## CHECKLIST

**WELL CONSTRUCTION PERMIT**

**WELL NAME or LOCATION:** Honokalua Well B  
**ISLAND:** Maui

**WELL NUMBER:** 5938-01  
**Tax Map Key:** 4-2-01:1

**OWNER/OPERATOR:**
- Firm Name: Maui DWs
- Contact Person:  
- Address: 200 S. High Street
  - Wailuku, HI 96793  
- Phone: 243-7816

**LANDOWNER:**
- Firm Name: Maui Land and Pine
- Address: 4900 Honopioi Ewy
  - Lahaina, HI 96761  
- Phone: 869-6201

**Date application received:** 6-18-90

**Date acknowledged receipt/request more info:**

**Date application accepted:**

**Suspense date (90 days):**

**Date filing fee deposited:**

**Application sent to following:**
- Dept. of Health
- County water board/dept
- Dept. Pub. Wrks (Hawaii)
- Dept. of Hawn Homes
- Kealauloa NE #28

**Date sent:**

**Comments received:** 9-13-90

**Date agenda due:**

**Date submittal due:**

**Date submittal sent to applicant:**

**Date application approved or disapproved:**

**Date applicant notified of decision:**

**REMARKS:**

[Blank lines for remarks]
Mr. David Craddick, Director
Department of Water Supply
County of Maui
P.O. Box 1109
Wailuku, HI 96793-7109

Dear Mr. Craddick:

Honokahua Well B (Well No. 5938-01), Lahaina, Maui

Thank you for informing us of the failure of Honokahua Well B. The administrative rules of the State Water Code require a pump installation permit for all pump-related work except for routine maintenance.

We have received your application for the proposed work. If the pump capacity remains the same or is less than the pump being replaced or repaired, the Chairperson can approve the permit. If the pump capacity is increased, the application will be taken to the Commission for approval. Please let us know as soon as you assess the situation and decide upon a course of action.

Please call Rae M. Loui at 587-0214 if you have any questions.

Very truly yours,

Enclosure
APPLICATION FOR: □ Well Construction or □ Pump Installation PERMIT

Instructions: Please print or type and send completed application with attachments to the Div. of Water Resource Management, P.O. Box 373, Honolulu, Hawai‘i 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 548-7643, Hydrology/Geology Section for assistance.

1. WELL LOCATION/NAME: Lahaina, Honokahua Well "B" Island Maui

Address ____________________________ Tax Map Key 4-2-0101
(Attach a USGS map, scale 1"=2000', and a property tax map showing well location referenced to established property boundaries.)

2. (a) WELL OWNER:
Firm Name Department of Water
Contact Person David Craddick
Address P.O. Box 1109
Wku, HI 96793 Ph. 243-7816

(b) LANDOWNER:
Firm Name Department of Water
Contact Person David Craddick
Address P.O. Box 1109
Wku, HI 96793 Ph. 243-7816

3. PROPOSED CONTRACTOR:
Name Water Wells International
Address 66-A Funchal Street, Nuuanu, HI 96813

Contractor’s License No. C17320
Ph. 537-6329

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 sys.) □ Industrial □ Irrigation (specify) □ Other (specify) __________

6. PROPOSED AMOUNT OF WITHDRAWAL: 972,000 gallons per day

7. PROPOSED PUMP INFORMATION:

Pump Type: □ Vertical Turbine □ Submersible □ Centrifugal
Motor: □ Diesel □ Gas □ Electric, at a rated horsepower of 300
Rated Pump Capacity: Gallons per minute 675

Well Owner (print) Department of Water
Signature ____________________________
Date 4/1/94

Landowner (print) Department of Water
Signature ____________________________
Date 4/1/94

For Official Use Only:
Field Checked By ____________________________
Latitude ____________________________
Date ________________
Longitude ____________________________
State Well No. ____________________________
Hydrologic Unit ____________________________
Briefly describe the proposed work:
The proposed work is to replace broken shafts and couplers and any other pump components that need to be replaced. There may not be a need to replace the pump unit, but it is too early to assess at this time.

PROPOSED SECTION OF WELL

Elevation at top of casing: __________ ft., msl.

Cement Grout: __________ ft.

Hole Diameter: __________ in.

Total Depth: __________ ft.

Rock Packing: __________ ft.

Ground Elevation: __________ ft., msl

Solid Casing:
Material ____________________
Length ______________ ft.
Diameter ______________ in.
Wall thickness ______________ in.

Casing:  □ Perforated  □ Screen
Material ____________________
Length ______________ ft.
Diameter ______________ in.
Wall thickness ______________ in.
Openings ______________ sq. in./L.F.

Open Hole:
Length ____________________
Diameter ______________ 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.
April 13, 1994

Ms. Rae Loui, Deputy Director  
Department of Land & Natural Resources  
Commission on Water Resource Management  
Post Office Box 621  
Honolulu, Hawaii 96809

Dear Ms. Loui:

Subject: Honokahua Well, Lahaina, Well No. 5938-01

The Honokahua well "B", No. 5938-01, failed on March 20, 1994; possibly due to shaft failure.

A contract to remove the pump assembly was awarded to Water Well International. The removal was completed on April 9, 1994. The pump will be reinstalled after damage is assessed.

A follow-up letter will be forwarded to you with the well completion report.

If you have any questions, please call me, 243-7816.

