<table>
<thead>
<tr>
<th>TO:</th>
<th>INIT:</th>
<th>PLEASE:</th>
<th>REMARKS:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E. SAKODA</td>
<td>See Me</td>
<td>According to Glenn B -</td>
</tr>
<tr>
<td></td>
<td>K. Oshiro</td>
<td>Call</td>
<td>this well exists.</td>
</tr>
<tr>
<td></td>
<td>D. Higa</td>
<td>Review &amp; Comment</td>
<td>Tanaka &quot;Well&quot;</td>
</tr>
<tr>
<td></td>
<td>R. Hardy</td>
<td>Take Action</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Zhang</td>
<td>Investigate &amp; Report</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Zhang</td>
<td>Draft Reply</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Zhang</td>
<td>Acknowledge Receipt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Zhang</td>
<td>Type Draft</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Zhang</td>
<td>Type Final</td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Zhang</td>
<td>Xerox ___ copies</td>
<td></td>
</tr>
</tbody>
</table>

FOR YOUR:

<table>
<thead>
<tr>
<th></th>
<th>R. LOUI</th>
<th>Approval</th>
<th>Completion Report Recl</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S. Kokubun</td>
<td>Signature</td>
<td>August 13, 1992</td>
</tr>
<tr>
<td></td>
<td>G. MATSUMOTO</td>
<td>Information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y. SHIROMA</td>
<td></td>
<td>FROM WATER RESOURCES ENGINEER</td>
</tr>
</tbody>
</table>

(Tom Nance)
Certified Mail

TO: Kamehameha Investment Corp.
P.O. Box 459
Honolulu, Hi 96809

REVOCATION OF WELL CONSTRUCTION PERMIT
Previously issued on October 31, 1988, for
KKRC Well No. 1
Well No. 3456-01
Keauhou, Hawaii

On October 31, 1988, the Commission on Water Resource Management issued you a permit to construct and test Well No. 3456-01 for municipal use within Tax Map Key 7-8-10:6. The permit was valid for two years from the date of issuance and required that a well completion report be submitted within 30 days after completion of the well.

As of this date, no well completion report or other evidence has been received by the Department which indicates that the subject well was ever constructed. Accordingly, we conclude that the well was not constructed within the allowable period, which has now expired, and that the permit should be revoked.

You are hereby notified in accordance with H.A.R. §13-168-12(k) that the permit to construct the above-mentioned well shall be revoked within 60 days of the date of this letter unless you can show good cause that it should not be revoked. If the well has already been constructed, you must notify us of this before the permit is revoked and provide the information specified by the well construction permit conditions. Please contact our Regulation Branch at (808) 587-0225 if you have any questions.

Sincerely,

RAE M. LOUI
Deputy Director

BR:ky
OCT 31 1988

Kamehameha Investment Corp.
P.O. Box 459
Honolulu, Hawaii 96809

Gentlemen:

I am pleased to inform you that the Commission on Water Resource Management approved your application for a well construction permit at its meeting on October 19, 1988. Enclosed is a copy of the approved submittal and your well construction permit for KKRC Well No. 1, State Well No. 3456-01, Keauhou, Hawaii.

Following construction and pump testing for the well, an application for a pump installation permit is required in accordance with the Administrative Rules of the State Water Code.

Also required are monthly reports of pumpage when the well is put into production.

If you have any questions, please contact the Division of Water and Land Development at 548-7619.

Very truly yours,

[Signature]

WILLIAM E. PATY

MT:ES:ko

Enc.
cc: Belt Collins & Assoc.
WELL CONSTRUCTION PERMIT

for
KKRC Well No. 1
State Well No. 3456-01
Keauhou, Hawaii

TO: Kamehameha Investment Corp.
P.O. Box 459
Honolulu, Hawaii 96809

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 State Well No. 3456-01 for municipal use within Tax Map Key: 7-8-10:6 is approved subject to the following conditions:

1. The Division of Water and Land Development (DOWALD), Geology-Hydrology Section, shall be notified at 548-7619, before any work covered by this permit commences.

2. The annulus of the well shall be grouted to a depth of 600 feet from the ground surface instead of 200 feet as shown on the proposed section of the well.

3. The following shall be submitted to DOWALD, P.O. Box 373, Honolulu, Hawaii 96809, within 60 days after completion of the wells:
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the wells.
   d. Plot plan and map showing the exact location of the well.
   e. Pumping test record, including time, pumping rate, drawdown, chloride content, and water quality.
4. If the well is for potable use, the applicant shall comply with Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems."

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 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.

OCT 31 1988

WILLIAM W. PATY

Date of Issuance

Enc. (Driller's Report form)

cc: USGS
Department of Health,
Drinking Water Program
Ground Water Protection Program
Hawaii Dept. of Water Supply
Belt Collins & Associates
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Application for Well Construction Permit for
Kamehameha Investment Corp. Well, Keauhou, Kona, Hawaii

Applicant: Kamehameha Investment Corp., P.O. Box 459
Honolulu, Hawaii 96809

Action Requested: Approval of permit to construct and test State Well No. 3456-01 for municipal use.

