### Checklist

- Well Construction Permit
- Water Use Permit Required Also
- Pump Installation Permit

---

**Well Name & Number**
- Punalu'u Production Well Island Hawaii

**Applicant**
- ISF Development Co., Ltd.

**Landowner**
- some

**Consultant**

---

**Date application received**
- 3/22/93

- ✔ Date acknowledged receipt/request more info
- 5/28 more info

- ✔ Date filing fee deposited

---

**Application sent to following**

<table>
<thead>
<tr>
<th>Department/Group</th>
<th>Date sent</th>
<th>Comments received</th>
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<tr>
<td>Office of Hawaiian Affairs</td>
<td>5/8</td>
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<tr>
<td>Dept. of Hawaiian Home Lands</td>
<td></td>
<td></td>
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<tr>
<td>State Historic Preservation Div.</td>
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<tr>
<td>Sierra Club Legal Defense Fund</td>
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<tr>
<td>Honolulu Board of Water Supply</td>
<td></td>
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<tr>
<td>Maui Dept. of Water Supply</td>
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<td>Kauai Dept. of Water Supply</td>
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<td>Hawaii Dept. of Water Supply</td>
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<tr>
<td>Hawaii Dept. of Public Works</td>
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<tr>
<td>Koalauloa-NB #28 (Oahu)</td>
<td></td>
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<tr>
<td>Additional List (Melekai)</td>
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<tr>
<td>Eric Hirano/Lyann Mizuno</td>
<td></td>
<td></td>
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</tbody>
</table>

**Date agenda due**
- 5/5/93

**Date submittal due**
- 5/5/93

**Date submittal sent to applicant**

**Date application approved OR disapproved**
- 5/17/93

**Date applicant notified of decision**

---

**Remarks:**
- Send only #3 for review, Nos. 1 & 2 will be issued with it. Signatures only. 12 golf course conditions check/1st press.
CHECKLIST

Well Construction Permit __  Pump Installation Permit __  Water Use Permit Required Also

Punahou Production Well Island Hawaii

Well Name & Number

Applicant ISF Development Co., Ltd.

Landowner

Consultant

Date application received ........................................ 3/22/93

Date acknowledged receipt/request more info ........................................

Date filing fee deposited ........................................

Date application sent to following:

✓ Dept. of Health

Office of Hawaiian Affairs

Deept. of Hawaiian Home Lands

State Historic Preservation Div.

Sierra Club Legal Defense Fund

Honolulu Board of Water Supply

Maui Dept. of Water Supply

Kauai Dept. of Water Supply

Hawaii Dept. of Water Supply

Hawaii Dept. of Public Works

Koolau Lea NB #28 (Oahu)

Additional List (Melekai)

Eric Hirano / Lyann Mizuno

Date agenda due ........................................ 5/5/93

Date submittal due ........................................ 5/5/93

Date submittal sent to applicant ........................................

Date application approved OR disapproved ........................................ 5/19/93

Date applicant notified of decision ........................................

Remarks: Send only #3 for review. Nos. 1 & 2 will be issued with Chairman's signature only.
## WELL COMPLETION REPORT

In accordance with the regulations of the Commission on Water Resource Management, all completed reports must be submitted within 30 days after well completion. The completed report must include an as-built drawing and a groundwater analysis. For assistance, call the Commission's Regulation Branch at 587-0225.

1. **STATE WELL NO.** 4206-01
2. **WELL NAME** FONOHAWAI #3
3. **ISLAND** HAWAI'I
4. **LOCATION:** Address HILSA
5. **Tax Map Key** 2-3-44:09
6. **CONTRACTOR'S NAME** ROSCOE MOSS HAWAI'I, INC.
7. **CABLE TOOL** C-16437
8. **DATE OF WELL DRILLING COMPLETION** 11/93
9. **GROUND ELEVATION (msl)** 380 ft.
10. **DATE OF REPORT MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL COMPLETION.**

### DRILLER'S LOG:

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 45</td>
<td>BROWN ROCK BROKEN</td>
<td></td>
</tr>
<tr>
<td>65 to 103</td>
<td>GRAY ROCK HARD</td>
<td></td>
</tr>
<tr>
<td>103 to 115</td>
<td>GRAY ROCK</td>
<td></td>
</tr>
<tr>
<td>115 to 121</td>
<td>ROCK HARD</td>
<td></td>
</tr>
<tr>
<td>121 to 130</td>
<td>SANDY CLAY</td>
<td></td>
</tr>
</tbody>
</table>

If more space is needed, continue on back.

