Chairperson and Members  
Commission on Water Resource Management  
State of Hawaii  
Honolulu, Hawaii  

Gentlemen:

Ross Hiltbrand  
Application for a Well Construction Permit  
Punaluu-Hiltbrand Well, Punaluu, Oahu

Applicant:     Landowner:
Ross Hiltbrand  Same
1616 Kewalo Street  
Honolulu, Hawaii 96822

Action Requested: Permission to construct and test an 8-inch diameter well (Well No. 3453-11) for domestic use.

Well Location: The proposed well site is at Punaluu, Oahu, at Tax Map Key: 5-3-05:58 (see attached map).

Proposed Amount of Use: 4,000 gallons per day (proposed pump capacity = 30 gpm).

Well Description (proposed):

Projected:

| Ground elevation: | 20± ft. |
| Casing diameter: | 4" inches |
| Solid casing depth: | 80± ft. |
| Perforated casing depth: | 0± ft. |
| Open Hole: | 20± |
| Total depth: | 100 ft. |

Agency Review: The application has been sent to the Honolulu Board of Water Supply and to the State Department of Health for review. There have been no objections to the project.

Analysis: The well is expected to develop water from a fresh to brackish alluvial aquifer. The proposed well design may have to be adjusted according to the geologic and hydrologic conditions encountered in the field.

Water Availability: The well is located in the Windward Sector, Koolauloa System of Oahu. Water availability is estimated at 35 mgd in the system. The well, however, should be in the alluvial aquifer which is a separate aquifer from the basal or dike basal aquifer, and should not be counted as part of the 35 mgd available.

ITEM 7
Chairperson and Members
Commission on Water Resource Management

April 18, 1990

RECOMMENDATION:

That the Commission approve the issuance of a well construction permit for Punaluu-Hilibrand 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.

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

(4) The grouted annular space shall be at least 3 inches all around the casing.

(5) 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.

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

(7) Water from the well shall not be used for drinking water unless properly tested and treated.

(8) 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
APPLICATION FOR

WELL CONSTRUCTION PERMIT
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 96822. 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 546-7543, Hydrology/Geology Section for assistance.

1. WELL LOCATION
Island ________ Tax Map Key ____________________________
Address ___________________________________________
(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
Firm Name ____________________________
Contact Person ____________________________
Address ____________________________________________
Phone ____________________________

LANDOWNER
Firm Name ____________________________
Contact Person ____________________________
Address ____________________________________________
Phone ____________________________

3. PROPOSED CONTRACTOR FOR: ☐ Well Drilling ☐ Pump Installation
Name ____________________________
Address ____________________________________________
Phone ____________________________
Contractor's License No. ____________________________

4. PROPOSED WORK
☐ Drill New Well ☐ Deepen ☐ Redrill
☐ Alter ☐ Seal ☐ Abandon
☐ Install New Pump ☐ Replace Pump ☐ Modify Pump
☐ New Pump ☐ Replace Pump

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

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

6. PROPOSED AMOUNT OF WITHDRAWAL ________ gallons per day

7. PROPOSED PUMP INFORMATION
Pump Type: ☐ Vertical Turbine ☐ Submersible ☐ Centrifugal
Motor: ☐ Diesel ☐ Gas ☐ Electric: ____________________________
Rated Pump Capacity ____________________________ gallons per minute (gpm)

Well Owner (print) ____________________________
Signature ____________________________
Date ____________________________

Landowner (print) ____________________________
Signature ____________________________
Date ____________________________

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

![PROPOSED SECTION OF WELL](image)

Ground Elev. 20+ ft., msl.

Solid Casing:
- Material: scheduled pipe
- Length: 80.7 ft.
- Diameter: 4 in.
- Wall thickness: scheduled 40 in.

Casing: / Perforated / Screen
- Material: None
- Length: __________ ft.
- Diameter: __________ in.
- Wall thickness: __________ in.
- Openings: __________ sq. in./L.F.

