ISLAND OF HAWAII
HYDROLOGIC UNITS

ISLAND OF HAWAII
HYDROLOGIC UNITS
Mr. Clyde Nagata
Hawaiian Electric Light Company, Inc.
54 Halekauwila Street
Hilo, Hawaii  96720

Dear Mr. Nagata:

Well Completion Report for Well Nos. 6250-01 through 6250-05

We have received your Well Abandonment Reports for the Kawaihae-HELCO 1 through 5 Wells (Well Nos. 6250-01 through 6250-05) and acknowledge that they are complete.

If you have any questions, please contact Mr. Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), extension 70255.

Sincerely,

[Signature]
EDWIN T. SAKODA
Acting Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resources Management
P.O. Box 621
Honolulu, Hawaii 96809

Well Abandonment Reports
Wells 6250-01 through 6250-05
Former Proposed Power Plant Site
Kawaihae, Hawaii

Ladies and Gentlemen:

Transmitted herewith on behalf of Hawaii Electric Light Company, Inc. (HELCO) are well abandonment reports for Wells 6250-01, -02, -03, -04, and -05. These are required by the terms of the permit to abandon/seal the wells that was issued to HELCO by your office on November 14, 1997. On January 14 and 15, 1998, all five wells were abandoned/sealed in accordance with the conditions of the permit.

Please advise us if you have questions or require information beyond that provided on the report forms.

Sincerely,

HARDING LAWSON ASSOCIATES

Ronald L. Soroos
Principal Geologist

RLS:hkf

Enclosures: Well Abandonment Reports for Wells 6250-01 through 6250-05

cc: Mr. Clyde Nagata / Hawaii Electric Light Company, Inc.
Mr. Donn T. Fukuda / Hawaiian Electric Company, Inc.
Mr. James W. DuPont / Department of Hawaiian Home Lands
Mr. Randy Mori / Isemoto Contracting Co., Ltd.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

WELL ABANDONMENT REPORT

1. STATE WELL NO. 6250-A1
2. WELL NAME Boring 2
3. ISLAND Hawaii
4. DRILLING OR PUMP INSTALLATION CONTRACTOR Isemoto Contracting Company, Ltd.
5. CONTRACTOR'S C-5 LICENSE NUMBER AB1036
6. NAME OF DRILLER WHO PERFORMED WORK Burt Phillips
7. TYPE OF RIG/CONSTRUCTION Abandonment
8. DATE OF WELL SEALING COMPLETION 1/15/98

Institutional drawing of the well and chemical analysis (if available) must be submitted. For assistance call the Commission Regulation Branch at 943-4253.

Finished Grade Elevation 78.7 ft.

Casing Diameter 4 in.

Total Measured Depth 119.8 ft.

Check Material Used
Grout Seal: ☐ Cement ☑ Sand/Cement
Sand/Cement Ratio 1/1

Measured Depth Blank Casing 130 ft.

Measured Depth Perforated Casing None ft.

Measured Depth to Bottom of Grout 119.8 ft.

Measured Depth of Sand Fill None ft.

Remarks: ____________________________

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

Contractor (print) ISEMOTO CONTRACTING CO., LTD.
Signature ____________________________
Title Project Manager
Date January 20, 1998

For Driller's Use: ____________________________
Job Name Job No.

For Official Use: ____________________________
Well No. ____________
Longitude ____________
Latitude ____________
WELL ABANDONMENT REPORT

Instructions: Please print or type and submit completed report within 30 days after sealing completion to the Commission on Water Resource Management, P.O. Box 821, Honolulu, Hawaii 96820. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-2025.

1. STATE WELL NO. 6250-02
   WELL NAME: Boring 4
   ISLAND: Hawaii

2. LOCATION: Address
   Akoni Pule Highway
   Tax Map Key: 6-1-04:41

3. DRILLING OR PUMP INSTALLATION CONTRACTOR
   Isemoto Contracting Company, Ltd.

4. CONTRACTOR'S C-50 LICENSE NUMBER
   AB1036

5. NAME OF DRILLER WHO PERFORMED WORK
   Burt Phillips

6. TYPE OF RIG/CONSTRUCTION
   Abandonment

7. DATE OF WELL SEALING COMPLETION
   1/15/98

(NOTE: Report must be submitted within 30 days after the date)

---

Remarks:

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

Contractor (print) ISEMOTO CONTRACTING CO., LTD.
Signature
Title Project Manager
Date January 20, 1998

For Driller's Use:
Job Name
Job No.

For Official Use:
Well No.
Longitude
Latitude

6/24/92 WAB Form.
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

WELL ABANDONMENT REPORT

Instructions: Please print or type and submit completed report within 30 days after sealing completion to the Commission on Water Resource Management, P.O. Box 421, Honolulu, Hawaii 96822. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 367-0225.

