STATE OF HAWAII
DEPARTMENT OF LAND & NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT
DRILLER'S REPORT

DESCRIPTION

Date of report: July 29, 1987
Person filing report: Loran H. Rennells

A. OWNER: Westin Kauai
B. GENERAL LOCATION: Westin Kauai Hotel
C. DRILLING COMPANY: Roscoe Moss Company
D. TYPE OF RIG: 28L
E. ELEVATION, msl: Top of drilling platform: 125 ft.
Height of drilling platform above ground surface: ...
F. HOLE SIZE: 16 inch dia. to 185 ft. below drilling platform.
12 inch dia. to 375 ft. below drilling platform.
12 inch dia. to 180 ft. below drilling platform.
G. CASING INSTALLED: 12 in. I.D. x 312 in. wall solid section to 125 ft. below drilling platform.
12 in. I.D. x 312 in. wall perforated section to 180 ft. below drilling platform.
H. ANNULUS: Grouted 0 ft. to 40 ft. below drilling platform.
Gravel packed ....... ft. to ....... ft. below drilling platform.

HYDROLOGY

J. INITIAL WATER LEVEL: ft. below drilling platform. Date of measurement.
K. INITIAL CHLORIDE: ppm, total depth of well. ft. below drilling platform. Sampling Date

L. PUMPING TESTS:

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
<th>Rate (gpm)</th>
<th>Draw-down (ft.)</th>
<th>Temp. (°F)</th>
<th>Elapsed Time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/20/87</td>
<td>100</td>
<td>9.24</td>
<td>345</td>
<td>100</td>
<td>9.24</td>
<td>12:00</td>
<td>10:00 to 10:00pm</td>
</tr>
<tr>
<td>6/30/87</td>
<td>150</td>
<td>16.17</td>
<td>375</td>
<td>100</td>
<td>16.17</td>
<td>12:00</td>
<td>10:00 to 12:00</td>
</tr>
<tr>
<td></td>
<td>200</td>
<td>28.88</td>
<td></td>
<td>12:00</td>
<td>28.88</td>
<td></td>
<td>12:00 to 4:00</td>
</tr>
<tr>
<td></td>
<td>250</td>
<td>43.99</td>
<td></td>
<td>4:00</td>
<td>43.99</td>
<td></td>
<td>4:00 to 10:00</td>
</tr>
</tbody>
</table>

SUBSURFACE FORMATION

M. DRILLER'S LOG:

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
<th>Depth (ft.)</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 50</td>
<td>Soft red clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 to 175</td>
<td>Soft w/ hard streaks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>175 to 300</td>
<td>Med hard w/ soft streak</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 to 325</td>
<td>Gravel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>325 to 329</td>
<td>Cinders</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>329 to 345</td>
<td>Med hard rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>345 to 347</td>
<td>Firm grey rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>347 to 350</td>
<td>Mud rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>350 to 365</td>
<td>Hard blue rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>365 to 375</td>
<td>Soft rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

N. REMARKS:

FOR DRILLER'S USE

Job Name
Job No.

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.


FOR OFFICIAL USE

Latitude 21° 58' 28"
Longitude 159° 21' 03"
Wall No. 5821-04

Note: The image contains a table and other details that are not fully captured in the text. The table includes various measurements and descriptions relevant to the drilling process.
Date: \textbf{Jan 2, 1988}

Manabu Tagomori
Manager Chief Engineer
Dept. of Water and Land Development
P. O. Box 373
Honolulu, HI 96809

Dear Sir:

Pumpage at the Westin Kauai Phase III wells for the month of \textbf{December} is as follows:

<table>
<thead>
<tr>
<th>HD&amp;CC WELL #</th>
<th>WELL I.D. #</th>
<th>QUANTITY IN MILLION GALLONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5821-03</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>5821-04</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>5820-01</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>5821-05</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5821-06</td>
<td>0</td>
</tr>
</tbody>
</table>

Please feel free to contact us if you have any questions on the above.

