CHECKLIST

Type of Permit: \(\text{X Well Construction \ } \text{X Pump Installation \ } \_\text{Water Use Required}

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Keaau-Boy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>3589-01</td>
</tr>
<tr>
<td>Island</td>
<td>Hawaii</td>
</tr>
<tr>
<td>Applicant</td>
<td>Gerald P. Hay</td>
</tr>
<tr>
<td>Landowner</td>
<td>Same</td>
</tr>
<tr>
<td>TMK</td>
<td>1-5-37:5</td>
</tr>
<tr>
<td>Appl Recd</td>
<td>01 May 95 (Dates)</td>
</tr>
<tr>
<td>Mapped/#</td>
<td>08 May 95 Logcomp 5-9-95 Logbk 5-9-95</td>
</tr>
<tr>
<td>Acknowledgment</td>
<td>MAY 11 1995</td>
</tr>
<tr>
<td>Fee Depos</td>
<td>MAY 11 1995</td>
</tr>
</tbody>
</table>

Copies Sent for Review

<table>
<thead>
<tr>
<th>DoH/ Drink Water</th>
<th>Sent</th>
<th>Comments Recd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAY 11 1995</td>
<td>18 May 95</td>
</tr>
<tr>
<td>Wastewater</td>
<td>MAY 11 1995</td>
<td></td>
</tr>
<tr>
<td>Hist. Preserv</td>
<td>MAY 11 1995</td>
<td></td>
</tr>
<tr>
<td>Aquat Res</td>
<td>MAY 11 1995</td>
<td>12 May 95</td>
</tr>
<tr>
<td>OHA</td>
<td>MAY 11 1995</td>
<td>22 May 95</td>
</tr>
<tr>
<td>DHHL</td>
<td>MAY 11 1995</td>
<td></td>
</tr>
<tr>
<td>Honolulu BWS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maui DoW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kauai DoW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hawaii DoW</td>
<td>MAY 11 1995</td>
<td>31 May 95</td>
</tr>
<tr>
<td>PW</td>
<td>MAY 11 1995</td>
<td>19 May 95</td>
</tr>
<tr>
<td>SCLDF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Com:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bulletin

to Agenda

Submittal to Appl

CWRM _Appr _Deny

Permit/Notice to Appl
Well No. 3589-01
"KEAAU - HAY" WELL SITE

Within Lot 375, Block 4, Hawaiian Paradise Park Subdivision
(Land Court Application 1093, Map 57)
Keau, Puna, Hawaii, Hawaii

Survey and Plan by Murray, Smith & Associates, Ltd.
P.O. Box 869
Hilo, Hawaii

NOTE: Elevation is at top of concrete slab "D" cut on north corner - 125.31'
Elevation bases "B" M 87 YY at Waikamoehe Bridge.

TMK, 3rd, 1-8-57: 5
September 26, 1965

PD 457
February 28, 1996

MEMO TO THE FILE

FROM: Neal Fujii

SUBJECT: Water Use Reporting for Keaau-Hay Well (3589-01)

In a telephone conversation with Deborah Hay, I asked her if they were reporting their withdrawal amounts form their well. She said that the have a meter but doesn't think its been installed yet and that they were not reporting or recording the withdrawals. She will have her husband call me to give me an estimate of their water use. I informed her that conditions in the permit require that they report monthly water use to our office. I told her that I would mail her a water use report form.

Mrs. Hay suggested that conditions in our well/pump permits be more specific as to what state, county and federal rules apply to the matter of well construction and pump installation. She said she and her husband had a hard time finding out what was required of them in terms of back flow prevention for their well (DOH requirement).
## MONTHLY GROUND WATER USE REPORT FOR

Gerald P. & Deborah J. Hay  
P.O. Box 751  
Keaau, HI 96749

### State Well Number

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Measurement End Date (mm/dd/yy)</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement*</th>
<th>Chloride (mg/l)**</th>
<th>Temp (°F)</th>
<th>Lowest Pumping Water Level (ft. above msl)</th>
<th>Highest Non-pumping Water Level (ft. above msl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3589-01</td>
<td>Keaau-Hay</td>
<td></td>
<td></td>
<td>meter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Flow meter, electrical consumption, weir of flume, not metered (estimated)  
**Indicate how long pump was on or off when chloride sample taken  
***Minimum time between pump/well turned off and water level measurement must be at least 24 hours; if pumping schedule did not allow for at least 24 hour rest during the month please indicate amount of hours pump was off before this measurement.

