**CHECKLIST**

- **WELL CONSTRUCTION PERMIT**
- **PUMP INSTALLATION PERMIT**

**WELL NAME or LOCATION:** Waikoloa Resort Well

**WELL NUMBER:** 5553-02

**OWNER or OPERATOR:** Waikoloa Resort Utilities
**ADDRESS:** P.O. Box 3028 W.V.S. Kohala Coast, Hawaii 96743-3028
**TELEPHONE (contact person):** Steve D. Hicks

- **Date application received:** 3-13-90
- **Date acknowledged receipt/request more info:** 3-21-90
- **Date application accepted:**
- **Suspense date (90 days):**
- **Date filing fee deposited:**

**Application sent to following:**

<table>
<thead>
<tr>
<th>Department/Board</th>
<th>Date Sent</th>
<th>Comments Received</th>
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<td>Dept. of Health</td>
<td>3-28-90</td>
<td>4-30-90</td>
</tr>
<tr>
<td>County water board/dept</td>
<td>3-22-90</td>
<td>4-9-90</td>
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<tr>
<td>Dept. of Publ. Wtrks</td>
<td>3-22-90</td>
<td>4-3-90</td>
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</table>

- **Date agenda due:**
- **Date submittal due:**
- **Date submittal sent to applicant:**

**Date application □ approved or □ disapproved:** 5-27-90
**Date applicant notified of decision issued:** 5-29-90

**REMARKS:**

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Waikoloa Resort Well
(Well No. 5553-02)
To: Water Resource Management Division
DLNR - State of Hawaii
P. O. Box 373
Honolulu, Hawaii 96809
Attention: Ed Sakoda

Gentlemen: We are sending you ☑ Attached
☐ Shop drawings  ☐ Prints
☐ Specifications  ☐ Copy of letter
☑ Other

<table>
<thead>
<tr>
<th>Copies</th>
<th>Date</th>
<th>Description</th>
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</table>

These are transmitted as checked below:

☑ For approval  ☑ No exceptions taken
☑ For your use  ☑ Make corrections noted
☑ As requested  ☑ Revise and resubmit
☐ For review and comment  ☑ Rejected
☐ Resubmit _________ copies for approval
☐ Submit _________ copies for distribution
☐ Return _________ corrected prints

Remarks:
If you have not received these items, here's an extra copy for your files. The pump installation permit asked for these items.

Copy to:

Signed:

If enclosures are not as noted, kindly notify us at once.
STATE well no. 5553-02       well name Saltwater well        island Hawaii

LOCATION_ Anaehoomalu, South Kohala, Hawaii        tax map key 6-9-0723

WELL owner Waikoloa Resort Utilities

DRILLING or PUMP INSTALLATION CONTRACTOR Roscoe Moss Company

type of rig Cable Tool        driller Same

F.   DATE OF well COMPLETION 10-24-90        DATE OF PUMP INSTALLATION _

g.   ground elevation (mal) 30 ft.        Top of Drilling Platform (mal) 31 ft.

h.   TOTAL DEPTH OF WELL BELOW GROUND

i.   hole size: 17 inch dia. from 0.0 ft. to 133 ft. below ground

j.   casing installed: 12 in. I.D. x 0.667 in. wall solid section to 133 ft. below ground

k.   annulus: Grouted from 0.0 ft. to 133 ft. below ground

l.   PUMP INSTALLATION:

m.   PROPOSED USE Resort lake - make up water

n.   INITIAL WATER Level 29.8 ft. below ground. Date and time of measurement 10-24-90 / 1:00 PM

o.   INITIAL CHLORIDE 18,000 ppm.           Date and time of sampling 10-24-90 / 1:30 PM

p.   PUMPING TESTS: Reference point (R.P.) used: Top of casing which elevation is 30 ft.

q.   DRILLER'S LOG:

r.   REMARKS: 

Submitted by (print) Tom Nance        Title       President

Signature        Date  Feb 11/991
AS-BUILT - WAIKOLOA RESORT SALTWATER WELL

N.T.S.
WAIKOLOA RESORT
SALTWATER WELL
STATE WELL NO. 5553-02

LOT 2

LOT R-1
(F.P. 1712)
TO QUEEN KA'AHANU HIGHWAY

PLOT PLAN
WAIKOLOA RESORT
SALTWATER WELL
1" = 100'
TO: Waikoloa Resort Utilities  
P.O. Box 3028  
Kamuela, HI 96743

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 350 gallons per minute pump in Waikoloa Resort Lake Well (Well No. 5553-02) to provide make-up water due to evaporation losses of the resort lake, is approved subject to the following conditions:

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

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

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

4. The following shall be submitted to DWRM, within 30 days after completion of the work:
   a. Well Completion Report.
   b. As-built sectional drawing of the well.

