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<td>NAKAMA, L.</td>
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WELL NUMBER 3750-01 WELL NAME Kanesuchi Irrigation well

ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:
1 COVER LETTER
2 PERMIT (2x)
3 PUMP TEST
4 DOH COMMENTS
5 LAND DIV. COMMENTS
6 WCR FORM

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
1 COVER LETTER
2 PERMIT (2x)
3 DOH COMMENTS
4 LAND DIV. COMMENTS
5 WCR FORM
6 WUR FORM

pump test not required
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 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.

The permittee is 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.

To validate your pump installation permit, 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** - Unless specifically exempted, pump installation may not proceed without a validated permit 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.

Finally, this letter is notice that we have accepted your Well Completion Report - Part I as complete.

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

Enclosure
PUMP INSTALLATION PERMIT

Kaneyoshi Irrigation Well, Well No. 3759-01

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 Kaneyoshi Irrigation Well (Well No. 3759-01) at North Kona, Hawaii, TMK 7-5-20:24, 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 75 gpm capacity, or less, pump in the well.
3. The permittee 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 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.
5. The permittee 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 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 is incorporated into this permit by reference and is 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 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 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: December 8, 1999
Expiration Date: December 8, 2001

TIMOTHY E. JOHN, 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 do not hold a valid permit 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: ___________________________ C-57, C-57a, or A 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.

Attachments

USGS
Department of Health/ Safe Drinking Water & Wastewater Branch
Hawaii Department of Water Supply
PUMP INSTALLATION PERMIT
Kaneyoshi Irrigation Well, Well No. 3759-01

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 Kaneyoshi Irrigation Well (Well No. 3759-01) at North Kona, Hawaii, TMK 7-5-20:24, 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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2. The pump installation permit shall be for installation of a 75 gpm capacity, or less, pump in the well.

3. The permittee 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 in stream flow standards. This permit or the authorization to 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.

5. The permittee 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 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 is incorporated into this permit by reference and is 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.

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9. 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.

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: December 8, 1999
Expiration Date: December 8, 2001

TIMOTHY E. JOHNS, 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 do not hold a valid permit 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: Kanazawa
Date: Feb. 18, 2000
Printed Name: YOSHIKI
Firm or Title: Kaneyoshi Co., LTD, President

Installer's Signature: Komuro
Date: 1/3/97
Printed Name: SHOICHI
Firm or Title: Komuro Waiuli, CO-170

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

Attachments
USGS
Department of Health/ Safe Drinking Water & Wastewater Branch
Hawaii Department of Water Supply
Mr. Garrett Webb  
P.O. Box 632  
Kailua-Kona, HI 96745  

Dear Mr. Webb:

Well Completion Report for Well No. 3759-01

We have received your Well Completion Report Parts I and II for the Kaneyoshi Irrigation Well (Well No. 3759-01) and acknowledge that it is complete.

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

Sincerely,

[Signature]

EDWIN T. SAKODA  
Acting Deputy Director

RI:ss
1. **Pump Tests Check**  Glenn Bauer_________ (initial)

   **Yes**  |  **No**  |  **If no, describe deficiency**

   **Step-Drawdown Test:**
   - acceptable  □  □
   - followed WCPI Stds  □  □
   - analysis attached  □  □
   - proposed pump cap o.k.  □  □

   **Aquifer Pump Test:**
   - acceptable  □  □
   - followed WCPI Stds  □  □
   - T & S analysis attached  □  □

   **Well Interference:**
   - estimated Steady-State drawdown at 1-mile radius is _________ ft.
   - analysis attached  □  □

   **Stream Surface Water Impacted:**
   - □  □  ← If yes, identify most probable stream

2. **Construction Check**  Mitch Ohye _______ (initial)

   **Yes**  |  **No**  |  **If no, describe deficiency**

   - data complete  □  □
   - followed WCPI Stds  □  □
   - wellphys.dbf updated  □  □
   - welaplic.dbf updated  □  □
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<td>LUM, A.</td>
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<td>KUNIMURA, I.</td>
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75 gpm - needs pump test but close to threshold (70 gpm).