Other comments or additional information (e.g., date and method of chloride measurement; how pumpage amounts are estimated, etc...):

---

Submitted by (print)  
Signature  
Title  
Date
## WELL COMPLETION REPORT

### Instructions:
Please print or type and submit completed report within 90 days after well completion to the Commission on Water Resource Management, P.O. Box 921, 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 808-586-2626.

### 1. STATE WELL NO.: 3589-01

#### ISLAND: Hawaii

### 2. LOCATION:
Address: 15/18 Old Railroad Ave., Tax Map Key: 1-5-027-005

### 3. DRILLER OR PUMP INSTALLATION CONTRACTOR: P.R. Drilling Co.

### 4. CONTRACTOR'S C-57 LICENSE NUMBER: 0-0490

### 5. NAME OF DRILLER WHO PERFORMED WORK: William Tower

### 6. TYPE OF RIG/CONSTRUCTION: 7/4-10-78

### 7. DATE OF WELL DRILLING COMPLETION: 7/26/95

### 8. GROUND ELEVATION (msl): 3 ft.

#### Top of Drilling Platform (msl): 3 ft.

#### Height of Drilling Platform above Ground surface: 3 ft.

#### Bench Mark and Method Used to Determine Ground Elevation: 19.27

### 9. DRILLER'S LOG:

<table>
<thead>
<tr>
<th>Date of Log</th>
<th>Rock Description, Remarks, Dates</th>
<th>Depth (ft)</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/30/95</td>
<td>183 to 200</td>
<td>Surf Materials 193</td>
</tr>
</tbody>
</table>

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

### 10. TOTAL DEPTH OF WELL BELOW GROUND: 200 ft.

### 11. HOLE SIZE:

<table>
<thead>
<tr>
<th>Diameter (in)</th>
<th>Depth (ft)</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/2</td>
<td>183</td>
<td>200</td>
</tr>
<tr>
<td>8/2</td>
<td>183</td>
<td>200</td>
</tr>
</tbody>
</table>

### 12. CASING INSTALLED:

<table>
<thead>
<tr>
<th>Type of Casing</th>
<th>Depth (ft)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/2</td>
<td>183</td>
<td></td>
</tr>
<tr>
<td>8/2</td>
<td>183</td>
<td></td>
</tr>
</tbody>
</table>

### 13. ANNULUS:

<table>
<thead>
<tr>
<th>Gritted</th>
<th>Depth (ft)</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>183</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>183</td>
<td>200</td>
<td></td>
</tr>
</tbody>
</table>

### 14. INITIAL WATER LEVEL: 183/2 ft. below ground.

Date and time of measurement: Aug 25, 1995

### 15. INITIAL CHLORIDE: 60 ppm (53.73 ppm)

Date and time of sampling: Aug 25, 1995

### 16. INITIAL TEMPERATURE: 68.8 °F

Date and time of sampling: Aug 25, 1995

### 17. DATE OF PUMP INSTALLATION: Aug 25, 1995

### 18. PUMP INSTALLATION:

<table>
<thead>
<tr>
<th>Pump Type</th>
<th>Make, Serial No</th>
<th>Capacity (gpm)</th>
<th>Motor type, H.P., Voltage, rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Franklin</td>
<td>#9301</td>
<td>0-60</td>
<td>FRANKLIN 5/12 230V, 1/2 HP 3450</td>
</tr>
</tbody>
</table>

### 19. PUMPING TESTS:

<table>
<thead>
<tr>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
</tr>
</thead>
<tbody>
<tr>
<td>183.2 ft. below R.P.</td>
<td>183.2 ft. below R.P.</td>
<td>199.0 ft. below R.P.</td>
</tr>
</tbody>
</table>

#### Time (hours) | Rate (gpm) | Date |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2:30 A.M. to 5:30 A.M.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>7:30 A.M. to 10:30 A.M.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>11:30 A.M. to 2:30 P.M.</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

### Remarks:

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

## WELL NO. 3589-01

### Contractor (print): P.R. Drilling Co.

### Date: Aug 25, 1995

### Signature: William Tower
### DRILLER'S LOG (cont'd)

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PUMPING TESTS (cont'd):  