### TOTAL DEPTH OF WELL BELOW GROUND

11. **HOLE SIZE:** 18 inch dia. from 0 ft. to 400 ft. below ground

12. **CASING INSTALLED:**

- 375 in. I.D. x 12 in. wall solid section to 380 ft. below ground
- 1312 in. I.D. x 12 in. wall perforated section to 400 ft. below ground

Type of Perforation

13. **ANNULUS:**

Grouted from 0 ft. below ground to 370 ft. below ground
Gravel packed from 370 ft. below ground to 400 ft. below ground

14. **INITIAL WATER LEVEL** 137 ft. below ground. Date and time of measurement 10/24/93 7: A.M.

15. **INITIAL CHLORIDE** ppm Date and time of sampling

16. **INITIAL TEMPERATURE** °F Date and time of sampling

17. **DATE OF PUMP INSTALLATION**

18. **PUMP INSTALLATION:**

- Pump Type, Make, Serial No.
- Capacity gpm
- Motor type, H.P., Voltage, rpm
- Depth of Pump Intake Setting ft. below , which elevation is ft.
- Depth of bottom of airline ft. below , which elevation is ft.
- Pumping Head is ft.

19. **PUMPING TESTS:**

- Reference Point (R.P.) used: CASING , which elevation is 402 ft.

### PUMPING TESTS:

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/25/93</td>
<td>137 ft. below R.P.</td>
<td>137 ft. below R.P.</td>
<td>465 ft. below R.P.</td>
</tr>
</tbody>
</table>

### Remarks:

(If more space is needed, continue on back.)

Contractor (print) ROSCOE MOSS HAWAI'I, INC.
Title PRESIDENT
Signature

Date NOV. 06, 1993
REPORT OF ANALYTICAL RESULTS

SAMPLE TYPE: well water

DATE SAMPLED: 10/28/93

ANALYTE (UNITS) | Chloride (mg/L) | Analysis Date/ Analyst ID 
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SAMPLE ID 6</td>
<td>11/03/93 &amp; eh</td>
</tr>
</tbody>
</table>

| 1 | 1.5 |
| 2 | 1.5 |
| 3 | 1.0 |

J. Mello, Laboratory Director
Ponahawai Monitor Well #1 & #2
Well No. 4206-01M & 02M

Ponahawai Production Well #3
Well No. 4206-01
September 17, 1993

Mr. Hiroshi Suda, Project Manager
Obayashi Corporation
725 Kapiolani Boulevard, Fourth Floor
Honolulu, Hawaii 96813

Dear Mr. Suda:

SUBJECT: Well Construction Permit Application (Well No. 4206-01) --
Ponahawai Well No. 3
Ponahawai, South Hilo, Island of Hawaii
TMK: 2-3-44: 009

Thank you for submitting a map location for the subject well construction permit application. The map clearly shows that the well location is a considerable distance away from site 14947. Site 14947 is a historic period ditch that is significant under multiple criteria and has been recommended for preservation. Our office has accepted the preservation plan as a mitigation measure for the site in the proposed golf course development. No other significant historic sites were located in the vicinity of the well location. Hence, we believe that the subject application will have "no effect" on historic sites.

If you should require further assistance, please contact Kanalei Shun at 587-0007.

Sincerely,

DON HIBBARD, Administrator
State Historic Preservation Division

KS:amk

c: Rae M. Loui, DLNR/CRWM
TO: ISF Development Company, Ltd.
2600 Pauahi Tower
1001 Bishop Street
Honolulu, HI 96813

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 Ponahawai Well No. 3 (Well No. 4206-01), for golf course irrigation use, is approved subject to the following conditions:

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The applicant shall contact the State Historic Preservation Division (Telephone: 587-0007) before starting any work on the project. The applicant shall obtain a written statement from the State Historic Preservation Division indicating that their concerns have been addressed, and a copy of that statement shall be sent to the Commission before work is started on the project.