5. The applicant shall comply with all applicable laws, rules, and ordinances.
6. 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 24 months from the date of permit issuance.

WILLIAM W. PATY

Date of Issuance: JAN 31, 1994

cc: USGS
Department of Health
  Drinking Water Branch
  Ground Water Protection Program
  Hawaii Department of Water Supply
LETTER OF TRANSMITTAL

TO: DIVISION OF WATER & LAND DEVELOPMENT

P O BOX 373
HONOLULU, HI 96809

RE: DIV. OF WATER & LAND DEVELOPMENT

GENTLEMEN:

WE ARE SENDING YOU ☑ ATTACHED ☐ UNDER SEPARATE COVER VIA ____________________________ THE FOLLOWING ITEMS:

<table>
<thead>
<tr>
<th># COPIES</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
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<td>WELL COMPLETION REPORT</td>
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THESE ARE TRANSMITTED as checked below:

☑ For Approval ☐ Approved as submitted ☐ Resubmit ___ copies for approval
☐ For your use ☐ Approved as noted ☐ Submit ___ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return ___ corrected prints
☐ For review & comment ____________________________

REMARKS: Enclosed is the Well Completion Report for the Waikoloa Resort Saltwater Well (TMK: 6-9-07:23). Should you have any questions concerning the information provided, please call me at 885-1000.

Mahalo and aloha . . .

CC:

SIGNED: ___________________________________________
Stephen C. Green
Chief Engineer
INSTRUCTIONS: Please print or type and submit complete report within 30 days of well completion to the Division of Water and Land Development, P.O. Box 373, Honolulu, HI 96809. An as-built drawing of the wall and chemical analysis, if available, should also be submitted. If necessary, phone 548-7543, Hydrology, Geology Section for assistance.

A. STATE WELL NO. 5553-02
   WELL NAME Saltwater Well
   ISLAND Hawaii

B. LOCATION Anaehoomalu, South Kohala, Hawaii
   TAX MAP KEY 6-9-07-23

C. WELL OWNER Waikoloa Resort Utilities

D. DRILLING OR PUMP INSTALLATION CONTRACTOR Roscoe Moss Company
   DRILLER Same

E. TYPE OF RIG Cable Tool

F. DATE OF WELL COMPLETION 10-24-90
   DATE OF PUMP INSTALLATION

G. GROUND ELEVATION (mai) 30 ft.
   Top of Drilling Platform (mai) 37 ft.
   Height of drilling platform above ground surface 1 ft.
   Bench mark and method used to determine ground elevation ft.

H. TOTAL DEPTH OF WELL BELOW GROUND

I. HOLE SIZE:
   17 inch dia. from 0.0 ft. to 133 ft. below ground
   11 inch dia. from 133 ft. to 160 ft. below ground
   8 in. I.D. x 0.687 in. wall solid section to 133 ft. below ground
   8 in. I.D. x 1.3125 in. wall perforated section to 160 ft. below ground

J. CASING INSTALLED:
   Grouted from 0.0 ft. to 133 ft. below ground
   Gravel packed from 133 ft. to 160 ft. below ground
   (No gravel pack)

K. ANNULUS:
   Grouted from 133 ft. to 160 ft. below ground

L. PERMANENT PUMP INSTALLATION:
   Pump type, make, serial No. Crown Pump Model 7L-275 (1 Stg)
   Capacity 350 gpm
   Motor type, H.P., voltage, r.p.m. Submersible - 7/2 HP, 208 Volts, 3450 rpm
   Depth of pump intake setting 40 ft. below EX. Ground
   Depth of bottom of airlift 1/2 ft. below which elevation is ft.
   which elevation is ft.