1. STATE WELL NO. 6250-03
   WELL NAME Boring 3
   ISLAND Hawaii

2. LOCATION: Address Akoni Pule Highway
   Tax Map Key 6-1-06:03

3. DRILLING OR PUMP INSTALLATION CONTRACTOR Isemoto Contracting Company, Ltd.

4. CONTRACTOR'S C-BID/LICENSE NUMBER AB1036

5. NAME OF DRILLER WHO PERFORMED WORK Burt Phillips

6. TYPE OF RIG/CONSTRUCTION Abandonment

7. DATE OF WELL SEALING COMPLETION 1/15/98
   (NOTE: Report must be submitted within 30 days after this date)

Finished Grade Elevation 80.7 ft.

Casing Diameter None in.

Check Material Used
- Grout Seal: ☐ Cement ☑ Sand/Cement
  Sand/Cement Ratio 1/1

Total Measured Depth 94 ft.

Measured Depth Blank Casing None ft.

Measured Depth Perforated Casing None ft.

Measured Depth to Bottom of Grout 94 ft.

Measured Depth of Sand Fill None ft.

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

Contractor (print) ISEMOTO CONTRACTING CO., LTD.
Title Project Manager
Signature ____________________________ Date January 20, 1998

For Official Use: Well No. ___________
Job Name ___________ Job No. ___________
Longitude ___________ Latitude ___________

6/24/92 MA8 Form
WELL ABANDONMENT REPORT

1. STATE WELL NO. 6250-04   WELL NAME   Well 1   ISLAND   Hawaii
2. LOCATION: Address   Akoni Pule Highway   Tax Map Key   6-1-04:41
3. DRILLING OR PUMP INSTALLATION CONTRACTOR   Isemoto Contracting Company, Ltd.
4. CONTRACTOR'S C-52 LICENSE NUMBER   AB1038
5. NAME OF DRILLER WHO PERFORMED WORK   Burt Phillips
6. TYPE OF RIG/CONSTRUCTION   Abandonment
7. DATE OF WELL SEALING COMPLETION   1/14/98

(NOTE: Report must be submitted within 30 days after this date)

Finished Grade Elevation   50 ft.
Casing Diameter   24 in.

Check Material Used
Grout Seal:   □  Cement   □  Sand/Cement   Sand/Cement Ratio   1/1

Total Measured Depth   59.5 ft.
Measured Depth Blank Casing   10 ft.
Measured Depth Perforated Casing   None ft.
Measured Depth to Bottom of Grout   59.5 ft.
Measured Depth of Sand Fill   None ft.

Remarks:

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

Contractor (print)   ISEMOTO CONTRACTING CO., LTD.   Title   Project Manager
Signature   Date   January 20, 1998

For Orderer's Use:   For Official Use:   Well No.   Job Name   Job No.
Job Name:   Job No.:   Longitude:   Latitude:   6/24/92 was Form
WELL ABANDONMENT REPORT

1. STATE WELL NO. 6250-05
2. LOCATION: Address Akopli Pule Highway
   Tax Map Key 6-1-08:3
3. DRILLING OR PUMP INSTALLATION CONTRACTOR Isemoto Contracting Company, Ltd.
4. CONTRACTOR’S C-LICENSE NUMBER AB1038
5. NAME OF DRILLER WHO PERFORMED WORK Burt Phillips
6. TYPE OF RIG/CONSTRUCTION Abandonment
7. DATE OF WELL SEALING COMPLETION 1/14/98

(NOTE: Report must be submitted within 30 days after this date)

TOTAL MEASURED DEPTH 142.6 ft.

MEASURED DEPTH BLANK CASING 140 ft.

MEASURED DEPTH PERFORATED CASING None ft.

MEASURED DEPTH TO BOTTOM OF GROUT 142.6 ft.

MEASURED DEPTH OF SAND FILL None ft.

Remarks: ____________________________

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

Contractor (print) ISEMOTO CONTRACTING CO., LTD.
Title Project Manager
Signature ____________________________
Date January 20, 1998

For Official Use: Well No. 6250-05

For Dealer's Use: Job Name ____________________________
Job No. ____________________________
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Mr. Ryan Imata  
Department of Land and Natural Resources  
Commission on Water Resources Management  
P.O. Box 621  
Honolulu, Hawaii 96809

Abandon/Seal Wells  
Hawaiian Electric Light Company, Inc.  
Wells 6250-01 through -05

Dear Mr. Imata:

In accordance with the terms of Hawaiian Electric Light Company, Inc.’s permits to abandon/seal Wells 6250-01 through -05, this letter is notification to the Commission on Water Resources Management that Harding Lawson Associates and Isemoto Contracting Company are scheduled to abandon/seal the wells on January 14, 15, and if necessary, 16, 1998.

Sincerely,

HARDING LAWSON ASSOCIATES

Ronald L. Soroos  
Principal Geologist

cc:  
Mr. Clyde Nagata / Hawaii Electric Light Co., Inc. (via fax, 1-808-969-0256)  
Mr. Randy Mori / Isemoto Contracting Company, Ltd. (via fax, 1-808-329-3261)  
Mr. Donn T. Fukuda / Hawaiian Electric Company, Inc. (via fax, 543-7023)  
Mr. James W. DuPont / Dept. of Hawaiian Home Lands (via fax, 808-887-6056)
December 29, 1997

Rae M. Loui, Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Loui:

Subject: Well Abandonment Permit for Well No. 6250-01 through 6250-05

In reference to your December 9, 1997 letter, we now have the permit signed by HELCO and the installer. Enclosed is the original for your records. Thank you very much for your assistance on this project.