<table>
<thead>
<tr>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Temp. °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks (cont'd):**  
The pump I used produces 60 gal a minute at a depth of 200.'
<table>
<thead>
<tr>
<th>FROM:</th>
<th>R. LOUI</th>
<th>J. UWAIK</th>
<th>F. CHING</th>
<th>S. SUBIA</th>
<th>K. YODA</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO:</td>
<td>R. ALI'UJ.</td>
<td>CO~SION</td>
<td>ON</td>
<td>WATER</td>
<td>BRANCH</td>
</tr>
<tr>
<td>DATE:</td>
<td>8/4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUSPENSE DATE:</td>
<td>______</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TO: INIT: TO: INIT: FOR: PLEASE:**

- **REGULATION BRANCH**
  - E. SAKODA
  - D. HIGA
  - L. NAKAMA
  - C. ICE
  - R. JINNAI
  - S. SWANSON

- **SURVEY BRANCH**
  - E. HIRANO
  - G. BAUER
  - R. HARDY
  - N. PLUIH
  - M. OHYE
  - I. KUNIMURA

- **PLANING BRANCH**
  - S. EDMUNDS
  - L. MIZUNO

**APPROVAL SIGNATURE INFORMATION**

- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox ______ copies

**INFORMATION**

- Passed me again
- 9/5/95
August 8, 1995

Mr. Michael D. Wilson, Chairperson
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Re: Keau-Hay Well, Well No. 3589-01

Dear Mr. Wilson,

This is to acknowledge receipt of the permit for well construction and pump installation. A signed copy of the permit is enclosed.

We would like to inform the Commission that construction of the above-referenced well commenced on August 2, 1995. Verbal notification of work commencement was given on July 5, 1995, following approval of the well permit application. Procedures outlined in the Staff Submittal the Commission office FAXed to us on June 30, 1995 did not specify written notification, and we interpreted permit approval as permission to proceed.

We apologize for the belated written notification. We will promptly submit test results and pump information when that information is available.

Very truly yours,

Gerald P. Hay
Deborah J. Hay

Enclosures (2)
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. BOX 621
HONOLULU, HAWAII 96809

WELL CONSTRUCTION/PUMP INSTALLATION PERMIT

for

Keaau-Hay Well
Well No. 3589-01

To: Gerald P. Hay & Deborah J. Hay
P.O. Box 761
Keaau, HI 96749

In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Keaau-Hay Well (Well No. 3589-01) at Keaau, Puna, Hawaii, TMK 1-5-37:5, is approved, subject to the following conditions:

STANDARD WELL CONSTRUCTION PERMIT CONDITIONS

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

2. The well construction/pump installation permit shall be for construction, testing, and installation of an 80 gpm capacity, or less, pump in the well, as determined by the pumping test results. A means to accurately measure water levels, acceptable to the Commission, shall be provided. The applicant shall submit to the Commission the test results and proposed permanent pump information, based on the test, for approval by the Chairperson.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct and pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

4. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission on a quarterly basis.

5. The following shall be submitted to the Commission within thirty (30) days after completion of work:

   a. Well completion report.
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
d. Plot plan and map showing the exact location of the well.
e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other water quality data.

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

7. The well construction/pump installation permit application and staff submittal approved by the Commission at its July 5, 1995 meeting are incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of issuance 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.

SPECIAL CONDITION

1. The well shall not be used for drinking water unless it is properly tested and treated.

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management
AUG - 3 1995
Date of Issuance

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: Gerald Hay Deborah Hay Date: 8-8-95

Printed Name: Gerald Hay Deborah Hay

Firm or Title: Orchid Isle Dentroisons

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

Attach.

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Hawai'i Department of Water Supply
To: Gerald P. Hay & Deborah J. Hay
P.O. Box 761
Keaau, HI 96749

In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Keaau-Hay Well (Well No. 3589-01) at Keaau, Puna, Hawaii, TMK 1-5-37:5, is approved, subject to the following conditions:

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2. The well construction/pump installation permit shall be for construction, testing, and installation of an 80 gpm capacity, or less, pump in the well, as determined by the pumping test results. A means to accurately measure water levels, acceptable to the Commission, shall be provided. The applicant shall submit to the Commission the test results and proposed permanent pump information, based on the test, for approval by the Chairperson.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct and pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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5. The following shall be submitted to the Commission within thirty (30) days after completion of work:
   a. Well completion report.
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
d. Plot plan and map showing the exact location of the well.

e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other water quality data.