\textbf{Very Truly Yours,}

\textbf{Mike French}
Project Manager

\textbf{KMF/js}

\textbf{COPY}
\textbf{AIKE DUGGAN}
Date: October 30, 1987

Manabu Tagomori  
Manager Chief Engineer  
Dept. of Water and Land Development  
P. O. Box 373  
Honolulu, HI  96809  

Dear Sir:

Pumpage at the Westin Kauai Phase III wells for the month of October is as follows:

<table>
<thead>
<tr>
<th>HD&amp;CC WELL #</th>
<th>WELL I.D. #</th>
<th>QUANTITY IN MILLION GALLONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5821-03</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>5821-04</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>5820-01</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>5821-05</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5821-06</td>
<td>0</td>
</tr>
</tbody>
</table>

Please feel free to contact us if you have any questions on the above.

Very Truly Yours,

Mike French  
Project Manager

KMF/js
Date: October 2, 1987

Manabu Tagomori  
Manager Chief Engineer  
Dept. of Water and Land Development  
P.O. Box 373  
Honolulu, HI 96809  

Dear Sir:

Pumpage at the Westin Kauai Phase III wells for the month of September 1987 is as follows:

<table>
<thead>
<tr>
<th>HD&amp;CC WELL #</th>
<th>WELL I.D. #</th>
<th>QUANTITY IN MILLION GALLONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5821-03</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>5821-04</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>5820-01</td>
<td>2.8</td>
</tr>
<tr>
<td>4</td>
<td>5821-05</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5821-06</td>
<td>0</td>
</tr>
</tbody>
</table>

Please feel free to contact us if you have any questions on the above.

Very Truly Yours,

Mike French  
Project Manager

KMF/vao  

cc: Rick Duggan
Date: October 2, 1987

Manabu Tagomori
Manager Chief Engineer
Dept. of Water and Land Development
P.O. Box 373
Honolulu, HI 96809

Dear Sir:

Pumpage at the Westin Kauai Phase III wells for the month of August 1987 is as follows:

<table>
<thead>
<tr>
<th>HD&amp;CC WELL #</th>
<th>WELL I.D. #</th>
<th>QUANTITY IN MILLION GALLONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5821-03</td>
<td>4.6</td>
</tr>
<tr>
<td>2</td>
<td>5821-04</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>5820-01</td>
<td>6.0</td>
</tr>
<tr>
<td>4</td>
<td>5821-05</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5821-06</td>
<td>0</td>
</tr>
</tbody>
</table>

Please feel free to contact us if you have any questions on the above.

Very Truly Yours,

Mike French
Project Manager

KMF/vao

cc: Rick Duggan
August 19, 1987

Hawaiian Dredging & Construction Company
The Westin Kauai
Box 4088
Honolulu, Hawaii 96812-4088

Attention: Mr. Mike French, Project Manager

Gentlemen:

Thank you for sending the July 1987 pumpage data for the HD&CC wells at the Westin Kauai Phase III. We appreciate your cooperation.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer
Date: **AUG 1, 1987**

Manabu Tagomori  
Manager Chief Engineer  
Dept. of Water and Land Development  
P. O. Box 373  
Honolulu, HI 96809

Dear Sir:

Pumpage at the Westin Kauai Phase III wells for the month of **July** is as follows:

<table>
<thead>
<tr>
<th>HD&amp;CC WELL #</th>
<th>WELL I.D. #</th>
<th>QUANTITY IN MILLION GALLONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5821-03</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5821-04</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5820-01</td>
<td>15.6</td>
</tr>
<tr>
<td>4</td>
<td>5821-05</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>5821-06</td>
<td></td>
</tr>
</tbody>
</table>

Please feel free to contact us if you have any questions on the above.

Very Truly Yours,

[Signature]

Mike French  
Project Manager

KMF/js  
08-03-05
Date: **AUG 1, 1987**

Manabu Tagomori  
Manager Chief Engineer  
Dept. of Water and Land Development  
P. O. Box 373  
Honolulu, HI  96809

Dear Sir:

Pumpage at the Westin Kauai Phase III wells for the month of July is as follows:

<table>
<thead>
<tr>
<th>HD&amp;CC WELL #</th>
<th>WELL I.D. #</th>
<th>QUANTITY IN MILLION GALLONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5821-03</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>5821-04</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>5820-01</td>
<td>35.6</td>
</tr>
<tr>
<td>4</td>
<td>5821-05</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5821-06</td>
<td>0</td>
</tr>
</tbody>
</table>

Please feel free to contact us if you have any questions on the above.