Sincerely,

[Signature]
Clyde H. Nagata, Manager
Engineering Department

CHN:ts
Enclosure

cc: D. Fukuda w/enclosure
Mr. Clyde Nagata  
Hawaiian Electric Light Company, Inc.  
54 Halekauwila Street  
Hilo, Hawaii 96720

Dear Mr. Nagata:

Well Abandonment Permit for Well No. 6250-01 through 6250-05

Thank you for sending back your signed well abandonment permit for the Kawaihae-HELCO 1 through 5 Wells (Well No. 6250-01 through 6250-05). However, you need to have the contractor sign the permit for it to be valid. Please retain the attached document until a contractor is selected and signs the permit. If the commencement of work is to exceed six (6) months from the date of the approval, please notify us in writing.

If you have any questions, please contact Mr. Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), extension 70255.

Sincerely,

RAE M. LOUI  
Deputy Director

RI:ss  
Enclosure
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Well Nos. 6250-01 through 6250-05

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment of Wells Nos. 6250-01 through 6250-05 at Kawaihae-Mahukona Road, HI, TMK 6-1-04: 41, subject to the following conditions:

1. The Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with 513-168-15, Hawaii Administrative Rules.

2. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within thirty (30) days after completion of the work.

3. The permittee shall comply with all applicable laws, rules, and ordinances.

4. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

5. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: November 14, 1997
Expiration Date: November 14, 1999

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: Clyde Y. Higa Date: 11/25/97
Printed Name: Clyde H. Higa Firm or Title: HECO

Installer's Signature: Leslie Isemoto License #: AB1036 Date: 12/19/97
Printed Name: Leslie Isemoto Firm or Title: Isemoto Contracting Co., Ltd.

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

Attachment cc: USGS Department of Health/ Safe Drinking Water & Wastewater Branches Hawaii Department of Water Supply
Mr. Clyde Nagata
Hawaiian Electric Light Company, Inc.
54 Halekauwila Street
Hilo, Hawaii 96720

Dear Mr. Nagata:

Well Abandonment Permit for Well No. 6250-01 through 6250-05

Thank you for sending back your signed well abandonment permit for the Kawaihae-HELCO 1 through 5 Wells (Well No. 6250-01 through 6250-05). However, you need to have the contractor sign the permit for it to be valid. Please retain the attached document until a contractor is selected and signs the permit. If the commencement of work is to exceed six (6) months from the date of the approval, please notify us in writing.

If you have any questions, please contact Mr. Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), extension 70255.

Sincerely,

RAE M. LOUI
Deputy Director

RI:ss
Enclosure
Mr. Clyde Nagata  
Hawaiian Electric Light Company, Inc.  
54 Halekauwila Street  
Hilo, Hawaii 96720

Dear Mr. Nagata:

Well Construction Permit to Abandon/Seal  
Kawaihae-HELCO Wells (Well Nos. 6250-01 through 6250-05)

Enclosed are two (2) copies of your approved Well Construction Permit to abandon/seal  
Kawaihae-HELCO (Well Nos. 6250-01 through 6250-05). As part of the Commission's  
approval, the following special condition was added and is part of your permit under Standard  
Permit Condition 5:

Special Conditions

1. The sealing of the well shall be in accordance with the procedure described in the well construction  
permit application, which is incorporated into this permit by reference.

Please sign the permit copies and return one for our files.

If you have any questions, please call the Commission staff at 587-0255 or toll-free at  
974-4000 (Hawaii), extension 70255.

Aloha,

MICHAEL D. WILSON  
Chairperson

Enclosures
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Well Nos. 6250-01 through 6250-05

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Well Nos. 6250-01 through 6250-05 at Kawailoa-Mahukona Road, HI, TMK 6-1-04: 41, subject to the following conditions:

1. The Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within thirty (30) days after completion of the work.

3. The permittee shall comply with all applicable laws, rules, and ordinances.

4. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

5. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: November 14, 1997
Expiration Date: November 14, 1999

Michael D. Wilson, Chairperson
Commission on Water Resource Management

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: ___________________________

Installer's Signature: ___________________________ License #: ______________ Date: ______________
Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachment
cc: USGS
Department of Health/ Safe Drinking Water & Wastewater Branches
Hawaii Department of Water Supply
TO: Honorable Lawrence Miike, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management

SUBJECT: Well Abandonment Permit Application  
Kawaihae-HELCO (Well No. 6250-01 through 6250-05))

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by October 23, 1997.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Mr. Ryan Imata of the Commission staff at 587-0255.

