**DEPARTMENT OF LAND & NATURAL RESOURCES**  
**DIVISION OF WATER AND LAND DEVELOPMENT**

**DRILLER'S REPORT**

**DESCRIPTION**

**Date of report:** July 29, 1987  
**Person filing report:** Lorin H. Brennells

<table>
<thead>
<tr>
<th>A. OWNER</th>
<th>Well Name</th>
<th>Well No.</th>
<th>ISLAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Westin Kauai</td>
<td>Well #2</td>
<td></td>
<td>Kauai</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. GENERAL LOCATION</th>
<th>DRILLING COMPANY</th>
<th>DIV. OF WATER &amp; LAND DEVELOPMENT</th>
<th>DRILLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Westin Kauai Hotel</td>
<td>Roscoe Moss Company</td>
<td></td>
<td>D. McAllister</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. DRILLING COMPANY</th>
<th>DIV. OF WATER &amp; LAND DEVELOPMENT</th>
<th>DRILLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roscoe Moss Company</td>
<td></td>
<td>D. McAllister</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. TYPE OF RIG</th>
<th>DRILLING COMPLETED</th>
<th>DATE OF REPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>28L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**E. ELEVATION, msl:** Top of drilling platform 125 ft.  
Height of drilling platform above ground surface  

**F. HOLE SIZE:**  
- 16 in. dia. to 185 ft. below drilling platform.  
- 12 in. dia. to 375 ft. below drilling platform.  
- 12 in. dia. to 50 ft. below drilling platform.

**G. CASING INSTALLED:**  
- 12 in. dia. to 312 in. wall solid section to 125 ft. below drilling platform.  
- 12 in. dia. to 312 in. wall perforated section to 180 ft. below drilling platform.

**H. ANNULUS:** Grouted 0 ft. to 40 ft. below drilling platform.  
Gravel packed 0 ft. to 40 ft. below drilling platform.

**I. PERMANENT PUMP INSTALLATION:**

- Pump type, make, serial no.  
- Motor type, H.P., voltage, r.p.m.  
- Depth of pump intake setting ft. below  
- Depth of bottom of airline ft. below which elevation is ft.

**HYDROLOGY**

**J. INITIAL WATER LEVEL** ft. below drilling platform. Date of measurement.

**K. INITIAL CHLORIDE:** ppm, total depth of well ft. below drilling platform.

<table>
<thead>
<tr>
<th>L. PUMPING TESTS:</th>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Draw-down (ft.)</th>
<th>Cl- (ppm)</th>
<th>Temp. (F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference point (R.P.)</td>
<td>6/30/87</td>
<td>345 ft. below R. P.</td>
<td>375 ft. below R. P.</td>
<td>100 ft. below R. P.</td>
<td>10:00</td>
<td>4.39</td>
<td>28.88</td>
<td>50.00</td>
<td>78.00</td>
</tr>
<tr>
<td>Date</td>
<td>12:00</td>
<td>10:00</td>
<td>4.00</td>
<td>500</td>
<td>28.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**M. DRILLER'S LOG:**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 50</td>
<td>Soft red clay</td>
<td></td>
<td>150 to 200</td>
<td>Soft w/ hard streaks</td>
<td></td>
</tr>
<tr>
<td>200 to 250</td>
<td>Med hard w/ soft streaks</td>
<td></td>
<td>250 to 300</td>
<td>Med hard rock</td>
<td></td>
</tr>
<tr>
<td>300 to 325</td>
<td>Gravel</td>
<td></td>
<td>325 to 345</td>
<td>Hard blue rock</td>
<td></td>
</tr>
<tr>
<td>345 to 350</td>
<td>Firm grey rock</td>
<td></td>
<td>345 to 350</td>
<td>Soft rock</td>
<td></td>
</tr>
<tr>
<td>350 to 365</td>
<td></td>
<td></td>
<td>365 to 375</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**N. REMARKS:**

**FOR DRILLER'S USE**

**FOR OFFICIAL USE**

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


**Latitude:** 21° 38' 28"  
**Longitude:** 159° 21' 03"
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 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.