Very Truly Yours,

Mike French  
Project Manager

KMF/js  
08-03-05
Mr. Clyde Murashige  
President and COO  
Kauai Lagoons Resort Company, Ltd.  
3351 Hoolaulea Way  
Lihue, HI 96766  

Dear Mr. Murashige:

Change of Ownership and Registration for Wells  
5820-01, 5821-03, 5823-04, 5821-05 and 5821-06

This is in response to your letter dated September 25, 2003, informing us of a transfer of ownership and registration of well operations from Kauai Lagoons Resort Co., Ltd. to Kauai Golf LLC for wells listed above. We have received at least ten years of well pumpage records from Kauai Lagoons, but have not been able to locate documentation officially transferring the well registration and well operator files from Westin Hotels to Kauai Lagoons Resort Co., Ltd.

Please send us documentation that confirms the original transfer and provide us with a contact name and address to direct our correspondence to the new owners.

Thank you for your assistance in this matter.

Sincerely,

ERNEST Y. W. LAU  
Deputy Director

SKS:fc
FOR DRILLER'S USE

Job Name: ........................................
Job No.: ........................................

FOR OFFICIAL USE

Latitude 21° 58' 28"
Longitude 159° 21' 03"
Well No. 5821·04

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.

WELL DRILLING PERMIT
for
Kauai Lagoons Well No. 5
State Well No. 5821-06
Nawiliwili, Kauai

TO: Hemmeter Development Co.
2255 Kuhio Avenue, 21st floor
Honolulu, Hawaii 96815

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill a golf course irrigation and lake evaporation loss replacement well, State Well No. 5821-06, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, within 60 days after completion of the well.
2. Monthly reports of pumpage shall be submitted after the well is put into production.
3. An "as-built" drawing of the well and a map showing the exact location of the well shall be submitted upon completion of the well.
4. The applicant shall comply with all applicable laws, rules, and ordinances.

APR 16 1937

Date of Issuance

Enc. (Driller's Report Form)
cc: USGS
    Dept. of Health,
    Drinking Water Program
    Kauai Dept. of Water
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES

APPLICATION FOR (check one)
☒WELL DRILLING PERMIT ☐WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P. O. Box 373, Honolulu, Hawaii 96809.
Reference: Regulation 9, Dept. of Land & Natural Resources.

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

1. WELL LOCATION: Island: Kauai Tax Map Key: Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER: HEMETER DEVELOPMENT Co. Telephone 922-5522
Address: 2255 Kuhio Ave 21st Floor Honolulu Zip Code: 96815

3. PROPOSED DRILLING COMPANY: ROSCOE MOSS COMPANY

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

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):
Drill 12" dia. well to casing depth install casing. Drill required open hole below casing. Install test pump and develop and test the well.

PROPOSED SECTION OF WELL

- Elevation at top of casing: 127 ft., msl
- Ground Elevation: 125 ft., msl
- Solid casing: Material - steel
  - Length: 127 ft.
  - Diameter: 8 in.
  - Wall thickness: .250 in.
- Casing: [☐] Perforated [☐] Screen
  - Material - Steel
  - Length: 60 ft.
  - Diameter: 8 in.
  - Wall thickness: .250 in.
  - Openings: 29 sq. in./L.F.
- Open Hole:
  - Length: 25 ft.
  - Diameter: 8 in.

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

5. PROPOSED USE: [☐] Municipal [☐] Military [☐] Agriculture [☐] Industrial [☐] Domestic [☐] Disposal [☐] Other (specify) [☐] Lake Evaporation Loss

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

7. PROPOSED PUMP OR FLOW CAPACITY: 120 gpm gallons per minute

Hemmeter Development Co.

Signature: By: __________________________ Date: 2/11/87

Water User

For Official Use:
State Well No. 5821-06-05
DLNR Permit No. __________________

DLNR Application No. __________________

Approved as to Form:
The Lihue Plantation Company, Limited

Signature: By: __________________________ Date: __________________________

Landowner of Well Site
WILLIAM W. PATY, CHAIRMAN

BOARD OF LAND & NATURAL RESOURCES

LIBERT K. LANDGRAF
DEPUTY TO THE CHAIRMAN

WELL DRILLING PERMIT

for

Kauai Lagoons Well No. 4

State Well No. 5821-05

Nawiliwili, Kauai

TO: Hemmeter Development Co.
2255 Kuhio Avenue, 21st floor
Honolulu, Hawaii 96815

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill a golf course irrigation and lake evaporation loss replacement well, State Well No. 5821-05, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, within 60 days after completion of the well.