RESPONSE:
This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

For the applicant's information, a source of possible wastewater contamination [ ] is [ ] is not located near the proposed well site (information attached).

Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: Bill Wong  
Phone: 586-4258

Signed: Bill Wong  
Date: 10/6/97
TO:  Honorable Lawrence Miike, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM:  Michael D. Wilson, Chairperson  
Commission on Water Resource Management

SUBJECT:  Well Abandonment Permit Application  
Kawaihae-HELCO (Well No. 6250-01 through 6250-05)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by October 23, 1997.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Mr. Ryan Imata of the Commission staff at 587-0255.

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-contaminations and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached).

Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: Lori N. Kajiwara

Signed: Lori N. Kajiwara

Phone: 5864294

Date: 10-3-97
Mr. Clyde Nagata
Hawaiian Electric Light Company, Inc.
54 Halekauwila Street
Hilo, Hawaii 96720

Dear Mr. Nagata:

Well Abandonment Permit Application for Well No. 6250-01 through 6250-05

We acknowledge receipt, on September 23, 1997, of your completed well abandonment permit application for the Kawaihae-HELCO 1 through 5 Wells (Well No. 6250-01 through 6250-05). You can expect your application to be processed within ninety (90) days from this date.

If you have any questions about your permit application, please contact Mr. Ryan Imata of the Commission staff at 587-0255.

Sincerely,

RAE M. LOUI
Deputy Director
TO: Honorable Lawrence Miike, Director  
   Department of Health  
   Attention: Dennis Tulang, Wastewater Branch  
   William Wong, Safe Drinking Water Branch  
   
FROM: Michael D. Wilson, Chairperson  
   Commission on Water Resource Management  
   
SUBJECT: Well Abandonment Permit Application  
   Kawaihae-HELCO (Well No. 6250-01 through 6250-05)  

Transmitted for your review and comment is a copy of the captioned well application.  
We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by October 23, 1997.  

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Mr. Ryan Imata of the Commission staff at 587-0255.  

RESPONSE:  
[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.  
[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.  
[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.  
[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.  
[ ] For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached).  
[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.  
[ ] No comments/objections  

Contact Person: ______________________ Phone: ________________  
Signed: ____________________________ Date: ________________
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<td>(1) 125.00</td>
<td>HARDING LAWSON ASSOCIATES</td>
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<td>TOTAL</td>
<td>$125.00</td>
</tr>
</tbody>
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**REMARKS:**  
LINE (1) Well No. 6250-01 to 05 (Well Abandonment)
LINE (2)
LINE (3)
LINE (4)

---

**Harding Lawson Associates**
235 PEARLRIDGE CENTER, PHASE 1
AIEA, HAWAII 96701

**Wells Fargo Bank**

**No.06 00000172**

**CHECK DATE**: 9/18/97  
**CHECK NUMBER**: 0600000172  
**CHECK AMOUNT**: ***$125.00***

**PAY ***ONE HUNDRED TWENTY-FIVE DOLLARS AND 00/100***
TO THE ORDER OF DEPARTMENT OF LAND AND NATURAL RESOURCES
P.O. BOX 621  
HONOLULU, HAWAII 96809

---

**Harding Lawson Associates**
235 PEARLRIDGE CENTER, PHASE 1
AIEA, HAWAII 96701

**No.06 00000172**

<table>
<thead>
<tr>
<th>DATE</th>
<th>INVOICE NO.</th>
<th>DESCRIPTION</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/18/97</td>
<td>9/18/97</td>
<td>APPLICATION FILING FEE FOR WELL ABANDONMENT PERMITS</td>
<td>$125.00</td>
</tr>
<tr>
<td>Well No.</td>
<td>Well Name</td>
<td>Aquif Code</td>
<td>Owner/User</td>
</tr>
<tr>
<td>---------</td>
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<tr>
<td>6250-02</td>
<td>KAWAIHAE</td>
<td>80103</td>
<td>HELCO</td>
</tr>
<tr>
<td>6250-01</td>
<td>KAWAIHAE TH</td>
<td>80103</td>
<td>HELCO</td>
</tr>
</tbody>
</table>
APPLICATION FOR PERMIT

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the COMMISSION ON WATER RESOURCE MANAGEMENT, P.O. Box 121, Honolulu, Hawaii 96815. This application must be accompanied by a nonrefundable fee of $35.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission’s Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact a, b, or c)
   (a) PRIMARY CONTACT: HARDING LAWSON ASSOCIATES
      Mr. Ronald L. Soroco
      Phone: 808-632-5868
      Address: 1600 Kapiolani Blvd., Suite 620, Honolulu, Hawai'i 96814
      (b) LANDOWNER
      Hawaiian Electric Light Company, Inc.
      Contact Person: Ms. Clyde Nagatani
      Address: 54 Halekauwila St., Hilo, Hawai'i 96720
      (c) CONTRACTOR
      Island Contracting
      Contact Person: Mr. Randy Morf
      Address: 74-5093 N. Kona Highway, Kailua-Kona, Hawai'i 96740