M. PROPOSED USE Resort lake - make up water

N. INITIAL WATER LEVEL 29.8 ft. below ground.
   Date and time of measurement 10-24-90 / 1:00 PM

O. INITIAL CHLORIDE 18,000 ppm
   Date and time of sampling 10-24-90 / 1:30 PM

P. PUMPING TESTS: Reference point (R.P.) used:
   Top of casing which elevation is 30 ft.

Q. DRILLER’S LOG:

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<th>Rock Description &amp; Remarks</th>
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<td>casing problems</td>
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<td>122 to 130</td>
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<td>130 to 142</td>
<td>soft rock</td>
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<td>142 to 158</td>
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<td>to beach?</td>
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<tr>
<td></td>
<td>hard black lava</td>
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<th>Depth (ft.)</th>
<th>Rock Description &amp; Remarks</th>
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<tr>
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<tr>
<td>Long. 155° 53' 02&quot;</td>
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WELL NO. 5553-02

REMARKS:

Submitted by (print) STEPHEN C. GREEN
Title CHIEF ENGINEER
Signature STEPHEN C. GREEN
Date November 14, 1990
Existing Grd = 30.2 ±

133' - 12" Sch. 80 PVC Pipe
Solid Section Cement Grouted

27' - 8" Perforated Casing
Open Annulus

AS-BUILT - WAIKOLOA RESORT SALTWATER WELL

N. T. S.
Waikoloa Resort Utilities
P.O. Box 3028
Kamuela, Hawaii 96743

Dear Waikoloa Resort Utilities:

We have received your application and filing fee to install a pump in Waikoloa Resort Lake Well (Well No. 5553-02) at TMK: 6-9-07:24, Anaehoomalu, South Kohala, Hawaii. We are reviewing your application for completeness and will contact you if we need more information.

Please call Gordon Akita at 548-7496 if you have any questions.

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

ES: mh
TO: Div. of Water and Land Development  
   P.O. Box 373  
   Honolulu, Hawaii 96809  

ATTN: ____________________________

DATE: October 24, 1990

JOB #: 4174 - Resort Lake

RE: PUMP INSTALLATION PERMIT

GENTLEMEN:

WE ARE SENDING YOU ☑ ATTACHED ☐ UNDER SEPARATE COVER VIA _____________

THE FOLLOWING ITEMS:

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<th># COPIES</th>
<th>DESCRIPTION</th>
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<tr>
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<td>Completed Application for Pump Installation Permit</td>
</tr>
</tbody>
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THESE ARE TRANSMITTED as checked below:

☐ For Approval ☐ Approved as submitted  
☐ For your use  ☐ Approved as noted  
☐ As requested ☐ Returned for corrections  
☐ For review & comment  ☐ ____________________________

☐ Resubmit ___ copies for approval  
☐ Submit ___ copies for distribution  
☐ Return ___ corrected prints

REMARKS: __________________________________________________

CC: ____________________________

SIGNED: ____________________________

James E. Faull, P.E.  
Director of Engineering
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<th>DATE</th>
<th>INVOICE NO</th>
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Waikoloa Resort Lake Well (Well No. 5553-02)

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</table>

PLEASE DETACH THIS PORTION AND RETAIN FOR YOUR RECORDS.

**PAY: TWENTY FIVE DOLLARS AND NO CENTS**

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<th>DATE</th>
<th>CHECK NO.</th>
<th>AMOUNT</th>
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<td>OCT 19, 1990</td>
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<td>$25.00***</td>
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PAY TO THE ORDER OF DEPT. OF LAND & NATURAL RESOURCES

[Signature]

#005803: 03/05/91 03/01/91 04/03/90
APPLICATION FOR

WELL CONSTRUCTION PERMIT

X PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 231, Honolulu, Hawaii 96812. Application must be accompanied by a non-refundable filing fee of $32.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 355-7215, Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island Hawaii Tax Map Key 6-9-07: 24