3. The permit shall be for construction and testing of the well only. The applicant shall coordinate with the Commission and conduct a pumping test in accordance with the protocol established by the Commission. A means to accurately measure water levels, acceptable to the Commission, shall also be provided. No permanent pump may be installed and no water withdrawn from the well without first obtaining a pump installation permit from the Commission.

4. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct a well shall not constitute a determination of correlative water rights.

5. The following shall be submitted to the Commission within 30 days after completion of the work:
   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. The permit application and staff submittal approved by the Commission at its meeting on July 28, 1993 shall be incorporated herein by reference.

8. The applicant shall contact Mr. Thomas Arizumi, Chief, Environmental Management Division, State Department of Health, at 586-4304, concerning "TWELVE (12) CONDITIONS APPLICABLE TO ALL NEW GOLF COURSE DEVELOPMENT" dated January, 1992 (version 4). The applicant shall obtain a written statement from the Department of Health indicating that their concerns have been addressed, and a copy of that statement shall be sent to the Commission.

9. The permit may be revoked if work is not started within six months of the date of approval or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within two years from the date of permit approval.

KEITH W. AHUE, Chairperson
Commission on Water Resource Management

JUL 28 1993
Date of Approval

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: __________________________ Date: ________________

Printed Name: KAZuo YATSUDA

Firm or Title: ISF Development Co. Ltd

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

c: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
State Historic Preservation Division
Hawaii Department of Water Supply
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

WELL CONSTRUCTION PERMIT

for

Ponahawai Well No. 3
Well No. 4206-01
South Hilo, Hawaii

TO: ISF Development Company, Ltd.
2600 Pauahi Tower
1001 Bishop Street
Honolulu, HI 96813

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 Ponahawai Well No. 3 (Well No. 4206-01), for golf course irrigation use, is approved subject to the following conditions:

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KEITH W. AHUE, Chairperson
Commission on Water Resource Management

JUL 28 1993
Date of Approval

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant’s Signature: ___________________________ Date: ___________

Printed Name: ___________________________________________________________________________

Firm or Title: ____________________________________________________________________________

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

enclosure

c: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
State Historic Preservation Division
Hawaii Department of Water Supply
Mr. Bruce C. McClure  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720  

Dear Mr. McClure:  

Well Construction and Pump Installation Permit Application  

Please review the following permit application pursuant to your area of concern and submit your comments to us by JUN 22 1993  

Island: Hawaii  
Well Name: Ponahawai Production Well #3  
Well No.: 4206-01  
Application Type: Well Construction  

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.  

Sincerely,  

RAE M. LOUI  
Deputy Director  

Response:  
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Contact Person: Ed Yoshida  
Phone: 961-8327  
Signed: Ed Yoshida  
Date: 6/10/93
TO	Ed

DATE	6/7/69	TIME	4:14

WHILE YOU WERE OUT

Bill Atkin

of Hilo Dept. of Water

Phone

<table>
<thead>
<tr>
<th>TELEPHONED</th>
<th>PLEASE CALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETURNED YOUR CALL</td>
<td></td>
</tr>
</tbody>
</table>

| CALLED TO SEE YOU | WILL CALL AGAIN |
| WANTS TO SEE YOU | URGENT |

Message
Production will No. 3 (4206-01)
S. Hilo

No comments.

Operator
FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages to:

Name: Bill Atkins
Company: Hawaii DWS
From: Ed Sakeha
Date: 6/7/93  Time: 8:14 am
Message: Panahawai Well application

Total number of pages (including Transmittal Page): 4

If you do not receive all of the pages legibly, please call back: (808) 587-0235

Sending Facsimile Number: (808) 587-0210
Receiving Facsimile Number: (967-6996)

TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE) WAS SENT

** COUNT **
# 4

*** SEND ***

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<th>START TIME</th>
<th>DURATION</th>
<th>#PAGES</th>
<th>COMMENT</th>
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<td>6-7-93</td>
<td>8:06AM</td>
<td>3'31&quot;</td>
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TOTAL 0:03'31" 4 XEROX TELECOPIER 7020
Ponahawai Monitor Well #1 & #2
Well No. 4206-01M & 02M

Ponahawai Production Well #3
Well No. 4206-01
9. PROPOSED WELL SECTION

Elevation at top of casing: 382 ft., mal.