Is everything else okay?
**WELL COMPLETION REPORT**

State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

**PART I. WELL CONSTRUCTION REPORT**

1. **State Well No.:** 3759-01  
   **Well Name:** KANEYOSHI IRRIG. WELL  
   **Island:** HAWAII

2. **Location/Address:** ALII U DRIVE  
   **Tax Map Key:** 7-5020:024

3. **Drilling Company:** WAI'ELI DRILLING & DEVELOPMENT

4. **Name of driller who performed work:** MARLIN KNOLL

5. **Type of rig/construction:** CP 630 Tophead Rotary

6. **Date(s) Well Construction and pump tests (if any) completed:** 1/20/99

7. **GROUND ELEVATION** (referenced to mean sea level, msl): 36.8 ft.  
   **Well Bench Mark (description/location):** top of well discharge head

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

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<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
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</thead>
<tbody>
<tr>
<td>0 to 39</td>
<td>mixed layers hard to med</td>
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<tr>
<td>39 to 47</td>
<td>cinder stringers</td>
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</tbody>
</table>

9. **Total depth of well below ground:** 47 ft.

10. **Hole size:**  
    - 10 inch dia. from 0 ft. to 47 ft. below ground
    - 5 in. I.D. x PVC in. wall solid section to 37 ft. below ground
    - 5 in. I.D. x PVC in. wall perforated section to 47 ft. below ground

11. **Casing installed:**  
    - 5 in. I.D. x PVC in. wall solid section to 37 ft. below ground
    - PVC w/slots 5/16 holes

12. **Annulus:**  
    - Grouted from 0 ft. below ground to 34 ft. below ground
    - Gravel packed from 34 ft. below ground to 47 ft. below ground

13. **Initial water level:** 36 ft. below ground.  
    **Date and time of measurement:** 1/27/99

14. **Initial chloride:** 5000 ppm  
    **Date and time of sampling:** 1/27/99

15. **Initial temperature:** 68°F  
    **Date and time of measurement:** 1/27/99

16. **PUMPING TESTS:** Reference Point (R.P.) used:  
    **(1) Step-Drawdown Test Date**  
    **Start water level** ft. below R.P.  
    **End water level** ft. below R.P.

    **(2) Long-term Aquifer Test Date**  
    **Start water level** ft. below R.P.  
    **End water level** ft. below R.P.

17. **Aquifer Pump Test Procedures data & graphs (1/9/96 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):** WAI'ELI DRILLING & DEVELOPMENT  
**Lic. No.:** C-57

**Surveyor (print):** CHRYSTAL T. YAMASAKI  
**Lic. No.:** LS-4331

**Applicant (print):** YOSHIKI KANAZAWA

**Signature**: 

**Date:** 2/7/99

Note: Surveyors determined the elevation of 38.08 MSL on a "x" on a fence post near the well site.
PART II. (PERMENENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: WAI'ELI DRILLING & DEVELOPMENT
21. Name of person performing work: MARLIN KNOLL
22. Date Pump Installation Completed: 1/20/99
23. PUMP INSTALLATION:
   Pump Type, Make, Serial No.: Grundfos 60S20-4 #06110004 Capacity: 75 gpm
   Motor type, H.P., Voltage, rpm: Franklin 230V 2 hp
   Depth of Pump Intake Setting: 38.82 ft. below land/head which elevation is 37 ft.
   Depth to bottom of airline: none ft. below which elevation is ______ ft.
   Pumping Head is: 37 ft. Type of flow meter: turbine which measures in gpm