Address Anaehoomalu, South Kohala

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

2. WELL OWNER

Firm Name Waikoloa Resort Utilities

Contact Person Steve Hicks

Address P.O. Box 3028

Kamuela, Hawaii 96743

Phone 885-1000

3. PROPOSED CONTRACTOR FOR:  

☐ Well Drilling  ☐ Pump Installation

Name Roscoe Moss Company

Address 830 Ahua Street

Honolulu, Hawaii 96819

Phone 839-6888

4. PROPOSED WORK

☐ Drill New Well ☐ Deepen ☐ Redrill

☐ Alter ☐ Seal ☐ Abandon

☐ Install New Pump ☐ Replace Pump ☐ Modify Pump

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

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.) ☐ Military

☐ Domestic (individual, noncommercial water systems) ☐ Industrial

☐ Irrigation (specify) ☐ Other (specify) Resort Lake

6. PROPOSED AMOUNT OF WITHDRAWAL up to 250,000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine ☐ Submersible ☐ Centrifugal

Motor: ☐ Diesel ☐ Gas ☐ Electric: 7.5 HP

Rated Pump Capacity 250 gallons per minute (gpm)


Signature

Date

For Official Use Only:

Field Checked By

Latitude

Hydrologic Unit

State Well No.

Longitude

5553-02
Briefly describe the proposed work:

A new pump will be installed in the recently completed Waikoloa Resort Lake Well. It will provide make-up water due to evaporation for the resort lake.

PROPOSED SECTION OF WELL

Elevation at top of casing 26 ft., msl.

Cement Grout 150 ft.

Hole Dia. 20 in.

Total Depth 200 ft.

Rock Packing __ ft.

Ground Elev. 26 ft., msl*

Solid Casing:
Material PVC (ASTM D-1785)
Length 150 ft.
Diameter 12 in.
Wall thickness 0.687 in.

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

Open Hole:
Length 50 feet
Diameter 10 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.
WELL CONSTRUCTION PERMIT

for

Waikoloa Resort Well
Well No. 5553-02
Kohala Coast, Hawaii

TO: Waikoloa Resort Utilities
P.O. Box 3028 W.V.S.
Kohala Coast, Hawaii 96743-3028

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct and test Waikoloa Resort Well (Well No. 5553-02) within Tax Map Key: 6-9-07:23, to maintain a man-made lake, is approved subject to the following conditions:

1. The Division of Water and Land Development (DOWALD), Geology-Hydrology Section, shall be notified at 548-7543, before any work covered by this permit commences.

2. The permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation permit from the Commission.

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

4. The following shall be submitted to DOWALD, P.O. Box 373, Honolulu, Hawaii 96809, within 30 days after completion of the well:
WELL CONSTRUCTION PERMIT
Well No. 5553-02

a. Well Completion Report.

b. Elevation (referenced to mean sea level) 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 record, including time, pumping rate, drawdown, chloride content, and water quality data.

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

6. 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

MAY 22, 1990
Date of Issuance

cc: USGS
Department of Health
Drinking Water Branch
Ground Water Protection Program
Hawaii Department of Water Supply
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Waikoloa Resort Utilities
Application for a Well Construction Permit
Waikoloa Resort Well, Kohala Coast, Hawaii

Applicant: Waikoloa Resort Utilities
P.O. Box 3028 W.V.S.
Kohala Coast, Hawaii 96743-3028

Landowner: Waikoloa Development Co.
P.O. Box 3028 W.V.S.
Kohala Coast, Hawaii 96743-3028

Action Requested: Permission to construct and test a 12-inch diameter, 180 ft. deep brackish to salt water well (Well No. 5553-02), to maintain a man-made lake.

Proposed Amount of Withdrawal: 172,800 gallons per day.

Well Description:
Ground elevation: 30 ± ft.
Casing diameter: 12-inch
Solid casing depth: 130 ft.
Screen casing depth: none
Open Hole: 50 ft.
Total depth: 180 ft.

Analysis: The well will explore the possibility of developing a brackish to salt water source to maintain a man-made lake. No adverse impacts are expected.

Water Availability: The well is located in the Northwest Mauna Loa Sector, Anaehoomalu System of Hawaii, according to the latest work in conjunction with the Hawaii Water Plan. Sustainable yield is estimated at 30 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a well construction permit for Waikoloa Resort Well, subject to the following conditions:

(1) The Division of Water and Land Development (DOWALD) shall be notified before work commences.