Sincerely,

David Craddick, Director

cc: Gary Ishikawa  
    Eric Okazaki  
    Kim Nuyen
January 5, 1993

Ms. Rae M. Loui, Deputy Director
Division of Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Loui:

Subject: Honokahua Well "B"
Well No. 5938-01
Honokahua, Maui

We are hereby submitting the Well Completion Report for Honokahua Well "B" in accordance with conditions for the Pump Installation Permit.

If there are any questions, please call our Engineering Division at 243-7835.

Sincerely,

David R. Craddick
Director

hk
encl.
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 373, Honolulu, HI 96809. An as-built drawing of the well and chemical analysis, if available, should also be submitted. If necessary, phone 548-7543. Hydrology, Geology Section for assistance.

A. STATE WELL NO. 5938-01

B. LOCATION Honokahua, Lahaina, Maui, Hawaii

C. WELL OWNER County of Maui, Department of Water Supply

D. DRILLING OR PUMP INSTALLATION CONTRACTOR Water Resources International, Inc.

E. TYPE OF RIG Rotary

F. DATE OF WELL COMPLETION 3/23/87

G. GROUND ELEVATION (masl) 946.3 ft.

H. TOTAL DEPTH OF WELL BELOW GROUND 980 ft.

I. HOLE SIZE: 20 inch dia. from 0 ft. to 966.3 ft. below ground

J. CASING INSTALLED: 14 in. I.D. x .3125 in. wall solid section to 958 ft. below ground

K. ANNUAL: Grouted from 0 ft. to 612 ft. below ground

L. PERMANENT PUMP INSTALLATION:

- Motor type, H.P., voltage, r.p.m. CE, 1300 HP, 460V, 1785 RPM
- Motor type, make, depth of pump intake setting 961.3 ft. below ground
- Type of perforation Ful-Flo

M. PROPOSED USE Municipal

N. INITIAL WATER LEVEL 938 ft. below ground. Date and time of measurement 1/28/87, 9:15 AM

O. INITIAL CHLORIDE 27 ppm. Date and time of sampling 2/7/87, 2:15 PM

P. PUMPING TESTS: Reference point (R.P.) used: ground which elevation is 946.3 ft.

- Start water level 937.04 ft. below R. P.
- End water level 966 ft. below R. P.
- Depth of well 966 ft. below ground

Q. DRILLER’S LOG:

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<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level ft.</th>
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</thead>
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<tr>
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<td>Decomposed lava rock</td>
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</tr>
<tr>
<td>75 to 120</td>
<td>Hard dense formation</td>
<td>to</td>
</tr>
<tr>
<td>120 to 424</td>
<td>Med. soft, clinkery</td>
<td>to</td>
</tr>
<tr>
<td>424 to 590</td>
<td>Med. hard blue/bik, lava rock</td>
<td>to</td>
</tr>
<tr>
<td>590 to 715</td>
<td>Med. soft intermittent inter-flow</td>
<td>to</td>
</tr>
<tr>
<td>715 to 890</td>
<td>voids</td>
<td>to</td>
</tr>
<tr>
<td>890 to 966</td>
<td>Clinkery, large boulders</td>
<td>to</td>
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</table>

LATITUDE 20° 59' 01" N
LONGITUDE 156° 38' 25" W
WELL NO. 5938-01

REMARKS:

Submitted by (print) David R. Craddock

Title Director
Department of Water Supply

Signature

Date Jan 5, 1993
October 4, 1990

Mr. William W. Paty, Chairman
Commission on Water Resource Management
State of Hawaii
P. O. Box 621
Honolulu, Hi 96809

Dear Mr. Paty:

Subject: Honokahua B Well, Honokahua, Maui
Well No. 5938-01

We have received your letter with regard to the permit for pump installation for the Honokahua B Well. We concur and will comply with all the provisions set forth in your letter.

Thank you for your swift response to our request.

Sincerely,

Rae M. Shikuma, Director
NGP/ao

cc: Engr.

"By Water All Things Find Life"
PUMP INSTALLATION PERMIT

for

Honokahua B Well
Well No. 5938-01
Honokahua, Maui

TO: Department of Water Supply
County of Maui
P.O. Box 1109
Wailuku, Maui, HI 96793-7109

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 install a pump in Honokahua B Well (Well No. 5938-01), for municipal use, is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), Geology-Hydrology Section, shall be notified at 548-7543, before any work covered by this permit commences.

2. The proposed use shall not adversely affect existing legal uses in the area.

3. The following shall be submitted to DWRM, P.O. Box 373, Honolulu, Hawaii 96809, within 30 days after completion of the work:
   a. Well Completion Report.
   b. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

4. The applicant shall comply with all applicable laws, rules, and ordinances.
5. 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 shall be completed within two years of the date of issuance.

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

OCT 2 1999
Date of Issuance

cc: USGS
    Department of Health
    Drinking Water Branch
    Ground Water Protection Program
September 17, 1990

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: PUMP INSTALLATION PERMIT APPLICATION
HONOKAHUA "B" WELL
STATE WELL NO. 5938-01
HONOKAHUA, MAUI

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:

In accordance with Administrative Rules, Title 11, Chapter 20, section 11-20-29, the Department of Health granted conditional approval for the use the subject well as a source of potable water (July 30, 1987 letter to Vince Bagoyo). Thus, we have no objections to the installation of a new 700 gallons per minute pump on this well.

