 25°

Remarks

Form-KK, SFA-39C, Sf: 1.15
Figure 2
### WELL TEST DATA FORM

**WELL HR4**

**DATE 4 JUN TO 6 JUN 92**

0-7.6 PSI

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<td>PSI FT</td>
<td>GPM</td>
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**Figure 2**
CLIENT: WAIMEA WATER SERVICES  
P.O. BOX 326  
KAMUELA, HAWAII 96743

ATTN: JOHN STUBBART

JOB NUMBER: 7537-1

DATE: JULY 08, 1992

SAMPLE LOCATION:

Date/Time Sampled: 06/06/92 @ ---
Date/Time Received: 06/12/92 @ 1345

Matrix: WATER

SAMPLE #: HUEHUE HR4 WELL

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ND = NOT DETECTED

Approved by: [Signature]

Figure 3
CLIENT: WAIMEA WATER SERVICES  
P.O. BOX 326  
KAMUELA, HAWAII 96743  

ATTN: JOHN STUBBART  

JOB NUMBER: 7537-2  

DATE: JULY 01, 1992  

SAMPLE LOCATION:  

Date/Time Sampled: 06/06/92 @ ---  
Date/Time Received: 06/12/92 @ 1345  
Matrix: WATER  
SAMPLE #: HUEHUE HR4 WELL  

<table>
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<th>DETECTION LIMIT mg/L</th>
<th>ANALYSIS DATE</th>
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ND = NOT DETECTED

Approved by: [Signature]

Figure 3
Well HR4
Alignment Survey 3/24/92

Depth of Well in Feet

Accumulative Drift in Inches

- East Drift
- North Drift
- AWWA Allow. Drift

Figure 4
WELL HR4
WELL ALIGNMENT DATA
3/24/92

CASING TO PULLY = 30'

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<th>DRIFT DIFF. ALLOWABLE</th>
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WELL COMPLETION REPORT

INSTRUCTIONS: Please print or type and submit completed report within 30 days of well completion to the Division of Water & Land Development, P.O. Box 313, Honolulu, HI 96809. An as-built drawing of the well and manual analysis, if available, should also be submitted. If necessary, phone 568-1543. Hydrology, Geology section for assistance.

1. STATE WELL NO. 4959-02
2. WELL NAME HR-4
3. LOCATION Huehue Ranch
4. WELL OWNER Huehue Ranch Associates
5. DRILLING OR PUMP INSTALLATION CONTRACTOR KIRK WATERS SOURCE DEVELOPMENT, J.P.
6. TYPE OF JOB Rotary
7. DATE OF WELL COMPLETION 6-6-92
8. RATE OF PUMP INSTALLATION 6-3-92
9. GROUND ELEVATION (sea) 1532 ft.
10. Top of Drilling Platform (sea) 1540 ft.
11. Height of drilling platform above ground surface 8 ft.
12. TOTAL DEPTH OF WELL BELOW GROUND 1625 ft.

J. CASING INSTALLED:
14. " x 0.375 in. wall solid section to 1535 ft. below ground
15. In. I.D. x .375 in. wall perforated section to 1565 ft. below ground

K. ANNULUS:
16. Gravel packed from 1032 ft. to 1525 ft. below ground

L. PERMANENT PUMP INSTALLATION:
17. Pump type, make, serial No. Sub. Reda, ZSC051919
18. Capacity 500 gpm
19. Depth of pump intake casing ft. below ground
20. Depth of bottom of strainer ft. below ground

M. PROPOSED USE Portable

N. INITIAL WATER LEVEL 1525 ft. below ground.
O. INITIAL CHLORIDE 110 ppm.

P. PUMPING TESTS: Reference point (R.P.) used GL, which elevation is 1532 ft.

Q. DRILLER'S LOG:

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level (ft)</th>
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<tbody>
<tr>
<td>0 to 120</td>
<td>Hard w/voids</td>
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<td>120 to 165</td>
<td>Ratty/hard/soft</td>
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</table>

REMARKS: Cement Beaker @ 1525' & 1528'

Submitted by C. Dale Stromquist
Title KIRK WATERS SOURCE DEVELOPMENT, J.P.
Partner