2. WELL LOCATION/NAME: Former proposed site of Kawaihae Electric Power Station
   Address: Kawaihae-Mahuka Road, Kawaihae, Hawai'i
   Tax Map Key: 6-1-04:41

3. (a) PROPOSED WORK:
   (b) WELL TYPE:

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: None
   Motor:
   Pump Type:
   Submersible:
   Centrifugal:
   Impulse:
   Electric, rated to recoverer:
   Impulse:
   Propeller:
   Induction:
   Rotary:
   Rotary-Displacement:
   Reciprocating:
   Deep Well Turbine:
   Gas:
   Diesel:

5. PROPOSED USE:
   (a) Municipal (including hotels, stores, etc.)
   (b) Agriculture
   (c) Military
   (d) Irrigation (crop)
   (e) Domestic (individual, noncommercial water use)
   (f) Industrial
   (g) Dwelling Units
   (h) Other

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   (b) METHOD OF FLOW MEASUREMENT:

7. PENDING ACTIONS:
   Suspension
   Revocation
   Extension

8. REMARKS, EXPLANATIONS:

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Hawaiian Electric Light Company, Inc.
Landowner: Hawaii Island Home Lands
Contractor: Island Contracting

Signature: Clyde Nagatani
Date: SEP 1-0-1997

For Official Use Only:
Date Received
Date Accepted
Field Checked By
Longitude
Latitude
AQUIFER SYSTEM NAME
STATE WELL NO.

2 Jan 97 WCPA Form
8. Remarks, Explanations (cont’d): The well will be abandoned by filling it with tremied cement-sand grout from the bottom to the top. The casing will be cut and removed two feet below grade, and the hole will be filled with soil and leveled.

AS-BUILT

9. PROPOSED WELL SECTION

<table>
<thead>
<tr>
<th>Component</th>
<th>Measurement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation at top of casing</td>
<td>51.5 ft. mal.</td>
<td></td>
</tr>
<tr>
<td>Cement Grout</td>
<td>10 ft.</td>
<td></td>
</tr>
<tr>
<td>Rock Packing</td>
<td>None ft.</td>
<td></td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>24 in.</td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td>60 ft.</td>
<td></td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>50.0 ft. mal*</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Steel</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>10 ft.</td>
<td></td>
</tr>
<tr>
<td>Diameter</td>
<td>24 (I.D.)</td>
<td>in.</td>
</tr>
<tr>
<td>Wall thickness</td>
<td>1/4</td>
<td>in.</td>
</tr>
<tr>
<td>Casing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perforated</td>
<td></td>
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</tr>
<tr>
<td>Screen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td></td>
<td>ft.</td>
</tr>
<tr>
<td>Diameter</td>
<td></td>
<td>in.</td>
</tr>
<tr>
<td>Wall thickness</td>
<td></td>
<td>in.</td>
</tr>
<tr>
<td>Openings</td>
<td></td>
<td>sq. in. ft.</td>
</tr>
<tr>
<td>Open Hole</td>
<td></td>
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<tr>
<td>Length</td>
<td>50 ft.</td>
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</tr>
<tr>
<td>Diameter</td>
<td>24 in.</td>
<td></td>
</tr>
</tbody>
</table>

*Approximate elevation at time of filling 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.
Reference:
USGS, 1982, Topographic map of Kawaihae, Hawaii

Well 1 Location Map
HELCO Power Plant Site
Kawaihae, Hawaii
Well 1 Tax Map
HECO Power Plant Site
Kawaihae, Hawaii

NOTE: All lots owned by Hawaiian Home Land are listed; otherwise noted.

NOTICE: Owner's, lessee's and vendee's names recorded on this tax map may not be current.

JUN 3 1997

For Property Assessment Purposes

Harding Lawson Associates
Engineering and Environmental Services

DRAWN BY:
ris

JOB NUMBER:
38767.2

APPROVED:

FILE:
199707151404

DATE:
7/97

REVISED DATE:

DEPARTMENT OF TAXATION
PROPERTY TECHNICAL OFFICE
TAX MAPS BRANCH
STATE OF HAWAII
TAX MAP

THIRD TAXATION DISTRICT
ZONE SEC. PLAT
6 1 06
APPLICATION FOR PERMIT

[Box checked for Well Construction or Pump Installation]

M. Ronald L. Soroles
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

Date: SEP 23, 1997

PRIMARY CONTACT: HARDING LAWSON ASSOCIATES
Mr. Ronald L. Soroles
Hawaii Electric Light Company

1. APPLICANT: (circle primary contact a, b, or c)
   (a) WELL OWNER
   Firm Name: Hawaii Electric Light Company
   Inc Name: Dept. of Hawaiian Home Lands
   Contact Person: Mr. Clyde Nagata
   Address: 54 Haleakumila
   Phone: 486-6009
   Location: Hilo, Hawaii 96720

   (b) LANDOWNER
   Firm Name: L. D. Hamil
   Inc Name: Hawaii Home Lands
   Contact Person: Mr. Jim Dunlop
   Address: Hualalai, Hawaii