If you should have any questions, please contact the Safe Drinking Water Branch at 543-8258.

Very truly yours,

John C. Lewin, M.D.
Director of Health

cc: Rae Shikuma
Director
Department of Water Supply
P.O. Box 1109
Wailuku, Maui, HI 96793
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Maui Department of Water Supply
Application for Pump Installation Permits
Kualapuu Well, Hamoa Well, Waiehu Heights 2, and Honokahua B,
County of Maui

Applicant: Department of Water Supply
County of Maui
P.O. Box 1109
Wailuku, Maui, HI 96793-7109

Landowners: Various

The Maui Department of Water Supply requests permission to install pumps into the following wells for municipal use:

1. Kualapuu Well (Well No. 0801-03)
   Landowner: Molokai Ranch, Ltd.
   Proposed Action: Install new 900 gallons per minute pump.
   Proposed Amount of Withdrawal: 450,000 gallons per day.

Analysis: The water will be from the exploratory drilling program of the Department of Hawaiian Home Lands. The well will develop fresh basal water and will be for the Central Sector, Kualapuu System of Water Availability, according to the latest work in conjunction with the Hawaii Water Plan. Sustainable yield is estimated at 7 mgd. Present use in the system is about 1 mgd.

Agency Review: The Department of Hawaiian Home Lands (DHHL) "is extremely concerned about this application and recommends that it be denied at this time. Until the current difficulties surrounding water use from the Kualapuu aquifer are resolved, there should be no additional permits granted." The DHHL further recommends that the Commission "defer action on all well construction permit applications and on applications for new pumps or pumps of greater size than currently exist for those areas which impact on Hawaiian Home Lands until such time as the Native Hawaiian rights portion of the State Water Plan is completed."

ITEM 1
Chairperson and Members
Commission on Water Resource Management

September 19, 1990

RECOMMENDATION:

That the Commission approve the issuance of a pump installation permit for Kualapuu Mauka Well, subject to the following conditions:

1. The applicant shall notify the Division of Water Resource Management (DWRM) before work begins.

2. The applicant shall submit a well completion report to DWRM within 30 days after completion of the work.

3. The proposed use shall not adversely affect existing legal uses in the area.

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

5. The 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 shall be completed within two years of the date of issuance.

2. Hamoa Well (Well No. 4300-02)

Landowner: Hana Ranch, Inc.

Proposed Action: Install new 200 gallons per minute pump.

Proposed Amount of Withdrawal: 82,000 gallons per day.

Analysis: The well was drilled in 1985 under the exploratory drilling program of the Department of Land and Natural Resources and turned over to the County Department of Water Supply for development. The well will develop fresh basal water and will supply the community of Hana. No adverse impacts are expected.

Water Availability: The well is located in the Hana Sector, Kawaipapa System of Maui, according to the latest work in conjunction with the Hawaii Water Plan. Sustainable yield is estimated at 48 mgd. Present use in the system is less than 0.5 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a pump installation permit for Hamoa Well, subject to the same conditions as the previous permit.

3. Waiehu Heights 2 (Well No. 5430-02)

Landowner: County of Maui

Proposed Action: Replace existing 1,250 gpm pump with a new 1,250 gpm pump.

Proposed Amount of Withdrawal: 860,000 gallons per day.
Water Availability: The well is located in the Wailuku Sector, Iao System of Maui, according to the latest work in conjunction with the Hawaii Water Plan. Sustainable yield is estimated at 20 mgd. Present use in the system is about 18 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a pump installation permit for Waiehu Heights 2 Well, subject to the same conditions as the previous permit.

4. Honokahua B (Well No. 5938-01)

Landowner: Maui Land and Pine

Proposed Action: Install new 700 gallons per minute pump.

Proposed Amount of Withdrawal: 1,000,000 gallons per day.

Analysis: The well will develop fresh basal water and will supply the Lahaina-Alaeloa public water system. No immediate adverse impacts are expected.

Water Availability: The well is located in the Lahaina Sector, Honolua System of Maui, according to the latest work in conjunction with the Hawaii Water Plan. Sustainable yield is estimated at 8 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a pump installation permit for Honokahua B Well, subject to the same conditions as the previous permit.

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

APPROVAL FOR SUBMITTAL:

WILLIAM W. PAT Chairperson
August 31, 1990

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,

Pump Installation Permit Applications

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

Waiehu Heights 2 (Well No. 5430-02)
Hamoa Well (Well No. 4300-02)
Kualapuu Mauka Well (Well No. 0801-03)

Only the Kualapuu Mauka Well has potential impact on Hawaiian Homes Lands and upon native Hawaiian water rights. This well is located in the immediate vicinity of DHHL's main source for Hawaiian Home Lands on Moloka'i, and thereby draws from the same source. Information provided does not indicate what impact, if any, has been considered. We request an analysis of drawdown and sustainable yield for Well 0801-03 be provided for our consideration.

You may direct questions to Charley Ice in our Planning Office, 548-8785.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
Honorable Hoaliku L. Drake
Director
Department of Hawaiian Home Lands
State of Hawaii
P.O. Box 1879
Honolulu, Hawaii 96805

Dear Mrs. Drake:

Pump Installation Permit Applications

We are sending you copies of the following permit applications and ask that your staff review them to determine if Hawaiian Home Lands may be affected:

- Waiehu Heights 2 (Well No. 5430-02)
- Hamoa Well (Well No. 4300-02)
- Kualapuu Mauka Well (Well No. 0801-03)
- Honokahua B (Well No. 5938-01)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

Please call Manabu Tagomori at 548-7533 if you have any questions.