Open Hole:
- Length: 20 ft.
- Diameter: 3/8 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.
Punaluu—Hiltbrand Well
(Well No. 3453—11)
TO Ed
DATE 10/10/90 TIME 11:07 AM
WHILE YOU WERE OUT
Ross Hillbrand
of 949-4062
Phone

<table>
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<tr>
<th>TELEPHONED</th>
<th>PLEASE CALL</th>
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<tr>
<td>CALLED TO SEE YOU</td>
<td>WILL CALL AGAIN</td>
</tr>
<tr>
<td>WANTS TO SEE YOU</td>
<td>URGENT</td>
</tr>
</tbody>
</table>

RETURNED YOUR CALL

Message

1:05 P.M. TODAY

Operator
Ross and Ginger Hiltbrand  
45-415 Akimala Street  
Kaneohe, HI 96744

Dear Ross and Ginger Hiltbrand:

Punaluu-Hiltbrand Well (Well No. 3453-11)

Thank you for your letter informing us of the status of your well and requesting an extension of the start date for your pump installation. We understand that you are waiting for HECO to deliver power to your area before installing the pump.

By this letter your extension request is approved. Call Ed Sakoda at 548-7643 if you have any questions.

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy Director

ES:bm
<table>
<thead>
<tr>
<th>TO</th>
<th>INITIAL</th>
<th>PLEASE</th>
<th>REMARKS</th>
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<tr>
<td>G. AKITA</td>
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<td>See Me</td>
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<tr>
<td>L. Nanbu</td>
<td></td>
<td>Take Action By</td>
<td></td>
</tr>
<tr>
<td>E. Sakoda</td>
<td></td>
<td>Route to Your Branch</td>
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<tr>
<td>G. Matsumoto</td>
<td></td>
<td>Review &amp; Comment</td>
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<tr>
<td>E. Lau</td>
<td></td>
<td>Draft Reply</td>
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<tr>
<td>L. Chang</td>
<td></td>
<td>Acknowledge Receipt</td>
<td></td>
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<tr>
<td>Y. Shiroma</td>
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<td>Xerox copies</td>
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<td>Mail</td>
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<tr>
<td>M. TAGOMORI</td>
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<tr>
<td>S. Kokubun</td>
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</tbody>
</table>
July 5, 1991
91 JUL 10 P 1:17

Regardina: Punalu'u Hillbrand Well # 3453-11
Tax Permit # 5-3-05:58

Dear Sirs:

We have not yet installed our pump as we are awaiting the power lines to be connected from HECO which we hope will be within a few months.

Recently P. R. Drilling has welded our well shut to prevent contamination of the water.

We would like to request an extension of the permit for the installation of the pump for a few more months or until HECO installs electricity into the Punalu'u area.

We have spoken with Ed Sakota of the Board of Water Supply and therefore are submitting a written request for the extension of the permit as required.

Sincerely,

Ginger Hillbrand
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 327, Honolulu, HI 96820. An as-built drawing of the well and chemical analysis, if available, should also be submitted. If necessary, phone 548-1543, Hydrology, Geology Section for assistance.

A. STATE WELL NO. 3453-11

B. LOCATION

C. WELL OWNER

D. DRILLING OR PUMP INSTALLATION CONTRACTOR

E. TYPE OF RIG

F. DATE OF WELL COMPLETION

G. GROUND ELEVATION (ft.)

H. TOTAL DEPTH OF WELL BELOW GROUND

I. HOLE SIZE:

J. CASING INSTALLED:

K. ANNULUS:

L. PERMANENT PUMP INSTALLATION:

M. PROPOSED USE

N. INITIAL WATER LEVEL

O. INITIAL CHLORIDE

P. PUMPING TESTS:

Q. DRILLER’S LOG:

REMARKS:

Submitted by (print) Ross Al Hilfbrand
Title: Owner
Signature: Ross A. Hilfbrand
OPERATOR: Cliff Lee
LOCATION: Laie
PROJECT: Hiltbrand
JOB NO.: 90-2185
BORING NO.: 1
TYPE OF EQUIPMENT: B-80 Mobile Drill