Very Truly Yours,

Mike French  
Project Manager

KMF/js  
COPY  
AICK DUDDIN

A Dillingham Company  
Box 4088 Honolulu HI 96812-4088  
Cable BARDREDGE  
Telex ITT (743)1880  
Telephone (808) 735-3211
Hawaiian Dredging & Construction Company
The Westin Kauai

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></td>
</tr>
<tr>
<td>2</td>
<td>5821-04</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5820-01</td>
<td></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,

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
Hawaiian Dredging & Construction Company
The Westin Kauai

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,

[Signature]
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

ES:ko
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,

Mike French  
Project Manager

KMF/js

08-03-05
Manabu Tagomori  
Manager Chief Engineer  
Dept. of Water and Land Development  
P. O. Box 373  
Honolulu, HI  96809

Date:  AUG 1, 1987

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,

Mike French  
Project Manager

KMF/js  
08-03-05
October 10, 2003

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

A. OWNER: Westin Kauai
WELL NAME: Well #2
ISLAND: 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. Bench mark and method used to determine height of drilling platform above ground surface:

F. HOLE SIZE: 16 inch dia. to 185 ft. below drilling platform.

G. CASING INSTALLED: 12 in. I.D. x 312 in. wall solid section to 125 ft. below drilling platform.

H. ANNULUS: Grouted: 0 ft. to 40 ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no. Capacity: g.p.m.
- Motor type, H.P., voltage, r.p.m.
- Depth of pump intake setting ft. below which elevation is ft.
- Depth of bottom of airline ft. below which elevation is ft.

J. INITIAL WATER LEVEL: ft. below drilling platform. Date of measurement:

K. INITIAL CHLORIDE: ppm, total depth of well ft. below drilling platform:

L. PUMPING TESTS:

<table>
<thead>
<tr>
<th>Date</th>
<th>Rate Drawn (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Cl (ppm)</th>
<th>Temp. °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 to 10:00</td>
<td>100</td>
<td>9.24</td>
<td>4.00</td>
<td>18.58</td>
</tr>
<tr>
<td>9:00 to 11:00</td>
<td>150</td>
<td>16.17</td>
<td>500</td>
<td>28.30</td>
</tr>
<tr>
<td>10:00 to 12:00</td>
<td>200</td>
<td>28.88</td>
<td>500</td>
<td>28.30</td>
</tr>
<tr>
<td>11:00 to 1:00</td>
<td>250</td>
<td>43.99</td>
<td>500</td>
<td>30.00</td>
</tr>
</tbody>
</table>

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>to</td>
<td>350 to 365</td>
</tr>
<tr>
<td>50 to 175</td>
<td>Soft w/ hard streaks</td>
<td></td>
<td></td>
<td>Hard blue rock</td>
<td>365 to 375</td>
</tr>
<tr>
<td>175 to 300</td>
<td>Med hard w/ soft streak</td>
<td></td>
<td></td>
<td>to</td>
<td>375 to 395</td>
</tr>
<tr>
<td>300 to 325</td>
<td>Gravel</td>
<td></td>
<td></td>
<td>to</td>
<td>395 to 400</td>
</tr>
<tr>
<td>325 to 329</td>
<td>Cinders</td>
<td></td>
<td></td>
<td>to</td>
<td>400 to 405</td>
</tr>
<tr>
<td>329 to 345</td>
<td>Med hard rock</td>
<td></td>
<td></td>
<td>to</td>
<td>405 to 410</td>
</tr>
<tr>
<td>345 to 347</td>
<td>Firm grey rock</td>
<td></td>
<td></td>
<td>to</td>
<td>410 to 420</td>
</tr>
<tr>
<td>347 to 350</td>
<td>Mud rock</td>
<td></td>
<td></td>
<td>to</td>
<td>420 to 425</td>
</tr>
<tr>
<td>350 to 365</td>
<td>Hard blue rock</td>
<td></td>
<td></td>
<td>to</td>
<td>425 to 430</td>
</tr>
<tr>
<td>365 to 375</td>
<td>Soft rock</td>
<td></td>
<td></td>
<td>to</td>
<td>430 to 435</td>
</tr>
</tbody>
</table>