Well Location: The well will be located within Tax Map Key: 7-8-10:6, Keauhou, Kona, Hawaii (see attached map).

Impact on Surrounding Wells: No adverse effects.

Agency Review: The application has been sent to the following agencies for review:

<table>
<thead>
<tr>
<th>Agency</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dept. of Public Works, County of Hawaii</td>
<td>No objections.</td>
</tr>
</tbody>
</table>
| State Dept. of Health         | (1) Increase cement grout from 200 feet to 600 feet.  
                                | (2) If the well is for potable use, Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems" needs to be addressed. |

RECOMMENDATION:

That the Commission approve the issuance of a Well Construction Permit to Kamehameha Investment Corp. for the construction and testing of KKRC Well No. 1, subject to the following conditions:

(1) The Division of Water and Land Development (DOWALD) shall be notified before any work covered by this permit commences.

(2) The annulus of the well shall be grouted to a depth of 600 feet from the ground surface instead of 200 feet as shown on the proposed section of the well.
Chairperson and Members  
Commission on Water Resource Management  
October 19, 1988

(3) The following shall be submitted to DOWALD within 60 days after completion of the well:
   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. Pumping test record, including time, pumping rate, drawdown, chloride content, and water quality.

(4) If the well is for potable use, the applicant shall comply with Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems."

(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 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

Attachments

APPROVED FOR SUBMITTAL

WILLIAM W. PATY, Chairperson
Kéauhou Well "13" (Tēnako Well)

Well Location looking North
KALOKO IRR WELL 2
BM - "t" cut on top of flange __________ 544.026
BM - concrete nail in concrete __________ 542.889

KEAUKOU WELL "A"
BM - spike in corner pavement __________ 714.885
BM - "t" cut on top of flange __________ 723.891

KEAUKOU WELL "B" (3456-01)
BM - "t" cut in top of flange __________ 1018.931
BM - RK. Nail in rock __________ 1018.838

KIHOLO WELL SITE
BM - "t" cut on top of flange __________ 932.479
BM - "b" cut in corner concrete platform __________ 931.510

OULU WELL 2
BM - "t" cut on top of flange __________ 1311.013
BM - spike in rock __________ 1311.692

OULU WELL 1
BM - "t" cut in top of flange __________ 1303.802
BM - nail in corner concrete platform __________ 1302.227
FROM: (WRYN) OF WATER RESOURCE MANAGEMENT

DATE: 10/6/87 FILE IN: _______

TO: INITIAL: PLEASE: REMARKS:

---

M. TAGOMORI
D. Lum
G. Matsumoto
G. Akita
L. Chang
Y. Shiroma
E. Sakoda
D. Nakano
S. Miyamoto
S. Samuels
P. Matsuo
H. Young
R. Suzuki
N. Kaneshiro

See Me
Take Action By
Route to Your Branch
Review & Comment
Draft Reply
Acknowledge Receipt
Xerox copies
File
Mail
For Information

S. Kokubun
D. Hamada
L. Nanbu
F. Ching

---

Job's book
in well 685
lets include 680!

grunting
The Honorable William W. Paty, Chairperson
Commission on Water Resources Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, HI 96809

Dear Mr. Paty:

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
KKRC Well No. 1, State Well No. 3456-01

Thank you for submitting the permit application for our review.

The application has been reviewed and it is suggested that the cement grout be increased from 200 feet to 600 feet. Location of the well is in a populated area with cesspools used as a method of waste disposal. If the well is for potable usage, Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems" needs to be addressed.

Very truly yours,

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

WW:la
September 21, 1988

MR WILLIAM W PATY CHAIRPERSON
COMMISSION ON WATER RESOURCE MANAGEMENT
STATE DEPARTMENT OF LAND AND NATURAL
RESOURCES
P O BOX 621
HONOLULU HI 96809

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
A) Ouli Well, State Well No. 6046-01, Ouli, Hawaii
B) KKRC Well No. 1 Well, State Well No. 3456-01, Keauhou, Hawaii

We have reviewed the subject permit applications and have no objections to the proposed sitings of the wells.

HUGH Y. ONO, P.E.
Chief Engineer

STT:aa
SEP 15 1988

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,
KKRC Well No.1 Well, State Well No. 3456-01, Keeaumoku, Hawaii

We are sending you a copy of a well construction permit application submitted by Kamehameha Investment Corporation.

Please review the application and submit your comments to us, orally or in writing, at your earliest convenience. We would appreciate your comments within three weeks from the date of this letter.