24. As-built drawings attached? X Yes  No
25. Other remarks/comments: (See below)

<table>
<thead>
<tr>
<th>Date</th>
<th>Water Level (ft.)</th>
<th>Rock Description, Remarks</th>
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<tbody>
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<td>1950</td>
<td>-</td>
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Pump Installation Contractor (print): WAI'ELI DRILLING C-57 Lic. No.: C 16543
Signature: [Signature]
Applicant (print): YAMAKIN LTD. / KANEYOSHI CO., LTD.
Signature: [Signature] Date: 2/5/99
20. Pump Installation Company: WAI'ELI DRILLING & DEVELOPMENT
21. Name of person performing work: MARLIN KNOLL
22. Date Pump Installation Completed: 1/20/99
23. PUMP INSTALLATION:
   - Pump Type, Make, Serial No.: Grundfos 60S20-4 #06110004 Capacity: 75 gpm
   - Motor type, H.P., Voltage, rpm: Franklin 230V 2 hp
   - Depth of Pump Intake Setting: 38.82 ft. below land/head which elevation is 37.4 ft.
   - Depth to bottom of airline: none ft. below which elevation is ft.
   - Pumping Head is: 37 ft. Type of flow meter: turbine which measures in gpm
24. As-built drawings attached: Yes No
25. Other remarks/comments: (See below)

Pump Installation Company (print): WAI'ELI DRILLING C-57 Lic. No. C 16543
Signature: [Signature]
Date: 2/5/99
Applicant (print): YAMAKIN/LTD./KANEYOSHI CO., LTD.
Signature: [Signature]
Date: [Date]

8. (cont’d) DRILLER’S LOG (cont’d):

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<th>Water Level Dates</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks,</th>
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19 & 25. Remarks: 3159-01 KANEYOSHI INC.
Kaneyoshi IRAK. No. 1

A2011 # 3759-01

37.70' 3.5' CMAST TO SURFACE

38.82' 3.5' CMAST TO SURFACE

40.39' TOTAL

H2 = 36.7'  

Top of gravel, 3.5' 1/2" Jacketed Cable  

Pump Motor model 60320-4  
1.45 HP, 4.2.6.0, 60 Hz  
3 ph. 230 volt 1.5 Kw  

Motor Blockage 2.0" 2.0"

Electrical 1.4' 3 Wire 230 Volt 1.5Kw

Fill 2.0" model 1334 375 9204  

C50, T.D. 42.5

Ris. of Bracket fill

T.D. 47.
Mr. Garrett Webb
P.O. Box 632
Kailua-Kona, Hawaii 96745

Dear Mr. Webb:

Well Construction Permit
Kaneyoshi Irrigation Well (Well No. 3759-01)

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. 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.

2. The wall thickness shall be in compliance with section 2.4c of the Hawaii Well Construction and Pump Installation Standards.

3. The depth of grouting shall be in compliance with section 2.6c of the Hawaii Well Construction and Pump Installation Standards.

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, 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."

a permanent pump may be installed prior to the permanent pump installation permit issuance. 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 validated well construction permit.

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 worksheet and the well completion report form are enclosed for your use. Please provide all the information in this packet to your well drilling contractor.

IMPORTANT - The permittee 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.

If you have any questions, please call Mr. Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), 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 Kaneyoshi Irrigation Well (Well No. 3759-01) at North Kona, Hawaii, TMK 7-5-20: 24, 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 Standards (a pump testing worksheet is 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; 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 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: October 9, 1998
Expiration Date: October 9, 2000

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 do not hold a valid permit 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.

Permittee’s Signature: ___________________________ Date: __________
Printed Name: ___________________________ Firm or Title: __________
Driller’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
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 Kaneyoshi Irrigation Well (Well No. 3759-01) at North Kona, Hawaii, TMK 7-5-20: 24, 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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Permittee's Signature: [Signature]
Printed Name: [Name]
Firm or Title: [Title]
Date: [Date]

Driller's Signature: [Signature]
Printed Name: [Name]
Firm or Title: [Title]
License # [License]
Date: [Date]

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
### COMMISSION ON WATER RESOURCE MANAGEMENT

**FROM:** RYAN  
**DATE:** 10/2/98  
**SUSPENSE DATE:**

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<td>KUNIMURA, I.</td>
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**PLEASE:**