<table>
<thead>
<tr>
<th>Time</th>
<th>Wtr Press</th>
<th>Meter</th>
<th>Temp</th>
<th>Air Lbs</th>
<th>Drawdown</th>
<th>GPM</th>
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<td>11,530</td>
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<td>25</td>
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<td>11,690</td>
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<td>23</td>
<td>54.28</td>
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<td>12,518</td>
<td>68</td>
<td>23.5</td>
<td>54.285</td>
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<td>13,352</td>
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<td>23.25</td>
<td>53.71</td>
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<td>14,203</td>
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<td>23</td>
<td>53.13</td>
<td>28.3</td>
<td>75 PPM</td>
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<td>62.5 PPM</td>
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<td>Depth From to (ft.)</td>
<td>Description of Material</td>
<td>Sample No. Bolds</td>
<td>Penetration Type</td>
<td>Type of Boring</td>
<td>Type of Sample</td>
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<tr>
<td>0' - 9'</td>
<td>Hard Clay-Boulders</td>
<td></td>
<td>9' Auger</td>
<td></td>
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<td></td>
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<tr>
<td>9' - 18'</td>
<td>Clay-Water</td>
<td></td>
<td>9' Auger</td>
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<td>18' - 25'</td>
<td>Sandy Clay-Boulders</td>
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<td>7'</td>
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<td>25' - 28'</td>
<td>Clay-Soft Rock</td>
<td></td>
<td>3'</td>
<td></td>
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<tr>
<td>28' - 48'</td>
<td>Soft Broken Rock</td>
<td></td>
<td>20' Hammer Drill</td>
<td></td>
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<tr>
<td>48' - 53'</td>
<td>Hard Rock (water at 48')</td>
<td>5'</td>
<td>7 7/8 Bit</td>
<td></td>
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<td>53' - 60'</td>
<td>Soft Broken Rock</td>
<td></td>
<td>7'</td>
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<tr>
<td>60' - 63'</td>
<td>Hard Rock (water at 63')</td>
<td></td>
<td>3'</td>
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<tr>
<td>63' - 72'</td>
<td>Soft Broken Rock</td>
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<td>9'</td>
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<td>72' - 80'</td>
<td>Hard Rock</td>
<td></td>
<td>8'</td>
<td></td>
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<tr>
<td>80' - 83'</td>
<td>Hard Rock</td>
<td></td>
<td>3' 5/8 Bit</td>
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<tr>
<td>83' - 92'</td>
<td>Soft Rock (water at 83')</td>
<td>9'</td>
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<tr>
<td>92' - 94'</td>
<td>Hard Rock</td>
<td></td>
<td>2' Rock Bit 3 7/8</td>
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<td>94' - 100'</td>
<td>Soft Rock (water at 94')</td>
<td>6'</td>
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</tbody>
</table>
Briefly describe the proposed work:

Panama---Hilbrand Well    Well # 3453-11

Drilled, Cased 4" @ and Cemented New Well

**PROPOSED SECTION OF WELL**

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>Ground Elev. 24.01 ft., msl*</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.11' ft., msl.</td>
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</table>

<table>
<thead>
<tr>
<th>Solid Casing:</th>
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<tbody>
<tr>
<td>Material</td>
<td>Sth. 40 Steel</td>
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<tr>
<td>Length</td>
<td>82' ft.</td>
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<tr>
<td>Diameter</td>
<td>4&quot; in.</td>
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<tr>
<td>Wall thickness</td>
<td>1/4&quot; in.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing: / /Perforated / /Screen</th>
</tr>
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<tbody>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Length</td>
</tr>
<tr>
<td>Diameter</td>
</tr>
<tr>
<td>Wall thickness</td>
</tr>
<tr>
<td>Openings</td>
</tr>
</tbody>
</table>

| Rock Packing                  | N/A ft.                       |

| Ground Elev. 24.01 ft., msl*  |

<table>
<thead>
<tr>
<th>Open Hole:</th>
<th></th>
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<tbody>
<tr>
<td>Length</td>
<td>20'</td>
</tr>
<tr>
<td>Diameter</td>
<td>3 7/8&quot; in.</td>
</tr>
</tbody>
</table>

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
TO: Ross Hiltbrand
1616 Kewalo Street
Honolulu, Hawaii 96822

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 30 gallons-per-minute pump into a well (Well No. 3453-11) within Tax Map Key: 5-3-05:58 for domestic use 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 legal uses in the area.

3. 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.

4. 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.
5. Water from the well shall not be used for drinking water unless properly tested and treated.