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

Very truly yours,

[Signature]

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

MT:ES:ko
Enc.
Honorable John G. Lewin, M.D.
Director
Department of Health
State of Hawaii
1250 Punchbowl Street
Honolulu, Hawaii 96813

Dear Dr. Lewin:

Well Construction Permit Application,
KKRC Well No. 1, State Well No. 3456-01

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 subject permit application.

Please review the application and submit your comments to us, orally or in writing, at your earliest convenience. We would appreciate your comments 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, Chairperson
Commission on Water Resource Management

MT:ES:ko
August 3, 1988

Mr. Tom Nance
Belt Collins & Associates
680 Ala Moana Blvd., Suite 200
Honolulu, Hawaii 96813

Dear Mr. Nance:

We have received your client, Kamehameha Investment Corporation's application to construct a well at Tax Map Key: 7-8-10-6, Keauhou, North Kona, Hawaii.

Under the new Administrative Rules, Chapter 13-168, entitled "Water Use, Wells, and Stream Diversion Works", an application for a well construction permit must be accompanied by a $25.00 filing fee. Please send the $25.00 filing fee, payable to the Department of Land and Natural Resources, to P.O. Box 373, Honolulu 96809.

Sincerely,

[Signature]

M. ANABU TAGOMORI
Deputy for Water Resource Management

ES:ko

[Received fee - 7/12/88]
DIVISION OF WATER RESOURCE MANAGEMENT

FROM: [Signature]  DATE: [Signature]  FILE IN: 3456-01

TO: INITIAL: PLEASE: REMARKS:

- M. TAGOMORI See Me
- D. Lum Take Action By
- G. Matsumoto Route to Your Branch
- G. Akita Review & Comment
- L. Chang Draft Reply
- Y. Shiroma Acknowledge Receipt

- E. Sakoda Xerox ___ copies
- D. Nakano File
- S. Miyamoto Mail
- S. Samuels For Information

- P. Matsuo S. Kokubun
- H. Young D. Hamada
- R. Suzuki L. Nanbu
- N. Kaneshiro F. Ching

Ed. [Signature]  [Note: Request for comment]  [Note: C.c. to Hawaii BWS]
Mr. Manabu Tagomori  
Division of Water & Land Development  
Department of Land & Natural Resources  
State of Hawaii  
P.O. Box 373  
Honolulu, Hawaii 96809

Dear Manabu:

Well Drilling Application for KKRC Well No.1 (3456-01)

On behalf of Kamehameha Investment Corporation, we are pleased to submit the enclosed well drilling permit application. As our client is anxious to proceed with the work, your prompt response would be greatly appreciated.

Sincerely,

Tom Nance

TN:vl

Enclosures

cc: Wallace Tirell  
Gary Lam
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

DEPARTMENT MASTER APPLICATION FORM

(Please print or type)

I. LANDOWNER/WATER SOURCE OWNER
(If State land, to be filled in by Government Agency in control of property)

Name Kamehameha Investment Corp.
Address P. O. Box 459
Honolulu, Hawaii 96809
TelephoneNumber No. 521-1408

II. APPLICANT (Water Use, omit if applicant is landowner)

Name
Address
Telephone No.

III. TYPE OF PERMIT(S) APPLYING FOR

( ) A. State Lands
( ) B. Conservation District Use
( ) C. Withdraw Water From A Ground Water Control Area
( ) D. Supply Water From A Ground Water Control Area
(X) E. Well Drilling/Modification

IV. WELL OR LAND PARCEL LOCATION REQUESTED

District North Kona
Island Hawaii
County Hawaii
Tax Map Key 7-8-10:6 (portion)
Area of Parcel 327.836
Term (if lease) 40 years

Signature

Date July 21, 1988

*Signature if for a Corporation, Partnership, Agency or Organization, must be signed by an authorized officer.

(Indicate interest in property; submit written evidence of this interest)

Interest in Property

*Signature

Date

FILING FEE DUE DATE: 08/16/88
V. Environmental Requirements

Pursuant to Chapter 343, Hawaii Revised Statutes, and in accordance with Section 1:30B of the EIS Regulations for applicant actions, an Environmental Assessment of the proposed use must be attached. The Environmental Assessment shall include, but not be limited to the following:

A. Identification of application;

B. Description of proposed use and statement of objectives;

C. Description of affected environment, including appropriate maps and plans to show location, topography, site improvements, existing utilities and vegetation and archaeological/historical sites, if any. (See page 5, section I).

D. General description of the technical, economic, social and environmental characteristics of the proposed use.

NOTE: The Environmental Assessment may be substituted in lieu of the information required above.
V. ENVIRONMENTAL REQUIREMENTS

A. Identification of Application

The applicant is the Bernice Pauahi Bishop Estate. Development of the well is a necessary element to the expansion of its Keauhou Resort.