1. Review & Comment  
2. Take Action  
3. Type Final  
4. File  
5. Xerox copies

### ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:

- 1 COVER LETTER  
- 2 PERMIT (2x)  
- 3 PUMP TEST  
- 4 DOH COMMENTS  
- 5 WCR FORM

**TO BE SENT TO APPLICANT**

**FOR OFFICE USE ONLY**

### ATTACHMENTS FOR PUMP INSTALLATION PERMIT:

- 1 COVER LETTER  
- 2 PERMIT (2x)  
- 3 DOH COMMENTS  
- 4 WCR FORM  
- 5 WUR FORM

**TO BE SENT TO APPLICANT**

**FOR OFFICE USE ONLY**

---

**KANEYASHI Irr well**

3758-01

80901
3-7-5-20-24 75-6076 ALII DR

Owner: KANEYOSHI CO., LTD.
Tax Payer: KANEYOSHI CO., LTD.

Tenure: F

Semi-Annual Tax: $7,709.50

Assessed Value (98/99): 1,541,900
Exemption: 0

Land: 1,541,900
Bldgs: 0
Dwellings: 2

Size: 3.08 acres
PITI: 800
Zoning: RS-15

Use: 0

Tenure: F

Size: 3.08 acres
PITI: 800
Zoning: RS-15

Use: 0

--- Sales ---
03/08/89 DEED $2,110,000 B/P 22927/684 LCD 1618270
SHIN ETSU TRADING CO USA INC

03/08/89 DEED $3,400,000 B/P 22927/693 LCD 1618272
KANEYOSHI CO LTD

Press ESC or enter C (clear) to begin a new search, or
### SECTION 1: WELL LOCATION INFORMATION

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<td>System Sustainable Yield</td>
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### SECTION 2: WELL SECTION DATA  
(enter data in grey cells only)

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<tr>
<th>Elevation at top of casing</th>
<th>ft., m.s.l.</th>
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<tbody>
<tr>
<td>Ground Elevation</td>
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<tr>
<td>Cement Grout</td>
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<tr>
<td>Rock Packing</td>
<td>ft.</td>
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<tr>
<td>Hole Diameter</td>
<td>in.</td>
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<tr>
<td>Total Depth</td>
<td>ft.</td>
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| Estimated Head | ft., m.s.l. | 82 ft. |
| Calculated Aquifer Thickness | | |

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

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<tr>
<th>Solid Casing</th>
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<tr>
<td>Material</td>
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<tr>
<td>Designation</td>
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<tr>
<td>Length</td>
</tr>
<tr>
<td>Diameter</td>
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<tr>
<td>Wall Thickness</td>
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<td>Material</td>
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<td>Wall Thickness</td>
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<table>
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<th>Open Hole</th>
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<tbody>
<tr>
<td>Length</td>
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### SECTION 3: CHECKLIST  
(values to check are shaded)

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<th>Well Depth</th>
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<tr>
<td>Theoretical Thickness of Aquifer</td>
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<tr>
<td>1/4 Aquifer Thickness</td>
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<td>Depth of Well below Sea Level</td>
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<tr>
<td>Minimum Wall Thickness</td>
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<tr>
<td>Material</td>
</tr>
<tr>
<td>County or Non-County</td>
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<tr>
<td>Minimum Thickness per standards</td>
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<tr>
<td>Wall Thickness Provided</td>
</tr>
<tr>
<td>Minimum Length of Solid Casing</td>
</tr>
<tr>
<td>90% of ground to top of aquifer</td>
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<tr>
<td>Length of solid casing Provided</td>
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<tr>
<td>Casing Material</td>
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<tr>
<th>Annular Space</th>
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<tbody>
<tr>
<td>Depth of Grouting</td>
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<tr>
<td>Calculated Depth of Grouting</td>
</tr>
<tr>
<td>Depth of Grouting provided</td>
</tr>
<tr>
<td>Thickness of Annular Space</td>
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</table>
Owner: KANEYOSHI CO., LTD.  
Tax Payer: KANEYOSHI CO., LTD.  
Tenure: F  
Semi-Annual Tax: $7,709.50  