Signature Date 6/30/97

Figure 5
EXISTING WELL NO. HR-2
STATE WELL NO. 4459-01

PROPOSED WELL NO. HR-4

EXISTING WELL NO. HR-1
STATE WELL NO. 4559-01
To: Dustin Crimmings
    Robert Akinaka
    Dale Stromquist

Fr: John Stubbart

Re: HRA WELL #4
CHANGE IN STATE IDENTIFICATION NUMBER
FROM 4459-02 TO 44459-02

Date: 28 Oct 92

Ed Sakoda called this morning to inquire as to the location of well HR #4 at Huehue Ranch. The map provided by Akinaka and Associates in the permit shows the well below the quadrant line. I indicated that the location on the map was pretty close. Ed said the well number should have been 4459-02 as it is then in the same quadrant as HR #2. The approved permit has 4559-02 as the well number.

Ed Sakoda asked me to change the State Identification Number of Well HR #4 to 44459-02. By copy of this memo, we are recommending you also note this in your records and acknowledge the change.

cc: Ed Sakoda.
TO: STATE OF HAWAII
    Division of Water & Land Dev.
    PO Box 373
    Honolulu, HI 96809

ATTN: ____________________________

WE ARE SENDING YOU HEREWITH UNDER SEPARATE COVER THE FOLLOWING ITEMS:

___ Plans       ___ Shop Drawings       ___ Purchase Order
___ Specifications ___ Samples       ___ Copy of Letter
___ Change Order ___ Other       Well Completion Report w/As-Built Drawing

THESE ARE TRANSMITTED AS CHECKED BELOW:

___ For Approval ___ Approved as Submitted
XX For Your Use ___ Approved as Noted
___ As Requested ___ Returned for Corrections
___ For Review & Comment ___ Other

REMARKS: __________________________________________

_________________________________________________

COPY TO: John Schneider, KAJIMA/TAISEI; John Stubbart, WAIMEA WATER SERVICES

SIGNED: ________________________________________
    Partner
**WELL COMPLETION REPORT**

**INSTRUCTIONS:** Please print or type and submit completed report within 35 days of well completion to the Division of Water & Land Development, P.O. Box 313, Honolulu, HI 88809. An as-built drawing of the well and chemical analysis, if available, should also be submitted. If necessary, phone 548-1545. Hydrology, Geology Section for assistance.

A. **STATE WELL NO.** 4459-02  
   **WELL NAME** HR-4  
   **ISLAND** Hawaii

B. **LOCATION** Huehue Ranch  
   **TAX MAP KEY** 7-2-06:09

C. **WELL OWNER** Huehue Ranch Associates

D. **DRILLING OR PUMP INSTALLATION CONTRACTOR** KKRC WATER SOURCE DEVELOPMENT, J.V.

E. **TYPE OF RIG** Rotary  
   **DRILLER** Thomas K. Helfrich

F. **DATE OF WELL COMPLETION** 6-6-92  
   **DATE OF PUMP INSTALLATION** 6-3-92

G. **GROUND ELEVATION (m.s.l.)** 1532 ft.  
   **Top of Drilling Platform (m.s.l.)** 1560 ft.  
   **Height of drilling platform above ground surface** 8 ft.  
   **Bench mark and method used to determine ground elevation** ft.

H. **TOTAL DEPTH OF WELL BELOW GROUND** 1625 ft.

I. **HOLE SIZE:**  
   **Type of perforation** Lowered (R-M)

J. **CASING INSTALLED:**  
   **I.D. x O.375 in.**  
   **Type of casing** Grouted from  
   **Gravel packed from**  
   **Depth of pump intake setting** ft. below ground  
   **Depth of bottom of airline** ft. below ground

K. **ANNUAL:**  
   **Drilled from** GL ft. to 1032 ft. below ground

L. **PERMANENT PUMP INSTALLATION:**  
   **Pump type, make, serial No.** Subn., Reda, 2SC2051919  
   **Motor type, H.P., voltage, r.p.m.** Subn. 30 HP, 460V, 1750 RPM  
   **Capacity** 500 gpm  
   **Depth of pump intake setting** ft. below ground  
   **Well No.** 4459-02