B. Description of Proposed Use and Statement of Objectives

The intent of the well drilling is to develop a potable water source which can be connected to the Hawaii County Department of Water Supply's (DWS) North Kona system. If the well water quality is acceptable, the well, its pump, and related improvements would be dedicated to DWS.

It is recognized that potable quality water may not be obtained. If this is the case, the well might ultimately be used for golf course irrigation. That decision would be based on future development and the availability of alternative sources.

C. Description of the Affected Environment

The well site is at elevation 1000 feet, directly inland of Keauhou Bay, and 400 feet seaward of Kuakini Highway. The site chosen is on open land and is adjacent to an electrical substation. There are no known archaeological/historical sites in the immediate vicinity. Archaeological clearance is a requirement to obtain the necessary grading permit to start work.

Other wells have been drilled in the region: DWS' Kahaluu wells (3557-01 thru -05) are located 6000 feet to the north; Keauhou Golf Course's irrigation wells (3457-01 & -02 and 3357-01) are located from 3500 to 6000 feet to the east; and an unused DWS test well (3457-03) is located approximately 4000 feet to the northeast.

If the well is successful, its outfitting would include extension of electric power and construction of an access road, pipeline connection to the DWS system, and other related water system improvements.

D. Technical, Economic, Social, and Environmental Characteristics of the Proposed Use

New sources of supply are needed for expansion of Keauhou Resort or other development at Keauhou. DWS' Kahaluu wells have experienced increasing salinity in response to pumping. The regional groundwater draft needs to be dispersed to reverse this trend.

DWS drilled a test well (3457-03) to develop a new source to meet projected supply requirements. The water developed was slightly brackish and DWS has decided not to use the well. The location for this new well is further inland to avoid a similar result.
APPLICATION FOR (check one)

X WELL DRILLING PERMIT

Instructions: Send completed application and attachments to the Department of Land and Natural Resources, P.O. Box 621, Honolulu, Hawaii 96809.

Reference: Chapter 166, Department of Land and Natural Resources.

Is the well located in a Designated Ground Water Control Area? ___ Yes X 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 and 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 NAME AND/OR LOCATION: KKRC Well No. 1. Attach a plot plan showing well location referenced to established property boundaries.

2. PROPOSED DRILLING COMPANY: Fred Page International Drilling

3. PROPOSED WORK: X Drill new well ___ Deepen ___ Redrill ___ Alter ___ Se Abandon ___ Install new pump ___ Replace pump ___ Modify pump

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

**PROPOSED SECTION OF WELL**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Diameter</th>
<th>Rock Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1040 ft.</td>
<td>20 in.</td>
<td>0 ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Depth</th>
<th>1002 ft.</th>
</tr>
</thead>
</table>

**Elevation at top of casing**

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Ground Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1002 ft.</td>
<td>1000 ft.</td>
</tr>
</tbody>
</table>

**Cement**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>200 ft.</th>
</tr>
</thead>
</table>

**Grout**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>20 in.</th>
</tr>
</thead>
</table>

**Hole**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>14 inch</th>
</tr>
</thead>
</table>

**Rock**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10 feet</th>
</tr>
</thead>
</table>

*Approximate elev. at filing. Final elev. (msl) by a surveyor licensed by the State must be submitted at start of construction.*

---

**Solid casing:**

<table>
<thead>
<tr>
<th>Material</th>
<th>Steel (ASTM A-53)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1000 feet</td>
</tr>
<tr>
<td>Diameter</td>
<td>16 inch</td>
</tr>
<tr>
<td>Wall thickness</td>
<td>0.375 in</td>
</tr>
</tbody>
</table>

**Casing:**

<table>
<thead>
<tr>
<th>Material</th>
<th>Steel (ASTM A-53)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>30 feet</td>
</tr>
<tr>
<td>Diameter</td>
<td>16 inch</td>
</tr>
<tr>
<td>Wall thickness</td>
<td>0.375 in</td>
</tr>
</tbody>
</table>

**Openings:**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>100 sq ft.</th>
</tr>
</thead>
</table>

**Gwen Hole:**

<table>
<thead>
<tr>
<th>Length</th>
<th>10 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>14 inch</td>
</tr>
</tbody>
</table>

---
4. PROPOSED USE: \( \times \) Municipal \( \_\_\_\_\_\_\_\_\_\) Military \( \_\_\_\_\_\_\_\_\) Agricultural \( \_\_\_\_\_\_\_\_\) Industrial
\( \_\_\_\_\_\_\_\_\_\) Domestic \( \_\_\_\_\_\_\_\_\) Disposal \( \_\_\_\_\_\_\_\_\) Other (specify) ____________

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

\( \times \) Daily \( 10^6 \) Gallons. \( \square \) Monthly ____ Gallons. \( \square \) Yearly ____ Gal

6. PROPOSED PUMP OR FLOW CAPACITY 700 Gallons per minute