Very truly yours,

[Signature]

WILLIAM W. PATY

Encl.
June 13, 1990

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

Gentlemen:

Re: PUMP INSTALLATION PERMITS

Pursuant to your letter of May 30, 1990, we are submitting applications for pump installation permits for the following projects:

1. Honokahua Well A, Repair of Controls. Permit not necessary
2. Honokahua Well B, Pump Installation. 5938-01
3. Waiehu Heights Pump #2, Pump Replacement. 5430-02
4. Hamoa Well, Pump Installation. 4300-02
5. Kepahu Well, Pump Installation. 0801-03

Additional information requested are as follows:

1. Wakiu Wells 'A' and 'B' both have 40 horsepower motors and have capacities of 350 gpm.
2. Waihee Wells #1, #2, and #3 all flow through the same meter.

If any additional information is required, please contact us.

Sincerely,

Vince G. Bagoyo, Jr.
Director

Enclosures
APPLICATION FOR

PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to Division of Water and Land Development, P.O. Box 372, Honolulu, Hawaii 96808. 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 548-7942, Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island MAUI Tax Map Key 42-2-011 (Doar)
Address HONOKAUA MAUI HAWAII

(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name BOARD OF WATER SUPPLY
Contact Person VINCENZO BACCO
Address 200 S. WILLOW ST.
          WALLAUKA HI 96793
Phone 242-7816

LANDOWNER

Firm Name MAUI LAND AND PINE
Contact Person MR. WESLEY NOHARA
Address 4900 HONOLULU HIGI.
          LAHAINA HI 96791
Phone 669-6201

3. PROPOSED CONTRACTOR FOR: \(\checkmark\) Well Drilling \(\checkmark\) Pump Installation

Name To Be Determined

Contractor's License No. __________

4. PROPOSED WORK

\(\checkmark\) Drill New Well \(\checkmark\) Deepen \(\checkmark\) Redrill
\(\checkmark\) Alter \(\checkmark\) Seal \(\checkmark\) Abandon
\(\checkmark\) Install New Pump \(\checkmark\) Replace Pump \(\checkmark\) Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

\(\checkmark\) Municipal (including hotels, stores, etc.) \(\checkmark\) Military
\(\checkmark\) Domestic (individual, noncommercial water systems) \(\checkmark\) Industrial
\(\checkmark\) Irrigation (specify) \(\checkmark\) Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL 1,000,000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: \(\checkmark\) Vertical Turbine \(\checkmark\) Submersible
Motor: \(\checkmark\) Diesel \(\checkmark\) Gas \(\checkmark\) Electric: 300
Rated Pump Capacity 700 gallons per minute (gpm)

Well Owner (print) \(\checkmark\) W. ALLEN
Signature \(\checkmark\) Date 6-14-99

Landowner (print) \(\checkmark\) \(\checkmark\)
Signature \(\checkmark\) Date

For Official Use Only:
Field Checked By \(\checkmark\) Latitude \(\checkmark\) Hydrologic Unit
Date \(\checkmark\) Longitude \(\checkmark\) State Well No. 5939-01
Briefly describe the proposed work:

- Install pump, motor, control and electric power at well site.
- Install & Transmission main from project site to Honokohau well "A".
- Construct access road to well site (Honokohau "Bi").

PROPOSED SECTION OF WELL

Elevation at top of casing
946.5 ft., msl.

Ground Elev. 946.5 ft., msl*

Cement Grout 600 ft.

Hole Dia. 17 in.

Total Depth 980 ft.

Rock Packing 266 ft.

Solid Casing:
Material 13.5 C. Cork, Kaiser Steel
Length 945 ft.
Diameter 14 in.
Wall thickness 0.375 in.

Casing: /x/Perforated / /Screen
Material 13.5 C. Cork, Kaiser Steel
Length 20 ft.
Diameter 14 in.
Wall thickness 0.25 in.
Openings 8.0 sq. in./L.F.

Open Hole:
Length 15 ft.
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.
PROJECT AREA

ISLAND OF MAUl

Honokahua Well B
(Well No. 5938-01)

Haukoe Pt
Keal Pt
Kahana Pt
Kapaia
Pohakuus railroad

Haukoe Pt
Keal Pt
Kahana
Pohakuus railroad

Honokahua (Well No. 5938-01)

40
29
20
37.36°
PROJECT AREA

HONOKOHAI

LAHAINA

OWALU

WAILUKU

KAHULUI

PAUA

KIHEI

MAKAWAO

ULUPALAKUA

MAKENA

SCALE IN MILE

NORTH

ISLAND OF MAUI
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<th>TO:</th>
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<th>TO:</th>
<th>INIT.</th>
<th>FOR:</th>
<th>PLEASE:</th>
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<td>BAUER, G.</td>
<td></td>
<td>LUM, A.</td>
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<td>Approval</td>
<td>___ See Me</td>
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<td>CHING, F.</td>
<td></td>
<td>NAKAMA, L.</td>
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<td>FUJII, N.</td>
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<td>Information</td>
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<td>OHYE, M.</td>
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<td>UYENO, D.</td>
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### 1. Pump Tests Check (special condition of PIP? Yes/No)

**Glenn Bauer**

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<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
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**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. Pump Installation Check

**Mitch Ohye**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

- data complete
- followed WCPI Stds
- wellphys.dbf updated
- welaplic.dbf updated
August 13, 1998

Honorable Timothy E. Johns
Deputy Director
State of Hawaii
Department of Land & Natural Resources
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Johns:

Subject: Honokahua "B" Well - State Well No. 5938-01
TMK 4-2-001:001, Honokahua, Maui, Hawaii

Transmitting, for your use, is the completed pump installation report and as-built drawing.