M. **PROPOSED USE** Potable

N. **INITIAL WATER LEVEL** 1525 ft. below ground.  
   **Date and time of measurement** 5/25/92 7:30 AM

O. **INITIAL CHLORIDE** 110 ppm  
   **Date and time of measurement** 6/4/92 9:30 AM

P. **PUMPING TESTS:** Reference point (R.P.) used: GL  
   **Elapsed time (hours)** 7:38AM to 3:45PM  
   **Rate (gpm)** 235  
   **Draw down (ft.)** 120  
   **Temp. °F** 74.8

Q. **DRILLER’S LOG:**  
   **Depth. ft.**  
   **Rock Description & Remarks**  
   **Water Level** ft.  
   **Depth. ft.**  
   **Rock Description & Remarks**  
   **Water Level** ft.  
   **0 to 40** Hard  
   **40 to 165** Hard  
   **165 to 190** Hard w/voids  
   **190 to 200** Ratty/hard/soft  
   **200 to 234** Hard/soft/ratty cinders  
   **234 to 452** Hard blue rock  
   **452 to 727** Ratty/medium  
   **727 to 851** Ratty/soft w/hard spots  
   **851 to 1069** Medium/soft  
   **1069 to 1195** Ratty/soft/hard spots  
   **1195 to 1380** Ratty/medium/hard  
   **1380 to 1566** Ratty/medium/hard  
   **1566 to 1625** Ratty/medium/soft

REMARKS: Cement Basket @ 1525’ & 1528’

Submitted by  
C. Dale Stromquist  
Title KKRC WATER SOURCE DEVELOPMENT, J.V.  
Partner  
Date 6/4/92
WATER TABLE 0' ELEV.

EXIST. GROUND LEVEL 1550±

3" MIN. ANNULAR SPACE

14" I.D. 0.375" THICK SOLID WELL CASING

COARSE AGGREGATE FILL OF ANNULAR SPACE (3/8" MATERIAL)

CEMENT 10'

BENTONITE 2'

SAND 2'

AGGREGATE 4'

TWO COMMERCIAL BASKETS 5' APART

BLANK CORTEN CASING 10'

PERFORATED WELL SCREEN 14" I.D.

CASING SHOE

13" DIA. OPEN HOLE

HUEHUE HR-4 - AS-BUILT DRAWING
To: Ed Sakoda
Fr: John Stubbart
Re: Commencement of Work on Wells HR4 No. 4559-02
     KI3 No. 4759-03
Date: 19 Sep 91

This is to notify you that the two wells mentioned above are under construction. The General Contractor is Kajima-Taisel Joint Venture. I will list the subcontractors doing the drilling below.

Well HR4 No. 4559-02. The well project started 12 Sep 91 with site access and pad construction by KKRC Water Source Development. KKRC will be using air hammer drilling technology to drill the pilot hole.

Well KI3 No. 4759-03. The well project started 12 Sep 91 with site clearing and the commencement of drilling with a small air hammer by Roscoe Moss Drilling Co.

Copies of the specifications will be forwarded to your office. Please contact me if you require any other data at this time.
The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

Well Construction and Pump Installation Applications

Thank you for the opportunity to comment on the following permit applications:

- Palani-Lanihau (4158-01) Well and Pump
  - Huehue Ranch "1" (4559-01) Pump
  - "2" (4459-01) "
  - "3" (4558-01) "
  - "4" (4459-02) Well and Pump
- Kukio Resort Irr "1" (4759-01) Pump
  - "2" (4759-02) "
  - "3" (4759-03) Well and Pump
- Makapuu-Sea Life park "3" (1940-11) Pump
- Kawela-Salvido/Harper (0356-04) Well and Pump

These projects are not expected to impact Hawaiian Home Lands; we have no comment at this time.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission

HLD:DCY:CI
TO: Huehue Ranch Associates, L.P.
75-5722 Kuakini Highway, #107
Kailua-Kona, HI 96740

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Huehue Ranch Well 4 (Well No. 4§59-02) within Tax Map Key: 7-2-06:09, for municipal use, is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), P.O. Box 373, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction, testing, and installation of a 500 gallons per minute capacity, or less, pump in the well, as determined by the pumping test results. The applicant shall submit to DWRM the test results and proposed permanent pump information, based on the test, for approval by the Chairperson. No permanent pump may be installed and no water used from the well without the Chairperson's approval.