Tax Bill: 3-50-1 OMINAMI, MUSAHIMURAYAMA  
TOKYO, JAPAN  

Assessed Value(98/99): 1,541,900  
Exemption: 0  
Size: 3.08 acres  
Bldgs: 2  
Dwellings: 2  
Land: 1,541,900  
Tot Bldg: 0  
Use: 0  
Nbhood: 7521  
PITT: 800  
Zoning: RS-15

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SHIN ETSU TRADING CO USA INC  
03/08/89 DEED $3,400,000 B/P 22927/693  LCD 1618272  
KANEYOSHI CO LTD

Press ESC or enter C (clear) to begin a new search, or
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
Kaneyoshi Irrigation Well (Well No. 3759-01)

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 September 30, 1998.

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.

R: ss
Attachment(s)

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, §11-20-20.

[ ] 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.

[ ] 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).

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

[ ] No comments/objections

Contact Person: William Wong
Phone: 586-4258

Signed: William Wong
Date: 09/22/98
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, Chapter 11-55, 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
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  
Kaneyoshi Irrigation Well (Well No. 3759-01)  

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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.  

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

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

[ ] No comments/objections  

Contact Person: Lori N. Kajiwara  
Phone: 586-4294  
Date: 9-18-98  
Signed: Lori N. Kajiwara
Mr. Garrett Webb  
P.O. Box 632  
Kailua-Kona, HI 96745

Dear Mr. Webb:

Well Construction / Pump Installation Permit Application for Well No. 3759-01

We acknowledge receipt, on August 25, 1998, of your completed well construction / pump installation permit application for the Kaneyoshi Irrigation Well (Well No. 3759-01). 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 Mr. Ryan Imata of the Commission staff at 587-0255.

Sincerely,

TIMOTHY E. JOHNS  
Deputy Director

RI:ss
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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[ ] No comments/objections

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
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<th>SRC/ CTR</th>
<th>COST</th>
<th>PROJECT</th>
<th>PH</th>
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<tr>
<td>TOTAL</td>
<td>25.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REMARKS: LINE (1) Well No. 3759-01 (WCPA/PTPA)
LINE (2) 
LINE (3) 

---

**Kalaoa Gardens**

Landscape and Irrigation, LLC

P. O. BOX 632 325-6251
KAILUA-KONA, HI 96745

---

**First Hawaiian Bank**

KONA BRANCH
74-0000 PALANI ROAD
KAILUA KONA, HAWAII 96740

---

**Department of Land and Natural Resources**

PAY TO THE ORDER OF Department of Land and Natural Resources 25 DOLLARS

**Twenty five dollars**

---

DATE 8/17/98

---

[Signature]
August 21, 1998

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, Hawaii 96809

SUBJECT: Well Construction Permit
KANEYOSHI IRRIGATION WELL
TMK 3-7-5-20-24

Dear Mr. Wilson,

We are submitting the construction and pump installation permit application on behalf of Kaneyoshi Co., Ltd. with a check of $25.00 for filing fees. If there are any questions, please call the undersigned.

Should you have any questions, please feel free to call me. Thank you.

Very truly yours,

John Stubbart
President

Enclosure
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: Kaneyoshi Co., Ltd.
   3-50-1 Ominami, Musashimurayama
   Tokyo, Japan

   B) LANDOWNER:
   Firm Name: SAME
   "SAME"

   B) Contact Person: Garrett Webb
   Address: P.O. Box 632
   Kailua-Kona, Hawaii 96745

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

2. WELL LOCATION: KANEYOSHI IRRIGATION WELL
   Island: Hawaii
   Address: North Kona, Hawaii
   Tax Map Key: 3-7-5-20-24
   (Attach a USGS map (scale 1"=20000) 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

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

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity 60 (gpm)
   Motor:
   [ ] Deep Well Turbine
   [X] Submersible
   [ ] Centrifugal
   [ ] Rotary
   [ ] Rotary-Displacement
   [ ] Rotary - Gear
   [ ] Propeller
   [ ] Reciprocating
   [ ] Impulse
   [X] Electric
   rated hp -4 hp