Should you have any questions, please contact Andy Pascua, Acting Plant Maintenance Superintendent, (808) 243-7551.

Sincerely,

David Craddick, Director
DC:AP:jaw
Transmittals
copy: DWS Engineering
      Andy Pascua

"By Water All Things Find Life"
**VERTICAL TURBINE PUMP**

**TYPE "FN"**

**CERTIFIED FOR CONSTRUCTION**

**CUSTOMER** MAUI, HAWAII

**ORDER NO.** HA-195-378

**SUPPLIER** WATER RESOURCES INTL

**2828 PAA ST., SUITE 2085**

**HONOLULU, HAWAII 96818**

**DWG. NO.** 91-01188-2

**SERIAL NO.** 91-01188

**FLUID WATER**

**SPEC. GRAVITY** 1.0

**VISCOSITY** ----

**TEMPERATURE AMB.** ----

**PH** ----

**NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED**

**MATERIAL**

<table>
<thead>
<tr>
<th>COL PIPE</th>
<th>SCH 40 STL, A.S.T.M. A53</th>
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</thead>
<tbody>
<tr>
<td>UNE SHAFT</td>
<td>A 108-GR.1045 STL</td>
</tr>
<tr>
<td>SHAFT TUBE</td>
<td>A 120-SCH.80 STL</td>
</tr>
<tr>
<td>BOWL SHAFT</td>
<td>A 582-416 S.S.</td>
</tr>
<tr>
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<td>----</td>
</tr>
<tr>
<td>BRG. RETAINER</td>
<td>----</td>
</tr>
</tbody>
</table>

**REMARKS**

NO. UNITS REQ'D. 1
HONOKAUA WELL "B" PUMP

**FLUID WATER**

**SPEC. GRAVITY** 1.0

**VISCOSITY** ----

**TEMPERATURE AMB.** ----

**PH** ----

**NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED**

**MATERIAL**

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<td>----</td>
</tr>
</tbody>
</table>

**FLUID WATER**

**SPEC. GRAVITY** 1.0

**VISCOSITY** ----

**TEMPERATURE AMB.** ----

**PH** ----

**NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED**

**MATERIAL**

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<td>A 582-416 S.S.</td>
</tr>
<tr>
<td>SHAFT PACKING</td>
<td>----</td>
</tr>
<tr>
<td>BRG. RETAINER</td>
<td>----</td>
</tr>
</tbody>
</table>
PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: Roscoe Moss Hawaii, Inc.

21. Name of person performing work: John Mole

22. Date Pump Installation Completed: December 1994

23. PUMP INSTALLATION:
   Pump Type, Make, Serial No.: Vert Turbine, Floway 91-01188
   Capacity: 700 gpm
   Motor type, H.P., Voltage, rpm: VHS, 300, 460, 1770
   Depth of Pump Intake Setting 960 ft. below Head, which elevation is 946 ft.
   Depth to bottom of airline 941 ft. below Head, which elevation is 946 ft.
   Pumping Head is 1020 ft. Type of flow meter: ____________ which measures in ______

24. As-built drawings attached? __ Yes __ No

25. Other remarks/comments: (See below)

Applicant (print)

Signature Date

8.(cont'd) DRILLER'S LOG (cont'd):

<table>
<thead>
<tr>
<th>Water Level</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks, Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

19 & 25. Remarks: 5938-01 HONOKAHUA "B"
### WELL COMPLETION REPORT

(Check Appropriate Box)  
☐ Well Construction  □ (Permanent) Pump Installation

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-0225, or 1-800-468-4644 Extension 70225.

1. State Well No.: 5938-01  
   Well Name: Honakahua "B"  
   Island: Maui  
   Location/Address: __________________  
   Tax Map Key: 4-2-001:001

### 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: ____________________________ ft.

7. GROUND ELEVATION (referenced to mean sea level, msl): ____________________________ ft.

   Well Bench Mark (description/location): ____________________________ ft.

   Elevation(msl): ____________________________ ft.

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

<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>____________</td>
<td>______________</td>
<td>____________</td>
<td>______________</td>
</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: ____________________________ ft. below ground, which elevation is ____________________________ ft.

   (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 (1/96 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) ____________________________  
C-57 Lic. No. ____________________________  
Signature ____________________________  
Date ____________________________

Surveyor (print) ____________________________  
Lic. No. ____________________________
Signature ____________________________  
Date ____________________________

Applicant (print) ____________________________  
Signature ____________________________  
Date ____________________________
## Floway Pumps, Inc.