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

7. The well construction/pump installation permit application and staff submittal approved by the Commission at its July 5, 1995 meeting are incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of issuance 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.

SPECIAL CONDITION

1. The well shall not be used for drinking water unless it is properly tested and treated.

Michael D. Wilson, Chairman
Commission on Water Resource Management
August 3, 1995
Date of Issuance

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

Applicant’s Signature: __________________________ Date: ______________

Printed Name: ____________________________________________

Firm or Title: ______________________________________________

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

cc: USGS
    Department of Health
    Safe Drinking Water Branch
    Ground Water Protection Program
    Wastewater Branch
    Hawai’i Department of Water Supply
June 6, 1995

MEMORANDUM

TO: Rae M. Loui, Deputy Director  
Commission on Water Resource Management

FROM: Don Hibbard, Administrator  
State Historic Preservation Division

SUBJECT Keaau-Hay Well  
Keaau, Puna, Island of Hawaii  
TMK: 1-5-37:5

There are no known or recorded historic sites in the subject parcel, which according to our records does not appear to have been surveyed, however. The location of the proposed well, in Hawaiian Paradise Park, suggests that there may be lava tubes and possibly other sites. We recommend that the parcel be surveyed to determine the presence or absence of significant historic sites before issuing a permit. If significant historic sites are found they must be properly recorded and an inventory report submitted to our office for review and approval. The report should contain significance evaluations and recommended mitigation treatments.

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

WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT APPLICATIONS  
WELL NAME: KEAAN-HAY  
WELL NUMBER: 3589-01  
APPLICATION TYPE: WELL AND PUMP  
LOCATION: ISLAND OF HAWAII  
TAX MAP KEY: 1-5-37:05

We have reviewed the subject application and have no comments.

Milton D. Pavao, P.E.  
Manager

...Water brings progress...
TO: Mr. Kali Watson, Director  
Department of Hawaiian Home Lands  
Mr. Clayton H.W. Hee, Chairman and Trustee At Large  
Office of Hawaiian Affairs

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

SUBJECT: Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by MAY 26 1995.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii</td>
<td>Keaau-Hay Well</td>
<td>3589-01</td>
<td>Well and Pump</td>
</tr>
</tbody>
</table>

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

Enc.

Response:

X We have no objections
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: Luis A. Manrique  
Signed: Juan D. Hei

Phone: 587-1535  
Date: 05/19/95
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720  

Dear Ms. Kiyosaki:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by MAY 26, 1995.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii</td>
<td>Keaau-Hay Well</td>
<td>3589-01</td>
<td>Well and Pump</td>
</tr>
</tbody>
</table>

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

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director  

Response:

- We have no objections
- Not subject to our regulatory authority and permit
- Comments attached
- Additional information requested
- Extended review period requested

Contact Person: Ed Yoshida  
Phone: 961-8327  
Date: 5/18/95  

Signed: [Signature]  
Date: 5/18/95
016657

COUNTY OF HAWAII
DEPARTMENT OF PUBLIC WORKS
ROUTE SLIP

<table>
<thead>
<tr>
<th>FROM:</th>
<th>DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>TO</th>
<th>INITIAL/DATE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>CHIEF ENGINEER</td>
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<tr>
<td></td>
<td>DEPUTY CHIEF ENGINEER</td>
</tr>
<tr>
<td></td>
<td>AUTOMOTIVE</td>
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<td></td>
<td>BUILDING</td>
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<td></td>
<td>ENGINEERING</td>
</tr>
<tr>
<td></td>
<td>HIGHWAY MAINTENANCE</td>
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<td></td>
<td>TRAFFIC</td>
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<td></td>
<td>WASTEWATER</td>
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<tr>
<td></td>
<td>SOLID WASTE</td>
</tr>
<tr>
<td></td>
<td>ADMINISTRATIVE OFFICER</td>
</tr>
<tr>
<td></td>
<td>PERSONNEL ASSISTANT</td>
</tr>
<tr>
<td></td>
<td>SECRETARY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAKE ACTION</th>
<th>INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCULATE</td>
<td>DISTRIBUTION</td>
</tr>
<tr>
<td>FILE</td>
<td></td>
</tr>
</tbody>
</table>

REMINDERS: [ ] APPROVAL [ ] SIGNATURE
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
919 Ala Moana Blvd., 3rd Floor
Honolulu, Hawaii 96814