Cement Grout: 370 ft.

Rock Packing: 30 ft.

Hole Diameter: 16 in.

Total Depth: 400 ft.

Ground Elevation: 380 ft., mal.

Solid Casing:
- Material: Steel
- Length: 380
- Diameter: 12
- Wall thickness: 0.312

Casing: □ Perforated □ Screen
- Material: Steel
- Length: 20
- Diameter: 12
- Wall thickness: 0.312
- Openings: 85.0 sq. in./L.F.

Open Hole:
- Length: None
- Diameter: 

Note: Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted.
APPLICATION FOR PERMIT

EX: Well Construction or □ Pump Installation

INSTRUCTIONS: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 521, Honolulu, Hawaii 96823. Application must be accompanied by a nonrefundable filing fee of $25.00 payable to the State of Hawaii. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   □ WELL OWNER
   Firm/Name: Von Development Co. Con.
   Contact Person: E. J. All.
   Address: 701 Pacific Ave., Ste. 110
   Honolulu, HI 96814

   □ LANDOWNER
   Firm/Name: Von Development Co. Con.
   Contact Person: E. J. All.
   Address: 701 Pacific Ave., Ste. 110
   Honolulu, HI 96814

   □ CONTRACTOR
   Firm/Name: ROSECO MOSS HAWAII, INC.
   Address: 259A Olai Street, Waipahu, Hawaii 96797

2. WELL LOCATION/NAME:
   Product Production Well #3
   Island: Hawaii
   Address: Tax Map Key 2-3-44-03
   (Attach a USGS map, scale 1" = 2000, and a property tax map showing well location referenced to established property boundaries)

3. (a) PROPOSED WORK:
   □ Drill New Well
   □ Alter Location
   □ Modify Existing Well
   □ Redrill
   □ Deepen
   □ Abandon/Seal
   □ Install New Pump
   □ Replace Pump
   □ Modify Pump
   □ Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   □ Dug
   □ Bored
   □ Driven
   □ Drilled
   □ Radial
   Is this well a part of a battery of wells? □ Yes □ No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   □ Rated Pump Capacity: ___ gallons per minute
   □ Pump Type:
     □ Submersible
     □ Centrifugal
     □ Deep Well Turbine
     □ Rotary
     □ Rotary-Displacement
     □ Propeller
     □ Radial
     □ Impulse
     □ Motor:
     □ Electric, other horsepower of:
     □ Diesel
     □ Gas
     □ Other (exp)

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.)
   □ Domestic (individual, noncommercial water use)
   □ Irrigation (crop)
   □ Golf Course
   □ State Land Use District
   □ Urban
   □ Agriculture
   □ Rural
   □ Conservation
   (County Zoning (describe))
   (If more space is needed, continue below under remarks, explanations)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 1,000.000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
     □ Flow-meter
     □ Open-pipe
     □ Orifice Plate
     □ Weir

7. PENDING ACTIONS:
   □ CODA
   □ SMA
   □ BIS
   □ EA
   □ NONE
   □ Other (explain)

8. REMARKS, EXPLANATIONS:
   Well will be test pumped at 700 GPM. Well for irrigation of Papahana Country Club Golf Course.
   (If more space is needed, continue on back)

NOTE: Signing below indicates that the applicant understands that the permit required is granted by the Commission on Water Resource Management, the proposed work is to be completed within 60 days of the approved date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 60 days after completion date of the permitted work. The applicant is also required to submit monthly water use data within 10 days of the end of each month.