**Floway Pumps, Inc.**

**Fresno, California**

**NOT FOR CERTIFICATION**

---

### 12LKL 1770 RPM

**PER STAGE PERFORMANCE**

**ENCLOSED TYPE IMPELLER**

### Performance Table

<table>
<thead>
<tr>
<th>Number of Stages</th>
<th>Efficiency Change</th>
<th>Number of Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LOWER</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>LOWER</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>LOWER</td>
<td>0</td>
</tr>
</tbody>
</table>

**HORSEPOWER WILL BE AFFECTED BY CHANGE IN EFFICIENCY**

---

### Graphical Information

- **A = 0.687 FULL DIA.**
- **B = 8.000 DIA.**

---

### Dimensions

| Dimension | A | B | C | D | E | F | G | H | K | L | N | P | S | T | W | X | Y | Z | ZZ |

---

### Pump Data

- **Thrust Constant (K)**: 8.0
- **W.R.**: 1,788 lb. ft.
- **Shaft Dia.** (1-11/16): 15.0
- **Max. Sphere (Std. Const.)**: 832
- **Max. Number of Stages (Std. Const.)**: 26
- **Axial Clearance (Std.)**: 11/16
- **Axial Clearance (Max.)**: 7/32

**NOTES:**

- "K" is length of a one-stage assembly — from lip of bell to column butt.
- "H" is length of one-stage assembly — from end of suction pipe to column butt.
- "Y" is strainer diameter.
- "Z" is maximum diameter across strainer fasteners.
- WR² is per stage for impeller, collet and one stage shaft length.
- Maximum head indicated is based on cold water with 1.0 specific gravity.

---

### Additional Information

**Floway Pumps, Inc.**

**Fresno, California**

**NOT FOR CERTIFICATION**
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N.A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Phone 548-3948 or 546-7543 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 69-94-01

WELL NAME OR DESIGNATION: Honokahua "B"

ISLAND: Maui

A. WELL OPERATOR

Firm name: Dept. of Water Supply
Contact person:
Address: P.O. Box 1109
Wailuku, Maui, Hawaii
Zip: 96793 Phone: 243-7730

B. OWNER OF WELL SITE

Firm name: Maui Land & Pineapple Co.
Contact person:
Address:
Zip: Phone:

C. WELL LOCATION

Tax Map Key: 4-2-01:1 Town, Place, District: Honokahua

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA

For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.

For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (Mean sea level): 945.5 ft.
Reference point (Used to measure depth to water):
Elevation:
Description:
Depth to water (Below reference point): 940.5 ft.
Maximum recorded chloride: ______ ppm
Minimum recorded chloride: ______ ppm
Maximum chloride in 1987: ______ ppm

Year drilled or constructed: 1987
Well contractor: Water Resources International
Casing diameter: 14 in.
Solid casing depth (Below ground): 945.5 ft.
Perforated casing depth (Below ground): 965.5 ft.
Total depth of well: 970.5 ft.
Minimum chloride in 1987: ______ ppm

For Tunnels, submit construction drawings, plot plan, or sketch map.

E. INSTALLED PUMP DATA

Pump being designed, Well Not in Use

Pump type:
Vertical shaft
Submersible
Centrifugal
Other (specify):
Power:
Diesel, ___ HP
Gas, ___ HP
Electric, ___ HP

Other (specify):

Pump capacity: ___ gallons per minute
Pump installation contractor:

... (continued over)

For Official Use Only:
Date received: 3-20-94 Date accepted:________
Field checked by: ______ Date: ______
Latitude: 20° 59' 01" Hydrologic Unit:
Longitude: 156° 48' 25" State Well No: 69-94-01

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: □ Daily □ Weekly □ Monthly
□ Other (Describe): __________________________

Method of measurement: □ Flow Meter □ Orifice □ Other (Describe): __________________________

Quantity of Use (Report metered or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

WATER USE, IN GALLONS x 1000

<table>
<thead>
<tr>
<th></th>
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<td>Jan</td>
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<td>Nov</td>
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<tr>
<td>Dec</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Minimum day's use: ___________ gallons Maximum day's use: ___________ gallons

Typical times of usage: __________________________

Type of Use (Check all category boxes that apply and provide additional information as indicated):

Category | Additional Information
---------|------------------------
Municipal (including resorts, hotels, businesses) | Number of service connections: ___________
Domestic (systems serving 25 people or less) | Acres Irrigated: ___________
Irrigation | Crop(s): □ Sugar □ Pineapple □ Other (specify): ___________
| Non-Crop: □ Landscape □ Golf Course □ Other (specify): ___________
| Method: □ Drip □ Furrow □ Sprinkler □ Other (specify): ___________
Industrial | □ Cooling □ Manufacturing □ Mill □ Other (specify): ___________
Military | □ Other | Specify (livestock, aquaculture, etc.): ___________
Other | | |

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature: __________________________
Printed Name: Vince G. Bakov, Jr.
Firm or Title (Well Operator, etc.): Director of Department of Water Supply
County of Maui
Date: 7/24/99
Honorable John C. Lewin, M.D.
Director of Health
Department of Health
P.O. Box 3378
Honolulu, Hawaii 96801

Dear Dr. Lewin:

We have reviewed the preliminary engineering reports for Honokahua Well "B", Maui, and Akulikuli Tunnel 5A, Kauai, and have no comments.