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

7. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

JAN 7 1991
Date of Issuance

cc: USGS
Department of Health
   Drinking Water Branch
   Ground Water Protection Program
Honolulu Board of Water Supply

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management
TO Ed (343-11)

DATE 10/24  TIME 2:30

WHILE YOU WERE OUT

Ross Hilbrand

of 949-4662

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<tr>
<th>TELEPHONED</th>
<th>PLEASE CALL</th>
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<td>CALLED TO SEE YOU</td>
<td>WILL CALL AGAIN</td>
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<tr>
<td>WANTS TO SEE YOU</td>
<td>URGENT</td>
</tr>
</tbody>
</table>

RETURNED YOUR CALL


Operator
May 11, 1990

Mr. Carey Smoot
Carey Smoot & Associates
44-299 Kaneohe Bay Drive
Kaneohe, HI 96744

Dear Mr. Smoot:

Subject: Individual Wastewater System (IWS) for Mr. Ross Hiltbrand's Lot at Green Valley Road, Hauula, Oahu
TMK: 5-3-05: 58

Plans for a septic tank serving a dwelling located at Green Valley Road, Hauula, Oahu, have been reviewed by the Department. The plans have indicated that the project is in compliance with all applicable sections of Title 11, Chapter 62, Hawaii Administrative Rules, "Wastewater Systems." Therefore, approval to construct the subject septic tank system is granted. Please be informed that only one IWS will be allowed to be used on this property. Our plans approval is subject to field verification.

In addition to the plans approval, please be informed that in accordance with Section 11-62-31(e), Hawaii Administrative Rules, Department of Health, "Wastewater Systems," prior to operation, the septic tank must be inspected and approved in writing by the Director. Therefore, it is your responsibility to inform the Department of the completion of the unit such that arrangements can be made to conduct a final inspection. Arrangements can be made by contacting the Wastewater Branch at telephone 543-8291. Please allow between 7 and 10 working days for our engineers to make the necessary arrangements for this inspection. The disposal field shall not be covered or buried prior to the final inspection.

If you should have any questions, please contact the Wastewater Branch at 543-8291.

Sincerely,

James K. Ikeda, Acting Chief
Environmental Management Division

FRU/eq
cc: Mr. Ed Sakoda
    Comm. on Water Resources Mgmt., DLNR
    Mr. Ross Hiltbrand
TO: Ross Hiltbrand  
1616 Kewalo Street  
Honolulu, Hawaii 96822

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 a well (Well No. 3453-11) within Tax Map Key: 5-5-05:58 for domestic use 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.

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

4. The grouted annular space shall be at least 3 inches all around the casing.

5. Water from the well shall not be used for drinking water unless properly tested and treated.

6. 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. 3453-11

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.

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

8. 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

APR 25 1990
Date of Issuance

cc: USGS
Department of Health
Drinking Water Branch
Ground Water Protection Program
Honolulu Board of Water Supply
April 12, 1990

Mr. Ross Hiltbrand
1616 Kewalo Street
Honolulu, Hawaii 96822

Dear Mr. Hiltbrand:

The Commission on Water Resource Management will be acting on your well construction permit application for Punaluu-Hiltbrand Well (Well No. 3453-11) at its regular meeting on Wednesday, April 18, 1990, at 2:00 p.m. in Room 132, Kalanimoku Bldg., 1151 Punchbowl Street, Honolulu, Hawaii.

Your application will be included on the agenda as Item 7 (enclosed).

You or your representative are invited to attend the meeting.

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

ES:fc
Encl.
March 14, 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
PUNALUU-HILTSBRAND WELL
STATE WELL NO. 3453-11
PUNALUU, OAHU

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

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

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

3. It is our understanding that this area is served by the Board of Water Supply. If there are any potential contamination problems at this well site, such as wastewater disposal, the applicant should obtain his potable water from the Board.
March 14, 1990

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: Ross Hiltbrand
1616 Kewalo Street
Honolulu, HI 96822
Mr. Manabu Tagomori  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Tagomori:


Thank you for the opportunity to comment on these proposed wells. We do not have any objection to these wells.