   (c) CONTRACTOR
   Firm Name: Iseimoto Contracting
   Inc Name: Company Ltd.
   Phone: 329-8051
   Contractor's License No.
   Location: Hilo, Hawaii 96720

2. WELL LOCATION/NAME: Well Location/Name ________
   Address: Hilo, Hawaii 96720
   Date Received ______
   Island ______
   Tax Map Key ______
   Remarks, Explanations: ________
   PENDING ACTIONS: OCDUA OEA

3. (a) PROPOSED WORK:
   - Install New Pump
   - Modify Existing Well
   - Deepen
   - Redrill
   - Install New Pump
   - Replace Pump
   - Abandon/Seal

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: ________
   Flow: ________
   Type: Deep Well Turbine
   Submersible
   Rotay
   Rotary-Displacement
   Vertical
   Reciprocating
   Impulse
   Other

   Motor: Diesel
   Gas
   Electric, Rated Horsepower:

5. PROPOSED USE:
   - Municipal (including hotels, stores, etc.)
   - Industrial
   - Domestic (individual, noncommercial water sys.)
   - Irrigation (crop)
   - Military
   - Other

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: ________
   (b) METHOD OF FLOW MEASUREMENT:
      Flow/Meter
      Open/Ir/ge
      Office Plate
      Weir

7. PENDING ACTIONS:
   - COUA
   - SMA
   - EIS
   - EA
   - NONE
   - Other (explain)
   Completion Date: ________

8. REMARKS, EXPLANATIONS:

   (If more space is needed, continue on back)

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Hawaii Electric Light Company, Ltd.
Well Owner
Signature: ________
Date: ________

Department of
Landowner Hawaiian Home Lands
Contractor Iseimoto Contracting
Signature: ________
Date: ________

For Official Use Only:
Date Received ________
Date Accepted ________
Field Checked By: ________
Date: ________
8. Remarks, Explanations (cont'd): The well will be abandoned by filling it with tremie cement-sand grout from the bottom to the top. The casing will be cut and removed two feet below grade, and the hole will be filled with soil and leveled.

---

AS-BUILT

9. PROPOSED WELL SECTION

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>81.5 ft., masl</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Grout:</td>
<td>140 ft.</td>
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<tr>
<td>Rock Packing:</td>
<td>None ft.</td>
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<td>Hole Diameter:</td>
<td>20 in.</td>
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<td>Total Depth:</td>
<td>240 ft.</td>
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<td>Ground Elevation:</td>
<td>80 ft., masl*</td>
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<td>Solid Casing:</td>
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<tr>
<td>Material</td>
<td>Steel</td>
</tr>
<tr>
<td>Length</td>
<td>140 ft.</td>
</tr>
<tr>
<td>Diameter</td>
<td>20 in.</td>
</tr>
<tr>
<td>Wall thickness</td>
<td>1/4 in.</td>
</tr>
<tr>
<td>Casing:</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td></td>
</tr>
<tr>
<td>Length</td>
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<td>Diameter</td>
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<tr>
<td>Wall thickness</td>
<td></td>
</tr>
<tr>
<td>Openings</td>
<td></td>
</tr>
<tr>
<td>sq. in./A.F.</td>
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</tr>
<tr>
<td>Open Hole:</td>
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</tr>
<tr>
<td>Length</td>
<td>100 ft.</td>
</tr>
<tr>
<td>Diameter</td>
<td>20 in.</td>
</tr>
</tbody>
</table>

*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.
APPLICATION FOR PERMIT

1. APPLICANT: HARDING LAWSON ASSOCIATES

(a) Firm Name: Hawaii Electric Light Company, Inc.

(b) Address: 56 Halekauwila St., Hilo, Hawaii 96720

(c) Contractor: Isemoto Contracting

2. WELL LOCATION/NAME: Former proposed site of Kawahae Electric Power Station

3. (a) PROPOSED WORK:

- Drill New Well
- Modify Existing Well
- Replace Pump
- Install New Pump
- Redrill
- Abandon/Seal

(b) WELL TYPE:

- Deep Well
- Submersible
- Centrifugal
- Deep Well Turbine
- Rotary
- Rotary-Displacement
- Centrifugal

4. PROPOSED PUMP INFORMATION:

- Rated Pump Capacity: None

5. PROPOSED USE:

- Domestic (individual, noncommercial water system)
- Irrigation (crop)
- Military
- Other

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 0 gallons per day

(b) METHOD OF FLOW MEASUREMENT:

- Flow-meter
- Open-pipe
- Office Plate
- Wax

7. PENDING ACTIONS:

- CDUA
- GMA
- EIS
- EA
- NONE

8. REMARKS, EXPLANATIONS:

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.
8. Remarks, Explanations (cont'd): The well will be abandoned by filling it with treated cement-sand grout from the bottom to the top. The casing will be cut and removed two feet below grade, and the hole will be filled with soil and leveled.