Very truly yours,

WILLIAM W. PATY
Chairperson of the Board

MT:ES:ko
Enc.
Mr. William W. Paty  
Chairman of the Board  
Dept. of Land and Natural Resources  
1151 Punchbowl Street  
Honolulu, Hawaii 96813  

Dear Mr. Paty:  

SUBJECT: Preliminary Engineering Report for the Honokahua Well "B"  
Lahaina Water System, Lahaina, Maui, Hawaii  

Transmitted herewith for your review and comments is a copy of the preliminary engineering report for the Honokahua Well "B". This report has been prepared pursuant to Section 11-20-29, Chapter 20, Title 11, Administrative Rules, Potable Water Systems.  

Your review and comments are solicited as your concerns, knowledge and expertise in this area may assist us in determining potential impacts which may result by the proposed project.  

Your early attention and reply to this matter will be greatly appreciated. Please respond by May 8, 1987.  

Please return the preliminary engineering report with your comments.  

Sincerely,  

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

Enclosure
August 19, 1987

M&E Pacific, Inc.
1001 Bishop Street
Pauahi Tower, Suite 500
Honolulu, Hawaii 96813-3497

Attention: Mr. Howard Endo

Gentlemen:

Thank you for sending us the pumping test results for Honokahua Well "B". We appreciate your cooperation in providing us the data for our ground water program.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer
Date: July 28, 1987

To: Department of Land and Natural Resources
Division of Water and Land Development
1151 Punchbowl Street, Room 227
Honolulu, Hawaii 96813

Attention: Mr. Ed Sakoda

Subject: Honokahua Well B Pump Test Results

We transmit:

- X herewith
- ___ under separate cover

the following:

___ calculations
___ filing fee
___ legal descriptions
___ letter (of authorization)
___ plans and specifications
___ X prints
___ reports
___ shop drawings
___ tracings

for:

___ approval
___ information
___ use
___ review & comments
___ construction
___ files
___ payment
___ quotation
___ recordation
___ signature

Remarks:

cc:

By:

Howard Endo

cc:

37 JUL 29
A11:44
RECEIVED
SOURCE USE APPLICATION
FOR THE
DEVELOPMENT OF
HONOKAUA WELL "B"
LAHAINA DISTRICT, MAUI, HAWAII

Prepared for:
Department of Water Supply
County of Maui

Prepared by:
M& E Pacific, Inc.
Engineers and Architects
1001 Bishop Street
Honolulu, Hawaii 96813

March 1987
PROJECT DESCRIPTION

Project Location

Honokahua Well "B" will be part of the Lahaina-Alaeloa water system, which serves the communities of Alaeloa-Kahana, Honokowai, and Lahaina town. These communities are in the Lahaina district, which is located on the west coast of Maui (see Figure 1). As shown on Figure 2, the county water system does not include Kaanapali and Kapalua, both of which are served by private water systems.

The proposed well is located in the Honokahua district at an elevation of 946 feet (see Figure 3). There are presently four existing wells in the vicinity. The site is accessed by pineapple field roads.

The coordinates for the proposed Honokahua Well "B" are:

Latitude: 20°59'00.4"
Longitude: 156°38'25.6"

Well Description

The section through Honokahua Well "B" is shown on Figure 4. The boring has been designed to hold a 14-inch diameter casing in which a 12-inch pump can be installed. The design yield based on a pump of this size is 700 gpm. The casing extends from the ground surface to an elevation of (-)20 feet mean sea level. The last 20 feet of casing consists of full-flo screen with 80 square inches of open area per linear foot of perforated casing. A casing shoe has been installed at the bottom of the casing.

Cement grouting of the annular space between the wall of the drilled hole and the casing extends for a depth of 600 feet below the ground surface. The remaining lower portion of annular space has been filled with clean basalt crushed rock. A well cap with lock has been installed on the top of the well.
WELL CAP & LOCKING DEVICE

EL = 945.5 ±

EXISTING GROUND

14" I.D. CASING

20" DIA.

CEMENT GROUTING DEPTH + 600 FT.

TOTAL DEPTH OF 966 ±

CONCRETE MIX

SAND

FINE AGGREGATE

CASING GUIDE

STATIC WATER LEVEL

EL = 7.8 ± MSL

EL = 0.00 MSL

CLEAN BASALT CRUSHED ROCK

FULL-FLO SCREEN

20 FT.

EL = (−) 20.0 MSL

FIGURE 4

SECTION THROUGH HONOKAHUA WELL "B"
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description</th>
<th>Depth (ft)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 10</td>
<td>Clay</td>
<td>422 - 480</td>
<td>Medium hard</td>
</tr>
<tr>
<td>10 - 80</td>
<td>Hard rock</td>
<td>480 - 485</td>
<td>Hard</td>
</tr>
<tr>
<td>80 - 90</td>
<td>Soft clay</td>
<td>485 - 507</td>
<td>Medium hard</td>
</tr>
<tr>
<td>90 - 106</td>
<td>Clay with rock</td>
<td>507 - 511</td>
<td>Very hard</td>
</tr>
<tr>
<td>106 - 146</td>
<td>Soft clay w/hard layer</td>
<td>511 - 540</td>
<td>Soft clay</td>
</tr>
<tr>
<td>146 - 158</td>
<td>Hard</td>
<td>540 - 545</td>
<td>Hard</td>
</tr>
<tr>
<td>158 - 210</td>
<td>Soft clay</td>
<td>545 - 574</td>
<td>Soft clay</td>
</tr>
<tr>
<td>210 - 221</td>
<td>Hard</td>
<td>574 - 608</td>
<td>Medium hard</td>
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<td>221 - 260</td>
<td>Soft</td>
<td>608 - 645</td>
<td>Hard</td>
</tr>
<tr>
<td>260 - 283</td>
<td>Soft w/l hard layer</td>
<td>645 - 674</td>
<td>Soft w/hard layer</td>
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<td>283 - 345</td>
<td>Soft</td>
<td>674 - 762</td>
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<td>355 - 380</td>
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<td>380 - 385</td>
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<tr>
<td>385 - 417</td>
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<td>880 - 950</td>
<td>Soft</td>
</tr>
<tr>
<td>417 - 422</td>
<td>Hard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water level: 898 feet
Bottom of blank casing: 908 feet
Start of screen: 908 feet
Bottom of well: 936 feet