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

3. An "as-built" drawing of the well and a map showing the exact location of the well shall be submitted upon completion of the well.

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

APR 16 1987
Date of Issuance

WILLIAM W. PATY
Chairperson of the Board

Enc. (Driller's Report Form)
cc: USGS
Dept. of Health,
Drinking Water Program
Kauai Dept. of Water
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES

APPLICATION FOR (check one)
☑ WELL DRILLING PERMIT
☐ WELL MODIFICATION PERMIT

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

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

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

1. WELL LOCATION: Island _Kauai_ Tax Map Key _Attach a plot plan showing well location referenced to established property boundaries._

2. WATER USER _HEMMETER DEVELOPMENT CO._ Telephone 922-5522
Address 2255 Kuhio Ave 21st Floor Honolulu Zip Code 96815

3. PROPOSED DRILLING COMPANY: _ROSCOE MOSS COMPANY_

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

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

Drill 12" dia. well to casing depth install casing. Drill required open hole below casing. Install test pump and develop and test the well.

PROPOSED SECTION OF WELL

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>Ground Elev. 125 ft., msl*</th>
</tr>
</thead>
<tbody>
<tr>
<td>127 ft., msl</td>
<td>Solid casing:</td>
</tr>
<tr>
<td></td>
<td>Material Steel</td>
</tr>
<tr>
<td></td>
<td>Length 127 ft.</td>
</tr>
<tr>
<td></td>
<td>Diameter 8 in.</td>
</tr>
<tr>
<td></td>
<td>Wall thickness 250 m.</td>
</tr>
<tr>
<td></td>
<td>Casing: ☑ Perforated ☐ Screen</td>
</tr>
<tr>
<td></td>
<td>Material Steel</td>
</tr>
<tr>
<td></td>
<td>Length 50 ft.</td>
</tr>
<tr>
<td></td>
<td>Diameter 8 in.</td>
</tr>
<tr>
<td></td>
<td>Wall thickness 750 m.</td>
</tr>
<tr>
<td></td>
<td>Openings 29 sq.in./L.F.</td>
</tr>
<tr>
<td></td>
<td>Open Hole:</td>
</tr>
<tr>
<td></td>
<td>Length 25 ft.</td>
</tr>
<tr>
<td></td>
<td>Diameter 8 in.</td>
</tr>
</tbody>
</table>

5. PROPOSED USE: ☑ Municipal ☐ Military ☑ Agriculture ☇ Industrial ☐ Domestic ☐ Disposal ☐ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.
☐ Daily __________ gallons ☐ Monthly __________ gallons ☐ Yearly __________ gallons

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

Hemmeter Development Co.

Signature: _[Signature by Water User]_ Date: 11/12/78

Water User
The Lihue Plantation Company, Limited

Signature: _[Signature by Landowner of Well Site]_ Date: _[Date]_

For Official Use:
State Well No. 3821-05 (#4)
DLNR Permit No.
DLNR Application No.
WELL DRILLING PERMIT
for
Kauai Lagoons Well No. 2
State Well No. 5821-04
Nawiliwili, Kauai

TO: Hemmeter Development Co.
2255 Kuhio Avenue, 21st floor
Honolulu, Hawaii 96815

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill a golf course irrigation well, State Well No. 5821-04, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, within 60 days after completion of the well.
2. Monthly reports of pumpage shall be submitted after the well is put into production.
3. An "as-built" drawing of the well and a map showing the exact location of the well shall be submitted upon completion of the well.
4. The applicant shall comply with all applicable laws, rules, and ordinances.