5. PROPOSED USE
   [X] Irrigation
   [ ] Municipal (including hotels, stores, etc.)
   [ ] Domestic (individual, non-commercial water systems)
   [X] Irrigation (specify)
   [ ] Military
   [ ] Industrial
   [ ] Other (specify): Observation
   State Land Use District: [X] Urban [ ] Agriculture [ ] Rural [ ] Conservation
   County Zoning (describe): RS - 15
6. A) PROPOSED AMOUNT OF WITHDRAWAL: up to 70,000 gallons per day.

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

Weir

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

8. REMARKS: Landscape irrigation

Well Owner: ____________________________  Landowner: ____________________________
Signature: ____________________________  Signature: ____________________________
Date: 8/19/98  Date: 8/19/98

Contractor: to be determined

Date: ____________________________

For Official Use Only:
Date Received: ____________________________
Date Accepted: ____________________________
Field Checked By ____________________________
Date: ____________________________

Latitude _______  Aquifer System Name: ____________________________
Longitude _______  State Well No. _______
Kaneyoshi Irrigation Well
Kona, Hawaii

Drawing not to scale
WWS 7/98
1. **A) WELL OWNER:**
   - Firm Name: Kaneyoshi Co., Ltd.
   - 3-50-1 Ominami, Musashimurayama
   - Tokyo, Japan
   - Contact Person: Garrett Webb
   - Ph. 325-6251
   - Address: P.O. Box 632
   - Kailua-Kona, Hawaii 96745

   **B) LANDOWNER:**
   - Firm Name: SAME

   **C) CONTRACTOR**
   - Name: To be Determined
   - Address: To be determined
   - Phone: To be determined

2. **WELL LOCATION:**
   - KANEYOSHI IRRIGATION WELL
   - Island: Hawaii
   - Address: North Kona, Hawaii
   - Tax Map Key: 3-7-5-20-24
   - (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

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

4. **PROPOSED PUMP INFORMATION:**
   - Rated Pump Capacity: **60 (gpm)**
   - Pump Type:
     - [ ] Deep Well Turbine
     - [X] Submersible
     - [ ] Centrifugal
     - [ ] Rotary
     - [ ] Rotary-Displacement
     - [ ] Rotary - Gear
     - [ ] Propeller
     - [ ] Reciprocating
     - [ ] Impulse
     - [X] Electric
     - Motor:
       - [ ] Diesel
       - [ ] Gas
       - [X] Electric
       - Rated hp: -4 hp

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

   **State Land Use District:**
   - [X] Urban
   - [ ] Agriculture
   - [ ] Rural
   - [ ] Conservation

   **County Zoning (describe):** RS - 15
6. A) PROPOSED AMOUNT OF WITHDRAWAL: up to 70,000 gallons per day.

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

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

8. REMARKS: Landscape irrigation

Well Owner:  Landowner:  Contractor: to be determined
Signature:  Signature:  Signature:
Date: 8/19/98  Date: 8/19/98  Date:

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

Briefly describe the proposed work:

This permit is to construct a new irrigation well for landscaping for about 8 acres

(Plan attach here)
Well Location Map

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Kaneyoshi Well location
TMK 3-7-5-20-24

SCALE 1:24,000

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 1 FOOT

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
Kaneyoshi Irrigation Well
Kona, Hawaii

Depths

Concrete slab

1/4" air line and power cable

Elevation
+37° +/-

Annular space grouted

4 inch blank PVC flush joint casing

12 inch Bore hole

Rubber packer

4 inch PVC perforated casing

Water level
+2'

Air line depth to be determined

4 Hp Grunfos pump and motor

Pump intake at +5'

Bottom of casing @ -10'

Drawing not to scale
WWS 7/98
### Description

Date of report: March 9, 1973  
Person filing report: Hiroshi Sonobe  

#### A. Owner
Investment Corp. NAME: Alii Villa injection wells ISLAND: Hawaii

#### B. General Location
Kailua-Kona Hawaii

#### C. Drilling Company
Continental Drilling Co.

#### D. Type of Rig
CMS rig  
Drilling Completed: 1/6/73  
DRILLER: R.L. Pickren

#### E. Elevation, msl:
Top of drilling platform ft.  
Benchmark and method used to determine elevation:

#### F. Hole Size:

- Inch dia. to ft. below drilling platform.
- Inch dia. to ft. below drilling platform.
- Inch dia. to ft. below drilling platform.