N. REMARKS:

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

ELEVATION (ft. MSL)

WELL NO. 2

ELEV 137.5

12" SOLID CASING (125')

CASED DEPTH 185'

12" SCREEN (60')

TOTAL DEPTH (375')

WELL NO. 3

ELEV. 137.9

12" SOLID CASING (105')

CASED DEPTH 185'

12" SCREEN (80')

CLEAR DEPTH TOTAL (305') DRILLED DEPTH (315')

OPEN HOLE (120')

OPEN HOLE (120')

DRILLED TO 315' DEPTH; CAVED BACK TO 305'

FINAL DIMENSIONS

FRICTION WELLS NO. 2 & 3

BELT COLLINS & ASSOC
JUNE 30, 1987
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 1987
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 _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

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Grout</td>
<td>40 ft.</td>
<td></td>
</tr>
<tr>
<td>Hole Dia.</td>
<td>12 in.</td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td>210 ft.</td>
<td></td>
</tr>
<tr>
<td>Rock Packing</td>
<td>0 ft.</td>
<td></td>
</tr>
</tbody>
</table>

Ground Elev. 125 ft. msl.

Solid casing: steel
- Length: 127 ft.
- Diameter: 8 in.
- Wall thickness: 2.50 in.

Casing: Perforated Screen Steel
- Length: 60 ft.
- Diameter: 8 in.
- Wall thickness: 2.50 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)

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

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

Hemmeter Development Co.

Signature: _____________________________ Date: 2/11/27

For Official Use:

State Well No. C521-06 (K)

DLNR Permit No. ________________________

DLNR Application No. ____________________
WILLIAM W. PATY, CHAIRMAN

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

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

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 ___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: [x] 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.

Cement: Grount 40 ft.

Hole Dia. 12 in.

Total Depth 210 ft.

Rock Packing 0 ft.

*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)

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: __120 gpm____ gallons per minute

Signature: By: ___________ Date: __________

Water User

The Lihue Plantation Company, Limited

Signature: By: ___________ Date: __________

Landowner of Well Site

Approved by Form

For Official Use:

State Well No. 5821-05 (#4)

DLNR Permit No. __________

DLNR Application No. __________
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

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

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 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 ____________ Address ________ Telephone ________
   HEMMETER DEVELOPMENT CO.  
   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>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>125 ft.</td>
</tr>
<tr>
<td>Diameter</td>
<td>12 in.</td>
</tr>
<tr>
<td>Wall thickness</td>
<td>3 1/2 in.</td>
</tr>
<tr>
<td>Casing:</td>
<td>☐ Perforated ☐ Screen</td>
</tr>
<tr>
<td>Length</td>
<td>60 ft.</td>
</tr>
<tr>
<td>Diameter</td>
<td>12 in.</td>
</tr>
<tr>
<td>Wall thickness</td>
<td>3 1/2 in.</td>
</tr>
<tr>
<td>Openings</td>
<td>50 sq. in./L.F.</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 ☐ 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

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

Water User: _______

For Official Use:

State Well No. 5321-04(#2)

DLNR Permit No. _______________

DLNR Application No. _______________
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

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: HEMETTER 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

- Cement Grout 40 ft.
- Hole Dia. 16 in.
- Total Depth 210 ft.
- Rock Packing 0 ft.

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

- Ground Elev. 125 ft. msl*
- Solid casing: Material Steel
  Length 125 ft.
  Diameter 12 in.
  Wall thickness 3/8 in.
- Casing: ☐ Perforated ☐ Screen
  Material Steel
  Length 60 ft.
  Diameter 12 in.
  Wall thickness 3/8 in.
  Openings 59 sq. in./sq. ft.
- Open Hole:
  Length 25 ft.
  Diameter 11 in.

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 gallons

- Proven 850 GPM gallons per minute

7. PROPOSED PUMP OR FLOW CAPACITY:

   Hemmeter Development Co.
   Signature: By: By: Date: 1/1/87
   Water User
   The Lihue Plantation Company, Limited
   Signature: By: Date: 1/1/87
   Landowner of Well Site

For Official Use:
State Well No. 5321-03(4)
DLNR Permit No.
DLNR Application No.