3. The proposed use 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 and pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.
4. The following shall be submitted to DWRM within 30 days after completion of the work:
   a. Well Completion Report.
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

5. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage on a monthly basis.

6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within 24 months from the date of permit issuance.

8. The applicant shall provide the State Historic Preservation Division with documentation that the project area has undergone an archaeological survey. The permit shall be issued after the State Historic Preservation Division has reviewed and accepted the appropriate documentation and concurs that the project will have "no effect" or "no adverse effect" on historic sites.

APR 2 1991
Date of Issuance

cc: USGS
Department of Health
   Drinking Water Branch
   Ground Water Protection Program
Hawaii Department of Water Supply
Akinaka & Associates, Ltd.
March 15, 1991

MR MANABU TAGOMORI
DEPUTY DIRECTOR
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P O BOX 621
HONOLULU HI 96809

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION

We have reviewed the subject permit application and have no objections to the following proposed wells being constructed.

1. Palani-Lanihau, Well No. 4158-01
   TMK: 7-4-02: 8

2. Huehue Ranch "1", Well No. 4559-01
   TMK: 7-2-06: 09

3. Huehue Ranch "2", Well No. 4459-01
   TMK: 7-2-06: 09

4. Huehue Ranch "3", Well No. 4558-01
   TMK: 7-2-04: 07

5. Huehue Ranch "4", Well No. 4459-02
   TMK: 7-2-06: 09

   TMK: 7-2-4: 05

   TMK: 7-2-4: 05

   TMK: 7-2-04: 05

ROBERT K. YANABU, Division Chief
Engineering Division

CKY: byf
March 13, 1991

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

WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT APPLICATIONS
APPLICANTS: PALANI-LANIHAU, HUEHUE RANCH 1, 2, 3 AND 4
KUKIO RESORT IRRIGATION 1, 2, AND 3
TAX MAP KEY 7-4-2:8, 7-2-6:9, 7-2-4:7, 7-2-4:5

We have reviewed the subject applications and have no comments or requirements.

H. William Sewake
Manager
WA
The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

SUBJECT: WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT APPLICATION
HUEHUE RANCH WELL NO. 4
STATE WELL NOS. 4459-02
KAILUA-KONA, HAWAII

Thank you for the opportunity to review and comment on the subject document. We have examined the application and have the following comments to offer:

1. The application indicates that the subject well will be for municipal use. If the well is to serve 25 or more individuals at least 60 days per year or will have a minimum of 15 service connections, the applicant will be required to comply with the Department's Administrative Rules, Title 11, Chapter 20, "Potable Water Systems."

2. Section 11-20-29 of Chapter 20 requires that a new source of potable water serving a public water system be approved by the Director of Health prior to its use. Such an approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

3. The proposed well is situated above the Underground Injection Control (UIC) line. Land areas above the UIC line are considered to contain underground sources of drinking water. Thus, it is essential that the well be designed and constructed to prevent the possibility of groundwater contamination. For example, the well should have a concrete well pad and full grouting to prevent seepage or floodwaters from migrating down the well shaft.
4. The operation of the Huehue Ranch well nos. 1 through 4 should not be allowed to adversely affect the water quality of nearby drinking water wells. The map accompanying the application indicates that the proposed wells will be located within 5,000 feet of the Cambridge Pacific (State well no. 4658-01), Kaupulehu Development (State well nos. 4658-02 and -03) wells. We would also like to note that the location of Huehue Ranch well no. 1 shown on this map differs slightly (opposite side of the road) from that shown on the map accompanying the pump installation permit applications for Huehue Ranch well nos. 1, 2, and 3 (State well nos. 4559-01, 4459-01, 4558-01, respectively).