Well Owner: Von Development Co. Con.
Signature:
Date:
Landowner: Von Development Co. Con.
Signature:
Date:
Contractor: ROSECO MOSS HAWAII, INC.
Signature:
Date:

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

DEPARTMENT OF LAND AND NATURAL RESOURCES
Mr. Kazuo Yatsuda  
ISF Development Co., Ltd.  
2600 Pauahi Tower  
1001 Bishop Street  
Honolulu, HI 96813  

Dear Mr. Yatsuda:

We have received your application and filing fee for a permit to construct Ponahawai Production Well #3 (Well No. 4206-01) at South Hilo, Hawaii, (TMK 2-3-44:09). Please indicate the State Land Use District and County Zoning (Item 5) and whether or not there are any pending actions (Item 7).

Should you have questions, please call Ed Sakoda at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

State Land Use: Ag  
County: Ag1 Open  
No pending actions  
Telcon w/ Runnels 6/9/93
MEMORANDUM

TO: Don Hibbard, Director
   Historic Preservation Program

FROM: Rae M. Loui, Deputy for Water Resource Management

SUBJECT: Well Construction & Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by JUN 22 1993.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii</td>
<td>Ponahawai Production Well #3</td>
<td>4206-01</td>
<td>Well Construction</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ____________________________ Phone: ________________

Signed: ____________________________ Date: ____________________
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by JUN 22 1993.

Island  Well Name  Well No.  Application Type
Hawaii  Ponahawai Production Well #3  4206-01  Well Construction

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ____________________________  Phone: __________

Signed: ____________________________  Date: __________
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Ms. Marjorie Ziegler
Sierra Club Legal Defense Fund, Inc.
212 Merchant Street, Room 202
Honolulu, Hawaii 96813

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

Mr. Bruce C. McClure
Chief Engineer
Department of Public Works
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720
MEMORANDUM

TO: Honorable Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

   Mr. Clayton H.W. Hee, Chairman & Trustee At Large
   Office of Hawaiian Affairs

FROM: Keith W. Ahue, Chairperson

SUBJECT: Well Construction & Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by June 22, 1993.

<table>
<thead>
<tr>
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<tr>
<td>Hawaii</td>
<td>Ponahawai Production Well #3</td>
<td>4206-01</td>
<td>Well Construction</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ________________

Signed: ___________________________ Date: ________________
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: F&D Development Corp.
   Contact Person: 等
   Address: 等
   (b) LANDOWNER
   Firm/Name: LE Development Co.
   Contact Person: 等
   Address: 等
   (c) CONTRACTOR
   Firm/Name: ROSEMOSS HAWAII, INC.
   Address: 等

2. WELL LOCATION/NAME: 等
   Address: 等
   Tax Map Key: 2-3-44:09

3. (a) PROPOSED WORK: 等
   Drill New Well
   Modify Existing Well
   Install New Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:
   Dug
   Bored
   Driven
   Drilled
   Radial
   Is this well a part of a battery of wells? 等
   Yes
   No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 等
   Pump Type:
   Deep Well Turbine
   Submersible
   Rotary
   Rotary-Displacement
   Impulse
   Motor:
   Propeller
   Gas
   Diesel
   Electric, rated horsepower of

5. PROPOSED USE:
   Municipal (including hotels, stores, etc.)
   Domestic (individual, noncommercial water system)
   Irrigation (crop)
   Golf Course
   State Land Use District:
   Urban
   Agriculture
   Rural
   Conservation
   Other (explain)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 等
gallons per day
(b) METHOD OF FLOW MEASUREMENT:
   Flow-meter
   Open-pipe
   Orifice Plate
   Weir

7. PENDING ACTIONS:
   CDUA
   SMA
   EIS
   EA
   NONE
   Other (explain)

8. REMARKS, EXPLANATIONS:
   Pump will be test pumped at 700 GPM. Well for irrigation of Pūpūlū Hill Golf Course.

(If more space is needed, continue below under remarks, explanations.)

DIRECTIONS: Please print in ink or type and send completed application with attachments to the Commission on Water Resources Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the State of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-522-0233.
9. PROPOSED WELL SECTION

Elevation at top of casing: 382 ft, msl.

Ground Elevation: 380 ft, msl*

Cement Grout: 370 ft.

Rock Packing: 30 ft.

Hole Diameter: 16 in.