APR 16 1987
Date of Issuance

WILLIAM W. PATY
Chairperson of the Board

CC:
USGS
Dept. of Health,
Drinking Water Program
Kauai Dept. of Water
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES

APPLICATION FOR (check one)
☐ WELL DRILLING PERMIT  ☐ WELL MODIFICATION PERMIT

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

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

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

1. WELL LOCATION: Island: Kauai Tax Map Key: Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER: HEMMETER DEVELOPMENT CO.
   Telephone: 922-5522
   Address: 2255 Kuhio Ave, 21st Floor, Honolulu, HI 96815

3. PROPOSED DRILLING COMPANY: ROSCOE MOSS COMPANY

4. PROPOSED WORK: ☐ Drill new well ☐ Deepen ☐ Redrill ☐ Alter ☐ Seal ☐ Install new pump ☐ Replace pump ☐ Modify pump
   Fill in the diagram and briefly describe the proposed work (use back of form if necessary):
   Drill 16" dia. well to casing depth install 12" dia. casing. Drill required open hole below casing. Install test pump to develop and test the well.

PROPOSED SECTION OF WELL

<table>
<thead>
<tr>
<th>Elevation at top of casing: 127 ft., msl</th>
<th>Ground Elev.: 125 ft., msl</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Grout: 40 ft.</td>
<td>Solid casing: Steel</td>
</tr>
<tr>
<td>Hole Dia.: 16 in.</td>
<td>Length: 125 ft.</td>
</tr>
<tr>
<td>Total Depth: 210 ft.</td>
<td>Diameter: 12 in.</td>
</tr>
<tr>
<td>Rock Packing: 0 ft.</td>
<td>Wall thickness: 3.12 in.</td>
</tr>
</tbody>
</table>

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

5. PROPOSED USE: ☐ Municipal ☐ Industrial  ☐ Agriculture ☐ Military ☐ Domestic ☐ Disposal ☐ Other (specify) ☐ Golf Course

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.
   ☐ Daily 500 gallons ☐ Monthly 20,000 gallons ☐ Yearly 365,000 gallons

7. PROPOSED PUMP OR FLOW CAPACITY: 850 GPM gallons per minute

Signature: By: [Signature]
Date: 2/11/87

For Official Use:
State Well No. 5321-04(#2)
DLNR Permit No.
DLNR Application No.
WELL DRILLING PERMIT

for

Kauai Lagoons Well No. 1
State Well No. 5821-03
Nawiliwili, Kauai

TO: Hemmeter Development Co.
2255 Kuhio Avenue, 21st floor
Honolulu, Hawaii 96815

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill a golf course irrigation well, State Well No. 5821-03, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, within 60 days after completion of the well.

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

3. An "as-built" drawing of the well and a map showing the exact location of the well shall be submitted upon completion of the well.

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

Date of Issuance

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

WILLIAM W. PATY
Chairperson of the Board
APPLICATION FOR
(check one)
☐ WELL DRILLING PERMIT  ☐ WELL MODIFICATION PERMIT

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

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

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

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

1. WELL LOCATION: Island Kauai Tax Map Key Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER: HEMETER DEVELOPMENT CO. Telephone 922-5522
Address 2255 Kuhio Ave. 21st Floor Honolulu, HI Zip Code 96815

3. PROPOSED DRILLING COMPANY: ROSCOE MOSS COMPANY

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

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

Drill 16" dia. well to casing depth install 12" dia. casing. Drill required open hole below casing. Install test pump to develop and test the well.

PROPOSED SECTION OF WELL

<table>
<thead>
<tr>
<th>Material</th>
<th>Length</th>
<th>Diameter</th>
<th>Wall thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid casing</td>
<td>125 ft.</td>
<td>12 in.</td>
<td>3 2/12 in.</td>
</tr>
<tr>
<td>Casing</td>
<td>60 ft.</td>
<td>12 in.</td>
<td>3 1/12 in.</td>
</tr>
</tbody>
</table>

Open Hole:
- Length 25 ft.
- Diameter 11 in.

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

5. PROPOSED USE: ☐ Municipal ☐ Military ☐ Agriculture ☐ Industrial
☐ Domestic ☐ Disposal ☐ Other (specify) Golf Course

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.
☐ Daily gallons ☐ Monthly gallons ☐ Yearly 365 gallons

7. PROPOSED PUMP OR FLOW CAPACITY: 850 GPM gallons per minute

For Official Use:
State Well No. 5821-03(1)
DLNR Permit No. 
DLNR Application No. 