#### G. Casing Installed:

- In. D.O. x in. wall solid section to ft. below drilling platform.
- In. D.O. x in. wall perforated section to ft. below drilling platform.

Type of perforation:

#### H. Annulus:
Grouted to ft. below drilling platform.
Gravel packed to ft. below drilling platform.

#### I. Permanent Pump Installation:
- Pump type, make, serial no.  
- Motor type, H.P., voltage, r.p.m.
- Depth of pump intake setting ft. below which elevation is ft.
- Depth of bottom of airline ft. below which elevation is ft.

### Hydrology

#### J. Initial Water Level
ft. below drilling platform  
Date of measurement:

#### K. Initial Chloride:
ppm, total depth of well ft. below drilling platform  
Sampling Date:

#### L. Pumping Tests:
Reference point (R.P.) used:  
which elevation is ft.

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
<th>Rate</th>
<th>Draw-down</th>
<th>CI-</th>
<th>Temp.</th>
<th>Elapsed Time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ft. below R. P.</td>
<td>ft. below R. P.</td>
<td>ft. below R. P.</td>
<td>(gpm)</td>
<td>(ft.)</td>
<td>(ppm)</td>
<td>°F</td>
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<td>to</td>
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<td>No test conducted by Continental Drilling to</td>
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<td>to Company</td>
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<td>to Fouche Construction Co. may have conducted to</td>
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<td>to their own test to</td>
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<td>to</td>
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</tr>
</tbody>
</table>

### Subsurface Formation

#### M. Driller's Log:

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0 to 40.0</td>
<td>Boulders with some volcanic soils</td>
<td>50.0 to 61.0 Dense basalt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.0 to 12.0</td>
<td>Cinders</td>
<td>61.0 to 66.0 Dense basalt but softening</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.0 to 14.0</td>
<td>Med. dense vesicular basalt</td>
<td>66.0 to 78.0 Dense basalt</td>
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<td></td>
</tr>
<tr>
<td>14.0 to 15.0</td>
<td>Dense basalt</td>
<td>78.0 to 80.0 Med. dense basalt</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>15.0 to 27.0</td>
<td>Med. dense vesicular basalt</td>
<td>80.0 to 83.0 Cinders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27.0 to 35.5</td>
<td>Soft cinder-type lava</td>
<td>83.0 to 87.0 Med. dense basalt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35.5 to 37.5</td>
<td>Dense basalt</td>
<td>87.0 to 93.0 Dense basalt</td>
<td>40.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>37.5 to 44.0</td>
<td>Med. hard basalt</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>44.0 to 45.0</td>
<td>Clay seam</td>
<td></td>
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<tr>
<td>45.0 to 47.0</td>
<td>Med. soft lava rock</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>47.0 to 50.0</td>
<td>Med. dense vesicular basalt</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

#### N. Remarks:
**DESCRIPTION**

Date of report: March 9, 1973  
Person filing report: Hiroshi Sonobe  
United Hawaiian WELL

A. OWNER: Investment Corp.  
NAME: Alii Villa injection wells

B. GENERAL LOCATION: Kailua-Kona, Hawaii

C. DRILLING COMPANY: XMx Continental Drilling Co.

D. TYPE OF RIG: CME rig.  
DRILLING COMPLETED: 12/17/72  
DRILLER: R.L. Pickren

E. ELEVATION, msl: Top of drilling platform ft.  
Height of drilling platform above ground surface ft.  
Bench mark and method used to determine

F. HOLE SIZE: inch dia. to ft. below drilling platform.  
inch dia. to ft. below drilling platform.  
inch dia. to ft. below drilling platform.