Total Depth: 400 ft.

Solid Casing:
- Material: Steel
- Length: 380 ft.
- Diameter: 12 in.
- Wall thickness: 3 1/2 in.

Casing:
- Perforated: No
- Screen: Yes
- Material: Steel
- Length: 20 ft.
- Diameter: 12 in.
- Wall thickness: 3 1/2 in.
- Openings: 85.0 sq. in./LF.

Open Hole:
- Length: None
- Diameter: None

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filed in)
   (a) WELL OWNER
      Firm/Name: LSF Development Co.
      Contact Person: John E. Jurkiewicz
      Address: 68 Wooster Street, New York, NY 10013
   (b) LANDOWNER
      Firm/Name: LSF Development Co.
      Contact Person: John E. Jurkiewicz
      Address: 68 Wooster Street, New York, NY 10013
   (c) CONTRACTOR
      Firm/Name: ROSSO MOSS HAWAI, INC.
      Contact Person: Charles J. Tamburri
      Address: 71-259A Olia Street, Waia Beach, Hawaii 96707

2. WELL LOCATION/NAME: Ponoa Hawai Production Well #3
   Island: Hawaii
   Tax Map Key: 2-3-44-09
   (Attach a U.S.G.S. map, scale 1" = 2000, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK: [ ] Drill new well [ ] Alter location
      [ ] Modify existing well [ ] Redrill
      [ ] Install new pump [ ] Replace pump
      [ ] Modify pump
      [ ] Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
      [ ] Dug
      [ ] Bored
      [ ] Driven
      [ ] Drilled
      [ ] Radial
      Is this well a part of a battery of wells? [ ] Yes [ ] No
      (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Pump Type:
      [ ] Deep Well Turbine
      [ ] Submersible
      [ ] Centrifugal
   [ ] Rotary
   [ ] Rotary-Displacement
   [ ] Rotary-Gear
   [ ] Impulse
   [ ] Propeller
   Motor:
      [ ] Diesel
      [ ] Gas
      [ ] Electric, rated horsepower of

5. PROPOSED USE:
   [ ] Municipal (including hotels, stores, etc.)
   [ ] Domestic (individual, noncommercial water systems)
   [ ] Irrigation (crop)
   [ ] Golf Course
   [ ] State Land Use District
   [ ] Urban
   [ ] Agriculture
   [ ] Rural
   [ ] Conservation
   [ ] Other (explain)
   (If more space is needed, continue below remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 1,000.00 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
      [ ] Flow-meter
      [ ] Open-pipe
      [ ] Orifice plate
      [ ] Weir

7. PENDING ACTIONS:
   [ ] CDUA
   [ ] SMA
   [ ] EIS
   [ ] EA
   [ ] NONE
   [ ] Other (explain)
   (If more space is needed, continue on back)

8. REMARKS, EXPLANATIONS:
   Well will be test pumped at 700 GPM. Well for irrigation of Ponoa Hawai Country Club Golf Course.

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be complete within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit shall not constitute a determination of corrective water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

ROSSO MOSS HAWAI, INC.

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

Location

Aquifer System Name

State Well No.

82442 WCR Fe
9. PROPOSED WELL SECTION

- Elevation at top of casing: 382 ft., mad.
- Current Grout: 370 ft.
- Rock Packing: 30 ft.
- Hole Diameter: 16 in.
- Total Depth: 400 ft.

- Solid Casing:
  - Material: Steel
  - Length: 380 ft.
  - Diameter: 12 in.
  - Wall thickness: 0.312 in.

- Casing: Perforated Screen
  - Material: Steel
  - Length: 20 ft.
  - Diameter: 12 in.
  - Wall thickness: 0.312 in.
  - Openings: 85.0 sq. in./L.F.

- Open Hole:
  - Length: None
  - Diameter: None

*Approximate elevation at time of filing application. Ground elevation above mean sea level (masl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
March 22, 1993

Pay to the Order of Dept of Land and Nat Res. $75.00

American Savings Bank

Lorän H. Runnells

Moanalua Branch
2850 Pukoia Street
Honolulu, Hawaii 96818