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by MAY 28.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
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<tbody>
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<td>Hawaii</td>
<td>Keaau-Hay Well</td>
<td>3589-01</td>
<td>Well and Pump</td>
</tr>
</tbody>
</table>

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

Sincerely,

 Rae M. Loui
Deputy Director

Response:

( ) We have no objections
( ) Not subject to our regulatory authority and permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: Bill Wong
Phone: 586-258
Signed: Bill Wong
Date: 5/19/95
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
919 Ala Moana Blvd., 3rd Floor
Honolulu, Hawaii 96814

Attn: Mr. Dennis Tulang

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by [MAY 26 1995].

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
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</table>

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

Sincerely,

RAE M. LOUI
Deputy Director

Response:

- [ ] We have no objections
- [ ] Not subject to our regulatory authority and permit
- [ ] Comments attached
- [ ] Additional information requested
- [ ] Extended review period requested

Contact Person: LORI N. KAJIWARA

Signed: LORI N. KAJIWARA

Phone: 586-4290
Date: 5-17-95
TO: Dr. Don Hibbard, Director  
   Historic Preservation Program

FROM: Rae M. Loui, Deputy Director  
   Commission on Water Resource Management

SUBJECT: Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by MAY 26 1995.

<table>
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<td>Well and Pump</td>
</tr>
</tbody>
</table>

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

Response:

- We have no objections
- Not subject to our regulatory authority and permit
- Comments attached
- Additional information requested
- Extended review period requested

Contact Person: William Devick  
Phone: 587-0225

Signed: William Devick  
Date: 5-15-95
APPLICATION FOR PERMIT
☐ Well Construction or ☐ Pump Installation

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: Gerald P. Hay / Deborah Hay
   Contact Person: Same
   Address: P.O. Box 761
   Phone: 946-7610

   (b) LANDOWNER
   Firm/Name: Gerald + Deborah Hay
   Contact Person: Same
   Address: P.O. Box 761
   Phone: 946-7610

   (c) CONTRACTOR
   Firm/Name: P.K. Drilling
   Address: 225 Kalia Rd. St. Wahiawa, HI 96786
   Contractor's C-57 License No.: C-96-27

2. WELL LOCATION/NAME:
   Hawaiian Paradise Park - HAY
   Island: HAWAII
   Address: 15-1178 Old Railroad Ave.
   Tax Map Key: F-1-5-037-005

3. (a) PROPOSED WORK:
   D Drill New Well
   ☐ Modify Existing Well
   ☐ Pump
   ☐ Well Rehabilitation
   ☐ Abandon/Seal
   * Be sure to complete and submit well abandonment report upon completion of work.

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 80 gallons per minute
   Pump Type:
   ☐ Deep Well Turbine
   ☑ Submersible
   ☐ Centrifugal
   ☐ Rotary
   ☐ Rotary-Displacement
   ☐ Reciprocating
   ☐ Rotary Gear
   Motor:
   ☐ Electric
   ☐ Diesel
   ☐ Gas

5. PROPOSED USE:
   ☐ Municipal (including hotels, stores, etc.)
   ☐ Domestic (individual, noncommercial water use)
   ☐ Irrigation (crop)
   ☐ Commercial
   ☐ Industrial
   ☐ Urban
   ☐ Agricultural
   ☐ Rural
   ☐ Conservation
   ☐ County Zoning (describe)
   ☐ State Land Use District
   ☐ G-15 (Hawaii, maximum 10,000 acres, minimum 5,000 acres)
   (If more space is needed, continue below under remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   30000 gal/day
   (b) METHOD OF FLOW MEASUREMENT:
   ☐ Flow-meter
   ☐ Open-pipe
   ☐ Office Plate
   ☐ Well

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

8. REMARKS, EXPLANATIONS:
   [Blank space for additional remarks or explanations]

NOTE: Signing below indicates that the applicant understands that, if the permit is granted, the proposed work is to be completed within two years of the approval date, in addition, the contractor shall submit to the Commission a well completion report, and all abandonment reports, if any, within 30 days after completion date of the permit work. The applicant also understands that the well water use data shall be submitted to the Commission. The applicant further understands that the proposed permit may not contain a determination of corrosive water risks and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Gerald Hay
Landowner: Gerald Deborah Hay
Contractor: P.K. Drilling