9. PROPOSED WELL SECTION

Elevation at top of casing: 79.0 ft., msl.

Cement Grout: 130 ft.

Rock Packing: None ft.

Hole Diameter: 4 in.

Total Depth: 495 ft.

Ground Elevation: 78.7 ft., msl

Solid Casing:
- Material: PVC
- Length: 130 ft.
- Diameter: 4 in.
- Wall thickness: 1/8 in.

Open Hole:
- Length: 365 ft.
- Diameter: 4 in.

*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.
Reference:
USGS, 1982, Topographic map of Kawaihae, Hawaii

Boring 2 Location Map
HELCO Power Plant Site
Kawaihae, Hawaii

Harding Lawson Associates
Engineering and Environmental Services

DRAWN: rls
JOB NUMBER: 38767.2
APPROVED: 
FILE: 
DATE: 7/97
REVISED DATE: 

SCALE IN FEET
0 1000 2000 FT
NOTE: All lots owned by
Hawaiian Home Lands
unless otherwise noted.

NOTICE: Owner's, lessee's and
vendee's names recorded on this tax
map print may not be current.

JUN 3 1997
FOR PROPERTY ASSESSMENT PURPOSES

Boring 2 Tax Map
HELCO Power Plant Site
Kawaihae, Hawaii

DEPARTMENT OF TAXATION
PROPERTY TECHNICAL OFFICE
TAX MAPS BRANCH
STATE OF HAWAII
TAX MAP
THIRD TAXATION DISTRICT
ZONE 6 SEC. 1 PLAT 06

For Job Number DRAWN JOB NUMBER APPROVED FILE DATE REVISED DATE
38767.2 rls 1997/07/15 1404 7/97
**APPLICATION FOR PERMIT**

<table>
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<tr>
<th>Date Accepted</th>
<th>Longitude</th>
<th>Aquifer System Name</th>
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</tr>
</tbody>
</table>

**REMARKS, EXPLANATIONS:**

---

**For Official Use Only:**

- **Date Received:**
- **Date Accepted:**
- **Field Checked By:**
- **Date:**

---

**Hawaii Electric Light Company, Inc.**

**Landowner**

**Contractor:**

---

**Date:**

---

3 Jan 87 WCPA Form
8. Remarks, Explanations (cont’d). The well will be abandoned by filling it with tremied cement-sand grout from the bottom to the top. The casing will be cut and removed two feet below grade, and the hole will be filled with soil and leveled.

9. PROPOSED WELL SECTION

- Elevation at top of casing: __________ ft. msl.
- Cement Grout: None ft.
- Rock Packing: None ft.
- Hole Diameter: 4 in.
- Total Depth: 90 ft.

Ground Elevation: 80.7 ft. msl

Solid Casing:
- Material: None
- Length: __________ ft.
- Diameter: __________ in.
- Wall thickness: __________ in.

Casing: □ Perforated □ Screen
- Material: __________
- Length: __________ ft.
- Diameter: __________ in.
- Wall thickness: __________ in.
- Openings: __________ sq. in. ft.

Open Hole:
- Length: 90 ft.
- Diameter: 4 in.

*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

☐ Well Construction or ☐ Pump Installation

In accordance with the regulations of the Commission on Water Resource Management, this application must be accompanied by the non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission's Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact a, b, or c)
(a) WELL OWNER
Firm/Name: Hawaii Electric Light Company, Inc. Inirm/Name: Dept. of Hawaiian Home Lands
Contact Person: Mr. Clyde Nagata Ph. 969-0321 Contact Person: Mr. Hm Dupont Ph. 885-7091
Address: 54 Halekauila Address: West Hawaii District Office
Hilo, Hawaii 96720 Waimea, Hawaii
(b) LANDOWNER
Address: 54 Halekauila
Hilo, Hawaii 96720
(c) CONTRACTOR
Firm/Name: Isimoto Contracting, Inc. Firm/Name: Contractor's License No.
Ph. 329-8051 AB1036
Contact Person: Mr. Randy Mori Contact Person: (Please circle type: C-57, Gen. C, or C-57a, Gen. A)
Address: 74-5093B Queen Kaahumanu Highway, Kalua-Kona, Hawaii 96740

2. WELL LOCATION/NAME: Former proposed site of Kawaihae Electric Power Station Island Hawaii
Address: Kawaihae-Nahau Road, Kawaihae, Hawaii Tax Map Key: 6-1-046A

Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000'), and (b) a property tax map, showing well location referred to established property boundaries.

3. (a) PROPOSED WORK: Drill New Well
Modify Existing Well
Drill New Pump
Modify Pump
Abandon/Seal
Replace Pump
* Be sure to complete and submit well abandonment report upon completion of work.
(b) WELL TYPE:
Drill
Bored
Driven
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:
☐ Deep Well Turbine
☐ Rotary
☐ Submersible
☐ Reciprocating
☐ Gear
☐ Impulse

Motor:
☐ Deep Well Turbine
☐ Rotary
☐ Submersible
☐ Reciprocating
☐ Gear
☐ Impulse

5. PROPOSED USE:
☐ Municipal (including notes, stores, etc.)
☐ Domestic (individual, noncommercial water sys.)
☐ Irrigation (crop)
☐ Military
☐ Other:

(Select appropriately in the above blanks.)