(2) The permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation permit from the Commission.

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

Approved by Commission on Water Resource Management at the meeting held on MAY 16, 1990
(4) The following shall be submitted to DOWALD within 30 days after completion of the well:

a. Well Completion Report.

b. Elevation (referenced to mean sea level) 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 record; including time, pumping rate, drawdown, chloride content, and water quality data.

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

(6) 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.

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

APPROVAL FOR SUBMITTAL:

WILLIAM W. PATY, Chairperson
May 8, 1990

Waikoloa Resort Utilities
P.O. Box 3028 W.V.S.
Kohala Coast, Hawaii 96743-3028

Gentlemen:

The Commission on Water Resource Management will be acting on your well construction permit application for Waikoloa Resort Well (Well No. 5553-02) at its meeting on Wednesday, May 16, 1990, at 2:00 p.m. in the State Office Building, Conference Rooms B & C, 3060 Eiwa Street, Lihue, Kauai.

Your application will be included on the agenda as Item 12 (enclosed).

You or your representative are invited to attend the meeting.

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

ES:bm
Enc.
April 9, 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: WELL CONSTRUCTION PERMIT APPLICATION
WAIKOLOA RESORT WELL
STATE WELL NO. 5553-02
KOHALA COAST, HAWAII

Thank you for the opportunity to review and comment on the subject application.

Since the proposed well will be used to maintain a man-made lake, the Department's Administrative Rules, Title 11, Chapter 20, "Potable Water Systems," are not applicable. However, in the event that the proposed use were to change, please inform the Safe Drinking Water Branch.

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: Steve D. Hicks
Waikoloa Resort Utilities
P.O. Box 3028 W.V.S.
Kohala Coast, Hawaii 96743-3028
April 5, 1990

Mr. Manabu Tagomori, Deputy Manager
State Department of Land and
Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

WELL CONSTRUCTION PERMIT APPLICATION
WAIKOLOA RESORT WELL (WELL NO. 5553-02)

We have no objections to this well construction for the expected use of maintaining the man-made lake.

H. William Sowake
Manager

GK

...Water brings progress...
March 30, 1990

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

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
Waikoloa Resort Well (Well # 5553-02)

We have reviewed the subject permit application and have no objections to the proposed well construction.

ROBERT K. YANABU, Division Chief
Engineering Division

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

Attn. Mr. Thomas Arizumi, Drinking Water Branch

Dear Dr. Lewin:

Well Construction Permit Applications

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168-12(c), we are sending you a copy of the following permit applications for your review:

- Waikoloa Resort Well (Well No. 5553-02)
- Hawaiian Memorial Park Irrigation Well (Well No. 2347-10)

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

If you have any questions, please contact Manabu Tagomori at 548-7533.

Very truly yours,

WILLIAM W. PATY

Enc.
March 22, 1990

Mr. William Sewake, Manager
Department of Water Supply
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720

Dear Mr. Sewake:

Well Construction Permit Application

We are sending you a copy of the following permit application for your review:

Waikoloa Resort Well (Well No. 5553-02)

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

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

ES:fc
Enc.
March 22, 1990

Mr. Hugh Y. Ono
Chief Engineer
Department of Public Works
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720

Dear Mr. Ono:

Well Construction Permit Application

We are sending you a copy of the following permit application for your review:

Waikoloa Resort Well (Well No. 5553-02)

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

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:fc
Enc.
March 21, 1990

Waikoloa Resort Utilities
P.O. Box 3028 W.V.S.
Kohala Coast, Hawaii 96743-3028

Gentlemen:

We have received your application and $25.00 filing fee for a permit to construct a well (Well No. 5553-02) at Tax Map Key: 6-9-07:23, Anaehoomalu, South Kohala, Hawaii.

We are reviewing your application for completeness and will contact you if we need further information.