Source: Department of Land and Natural Resources, Division of Water and Land Development

FIGURE 11
SCHEMATIC DIAGRAM OF THE LAHAINA-ALAELOA WATER SYSTEM
July 1, 1987

Honorable Vince Bagoyo
Director
Department of Water Supply
County of Maui
200 S. High Street
Wailuku, HI 96793

Dear Mr. Bagoyo:

Well No. 5938-01, Honokahua "B", Maui

In accordance with the conditions of the permit issued by the Department of Land and Natural Resources for the subject well, a Driller's Report and Pumping Test Data must be submitted within 90 days after the completion of the well.

We would appreciate your submitting these records as soon as possible. If you have any questions, please contact the Division at 548-7543.

Sincerely,

[Signature]

KANABU TAGOMORI
Manager-Chief Engineer
WATER RESOURCES & FLOOD CONTROL BRANCH
Division of Water and Land Development

FROM: [Redacted]
DATE: 6/30/87
FILE IN: 5938-01

TO: INITIAL: [Redacted]

PLEASE: Mitch,

REMARKS:
This well was drilled in early 1987 by WRI.
Please send form letter reporting OR a progress test results.

FOR YOUR

Approval
Signature
Information

Thanks.

[Signature]
M. Tagomori
WELL DRILLING PERMIT

for
Honokahua Well B
State Well No. 5838-05
Honokahua, Maui

TO: Mr. Vince Bagoyo, Jr.
Director, Dept. of Water Supply
County of Maui
Wailuku, Maui 96793

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill State Well No. 5838-05 is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. Monthly reports of pumpage shall be submitted after the well is put into production.

4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

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

AUG 18 1986
Date of Issuance

Enc. (Driller's Report Form)
cc: USGS
Dept. of Health,
Drinking Water Program

Chairperson of the Board
TO: INITIAL: PLEASE: REMARKS:

M. TAGOMORI See Me
A. Ching Take Action By
H. Sakai Route to Your Branch
G. Morimoto Review & Comment
D. Lum Draft Reply By
S. Miyamoto Acknowledge Receipt
S. Samuels Xerox copies
G. Matsumoto Return
P. Matsuo File
L. Asari

N. Kaneshiro For Information

S. Kokubun
D. Hamada
L. Nanbu
J. Siarot
Date: August 5, 1986

To: Department of Land and Natural Resources
State of Hawaii
P.O. Box 373
Honolulu, Hawaii 96809

Attention: Mr. Neal Imada

Subject: Well Drilling Permit for Honokahua Well B

We transmit: the following:

- calculations
- filing fee
- legal descriptions
- letter (of authorization)
- plans and specifications
- prints
- reports
- shop drawings
- tracings

Remarks:
On behalf of the Department of Water Supply, County of Maui, we submit the well drilling permit and project location map for Honokahua Well B. This basal well will provide a new potable water supply source for the Lahaina-Alaeloa area.

By: Howard K. Naka
APPLICATION FOR (check one)

WELL DRILLING PERMIT  WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area?  Yes  No

If "yes", application must be accompanied by a Water Use and/or Water Supply Permit and a non-refundable filing fee of $100 payable to the Department of Land & Natural Resources. However, if application is for minor modification of well, filing fee may be waived. If "no", no filing fee is required. Filing fee is waived for federal, state, and county government agencies.

1. WELL LOCATION: Island Maui Tax Map Key 4-2-01. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER County of Maui (Dept of Water Supply) Telephone 244-7834 Address P. O. Box 1109, Wailuku, Maui, Hawaii Zip Code 96793

3. PROPOSED DRILLING COMPANY: _____________________

4. PROPOSED WORK:  Drill new well  Deepen  Redrill  Alter  Seal  Abandon  Install new pump  Replace pump  Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):

A 1.0 MGD basal well will be developed by the Department of Water Supply, County of Maui. This well will provide a new potable water source that will service the Lahaina-Alaeola public water supply system and help to satisfy the increasing future water demand in the area.

PROPOSED SECTION OF WELL

5. PROPOSED USE:  Municipal  Military  Agriculture  Industrial  Domestic  Disposal  Other (specify) __________

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.

Daily 1 x 10^6 gallons  Monthly gallons  Yearly gallons

7. PROPOSED PUMP OR FLOW CAPACITY: 700 gallons per minute

Signature: ____________________  Date: 7-31-94

Signature: ____________________  Date: 7-24-86

For Official Use:

State Well No.  ______  DLNR Permit No. ______

DLNR Application No. ______