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

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

Completion Date:

8. REMARKS, EXPLANATIONS:

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination or con caveous water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Hawaii Electric Light Company, Inc. Landowner: Department of Hawaiian Home Lands

Well Owner: Isimoto Contracting

Signature: Mr. Ronald L. Soroco Signature: Hali Wilson Signature: J. P. Salter
Date: SEP 10 1997 Date: SEP 1 1997 Date: SEP 16 1997

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

Longitude ____________________________ Aquifer System Name ____________________________
Latitude ____________________________ State Well No. ____________________________

3 Jan 97 WCPIA Form
8. Remarks, Explanations (cont'd): The well will be abandoned by filling it with tremie cement-sand grout from the bottom to the top. The casing will be cut and removed two feet below grade, and the hole will be filled with soil and leveled.

AS-BUILT

9. PROPOSED WELL SECTION

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>51.6 ft., msl.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Grout</td>
<td>10 ft.</td>
</tr>
<tr>
<td>Rock Packing</td>
<td>None</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>4 in.</td>
</tr>
<tr>
<td>Total Depth</td>
<td>180 ft.</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>51.3 ft., msl</td>
</tr>
</tbody>
</table>

| Solid Casing: | | |
| Material | PVC |
| Length | 10 ft. |
| Diameter | 4 in. |
| Wall thickness | 1/4 in. |

| Casing: | Perforated | Screen |
| Material | | |
| Length | | |
| Diameter | | |
| Wall thickness | | |
| Openings | | sq. in. |

| Open Hole: | |
| Length | 170 ft. |
| Diameter | 4 in. |

*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.
NOTE: All lots owned by Hawaiian Home Lands unless otherwise noted.

NOTICE: Owner's, lessee's and vendee's names recorded on this tax map print may not be current.

JUN 3 1997

FOR PROPERTY ASSESSMENT PURPOSES

Boring 4 Tax Map
HELCO Power Plant Site
Kawaihae, Hawaii

DEPARTMENT OF TAXATION
PROPERTY TECHNICAL OFFICE
TAX MAPS BRANCH
STATE OF HAWAII
TAX MAP

THIRD TAXATION DISTRICT
ZONE SEC. PLAT
6 1 06

Hunting Lawson Associates
Engineering and Environmental Services

DRAWN
JOS NUMBER
APPROVED
FILE
DATE
REVISED DATE
115
38767.2
TEMPLATE 1.0
199707151404
7/97
2
September 18, 1997

Application for Permit to Abandon Wells and Borings
Former Proposed Power Plant Site
Kawaihae, Hawaii

Ladies and Gentlemen:

Transmitted herewith are applications for permits to abandon two wells and three borings at a formerly-proposed site for an electricity generation plant in Kawaihae. The wells and borings were installed for Hawaii Electric Light Company in 1974 for hydrogeologic testing and facility design. To the best of our knowledge, neither of the wells was registered with the Department of Land and Natural Resources. In the state registry of wells, two wells in the area of the site are listed and attributed to Hawaii Electric Light Company. It is not clear, however, if the listed wells represent any of the wells or borings for which permit applications are herewith enclosed.

Well 1 has a 24-inch surface casing and is 60 feet deep. Well 2 has a 20-inch casing that extends 140 feet, and its bottom was originally 240 feet deep. When we sounded Well 2 on July 2, 1997, we found it to be obstructed at a depth of approximately 142 feet below the top of the casing. The water level in the well is approximately 90 feet below the top of the casing, so the obstruction is at least 50 feet below the groundwater surface.

If the well is filled with tremied concrete from the obstruction to the ground surface, the borehole will be effectively sealed throughout the vadose zone against potential contaminants introduced at the ground surface. Because basalt normally has very high permeability, there would seem to be no adverse effects from unfilled voids in the borehole beneath the obstruction. To save our client unnecessary expense, we request a waiver of the requirement to clear obstructions from the well by redrilling the borehole to the original depth. If granted, the well would otherwise be abandoned in accordance with the Commission on Water Resource Management standards and guidelines.
The three borings (Borings 2, 3 and 4) have various depths as described in the abandonment applications. Two of the borings are partially obstructed. We request waivers of the requirement to clear obstructions from the borings by redrilling the boreholes to their original depths for these also.

If you have any questions or wish further information, we will be pleased to confer with you.

Sincerely,

HARDING LAWSON ASSOCIATES

Ronald L. Soroos  
Engineering Geologist - 1056 (California)

RLS:hkf

Enclosures: Applications for permits to abandon wells  
Check for the application fee

cc:  Mr. Clyde Nagata / Hawaii Electric Company, Inc. (w/o enclosures)  
Mr. Donn Fukuda / Hawaiian Electric Company, Inc. (w/o enclosures)