Signature: Gerald Hay / Deborah Hay
Signature: Gerald Hay / Deborah Hay
Signature: P.K. Drilling

Date: 4-26-95 4-26-95 1-5-95

For Official Use Only:
Date Received
Date Accepted
Field Checked By
Date
Longitude
Latitude
Aquifer System Name
State Well No.
9. PROPOSED WELL SECTION

**Remarks, Explanations (cont'd):**

---

**Ground Elevation:** ______ ft., msl*

- **Elevation at top of casing:** ______ ft.
- **Rock Packing:** ______ ft.
- **Cement Grout:** ______ ft.
- **Solid Casing:**
  - **Material:**
  - **Length:** ______ ft.
  - **Diameter:** ______ in.
  - **Wall thickness:** ______ in.
- **Casing:** □ Perforated  □ Screen
  - **Material:**
  - **Length:** ______ ft.
  - **Diameter:** ______ in.
  - **Wall thickness:** ______ in.
  - **Openings:** ______ sq. in./L.F.

---

*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.
TAXATION MAPS BUREAU
STATE OF WASHINGTON

TAX MAP

<table>
<thead>
<tr>
<th>#</th>
<th>365</th>
</tr>
</thead>
</table>

TYPICAL LOT

1-5-37-005

Note: All parcels owned by Union Pacific R. Co., unless otherwise noted.
Mr. and Mrs. Gerald P. Hay
P.O. Box 761
Keaau, HI 96749

Dear Mr. and Mrs. Hay:

We have received your application and filing fee for a permit to construct and install a pump in Keaau-Hay Well (Well No. 3589-01) at Hawaiian Paradise Park-Hay, Keaau, Hawaii, (TMK 1-5-037-005). We are reviewing the application for completeness.

Should you have any questions, please call the Commission on Water Resource Management staff at 587-0251.

Sincerely,

RAE M. LOUI
Deputy Director
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
919 Ala Moana Blvd., 3rd Floor
Honolulu, Hawaii 96814

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by __MAY 26 1995__.

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</table>

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

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

Response:

( ) We have no objections
( ) Not subject to our regulatory authority and permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
919 Ala Moana Blvd., 3rd Floor  
Honolulu, Hawaii 96814

Attn: Mr. Dennis Tulang

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **MAY 26, 1995**.

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

Sincerely,

RAE M. LOUI  
Deputy Director

Response:

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
223 South King Street, Suite 400  
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **MAY 26 1995**.

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</table>

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

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

Response:

( ) We have no objections
( ) Not subject to our regulatory authority and permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
TO: Mr. Kali Watson, Director  
Department of Hawaiian Home Lands  
Mr. Clayton H.W. Hee, Chairman and Trustee At Large  
Office of Hawaiian Affairs  
FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management  
SUBJECT: Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by MAY 26 1995.

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</table>

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

Enc.

Response:

() We have no objections  
() Not subject to our regulatory authority and permit  
() Comments attached  
() Additional information requested  
() Extended review period requested

Contact Person: ____________________________ Phone: ________________

Signed: ________________________________ Date: ________________
TO: Dr. Don Hibbard, Director  
    Historic Preservation Program  
    Mr. William Devick  
    Division of Aquatic Resources  
FROM: Rae M. Loui, Deputy Director  
SUBJECT: Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by MAY 25, 1995.

<table>
<thead>
<tr>
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<th>Well Name</th>
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</table>

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

Response:

- We have no objections
- Not subject to our regulatory authority and permit
- Comments attached
- Additional information requested
- Extended review period requested

Contact Person:_________________________ Phone:_________________________

Signed:_________________________ Date:_________________________
Mr. Milton Pavao, Manager  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720  

Dear Mr. Pavao:  

Well Construction and Pump Installation Permit Applications  

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **MAY 25 1995**.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
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</table>

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

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

---

Response:

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ___________________________  
Phone: ___________________________

Signed: ___________________________  
Date: ___________________________
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Ms. Kiyosaki:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by MAY 26 1995.