If you should have any questions, please contact the Safe Drinking Water Branch at [redacted]

Very truly yours,

[Signature]

JOHN C. LEWIN, M.D.
Director of Health

cc: Carl A. Carlson, Jr.
Huehue Ranch Associates, L.P.
75-5722 Kuakini Highway, #107
Kailua-Kona, HI 96740
The Honorable William W. Paty  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, Hawaii 96809  

Attn: Mr. Manabu Tagomori, Deputy  

Dear Mr. Paty:

We have received the following water permit applications. Thank you for the opportunity to review these applications:

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
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</tr>
</thead>
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<tr>
<td>Hawaii</td>
<td>Palani-Lanihau</td>
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<td>Molokai</td>
<td>Kawela-Salvido/Harper</td>
<td>0356-04</td>
<td>Well and Pump</td>
</tr>
</tbody>
</table>

We have no specific concerns with the above-referenced water permit applications.

As you are aware, we have a continuing concern about the ratio of water that is allowed to be withdrawn for commercial and resort use. Specifically, we are concerned that the amount of water drawn for commercial and resort use be measured against and the present and future water needs for residential and agricultural use and that water needed for residential and agriculture use be guaranteed.

We have no other comments or concerns at this time.

Sincerely,

Moses K. Keale, Sr.
Chair, Board of Trustees
March 4, 1991

The Honorable William W. Paty
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawaii 96809

Attn: Mr. Manabu Tagomori, Deputy

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We have no specific concerns with the above-referenced water permit applications.

As you are aware, we have a continuing concern about the ratio of water that is allowed to be withdrawn for commercial and resort use. Specifically, we are concerned that the amount of water drawn for commercial and resort use be measured against and the present and future water needs for residential and agricultural use and that water the needs for residential and agricultural use be guaranteed.

We have no other comments or concerns at this time.
MEMORANDUM

TO:       Manabu Tagomori, Deputy Director
           Commission on Water Resource Management

FROM:     Don Hibbard, Administrator
           State Historic Preservation Division

SUBJECT:  Well Construction and Pump Installation -- Drilling New
           Well and Pump Installation at Two Existing Well Sites
           (Huehue Ranch Assoc., L.P.)
           Puukala & Kaulana Homesteads, Mahaiula, North Kona,
           Hawaii
           TMK: 7-2-04: 07; 7-2-06: 09

HISTORIC PRESERVATION PROGRAM CONCERNS:

We believe that the installation of a pump at Well Nos. 1, 2 and 3
in this application will have "no effect" on historic sites. Presumably
these wells are already established, and pump installation is unlikely
to disturb any new ground surfaces which could in turn destroy historic
remains.

For Well No. 4, however, we will need more information before we
can determine if construction or drilling activities will have "no
effect" on historic sites. According to our records, no archaeological
survey has been conducted on this parcel so we don't know if historic
sites are present. Based on studies further to the south, the probability
of agricultural or residential features is relatively high. It is also
important to know if the ground surface at the well site has been severely
altered by past land use or bulldozing. If it has, then the probability
of there being historic remains is slight. If it hasn't been altered, then we may ask that the well site be
inspected by a professional archaeologist to determine if any
historic sites are present to assess their significance and to
propose mitigation measures, if necessary.

If you have any questions about this review, please contact Holly
McEldowney at [REDACTED]
Transmitted for your review and comment is a copy of the following permit application(s):

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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by March 4, 1991.

Should you have any questions, please contact Manabu Tagomori, Deputy Director at

Very truly yours,

WILLIAM W. PATY

DN: mh
Enc.
Honorable John C. Lewin, M.D.
Director
Department of Health
State of Hawaii
1250 Punchbowl Street
Honolulu, Hawaii 96813

Attn: Mr. Thomas Arizumi, Drinking Water Branch

Dear Dr. Lewin:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comment is a copy of the following permit application(s):

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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by March 4, 1991.