G. CASING INSTALLED: in. I.D. x in. wall solid section to ft. below drilling platform.  
in. I.D. x in. wall perforated section to ft. below drilling platform.  
Type of perforation

H. ANNULUS: Grouted ft. to ft. below drilling platform.  
Gravel packed ft. to ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:

- Pump type, make, serial no. Capacity g.p.m.
- Motor type, H.P., voltage, r.p.m.
- Depth of pump intake setting ft. below which elevation is ft.
- Depth of bottom of airline ft. below which elevation is ft.

**HYDROLOGY**

J. INITIAL WATER LEVEL: ft. below drilling platform.  
Date of measurement.

K. INITIAL CHLORIDE: ppm, total depth of water ft. below drilling platform.

L. PUMPING TESTS:

<table>
<thead>
<tr>
<th>Reference point (R.P.) used:</th>
<th>which elevation is ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Start water level</td>
</tr>
<tr>
<td></td>
<td>ft. below R. P.</td>
</tr>
<tr>
<td>Start water level</td>
<td>ft. below R. P.</td>
</tr>
<tr>
<td>End water level</td>
<td>ft. below R. P.</td>
</tr>
<tr>
<td>Depth of well</td>
<td>ft. below R. P.</td>
</tr>
<tr>
<td>Rate Draw-down (ft.)</td>
<td>93.8 ft. to 97.0 ft.</td>
</tr>
<tr>
<td>CI (ppm)</td>
<td></td>
</tr>
<tr>
<td>Temp. F</td>
<td></td>
</tr>
<tr>
<td>Elapsed Time (hours)</td>
<td>12/21/72 - Injection test conducted.</td>
</tr>
<tr>
<td>Total of 11,279 gals. (2 hours)</td>
<td>97.0 ft. to 102.0 ft.</td>
</tr>
<tr>
<td>to Water level 9:00 AM</td>
<td>102.0 ft. to 104.0 ft.</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>49.5 ft. to 50.3 ft.</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>50.4 ft. to 50.3 ft.</td>
</tr>
</tbody>
</table>

**SUBSURFACE FORMATION**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0 to 8.0</td>
<td>Medium dense basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>8.0 to 12.0</td>
<td>Cinders</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>12.0 to 26.0</td>
<td>Dense. dense basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>26.0 to 28.0</td>
<td>Medium. dense basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>28.0 to 36.0</td>
<td>Black sand &amp; cobbles</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>36.0 to 75.0</td>
<td>Dense. basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>75.0 to 82.0</td>
<td>Medium. hard. porous basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>82.0 to 84.0</td>
<td>Dense. basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>84.0 to 87.0</td>
<td>Medium. hard. porous basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>87.0 to 92.5</td>
<td>Vesicular basalt w/cinder layers</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
<tr>
<td>92.5 to 93.8</td>
<td>Dense. basalt</td>
<td>to</td>
<td>to</td>
<td></td>
<td>to</td>
</tr>
</tbody>
</table>

**FOR DRILLER'S USE**

Job Name:  
Job No.

**INSTRUCTIONS:** Send three copies to Manager-Chief Engineer, Division of Water and Land Development, P.O. Box 397, Honolulu, Hawaii 96809.

NOTICE OF INTENT TO DRILL

WELL NAME: Alii Villa injection wells

OWNER OF WELL: United Hawaiian Investment Corp.

DRILLING COMPANY: Continental Drilling Company

PROPOSED USE OF WELL:
(a) Domestic ...........................................
(b) Irrigation ...........................................
(c) Industrial (type) ....................................
(d) Cooling (type) .....................................
(e) Disposal (type) ... Injection wells...(2)
(f) Other (specify) .....................................

LOCATION OF WELL: (Attach copy of USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field.)

TMK: 7-5-21: 1

DATESubmitted: December 26, 1972

Signature of Owner: [Signature]

Title (If Applicable): [Title]

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, HI 96809.