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

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

Response:

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ___________________________ Phone: ___________________________

Signed: _________________________________ Date: ___________________________
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filled in)

(a) WELL OWNER

Name: Gerald P. Hay
Address: P.O. Box 764

(b) LANDOWNER

Name: Gerald + Deborah Hay
Address: Kaimuki, HI 96743

(c) CONTRACTOR

Name: P.R. Drilling
Address: 225 Kalihi St, Honolulu, HI 96815

Firm/Name: P.R. Drilling
Contractor's C-57 License No: C-9627

2. WELL LOCATION/NAME: Hawaiian Paradise Park - HAY
Address: 15-1178 Old Railroad Ave

(Associate USGS map, scale 1" = 2007, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:

Drill New Well
Modify Existing Well
Create New Location
Deepen
Modify Pump
* Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:

Dug
Bored
Driven
Bored
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: 80 gallons per minute

Motor:

Diesel
Gas
Electric, rated horsepower of

5. PROPOSED USE:

Municipal (including hotels, stores, etc.)
Domestic (individual, noncommercial water use)
Irrigation (crop) P.O. Eucalyptus

County Zoning (describe)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:

3,000 to 5,000 gallons per day

(b) METHOD OF FLOW MEASUREMENT:

Flow-meter
Open-pipe
Orifice Plate
Weir

7. PENDING ACTIONS:

CURA
SMA
SIS
EA
NONE

8. REMARKS, EXPLANATIONS:

Comments and additional details.

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 90 days after completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that upon the proposed permit, the applicant consents to the determination of correlative water rights and shall not guarantee the pump capacity of future use up to the permitted pump capacity.
9. PROPOSED WELL SECTION

Elevation at top of casing

Ground Elevation:

Cement Grout:

Rock Packing:

Hole Diameter:

Total Depth:

Solid Casing:

Casing:

Open Hole:

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 or well components shall be submitted in the well completion/well abandonment reports.
Note: Gave to Katay for deposit
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      Firm/Name: Gerald P. Hay/Deborah J. Hay
      Contact Person: Same
      Address: P.O. Box 761, Keaau, HI 96749
   (b) LANDOWNER
      Firm/Name: Gerald + Deborah Hay
      Contact Person: Same
      Address: P.O. Box 761, Keaau, HI 96749
   (c) CONTRACTOR
      Firm/Name: PB Drilling
      Contact Person: Same
      Address: 335 Kekala St. Waimea, HI 96796

2. WELL LOCATION/NAME: Hawaiian Paradise Park - HAY
   Island: HAWAII
   Address: 15-1178 Old Railroad Ave.
   Tax Map Key: 1-5-037-006

3. (a) PROPOSED WORK:
      • Drill New Well
      • Alter Location
      • Modify Existing Well
       - Radial
      • Install New Pump
       - Replace Pump
       - Modify Pump
      • Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
      • Dug
      • Bored
      • Driven
      • Drilled
      • Radial
      
      Is this well a part of a battery of wells? C Yes C No
      (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 80 gallons per minute
   Motor:
   • Deep Well Turbine
   • Rotary
   • Submersible
   • Centrifugal
   • Propeller
   • Rotary-Displacement
   • Reciprocating
   • Rotary-Gear
   • Electric, rated horsepower of 5 hp

5. PROPOSED USE:
   • Municipal (including hotels, stores, etc.)
   • Domestic (individual, non-commercial water supply)
   • Irrigation (prop.
   • Ornamentals - Orchids
   • Conservation:
   • Urban
   • Agriculture
   • Rural
   • State Land Use District:
   • Industrial
   • Other (explain)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   • 3000-5000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
      • Flow-meter
      • Open-pipe
      • Orifice Plate
      • War

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

8. REMARKS, EXPLANATIONS:

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

Well Owner: Gerald Hay
Signature: 1-21-95
Date: 4-24-95

Landowner: Gerald + Deborah Hay
Signature: 1-21-95
Date: 4-24-95

Contractor: PB Drilling Co.
Signature: 1-21-95
Date: 4-24-95

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

- Elevation at top of casing: ____ ft., nat.
- Ground Elevation: ____ ft., nat.
- Cement Grout: ____ ft.
- Solid Casing:
  - Material: __________
  - Length: ___ ft.
  - Diameter: __" ("""
  - Wall thickness: __ in.
- Rock Packing: ____ ft.
- Hole Diameter: __(e.g.,) in.
- Total Depth: __00 ft.
- Casing:
  - Perforated: [ ]
  - Screen: [ ]
  - Material: __________
  - Length: ___ ft.
  - Diameter: __" (""
  - Wall thickness: __ in.
  - Openings: __ sq. in./L.F.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (nat) 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.