Should you have any questions, please contact Manabu Tagomori, Deputy Director at

Very truly yours,

WILLIAM W. PATY

DN: mh
Enc.
Mr. Thomas K. Kaulukukui, Sr.
Chairman & Trustee-At-Large
Office of Hawaiian Affairs
1600 Kapiolani Blvd., Suite 1500
Honolulu, Hawaii 96814

Attn: Ms. Linda Delaney, Land & Natural Resources Division

Dear Mr. Kaulukukui:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comment is a copy of the following permit application(s):

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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by March 4, 1991.

Should you have any questions, please contact Manabu Tagomori, Deputy Director at

Very truly yours,

WILLIAM W. PATY

DN: mh
Enc.
Mr. Carl Carlson  
Huehue Ranch Assoc., L.P.  
75-5722 Kuakini Hwy., Rm. 107  
Kailua-Kona, Hawaii 96740  

Dear Mr. Carlson: 

We have received your applications and filing fees for the following well construction and pump installation permits:

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We are reviewing these applications for completeness. The processing of the application for well HR-5 (Well No. 4558-02, TMK 7-2-04:14) is pending the receipt of a completed application, including the signature of the landowner.

Should you have questions, please call the Regulation Branch of the Division of Water Resource Management at [REDACTED]

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy Director

NF:mh
MEMORANDUM

TO: Don Hibbard, Director
   Historic Preservation Program

FROM: Manabu Tagomori, Deputy Director
   Commission on Water Resource Management

SUBJECT: Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comment is a copy of the following permit application(s):

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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, by March 4, 1991.

Should you have any questions, please contact our Regulation Branch at [Redacted].

DN: mh
Enc.
Dear Mr. Sewake:

Well Construction and Pump Installation Permit Application(s)

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Should you have any questions, please contact our Regulation Branch at [Contact Information]

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

DN:bm
Enc.
Mr. Bruce C. McClure  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Mr. McClure:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comment is a copy of the following permit application(s):

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Should you have any questions, please contact our Regulation Branch at

Sincerely,

MANABU TAGOMORI
Deputy Director

DN:bm
Enc.
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<th>DEDUCTION</th>
<th>NET AMOUNT</th>
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<td>01/30/91</td>
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**Well Construction / Pump Installation Permits:**
- HR-4 (Well No. 4459-02)
- KI-3 (Well No. 4759-03)

**Check Details:**
- CHECK DATE: 02/01/91
- CONTROL NUMBER: 003619
- TOTALS: DEPT.-LAND & NATURAL RESOURCES
- NET AMOUNT: 50.00

**Payment:**
- *FIFTY DOLLARS AND NO CENTS*
- TO THE ORDER OF DEPT.-LAND & NATURAL RESOURCES
- DATE: 02/01/91
- CONTROL NO.: 003619
- AMOUNT: 50.00

Wells 06-4459-02, 08-4759-03 both well costs & pump
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
Division of Water Resource Management

APPLICATION FOR
X WELL CONSTRUCTION PERMIT
X PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $20.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 148-7143, Hydrology/Geology Section for assistance.

1. WELL LOCATION
   WELL NO. HR-4
   Island Hawaii Tax Map Key 7-2-06:09
   Address 72-3667 Hawaii Belt Road
   (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
   Firm Name Huehue Ranch Assoc., L.P.
   Contact Person Carl A. Carlson, Jr.
   Address 75-5722 Kuakini Hwy, #107
   Phone 329-4466
   Address 75-5722 Kuakini Hwy, #107
   Phone 329-4466

3. PROPOSED CONTRACTOR FOR:
   ☑ Well Drilling ☑ Pump Installation
   Name To be determined by bid
   Phone
   Address
   Contractor's License No.

4. PROPOSED WORK
   ☑ Drill New Well ☑ Deepen ☑ Redrill
   ☑ Alter ☑ Seal ☑ Abandon
   ☑ Install New Pump ☑ Replace Pump ☑ Modify Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE
   ☑ Municipal (including hotels, stores, etc.) ☑ Military
   ☑ Domestic (individual, noncommercial water systems) ☑ Industrial
   ☑ Irrigation (specify) ☑ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL 720,000 gallons per day

7. PROPOSED PUMP INFORMATION
   Pump Type: ☑ Vertical Turbine ☑ Submersible
   Motor: ☑ Diesel ☑ Gas ☑ Electric: 300 Rated Horsepower
   Rated Pump Capacity 500 gallons per minute (gpm)