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

ES:bm
DIVISION OF WATER RESOURCE MANAGEMENT

FROM: __________________________ DATE: ________ FILE IN: __________________________

TO: INITIAL: __________________________ PLEASE: __________________________ REMARKS: __________________________

____ M. TAGOMORI __________________________ See Me __________________________
____ G. Matsumoto __________________________ Take Action By____________________
____ G. Akita __________________________ Route to Your Branch __________________________
____ L. Chang __________________________ Review & Comment __________________________
____ Y. Shiroma __________________________ Draft Reply __________________________
____ E. Sakoda __________________________ Acknowledge Receipt __________________________
____ D. Nakano __________________________ Xerox ______ copies __________________________
____ W. Rozeboom __________________________ File __________________________
____ S. Samuels __________________________ Mail __________________________
____ E. Hirano __________________________ For Information __________________________
____ T. Kam __________________________
____ A. Monden __________________________ S. Kokubun __________________________
____ H. Young __________________________ L. Nanbu __________________________
____ D. Lee __________________________ F. Ching __________________________
____ G. Miyashiro __________________________ L. Choo __________________________

_____________ __________________________

- Inaehomalin, South Korea E1
APPLICATION FOR

X PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96812. 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 348-7542, Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island Hawaii Tax Map Key 6-9-07: 23
Address P.O. Box 3028 W.V.S.

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

2. WELL OWNER

Firm Name Waikoloa Resort Utilities
Contact Person Steve D. Hicks
Address P.O. Box 3028 W.V.S.
Kohala Coast, Hawaii, 96743-3028

Firm Name Waikoloa Development Co.
Contact Person Thos Rohr
Address P.O. Box 3028, W.V.S.
Kohala Coast, Hawaii, 96743-3028

3. PROPOSED CONTRACTOR FOR:

☐ Well Drilling ☐ Pump Installation

Name ____________________________ Phone ____________________________
Address ____________________________ Contractor's License No. ____________________________

4. PROPOSED WORK

☐ Drill New Well ☐ Deepen ☐ Redrill
☐ Alter ☐ Seal ☐ Abandon
☐ Install New Pump ☐ Replace Pump ☐ Modify Pump
☐ Redrill

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

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.) ☐ Military
☐ Domestic (individual, noncommercial water systems) ☐ Industrial
☐ Irrigation (specify) ☐ Other (specify) Man-made Lake

6. PROPOSED AMOUNT OF WITHDRAWAL 172,800 gallons per day (120 GPM)

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine ☐ Submersible ☐ Centrifugal
Motor: ☐ Diesel ☐ Gas ☐ Electric: __________ Rated Horsepower
Rated Pump Capacity __________ gallons per minute (gpm)

Well Owner (print) ____________________________ Landowner (print) ____________________________
Signature ____________________________ Signature ____________________________
Date ____________ Date ____________

For Official Use Only:
Field Checked By ____________________________ Latitude ____________________________ Hydrologic Unit ____________________________
Date ____________________________ Longitude ____________________________ State Well No. 5433-02
Briefly describe the proposed work:

NEW WELL TO BE USED TO MAINTAIN MAN-MADE LAKE.

PROPOSED SECTION OF WELL

Elevation at top of casing 30 ft., msl.

Ground Elev. 30 ft., msl*

Cement Grout 130 ft.

Solid Casing:
- Material: Schedule 80 PVC Pipe
- Length: 130 ft.
- Diameter: 12" in.
- Wall thickness: .687 in.

Hole Dia. 16 in.

Casing: / Perforated / Screen
- Material
- Length
- Diameter
- Wall thickness
- Openings sq. in./L.F.

Total Depth 180 ft.

Rock Packing ft.

Open Hole:
- Length 50 Ft.
- Diameter 11" 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.
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**PAY**

TWENTY FIVE DOLLARS AND NO CENTS

DEPT. OF LAND & NATURAL RESOURCES
P.O. BOX 936
HILO, HI 96720

**DATE**

JAN 26, 1990

**CHECK NO.**

2704

**AMOUNT**

$25.00

**PAY TO THE ORDER OF**

DEPT. OF LAND & NATURAL RESOURCES
P.O. BOX 936
HILO, HI 96720

**DATE**

JAN 26, 1990

**CHECK NO.**

2704

**AMOUNT**

$25.00
Waikoloa Resort Well
(Well No. 5553-02)