Very truly yours,

KAZU HAYASHIDA  
Manager and Chief Engineer
TO Ed
DATE 4/27 TIME 12:15
While you were out
M Carey Smoot
of
Phone 254-3701

- TELEPHONED
- PLEASE CALL
- CALLED TO SEE YOU
- WILL CALL AGAIN
- WANTS TO SEE YOU
- URGENT

Message: Re: Status of Hiltbrand - well permit

Operator
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:

- Makolelau Well A (Well No. 0355-04)
- Makolelau Wells B,C,D (Well Nos. 0455-01 to 03)
- Kapolei Irrigation Wells A,B (Well Nos. 2003-01,02)
- Punaluu-Hiltbrand Well (Well No. 3453-11)

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, Chairperson
Commission on Water Resource Management

MT:ES:fc
Encl.
Mr. Kazu Hayashida  
Manager and Chief Engineer  
Board of Water Supply  
City and County of Honolulu  
630 South Beretania Street  
Honolulu, Hawaii  96843  

Dear Mr. Hayashida:  

Well Construction Permit Applications  

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

- Kapolei Irrigation Wells A,B (Well Nos. 2003-01,02)  
- Punaluu-Hiltbrand Well (Well No. 3453-11)  

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  

Encl.
Ross Hiltbrand
1616 Kewalo Street
Honolulu, Hawaii

Dear Mr. Hiltbrand:

We have received your application and $25.00 filing fee for a permit to construct a well (Well No. 3453-11) at Tax Map Key: 5-3-05: 58 at Punaluu, Oahu.

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,

Manabu Tagomori
Deputy Director

ES:fc
Punaluu—Hiltbrand Well
(Well No. 3453-11)

ISLAND OF OAHU
ISLAND OF OAHU

PROJECT AREA

KAHU

KAAAWA

WAIMEA

WAIALUA

MAKAHA

NANAKULI

EWA

Barbers Pt.

HONOLULU

DIAMOND HEAD

KAILUA

WAIMANALO

Honauma Bay
APPLICATION FOR

[ ] WELL CONSTRUCTION PERMIT
[ ] PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $15.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 548-1145, Hydrology/Geology Section for assistance.

1. WELL LOCATION
Island [ ] Oahu
Tax Map Key 5-3-05:58
Address ____________________________
(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
Name Ross Hiltbrand
Contact Person ____________________________
Address 1616 Kewalo St.
Honolulu 96822
Phone 536-4253

3. LANDOWNER
Name Ross Hiltbrand
Contact Person ____________________________
Address 1616 Kewalo St.
Honolulu 96822
Phone 536-4253

4. PROPOSED CONTRACTOR FOR: [ ] Well Drilling [ ] Pump Installation
Name Roscoe Moss
Address 830 Ahua St.
Honolulu 96819
Phone 839-6883
Contractor's License No. C2101

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

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

7. PROPOSED AMOUNT OF WITHDRAWAL 4000 gallons per day

8. PROPOSED PUMP INFORMATION
Pump Type: [ ] Vertical Turbine [ ] Submersible
[ ] Centrifugal
Motor: [ ] Diesel [ ] Gas [ ] Electric: One
Rated Pump Capacity 30 gallons per minute (gpm)

Well Owner (print) Ross Hiltbrand
Signature ____________________________
Date Jan. 31, 1990

Landowner (print) Ross Hiltbrand
Signature ____________________________
Date Jan. 31, 1990

For Official Use Only:
Field Checked By ____________________________
Latitude ____________________________
Hydrologic Unit ____________________________
State Well No. 3453-11

Latitude ____________________________
Longitude ____________________________

Date ____________________________
Briefly describe the proposed work:

**drill a well**

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PROPOSED SECTION OF WELL

Elevation at top of casing

20 ft., msl.

Ground Elev. ft., msl*

Cement Grout 20 ft.

Solid Casing:
Material STEEL
Length 20 ft.
Diameter 8 in.
Wall thickness 250 in.

Hole Dia. 12 in.

Total Depth 100 ft.

Rock Packing 80 ft.

Casing: /Perforated /Screen
Material SLOF
Length 40 ft.
Diameter 8 in.
Wall thickness 250 in.
Openings sq. in./L.F.

Open Hole: 
Length 
Diameter in.

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*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
To the order of DEPT OF LAND/NATL RES.

TENNY, FIVE $25.00 dollars

First Interstate Bank of Hawaii
Kailua Branch
50 Aikia Street
Kailua, HI 96734-2739

for HILTON

CAREY SMOOT 62-64-9884
CYNTHIA SMOOT 574-20-3338
254-3701
44-299 KANELOHE BAY DR.
KANELOHE, HI 96744

1/3/90