Well Owner (print) HUEHUE RANCH ASSO., L.P.
Signature
Date 3/30/91 At Landowner/General Manager

Landowner (print) HUEHUE RANCH ASSO. L.P.
Signature
Date 3/30/91 At Owner/General Manager

For Official Use Only:
Field Checked By
Latitude
Longitude
Hydrologic Unit
State Well No. 4469-02
Unit: May 1917

90°E 40°N
Briefly describe the proposed work:

Drill additional drinking water well for Huehue Ranch/Regent Kona Coast Resort

Contractor to install submersible pump and motor, pump controls, discharge piping and appurtenances.

PROPOSED SECTION OF WELL

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
Division of Water Resource Management

APPLICATION FOR
X WELL CONSTRUCTION PERMIT
X PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 317, Honolulu, Hawaii 96811. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 818-745-4000, Hydrology/Geology Section for assistance.

1. WELL LOCATION WELL NO. HR-4
Island Hawaii Tax Map Key 7-2-06:09
Address 72-3667 Hawaii Belt Road
(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
Firm Name Huehue Ranch Assoc., L.P.
Contact Person Carl A. Carlson, Jr.
Address 75-5722 Kuakini Hwy, #107
Kailua-Kona, HI 96740
Phone 329-4466

3. PROPOSED CONTRACTOR FOR:
Name To be determined by Bid
Address __________________________

4. PROPOSED WORK
[ ] Drill New Well [ ] Deepen [ ] Redrill
[ ] Alter [ ] Seal [ ] Abandon
[ ] Install New Pump [ ] Replace Pump [ ] Modify Pump
(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE
[ ] Municipal (including hotels, stores, etc.) [ ] Military
[ ] Domestic (individual, noncommercial water systems) [ ] Industrial
[ ] Irrigation (specify) [ ] Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL 720,000 gallons per day

7. PROPOSED PUMP INFORMATION
Pump Type: [ ] Vertical Turbine [ ] Submersible [ ] Centrifugal
[ ] Diesel [ ] Gas [ ] Electric: 300 Rated Horsepower
Rated Pump Capacity 500 gallons per minute (gpm)

Well Owner (print) HUEHUE RANCH ASSOC., L.P.
Signature __________________________ Date 1/30/91
Landowner (print) HUEHUE RANCH ASSOC., L.P.
Signature __________________________ Date 1/30/91

For Official Use Only:
Field Checked By __________________________ Latitude ____________
Date __________________________ Hydrologic Unit ____________
Longitude ____________ State Well No. 4459-02

Briefly describe the proposed work:

Drill additional drinking water well for Huehue Ranch/Regent Kona Coast Resort

Contractor to install submersible pump and motor, pump controls, discharge piping and appurtenances.

PROPOSED SECTION OF WELL

Elevation at top of casing ft., msl.

Ground Elev. 1550 ft., msl

Cement Grout 500 ft.

Hole Dia. 18 in.

Total Depth 1650 ft.

Rock Packing 1025 ft.

Solid Casing:
Material: Steel
Length 1550 ft.
Diameter 14 in.
Wall thickness 0.375 in.

Casing: /Perforated /X/Screen
Material Corten Steel
Length 40 ft.
Diameter 14 in.
Wall thickness 0.315 in.
Openings 17.3 sq. in./L.F.

Open Hole:
Length 100'
Diameter 13 in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
EXISTING WELL NO. HR-1
STATE WELL NO. 4559-01

EXISTING WELL NO. HR-2
STATE WELL NO. 4459-01

PROPOSED WELL
NO. HR-4

HUEHUE/KUKIO WELLS
WELL NO. HR-4

HUEHUE/KUKIO DEVELOPMENT PROJECT
KAILUA-KONA, HAWAII
DRILLING, CASING AND TESTING

SCALE
1000 2000 3000 4000 FEET
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

DATE: 02/06/91

WAIMEA WATER SERVICES
AKONAKA & ASSOCIATES, LTD.

MISCELLANEOUS DETAILS
SHEET 3 OF 5 SHEETS